

Advice

- You can take the system down by accident.
If you're not sure of something, press 'shift' then type ******** to cancel your changes (assuming you have not already completed the change).
- There are no "undo" commands in this system.
- The system does not ask "are you sure" before executing a change.
- Changes take place immediately.
- Print the data out BEFORE you make changes so you have a record of what it was before you screwed it up.
- Changing the system time to the wrong date will cause all voice mail messages to be lost.
- If someone is using a phone you are making changes to, they will be cut off when you hit ENTER.
- Not every feature in this book will work on every system.

Communicating with the system

To communicate with the system, the following input/output devices at either on-site (local) or remote locations are required:

- TTY or VDT terminal as an input/output device
- RS-232-C compatible printer as an output only device
- maintenance telephone set as an input only device

The input/output system can operate with terminals having the following characteristics:

- Interface: RS-232-C
- Code: ASCII
- Speed: 110, 300, 1200, 2400, 4800, 9600 and 19200 baud
- Loop Current: 20 mA

Accessing the system

Logging in and out

When you access the system through a system terminal, a login procedure is required (refer to [Procedure 1 on page 9](#)). All system passwords are initially set as 0000, but you can change passwords through the Configuration Record (LD 17). See also “Limited Access to Overlays” in the *Features and services* NTP.

Level 1 password. This general password is used in the log in sequence to provide general access to the system by service personnel. Once the system is accessed, the service personnel may then perform any necessary administration or maintenance tasks.

Level 2 password. This administrative password is known and used only by the data administration manager. The password is used to protect the system configuration record and is required when using LD 17 to change either the general or the administrative passwords.

Local and remote access

Input/output terminals may operate either locally or remotely. However, data modems are required for terminals located more than 50 ft (15 m) from the central control interface. Both local and remote terminals interface with the system through Serial Data Interface (SDI) packs.

Many devices can be installed at local and remote locations. When a system terminal is installed locally, it is connected directly to a SDI Card. When a system terminal is installed at a remote location, modems (or data sets) and a telephone line are required between the terminal and the SDI card.

HOST mode access

A system terminal is connected through an SDI port. SDI ports are defined in LD 17 and may be configured for different types of outputs. For example, one terminal may be defined for traffic reports, another for maintenance messages. Two ports may be defined for the same output.

It is possible to log in as a HOST. When in the HOST mode, the outputs defined for the port are only output to that port. Thus the port is no longer limited to the speed of the slowest port sharing the output types. This is useful for applications, such as MAT, which require high speed ports. Once the HOST port has logged out, the outputs to the other ports are restored.

To configure a system terminal, see the “System and limited access passwords” in the configuration record (LD 17). See also OVL403 and OVL404 messages, which are output to the ports affected by a HOST log in.

Line mode interface log in procedure

With Line Mode interface enabled (LON), the backspace can be used to edit input. The entered information (responses, for example) is not processed until the <CR> is entered. When the Line Mode is disabled (LOF), the system terminal interface operates as it did by default.

Procedure 1 Logging in and out

1 Press <cr>

— If the response is: **OVL111 nn TTY** or **OVL111 nn SL-1**

That means: Someone else is logged into the system. When they have logged off, press <cr> and go to Step 2.

— If the response is: **OVL111 nn IDLE** or **OVL111 nn BKGD**

That means: You are ready to log into the system. Go to Step 2.

— If the response is: **OVL000 >**

That means: This is the program identifier which indicates that you are already logged into the system. Go to Step 4.

2 Enter: **LOGI**, then press <cr>

The normal response is: **PASS?**

If there is any other response, refer to the message text in the System Error Messages NTP.

3 Enter: **Level 1** or **Level 2 password** and press <cr>.

If the password is correct, the system responds with the prompt: >

- 4 Load a program by entering: **LD XX or LD XXX**(where X represents the overlay program number).
- 5 Perform tasks
- 6 End the program by entering: **END** or ********
7. Always end the log in session with: **LOGO**

The background routines are then loaded automatically.

Access through the maintenance telephone

A telephone functions as a maintenance telephone when you define the class-of-service as MTA (maintenance telephone allowed) in the Multi-line Telephone Administration program (LD 11). A maintenance telephone allows you to send commands to the system, but you can only use a subset of the commands that can be entered from a system terminal.

You can test tones and outpulsing through the maintenance telephone. Specific commands for those tests are given in the Tone and Digit Switch and Digitone Receiver Diagnostic (LD 34).

To access the system using the maintenance telephone, see [Procedure 2 on page 11](#). To enter commands, press the keys that correspond to the letters and numbers of the command (for example, to enter LD 42 return, key in 53#42##). [Table 2 on page 11](#) shows the translation from a keyboard to a dial pad.

The following overlays (LDs) ARE accessible from a maintenance telephone: 30, 32, 33, 34, 35, 36, 37, 38, 42, 43, 45, 46, 60, 61, 62

The following overlays (LDs) ARE NOT accessible from a maintenance telephone: 31, 40, 48, 77, 80, 92, 96, 135, 137, 143

Note: To use the maintenance telephone, the loop for that telephone must be operating.

Table 2
Translation from keyboard to dial pad

Keyboard				Dial pad
			1	1
A	B	C	2	2
D	E	F	3	3
G	H	I	4	4
J	K	L	5	5
M	N	O	6	6
P	R	S	7	7
T	U	V	8	8
W	X	Y	9	9
			0	0
		Space or #		#
		Return		##
		*		*
Note: There is no equivalent for Q or Z on a dial pad.				

Procedure 2
Access through the maintenance telephone

- 1 Press the prime DN key.
- 2 Place the set in maintenance mode by entering: **xxxx91**
 Where: “xxxx” is the customer Special Prefix (SPRE) number. It is defined in the Customer Data Block and can be printed using LD 21. The SPRE number is typically “1” (which means you would enter 191).
- 3 Check for busy tone by entering “return” : **##**
 - If there is no busy tone, go to Step 4.
 - If there is a busy tone, a program is active. To end an active program and access the system enter: ********
- 4 Load a program by entering: **53#xx##**
 Where: “xx” represents the number of the overlay program

- 5 Perform tasks.
- 6 To exit the program and return the telephone to call processing mode, enter: ****

Background routines are then loaded automatically.

Accessing Meridian Mail Compact

The system allows access to Meridian Mail Compact Administration & Maintenance through a shared terminal. To access the Meridian Mail system, log in and enter: AX. To exit from Meridian Mail, press the Control key and the closed square bracket (]) simultaneously.

System memory and disk space

The following memory information is output when an administration program is loaded. This information is used to plan the addition of new features, such as speed call lists, which require memory.

MEM AVAIL: (U/P): pppppp USED: qqqqqq TOT: rrrrrr

or (depending on the total amount of memory)

MEM AVAIL: (U-ppppp1 P-ppppp2): USED: qqqqqq TOT: rrrrrr

Legend:

Element	Definition
ppppp1	Amount of unprotected memory available for use (in words)
ppppp2	Amount of protected memory available for use (in words)
pppppp	Total memory available for use (ppppp1 + ppppp2) (in words)
qqqqqq	Total amount of memory used (in words)
rrrrrr	Total amount of memory (in words)
xxxxx	Floppy disk records available for storage of additional data

Low memory and disk warnings

If the amount of memory is low, the following message is output:

WARNING: LOW MEMORY

When this message appears avoid performing further administration changes which require more memory. These changes may be lost during the next data dump.

When low memory problems occur, a review of system memory is recommended. Memory may be reclaimed by removing unused features. For example, the system may have speed call lists which are no longer used and can be removed.

Preview of overlay content

System information, call information, features and services are all controlled by overlays (LDs). Data blocks are used to control this information. Listed below are some of the items accessible through the overlays.

Type	Overlay(s)	Item
Terminal Number data block	10, 11, 12, 14	busy lamp field Class of Service (CLS) feature access and requirements key assignments route assignment telephone features (# of key strips, data modules) telephone type trunk access trunk type
Customer data block	15	attendant console information customer number feature access codes incoming call identification intercept options Listed Directory Number (LDN) night service Recorded Announcement (RAN)
Route data block	16	access codes Call Detail Recording (CDR) information code restrictions network trunk features route number trunk route type trunking features (timers, starting arrangements)
Configuration data block	17	input/output devices network loop usage number of memory modules number of network loops system parameters (call register, buffer sizes, traffic)

Multi-User Login

Meridian 1 Multi-User Login (MULTI_USER) (package 242) enables up to three users to log in, load, and execute overlays simultaneously. These three users are in addition to an attendant console or maintenance terminal. The multi-user capability increases the efficiency of craftpersons by enabling them to perform tasks in parallel. To facilitate this operating environment, Multi-User Login includes significant functionality:

- Database conflict prevention
- Additional user commands
- TTY log files
- TTY directed I/O

With multiple overlays operating concurrently, there is the potential for a database conflict if two or more overlays attempt to modify the same data structure. Multi-User Login software prevents such conflicts. When a user requests that an overlay be loaded, the software determines if it could pose a potential conflict with an overlay that is already executing. If no conflict exists, the requested overlay is loaded. If a conflict does exist, the system issues the following message:

OVL429-OVERLAY CONFLICT

The user can try again later, or try to load a different overlay.

Multi-User Login also introduces several new user commands. With these commands, the user has the ability to:

- communicate with other users
- determine who is logged into the system
- halt and resume background and midnight routines
- initiate and terminate terminal monitoring
- change printer output assignment

User commands

A user can issue any of the commands listed and described in [Table 3, “New user commands,” on page 18](#) at the > prompt (after login but with no overlay executing), or from within an overlay. To issue a command from within an overlay, precede the command with an exclamation point (!).

For example, to issue the WHO command from within an overlay, type:

```
!WHO
```

Table 3
New user commands

Command	Description
WHO	Displays user name, port ID, and overlay loaded for each logged-in terminal, as well as the user's MON and SPRT commands (see below).
SEND xx	Sends a message to logged-in terminal xx. When the system responds with a "SEND MSG:" prompt, enter the message text yy...yy (up to 80 characters). The text of a message is considered private and therefore is not written to any log file.
SEND ALL	Sends a message to all logged-in terminals. When the system responds with a "SEND MSG:" prompt, enter the message text yy...yy (up to 80 characters). The text of a message is considered private and therefore is not written to any log file.
SEND OFF	Prevents messages sent by other terminals from appearing at the user's terminal.
SEND ON	Enables messages sent by other terminals to appear at the user's terminal.
FORC xx	Forces terminal xx to log off (the requesting user must log in with LAPW or a level 2 password).
HALT	Stops background and midnight routines during a login session.
HALT OFF	Resumes halted background and midnight routines.
MON xx	Initiates monitoring for terminal xx (the requesting user must log in with LAPW or a level 2 password). The monitored terminal receives a message at the beginning and end of the monitored period.
MON OFF	Turns off the monitor function.
SPRT xx	Assigns printer output to port xx.
SPRT OFF	Resets printer output assignment.

For more information on Multi-User Login, consult the *Management Applications NTP*.

Maintenance display codes

Maintenance displays are located on the faceplate of certain Meridian SL-1 circuit cards. A maintenance display code is a one-, two-, or three-digit alphanumeric code which can indicate the status of the system and identify faulty equipment. For a detailed definition of these codes, see the section titled “HEX” in the System Error Messages NTP.

Time and date of fault

The system identifies the time that faults are detected. When a diagnostic message is output, a timestamp is output within 15 minutes. The format is:

TIMxxx hh:mm dd/mm/yy CPU x

Where: **xxx** is the system ID

The time, date, and system ID are set in LD 2.

LD 01—Template audit

Templates are used to store data which is common to many telephones. This includes items such as key functions and Class of Service. The Template Audit program saves protected memory by eliminating unused or duplicate telephone templates.

LD 1 also performs the following consistency checks.

User Count Scan

All telephones in the system are scanned to find the total number of users for a template.

If a template is found to have no users, the entire template is removed with the warning message 'NO USERS FOUND'. If a template is found to have an incorrect user count, the correct user count is written to the template, and the warning message 'USER COUNT LOW' or 'USER COUNT HIGH' is output. If the user count is accurate, the message 'USER COUNT OK' is output.

Duplicate Template Scan

Each template is checked against every other template for possible duplication. A template is considered a duplicate of another if all of the following conditions are met:

- the checksums are the same
- the template lengths and the hunt offsets are the same
- all template entries are the same

If a match is found, the warning message 'DUPLICATE OF xxxx' is output. A scan is then initiated to locate all users of the current template and move them to the matched template.

For each of these users found, the template number in the telephone data block and the user count is updated. After all of the users of the current template are moved to the matched template, the current template is removed.

Template Checksum Audit

A checksum is a binary sum of the template length, hunt offset, and template entries. The checksum is calculated for each template and compared with the existing template checksum. If the existing checksum is correct, the message 'CHECKSUM OK' is output. Otherwise, the checksum is corrected with the warning message 'CHECKSUM WRONG'.

Key Lamp Strip Audit

Two checks are made to correct Key Lamp Strip (KLS) corruption. First, the template length is compared to the number of KLS indicated in the protected line block. The second check verifies that the last word of the template reflects a 'NULL' key.

If these checks detect any discrepancies, they are corrected with the warning message 'CORRUPTED KLS'.

These corrections alter the checksum of the template. This is identified and corrected by the checksum audit.

Operating parameters

Due to the Real Time impact of this program and the large amount of data being scanned, the template audit should be run during low traffic hours.

The template audit should not be aborted unless it is critically necessary. If it does become necessary to interrupt execution of the audit, be aware that the templates may be corrupted.

If a system initialization occurs during the template audit, the program is automatically aborted. It should be restarted as soon as possible after this occurs.

The audit printout only appears on the TTY that requested the template audit program run.

Template Audit cannot be run as a background task.

To confirm that extraneous templates have been removed and that all counts have been corrected to their proper value, re-run the audit program.

A datadump (LD 43) should be run after a template audit is executed.

Sample operation

The audit begins when the program (LD 1) is loaded. All templates are scanned in the following sequence, beginning with template one:

- 1 Single line telephones
- 2 Multi-line telephones

Following is an example of the system information which is generated during a Template Audit:

```

TEMPLATE AUDIT
STARTING PBX TEMPLATE SCAN
TEMPLATE 0001 USER COUNT LOW    CHECKSUM OK
TEMPLATE 0002 USER COUNT HIGH    CHECKSUM OK
TEMPLATE 0003 NO USERS FOUND
      •
      •
      •
STARTING SLI TEMPLATE SCAN
TEMPLATE 0001 USER COUNT OK    CHECKSUM OK
      •
      •
      •
TEMPLATE 0067 USER COUNT OK    CHECKSUM WRONG
TEMPLATE 0068 USER COUNT OK    CHECKSUM OK DUPLICATE
OF 0014
      •
TEMPLATE 0082 USER COUNT OK    CHECKSUM OK
      •
TEMPLATE 0120 USER COUNT OK
TEMPLATE AUDIT COMPLETE

```

Note: The report does not print out that template inconsistencies have been corrected.

LD 01

Page 34 of 848 LD 01—Template audit

LD 02—Traffic and Time

Contents

- Basic commands
- How to use traffic commands
- Set traffic report schedules
- Set report types
- System reports
- Customer reports
- Network report
- Set customer for feature key usage measurement
- Stop printing of title, date and time
- Set traffic measurement on selected terminals
- Set blocking probability for Line Load Control (LLC)
- Set time and date
- Set daily time adjustment
- Set system ID
- Set thresholds
- Perform threshold tests on last reports
- Print last reports

Basic commands

ASUM	Print Alarm/Exception summary
ASUM A	Print all the alarms that have at least one occurrence
ASUM E	Print all the alarms that have escalated
BWTM	Set the date and time for the clock to move backward
CITM	Clear Individual Traffic Measurement from TNs
COPC C R R	Clear one or more customer report types
COPN C R R	Clear one or more network report types
COPS R R	Clear one or more system report types
FWTM	Set the date and time for the clock to move forward
IDLT 0	No title is printed unless further data is also printed
IDLT 1	The title is always printed
INVC C R R ...	Print one or more of the last customer reports
INVN C R R ...	Print one or more of the last network reports
INVS R R ...	Print one or more of last system reports
ITHC C TH	Perform threshold tests on customer reports
ITHS TH	Perform threshold tests on system reports
SCFT C	Set the customer to be measured for feature key usage
SCTL X	Set blocking probability
SDTA X X Y	Set the time of day adjustment
SDST	Enable or disable the automatic daylight savings time adjustment
SITM	Set Individual Traffic Measurement on terminals
SLLC X	Activate Line Load Control at Level X
SOPC C R R	Set one or more customer report types
SOPN C R R	Set one or more network report types
SOPS R R	Set one or more system report types
SSHC C	Set customer report schedule
SSHS	Set system report schedule
SSID SID	Change the system ID number
STAD	Set the time and date
STHC C TH TV	Set the customer thresholds

STHS TH TV	Set the system thresholds
TCFT	Print current customer being measured for feature key usage
TDST	Query the daylight savings time adjustment information
TDTA X	Print the current time of day adjustment
TITM	Print the current TNs with Individual Traffic Measurement set
TLLC	Print current LLC level and blocking probability
TOPC C	Print the current customer report types
TOPN C	Print the current network report types
TOPS	Print the current system report types
TSHC C	Print current customer report schedule
TSHS	Print current system report schedule
TSID	Print the current system ID number
TTAD	Print the current time and date
TTHC C TH	Print the current customer thresholds
TTHS TH	Print the current system thresholds

How to use traffic commands

The Traffic Control program is used to set traffic options, system ID, date and time. The conventions used to describe the traffic commands are:

- data entered by the user is shown in upper case, data output by the system is shown in lower case
- a period (.) prompt indicates that the system is ready to receive a new command
- a double dash (--) indicates that the system is ready to receive data
- a <cr> indicates that the return key should be pressed

Note: The message TFC000 output on your switch indicates that the traffic program is running.

Set traffic report schedules

To print current customer report schedule:

```
TSHC C sd sm ed em
sh eh so
d d ...
```

To print current system report schedule:

```
TSHS sd sm ed em
sh eh so
d d ...
```

To set customer report schedule:

```
SSHC C sd sm ed em -- SD SM ED EM
sh eh so -- SH EH SO
d d ... -- D D ...<cr>
```

To set system report schedule:
SSHS sd sm ed em -- SD SM ED EM
sh eh so -- SH EH SO
d d ... -- D D ...<cr>

Legend

C = customer number

D = day of the week:

1 = Sunday

2 = Monday

3 = Tuesday

4 = Wednesday

5 = Thursday

6 = Friday

7 = Saturday

ED = end day (1-31)

EH = end hour (0-23)

EM = end month (1-12)

SD = start day (1-31)

SH = start hour (0-23)

SM = start month (1-12)

SO = schedule options:

0 = no traffic scheduled

1 = hourly on the hour

2 = hourly on the half-hour

3 = every half-hour

Example

To change the system reports schedule:

```
SSHS 25 4 16 7 -- 1 10 1 12
12 21 2 -- 0 23 1
2 3 4 5 6 -- 1 7<cr>
```


Old schedule

start time: April 25 at 12 noon

end time: July 16 at 9 P.M.

frequency: hourly on the half-hour (SO = 2)

days of the week: Monday to Friday

New schedule

start time: October 1 at 12 midnight

end time: December 1 at 11 P.M.

frequency: hourly on the hour (SO = 1)

days of the week: Sunday and Saturday

Note 1: In order to obtain traffic reports at the scheduled intervals, the output device must have prompt USER = TRF in (LD 17). If TRF is not defined for any device, reports are still generated to allow the printing of the last reports.

Note 2: Half hour start and end times are not possible.

System reports

To print the current report types: TOPS r r ...

To set one or more report types: SOPS r r ... -- R R ...<cr>

To clear one or more report types: COPS r r ... -- R R ...<cr>

Legend

R is traffic report type:

1 = networks

2 = service loops

3 = dial tone delay

4 = processor load

5 = selected terminals

7 = junctor group traffic

8 = CSL and ISDN/AP links

9 = D-channel

Note 1: To use the print command enter a space (not a carriage return) after the customer number.

Note 2: If no reports are currently set, NIL is output by the system.

Customer reports

To print the current report types: TOPC C r r ...

To set one or more report types: SOPC C r r ... -- R R<cr>

To clear one or more report types: COPC C r r ... -- R R<cr>

Legend

C = customer number

R is traffic report type:

- 1 = networks
- 2 = trunks
- 3 = customer console measurements
- 4 = individual console measurement
- 5 = feature key usage
- 6 = Radio Paging
- 7 = Call Park
- 8 = messaging and auxiliary processor links
- 9 = Network Attendant Service

Note 1: To use the print command enter a space (not a carriage return) after the customer number.

Note 2: If no reports are currently set, NIL is output by the system.
For report 5, see “Set customer for feature key usage measurement”.

Network reports

To print the current report types: TOPN C r r ...

To set one or more report types: SOPN C r r ... -- R R<cr>

To clear one or more report types: COPN C r r ... -- R R<cr>

Legend

C = customer number

R is traffic report type:

1 = route list measurements

2 = network class of service measurements

3 = incoming trunk group measurements

Note 1: To use the print command enter a space (not a carriage return) after the customer number.

Note 2: If no reports are currently set, NIL is output by the system.

Set customer for feature key usage measurement

To print current customer being measured: TCFT c

To set the customer to be measured: SCFT c -- C

Note: Where C is the customer number. Only one customer can have feature measurement set at a time.

Stop printing of title, date and time

It is possible to suppress the printing of the title (TFS000), date and time in cases where traffic measurement is scheduled but no other data is printed. The command format is:

IDLT 0,1

0 = no title is printed unless further data is also printed

1 = the title is always printed

Set traffic measurement on selected terminals

These commands are used to print, set and clear the Individual Traffic Measurement (ITM) class of service for given terminal numbers for traffic report TFS005. Telephone sets, trunk and DTI channels can have this class of service. Terminals with ITM set are included in the groups for which Line Traffic Measurements are recorded.

Note: Do not use these commands on superloops or octal density cards.

To print the current TNs with ITM set: TITM

Example

TITM

tn 4 1	(unit on TN 4 1 has ITM set)
card 2 1	(all units on card 2 1 has ITM set)
chnl 3 18	(loop 34 channel 18 has ITM set)

To set ITM on terminals: SITM

Example

SITM	(prints current settings)
loop 05	(all units on loop 5 have ITM set)
tn 4 1	(unit on TN 4 1 has ITM set)
card 2 1	(all units on card 2 1 has ITM set)
chnl 4 18	(only loop 4 channel 18 has ITM set)
-- 8 1 1	(set ITM on all units on this card)
-- 1 1	(set ITM on this unit)
-- <cr>	(stop "--" prompt)

To clear line traffic TNs: CITM (the ITM class of service is removed from all units)

Example

```
CITM          (print current settings)
tn 4 1        (unit on TN 4 1 has ITM set)
card 1 1      (all units on card 2 1 has ITM set)
chnl 34 18    (only loop 34 channel 18 has ITM set)
-- 5          (clear ITM on all units on this loop)
-- 11 3 4 1   (clear ITM on this unit)
-- 19 1 1     (clear ITM on all units on this card)
-- 34 18      (clear ITM on this loop 34 channel 18)
-- <cr>       (stop "--" prompt)
```

To clear line traffic TNs: CITM (the ITM class of service is removed from all units)

Set blocking probability for Line Load Control (LLC)

To print current LLC level and blocking probability: TLLC

To set blocking probability: SCTL **X** aaa

To activate Line Load Control at level **X** : SLLC **X**

Legend

x = F, S or T (for LLC level F, S, or T)

aaa = blocking probability in %

Set time and date (if you screw up, all voice mail will be lost)

To print the current time and date:

TTAD day-of-week day month year hour minute second

Example

STAD WED 24 11 1976 15 41 49

To set the time and date:

STAD DAY MONTH YEAR HOUR MINUTE SECOND

Example

STAD 24 11 1976 15 41 49

Note: Except for the year, the other entries in the time of day output are 2-digit numbers. The year may be any year from 1901 to 2099 inclusive. It may be input as a full 4-digit field or as a 2-digit short form. The 2-digit short form is assumed to be in the range 1976 to 2075 and the appropriate addition is made when calculating the day-of-week and leap years.

Set and print Daylight Savings Time

The daylight savings time adjustment can be programmed to take place automatically. You can set the date to change to daylight savings, and to return to standard time. This information can be queried at any time.

The following commands are accepted by this program for this capability. The system clock **MUST ALREADY** be set for the daylight savings time to be updated. This information survives sysload.

- FWTM = Set the date and time for the clock to move forward.
- BWTM = Set the date and time for the clock to move backward.
- SDST = Enable or disable the automatic change.
- TDST = Query the change information.

To implement these commands, use the following.

— FWTM <month> <week> <day> <hour>

month = 1-(4)-12 [January-December]

week = (1)-5, L [1st-5th, L is the last week of the month]

day = (1)-7 [Sunday-Saturday]

hour = 1-(2)-22 [Midnight-11:00 pm]

— BWTM <month> <week> <day> <hour>

month = 1-(10)-12 [January-December]

week = (1)-5, L [1st-5th, L is the last week of the month]

day = (1)-7 [Sunday-Saturday]

hour = 1-(2)-22 [Midnight-11:00 pm]

— SDST ON, (OFF)

ON enables the automatic change capability

OFF disables the automatic change capability

— TDST <CR>

The output reflects the input format to indicate the change information.

Set system ID

Each Meridian 1 system has a unique system ID number (SID) selected from 0000 to 9999. The 4-digit ID number can be printed or set by the following commands.

To print the current SID: TSID sid

To change the SID: SSID sid -- SID

Set thresholds

To print the current system thresholds: TTHS TH tv

To set the system thresholds: STHS TH tv -- TV

The system thresholds (TH) and range of values (TV) are:

1 = dial tone speed (range 0.00% to 99.9%)

2 = loop traffic (range 000 to 999 CCS)

3 = junctor group traffic (range 0000 to 9999 CCS)

To print the current customer thresholds: TTHC C TH tv

To set the customer thresholds: STHC C TH tv -- TV

Legend

The thresholds (TC) and range of values (TV) for customer C are:

- 1 = incoming matching loss (TV range 00.0% to 99.9%)
- 2 = outgoing matching loss (TV range 00.0% to 99.9%)
- 3 = average Speed of Answer (TV range 00.0 to 99.9 seconds)
- 4 = percent All Trunks Busy (TV range 00.0% to 99.9%)
- 5 = percent OHQ Overflow (TV range 00.0% to 99.9%)

Perform threshold tests on last reports

To perform threshold tests on customer reports: ITHC C TH

Legend

C = customer number

TH is the threshold type:

- 1 = incoming matching loss
- 2 = outgoing matching loss
- 3 = average speed of answer
- 4 = percent all trunks busy
- 5 = percent OHQ overflow

To perform threshold tests on system reports: ITHS TH

Legend

TH is the threshold type:

- 1 = dial tone speed
- 2 = loop traffic
- 3 = junctor group traffic

Note: When a threshold test passes, OK is output.

Print last reports

The last traffic reports can be printed or tested against threshold values. Data accumulating for the next reports is not accessible.

To print one or more of the last customer reports: INVC C R R ...

Legend

C = customer number

R is traffic report type:

- 1 = networks
- 2 = trunks
- 3 = customer console measurements
- 4 = individual console measurement
- 5 = feature key usage
- 6 = Radio Paging
- 7 = Call Park
- 8 = messaging and auxiliary processor links
- 9 = Network Attendant Service

To print one or more of the last network reports: INVN C R R ...

Legend

C = customer number

R is traffic report type:

- 1 = route list measurements
- 2 = network class of service measurements
- 3 = incoming trunk group measurements

To print one or more of last system reports: INVS R R ...

Legend

R is traffic report type:

- 1 = networks (per loop)
- 2 = services
- 3 = dial tone delay
- 4 = processor load
- 5 = selected terminals
- 7 = junctor group traffic
- 8 = CSL and ISDN/AP links
- 9 = D-channel

Print alarm and exception filter summary

Release 19 and later provide alarms status summaries in this overlay. The alarms printed by this overlay are discussed in the *x11 Software Management* NTP.

Enter any of the following commands at the dot (.) prompt.

Command	Description	Release
ASUM	Print Alarm/Exception summary	alm_filter-19
ASUM A	Print all the alarms that have at least one occurrence	alm_filter-21
ASUM E	Print all the alarms that have escalated	alm_filter-21

LD 10—Analog (500/2500) Telephone Administration

This Overlay program allows data blocks for the 500/2500, DTMF type telephones and Displayphone 1000/220 to be created or modified.

When the Overlay is loaded the available system memory and disk records are output in a header as follows:

PBX000

MARP information

MEM AVAIL: (U/P): xxxxxx USED: xxxxx TOT: xxxxxxxx

DISK RECS AVAIL: xxx

Incremental Software Management (ISM) also provides a header to indicate system configuration limits as follows:

TNS AVAIL: xxxxx USED: xxxxx TOT: xxxxx

ACD AGENTS AVAIL: xxx USED: xxx TOT: xxx

AST SET AVAIL: xxxxx USED: xxxxx TOT: xxxxx

Inputting one asterisk will cause the system to reissue the last prompt, and two asterisks will cause a restart of the Overlay at REQ.

Overlay programs 10, 11, 20 and 32 are linked thus eliminating the need to exit one Overlay and enter another. Once one of the above Overlays has been loaded it is possible to add, print and get the status of a set without having to exit one Overlay and load another.

The input processing has also been enhanced. Prompts ending with a colon (:) allow the user to enter either:

- 1 a question mark (?) followed by a carriage return (<cr>) to get a list of valid responses to that prompt or
 - 2 an abbreviated response. The system then responds with the nearest match. If there is more than one possible match the system responds with SCH0099 and the input followed by a question mark and a list of possible responses. The user can then enter the valid response.
-

Prompts and responses

Table of Contents

Section	Page
Prompts and responses	page 53
<i>Prompts and responses by task :</i>	
Add a telephone	page 56
Copy a set	page 58
Easy change	page 59
Remove a telephone	page 59
Move a telephone	page 59

Prompts and responses

Prompt	Response	Comment
REQ:	a...a	Request
TYPE:	a...a	Type of data block (TYPE responses begin on page 80)
CFTN	c u	Copy From Terminal Number (c u ranges are defined on page 79)
SFMT	a...a	Select format for copy command (a...a = TNDN, TN, DN, or AUTO)
TN	c u	Terminal Number (c u ranges are defined on page 79)
DELETE_VMB	(YES) NO	Delete Voice Mailbox
ECHG	(NO) YES	Easy Change
- ITEM	aaaa yyy	Item (aaaa = Program mnemonic ; yyy = its new value)
TOTN	c u	To Terminal Number (c u ranges are defined on page 79)
CDEN	aa	Card Density (aa = SD, DD, 4D, or 8D)
DES	d...d	Office Data Administration System Station Designator
CUST	(0)	Customer number
DIG	0-2045 0-99	Dial Intercom Group number and Member number

LD 10

DN	x...x yyy	Directory Number and CLID entry (Range is (0)-value entered for SIZE prompt in LD 15 minus one)
- MARP	(NO) YES	Multiple Appearance Redirection Prime
- CPND	aaa	Calling Party Name Display
- - CPND_LANG	aaa	Calling Party Name Display Language (aa = (ROM) or KAT)
- - NAME	aaaa,bbbb	Calling Party Name Display Name
- - XPLN	xx	Expected name length
- DISPLAY_FMT	aaaa,bbbb	Display Format for Calling Party Name Display
-VMB	aaa	Voice Mailbox (aaa = NEW, CHG, or OUT)
- - VMB_COS	0-127	Voice Mailbox Class Of Service
- - SECOND_DN	x...x	Second DN sharing the Voice Mailbox
- - THIRD_DN	x...x	Third DN sharing the Voice Mailbox
- - KEEP_MSGS	(NO) YES	Preserve Meridian Mail messages and current password
AST	(NO) YES	Associate Set assignment
IAPG	(0)-15	Meridian Link Unsolicited Status Message (USM) group
HUNT	x...x	Hunt DN of the next station in the Hunt chain
TGAR	0-(1)- 31	Trunk Group Access Restriction
LDN	a...a	Departmental Listed DN (a...a = (NO), 0-3, or 0-5)
NCOS	(0)-99	Network Class Of Service group number
RNPG	(0)-4095	Ringing Number Pickup Group
XLST	(0)-254	Pretranslation group with which this station is associated
SCPW	xxxx	Station Control Password
SGRP	(0)-999	Scheduled Access Restriction group number
WRLS	(NO) YES	TN corresponds to a portable personal telephone
CLS	a...a	Class of Service options (CLS responses begin on page 60)
MAUT	(NO) YES	Modify assigned authorization codes for this telephone
- SPWD	xxxx	Secure data password
- AUTH	n xxxx	Authorization code
RCO	(0)-2	Ringing cycle option for Call Forward No Answer
DCLP	0-159	Dealer Conference Loop
LNRS	4-(16)-31	Last Number Redial Size
TEN	1-51	Tenant Number
OHID	(0)-9	Off-Hook Alarm Security DN index
PLEV	0-(2)-7	Priority Level
SCI	(0)-7	Station Category Indication priority level
FCAR	(NO) YES	Forced Charge Account Restriction

LANG	(0)-5	Language choice for Automatic Wake Up service
MLWU_LANG	(0)-5	Language choice for Automatic Wake Up service
PLEV	0-(2)-7	Priority Level
SPID	x...x	Supervisor Position ID
PRI	(1)-48	Priority level for ACD Agent
AACD	(NO) YES	AST ACD telephone
ARTO	(0)-3	Alternate Redirection Time Option for call redirection
FTR	a...a x...x	Feature name and related data (FTR responses begin on page 69)

Prompts and responses by task

Add a telephone

Prompt	Response	Comment
REQ:	NEW 1-255	Request = NEW 1-255
TYPE:	a...a	Type of data block (TYPE responses begin on page 80)
TN	c u	Terminal Number (c u ranges are defined for TN on page 79)
CDEN	aa	Card Density (aa = SD, DD, 4D, or 8D)
DES	d...d	Office Data Administration System Station Designator
CUST	(0)	Customer number
DIG	0-2045 0-99	Dial Intercom Group number and Member number
DN	x...x yyy	Directory Number and CLID entry (Range is (0)-value entered for SIZE prompt in LD 15 minus one)
- MARP	(NO) YES	Multiple Appearance Redirection Prime
- CPND	aaa	Calling Party Name Display
- - CPND_LAN	aaa	Calling Party Name Display Language (aaa = (ROM) or KAT)
- - NAME	aaaa,bbbb	Calling Party Name Display Name
- - XPLN	xx	Expected name length
- DISPLAY_FMT	aaaa,bbbb	Display Format for Calling Party Name Display
- VMB	aaa	Voice Mailbox (aaa = NEW, CHG or OUT)
- - VMB_COS	0-127	Voice Mailbox Class Of Service
- - SECOND_DN	x...x	Second DN sharing the Voice Mailbox
- - THIRD_DN	x...x	Third DN sharing the Voice Mailbox
- - KEEP_MSGS	(NO) YES	Preserve Meridian Mail messages and current password
AST	(NO) YES	Associate Set assignment
IAPG	(0)-15	Meridian Link Unsolicited Status Message (USM) group
HUNT	x...x	Hunt DN of the next station in the Hunt chain
TGAR	0-(1)- 31	Trunk Group Access Restriction
LDN	aaa	Departmental Listed DN (aaa = (NO), 0-3, or 0-5)
NCOS	(0)-99	Network Class of Service group number
RNPG	(0)-4095	Ringing Number Pickup Group
XLST	(0)-254	Pretranslation group with which this station is associated

SCPW	xxxx	Station Control Password
SGRP	(0)-999	Scheduled Access Restriction Group number
WRLS	(NO) YES	TN corresponds to a portable personal telephone
CLS	a...a	Class of Service options (CLS options begin on page 60)
MAUT	(NO) YES	Modify assigned authorization codes for this telephone
- SPWD	xxxx	Secure Data Password
- AUTH	n xxxx	Authorization code
RCO	(0)-2	Ringing Cycle Option for Call Forward No Answer
DCLP	0-159	Dealer Conference Loop
LNRS	4-(16)-31	Last Number Redial Size
TEN	1-51	Tenant Number
OHID	(0)-9	Off-Hook Alarm Security DN index
SCI	(0)-7	Station Category Indication priority level
FCAR	(NO) YES	Forced Charge Account Restriction
LANG	(0)-5	Language choice for Automatic Wake Up service
MLWU_LANG	(0)-5	Language choice for Automatic Wake Up service
PLEV	0-(2)-7	Priority Level
SPID	x...x	Supervisor Position ID
PRI	(1)-48	Priority level for ACD Agent
AACD	(NO) YES	AST ACD telephone
ARTO	(0)-3	Alternate Redirection Time Option for call redirection
FTR	a...a x...x	Feature name and related data (FTR options begin on page 69)

Copy a set

Prompt	Response	Comment
REQ:	CPY 1-32	Request = CPY x
TYPE:	a...a	Type of data block
CFTN	c u	Copy from Terminal Number (c u ranges are defined on page 79)
SFMT	aaaa	Select Format. You may respond to SFMT with: AUTO, TNDN, TN or DN. Subprompts follow each of these responses as follows:
	AUTO	The system provides the new TNs, DNs and ACD position ID for ACD telephones are provided by the system.
- TN	c u	TN of new set (c u ranges are defined on page 79)
- DN	x...x	DN of new set
- POS	xxxx	ACD position ID
	TNDN	Manual selection of TNs, DNs and ACD position IDs for ACD telephones. TN, DN and are prompted -n- times as defined by the CPY command.
- TN	c u	TN of new set (c u ranges are defined on page 79)
- DN	x...x	DN of new set
- POS	xxxx	ACD position ID
	TN	New DNs and ACD position IDs for ACD telephones are provided by the system. TN is prompted -n- times as defined in the CPY command.
- DN	x...x	DN of new set
- POS	xxxx	ACD position ID
- TN	c u	TN of new set (c u ranges are defined on page 79)
	DN	The new TNs are provided by the system. You are prompted for the starting TN and each DN and ACD position ID for ACD telephones. DN and/or POS are prompted n times as defined in the CPY command.
- TN	c u	TN of new set (c u ranges are defined on page 79)
- DN	x...x	DN of new set
- POS	xxxx	ACD position ID

Easy change

Prompt	Response	Comment
REQ:	CHG	Request = CHG
TYPE:	a...a	Type of data block
TN	c u	Terminal Number (c u ranges are defined on page 79)
ECHG	YES	Easy Change
ITEM	aaaa yyy	Item (aaaa = Program mnemonic ; yyy = its new value)

Remove a telephone

When removing more than one telephone at a time, you are prompted for the starting TN. The next consecutive assigned TNs are removed.

Prompt	Response	Comment
REQ:	OUT 1-32	Request = OUT x
TYPE:	a...a	Type of data block
TN	c u	Terminal Number (c u ranges are defined on page 79)
DELETE_VMB	(YES) NO	Delete Voice Mailbox

Move a telephone

Telephones with mixed directory numbers can only be moved to a TN on the same loop unless the prompt MLDN = YES in LD 17.

Prompt	Response	Comment
REQ:	MOV	Request = MOV
TYPE:	a...a	Type of data block
TN	c u	Terminal Number (c u ranges are defined on page 79)
TOTN	c u	To Terminal Number

Alphabetical list of prompts

Prompt	Response	Comment
AACD	(NO) YES	Associate set (AST) ACD telephone
ARTO	(0)-3	Alternate Redirection Time Option for call redirection, defined in the customer data block. Prompted if CLS = RTDA.
AST	(NO) YES	Associate Set assignment For sets associated with ISDN Applications Protocol features.
AUTH	n xxxx	Authorization code. Where: <ul style="list-style-type: none"> • n = number (1-6) of assigned authorization code • xxxx = assigned authorization code (Any customer authorization code assigned in LD 88 is valid.) <p>AUTH is prompted when CLS = AUTR (Class of Service = Authorization code required).</p>
CAC	(0)-10	Category code Category Code range for outgoing CNI of MFC trunks when Multifrequency Compelled Signaling (MFC) package 128 is equipped.
CDEN	SD DD 4D 8D	Single Density Card Double Density Card Quadruple Density Card Octal Density Card If REQ=NEW and the loop is a superloop, the default is 4D. If REQ=NEW and the XOPS card is to be configured on the loop, set CDEN to DD. If REQ=CHG, the card density is not changed.
CFTN	c u	Copy From Terminal Number. Prompted if REQ = CPY. For Meridian: c u = card, unit Use this TN as a template for the new sets. Associate set (AST) assignments are not copied to the new telephones.
CLS		Class of Service options The following CLS assignments determine the calling options and features available to an analog telephone. Defaults are shown in parentheses. Enter each non-default option required, separated by a space.

Prompt	Response	Comment
		Access Restrictions
(CTD)		Conditionally Toll Denied
CUN		Conditionally Unrestricted
FR1		Fully Restricted class 1
FR2		Fully Restricted class 2
FRE		Fully Restricted
SRE		Semi-Restricted
TLD		Toll Denied
UNR		Unrestricted
(ABDD)		Abandoned call record and time to answer denied
ABDA		Abandoned call record and time to answer allowed
(AGTD)		ACD services for 500/2500 type telephone sets denied
AGTA		ACD services for 500/2500 type telephone sets allowed
		An AGTA entry will not be validated if you do not define FEAT = ACD in the same pass through this overlay.
(ARHD)		Audible Reminder of Held Call Denied
ARHA		Audible Reminder of Held Call Allowed
(ASCD)		Alarm Security Denied
ASCA		Alarm Security Allowed
		Mutually exclusive with Three-Party Service Allowed (TSA)
(AUTU)		Unrestricted Authcode
AUTD		Denied Authcode
AUTR		Restricted Authcode
		When the CLS is changed from AUTR to either AUTU or AUTD, all previous telephone authorization code information is removed. Must have Station Specific Authorization Codes (SSAU) package 229.
(BNRD)		Busy Number Redial Denied
BNRA		Busy Number Redial Allowed
		Must have ADL configured and Flexible Feature Codes (FFC) package 139.
(C6D)		Six-Party Conference Denied
C6A		Six-Party Conference Allowed
		C6A requires Transfer Allowed (XFA) Class of Service.

LD 10

Prompt	Response	Comment
	(CCSD) CCSA	Controlled Class of Service Denied Controlled Class of Service Allowed CCSA is required for the Electronic Lock feature. See the Flexible Feature Codes section in the <i>X11 features and services</i> NTP. Must have Controlled Class of Service (CCOS) package 81.
	(CDMD) CDMA	CDMD denies record generation CDMA allows external station activity records to be generated for the set
	(CFHD) CFHA	Call Forward/HUNT Override Denied Call Forward/HUNT Override Allowed
	(CFTD) CFTA	Call Forward by Call Type Denied Call Forward by Call Type Allowed Call Forward by Call Type enhances Hunt and Call Forward No Answer. CFTA requires Hunting Allowed (HTA) and/or Call Forward Allowed (FNA) Class of Service.
	(CFXD) CFXA	Call Forward All Calls to external DN Denied Call Forward All Calls to external DN Allowed Examples of external DNs are: <ul style="list-style-type: none">• Route Access Code• ESN Access Code• CDP Distant Steering Code When Denied, a call can only be forwarded to the following internal DNs: <ul style="list-style-type: none">• Single or multi-line telephone• Attendant DN or CAS local attendant DN• Listed DN as defined in LD 15• Message center DN where MWC = YES
	(CLBD) CLBA	Deactivate Calling Party Number and Name per-line blocking Activate Calling Party Number and Name per-line blocking The user may still request CPP by dialing the CPP code.
	(CLTD) CLTA	Network Call Trace from this telephone Denied Network Call Trace from this telephone Allowed

Prompt	Response	Comment
(CNDD)	Call Number Display Denied	
CNDA	Call Number Display Allowed	
		Allows user to see calling or called name associated with the number dialed if CPND is set up for the customer associated with the portable personal telephone. Allowed if WRLS = YES.
(CNID)	Call Number Information Denied	
CNIA	Call Number Information Allowed	
(CWD)	Call Waiting Denied	
CWA	Call Waiting Allowed	
		The telephone should also have CLS = HTD (Hunting Denied) since hunting takes precedence.
(CWND)	Call Waiting Notification Denied	
CWNA	Call Waiting Notification Allowed	
		Must have Call Waiting Notification (CWNT) package 225.
(DDGA)	DN display on other set Allowed	
DDGD	DN display on other set Denied	
(DTN)	Digitone. DTN is used for 2500, UNITY and digitone telephones.	
DIP	Dial Pulse. DIP is used for 500, rotary and dial pulse telephones. .	
MNL	Manual service. MNL is used for manual service to the attendant and Flexible Hot Line	
(DPUD)	DN Pickup Denied	
DPUA	DN Pickup Allowed	
		DN Pickup is not allowed on telephones in group zero (RNPG = 0). Must have Directed Call Pickup (DCP) package 115.
(EHTD)	Enhanced Hot Line Denied	
EHTA	Enhanced Hot Line Allowed	
		Cannot be assigned with LLC1, LLC2, LLC3, LNA, MNL or Permanent Hold feature.
(FAXD)	Fax denied	
FAXA	Fax allowed. ISDN call is generated with 3.1 KHz Bearer Capability. Set is a modem or a FAX machine.	
(FND)	Call Forward No answer Denied	
FNA	Call Forward No answer Allowed	

LD 10

Prompt	Response	Comment
	(GPUD) GPIUA	Group Pickup Denied Group Pickup Allowed Group Pickup is not allowed on telephones in group zero. Must have Directed Call Pickup (DCP) package 115.
	(HTD) HTA	Hunting Denied Hunting Allowed
	(LDTD) LDTA	Line Disconnect Tone Denied Line Disconnect Tone Allowed
	(LLCN) LLC1 LLC2 LLC3	Line Load Control off Line Load Control Class 1 Line Load Control Class 2 Line Load Control Class 3
	(LND) LNA	Last Number Redial Denied Last Number Redial Allowed Must have OPT = LRA in LD 15
	(LPD) LPA	Message Waiting Lamp Denied Message Waiting Lamp Allowed If a modem is connected to a port on the message waiting line card, that port should be defined as LPD. With LPA the modem may be damaged by the message waiting lamp voltage 150 V.
	(LPR) HPR	Low Priority station High Priority station High Priority will place this set or trunk at the top of the dial tone queue.
	(MBXD) MBXA	Multi-Party Operation (MPO) Blind Transfer Denied. When CLS = MBXD, blind transfers occur with mis-operation treatment. Multi-Party Operation (MPO) Blind Transfer Allowed. When CLS = MBXA, blind transfers occur without mis-operation treatment. To configure CLS = MBXA, CLS must first be defined as TSA or XFA. Multi-Party Operations (MPO) package 141 must be equipped to enter MBXD or MBXA.
	(MCRD) MCRA	Multiple Call Arrangement Denied Multiple Call Arrangement Allowed

Prompt	Response	Comment
(MCTD) MCTA	Malicious Call Trace signal Denied Malicious Call Trace signal Allowed	MCT is applied on a TN basis.
(MRD) MRA	Message Registration Denied Message Registration Allowed	
(MWD) MWA	Message Waiting Denied Message Waiting Allowed	
(NAMA) NAMD	Name display Allowed Name display Denied	
(OCBD) OCBA	Outgoing Call Barring Denied Outgoing Call Barring Allowed	Must have FFC and NFCR packages.
OPS ONS	Off-Premises Station (default if CDEN is DD) On-Premises Station (default for all others)	
(OVDD) OVDA	Override Denied Override Allowed	Must have Flexible Feature Codes (FFC) package 139
(PGND) PGNA	Deny PAGENET access Allow PAGENET access	PGND/A allowed if PAGENET package 307 is equipped.
(PUD) PUA	Call Pickup Denied Call Pickup Allowed	Default changes to PUA if Ringing Number Pickup Group (RNPG) is defined. Call Pickup is not allowed on telephones in group zero or RNPG = 0.
(RTDD) RTDA	Call Redirection by Time of day denied Call Redirection by Time of day allowed	If CLS = RTDD, AFD/AHNT/AEFD/AEHT will be removed, and ARTO will be reset to zero.
(SFD) SFA	Second Level CFNA Denied Second Level CFNA Allowed	In Release 15 and later, SFA only requires FNA Class of Service.

LD 10

Prompt	Response	Comment
	(SHL) LOL	Short line Class of Service Long line Class of Service (default if CLS = OPS) Enter ALC Loss Plan Class of Service to be used for determining the Loss Plan Classification for this unit. If neither SHL or LOL is specified for a NEW unit, then SHL will be set as the default.
	(SMSD) MSA	Standalone Mail Server Denied Standalone Mail Server Allowed
	(SPKD) SPKA	Speaker Denied Speaker Allowed Must have On-Hold on Loudspeaker (OHOL) package 196.
	(SWD) SWA	Station-to-Station Call Waiting Denied Station-to-Station Call Waiting Allowed Enhances Call Waiting Allowed. Must have CLS = CWA. Must also have CLS = HTD, because hunting takes precedence over Station-to-Station Call Waiting.
	(TENA) TEND	Tenant Service Allowed Tenant Service Denied Multi-Tenant must be configured in LD 93 before the default is TENA.
	(THFD) THFA	Centrex Trunk Switch Hook Flash on this set denied Centrex Trunk Switch Hook Flash on this set allowed
	TSA	Three-Party Service allowed TSA is mutually exclusive with ASCA and XFA. If TSA is requested and XFA is currently set, then XFA will be changed to XFD.
	(TVD) TVA	Trunk Verification from station Denied Trunk Verification from station Allowed
	(ULAD) ULAA	Set Based Administration User Access Denied Set Based Administration User Access Allowed
	(USMD) USMA	Meridian 911 position Denied Meridian 911 position Allowed Must have Meridian 911 (M911) package 224
	(USRD) USRA	User Selectable Call Redirection Denied User Selectable Call Redirection Allowed

Prompt	Response	Comment
	(WTA)	Warning Tone Allowed
	WTD	Warning Tone Denied
	(XFD)	Call Transfer Denied
	XFA	Call Transfer Allowed
	XFR	Call Transfer Restricted
		TSA is mutually exclusive with XFA. If TSA is requested and XFA is currently set, then XFA will be changed to XFD. The most recently entered CLS overwrites the prior CLS of the same category. Note that one can specify XFR instead of XFD.
	(XHD)	Exclusive Hold Denied
	XHA	Exclusive Hold Allowed
	(XRD)	Ring Again Denied
	XRA	Ring Again Allowed
		Must have CLS= XFA. RANA may be activated if OPT = RNA in LD 15. When OPT = RND in LD 15, all sets with CLS = XRA will be able to activate only Ring Again Busy.
CPND		Calling Party Name Display
	NEW	Add data block
	CHG	Change existing data block
	OUT	Remove existing data block
		Must have CPND data block defined in LD 95.
CPND_LANG		Calling Party Name Display Language
	(ROM)	Roman
	KAT	Katakana
		CPND_LANG applies when FTR = CPND. CPND_LANG appears only when Multi-Language I/O (MLIO) package 211 is equipped.
CUST	(0)	Customer number
DCLP	0-159	Dealer Conference Loop
		DCLP input defines the conference loop assigned to the unit. The loop should be in the same group as the unit.

LD 10

Prompt	Response	Comment
DELETE_VMB (YES) NO		Delete Voice Mailbox Remove the Voice Mailbox from the Meridian 1 and Meridian Mail Remove the Voice Mailbox from the Meridian 1 Prompted if REQ = OUT and TN has an associated Voice Mailbox. Allowed if the DN is either a single appearance or a multiple appearance DN on a single TN.
DES	d...d	ODAS Station Designator Enter a 1- 6 alphanumeric character representing an Office Data Administration System (ODAS) Station Designator
DIG	0-2045 0-99	Dial Intercom Group (DIG) number and Dial Intercom Member (DIM) numbers. The value entered for the member number cannot be equal to the SPRE code. In the case of double-digit values, the first digit cannot be the same as the SPRE code. For example, if SPRE = 1, the member number cannot be 10, 11...19. Single line telephones assigned as Dial Intercom sets can only make calls within their own dial intercom groups. No DN can be assigned to them. If any member in the group has a two digit member number, all members have a two digit number. The system enters leading zeros. Must have maximum number of Dial Intercom Groups (DGRP) defined in LD 15.
DISPLAY_FMT (FIRST, LAST) LAST, FIRST		Display Format for CPND name May be input as FIRST To view names as John Doe May be input as Last To view names as Doe John
DN	x...x yyy	Directory Number (x...x) and CLID entry (yyy) The DN can be up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. DN is not prompted if DIG is defined. Range for CLID entry is: [(0) - (value entered for SIZE prompt in LD 15 minus 1)]

Prompt	Response	Comment
		<p>If the new DN entered already exists, one of the following messages will be output when the TNB is updated:</p> <ul style="list-style-type: none"> • MIX (DN entered already appears on another set) • PVR (DN is a Private Line number) • HNT (DN exists and is defined as Hunting Allowed) • FNA (DN exists and has Forward No Answer) <p>Before the DN can be modified, the station DN must be removed from all Group Hunt lists in which it is a member.</p>
ECHG	(NO) YES	<p>Easy Change. Prompted when REQ = CHG.</p> <p>This allows change to any prompt in this program without toggling through all the prompts.</p>
FCAR	(NO) YES	<p>Forced Charge Account</p> <p>Must use Forced Charge Account</p> <p>Restrict from using Forced Charge Account</p> <p>Prompted if FCAF = YES in LD 15 and CLS = TLD, CUN or CTD. TLD is recommended.</p>
FTR		<p>Enter the feature name and related data.</p> <p>Precede feature mnemonic with X to remove it from the allowed features for the telephone. Prompted with Special Service for 2500 sets (SS25) package 18.</p>
	ACD x...x yyyy	<p>The ACD DN and the ACD position (POS ID)</p> <p>The ACD queue must be set in LD 23. ACD can be up to 4 digits; up to 7 digits with Directory Number Expansion (DNXP) package 150.</p> <p>An ACD entry is only allowed if you have already defined CLS = AGTA in the same pass through this overlay.</p>
	ADL nn x..x	<p>Auto Dial</p> <p>Auto Dial cannot be configured if Hot Line is defined.</p> <p>nn = number of digits, up to 31 maximum in Auto Dial DN</p> <p>x..x = Auto Dial DN</p> <p>Auto Dial is required for BNRA.</p> <p>Must have Flexible Feature Codes (FFC) package 139.</p>
	AEFD y...y	<p>Alternate External Flexible Call Forward DN, up to 13 digits. Remove by setting CLS = RTDD or CFTD. Where yyyy = Alternate Redirection DN.</p>

LD 10

Prompt	Response	Comment
AEHT y...y		Alternate External Hunt DN, up to 13 digits. Remove by setting CLS = RTDD or CFTD. Where yyyy = Alternate Redirection DN.
AFD y...y		Alternate Flexible Call Forward DN, up to 13 digits. Remove by setting CLS = RTDD. Where yyyy = Alternate Redirection DN.
AHNT y...y		Alternate Hunt DN, up to 13 digits. Remove by setting CLS = RTDD. Where yyyy = Alternate Redirection DN.
CFW nn x...x		<p>Call Forward all calls</p> <p>Valid entries are any integer in the range of (4)-31.</p> <p>Where: nn = maximum number of digits in the CFW DN; it must be large enough to hold the customer Reply DN.</p> <p>Where: x...x = Call Forward DN</p> <p>If the Enhanced System Access feature is configured, valid entries are 4, 8, 12, (16), 20, 24, 28, 31. Numbers between 4 and 31 are rounded up to the next valid number.</p> <p>If the Enhanced System Access feature is not configured , you may input any integer in the range of (4)-23.</p>
DCFW nn x...x		<p>Default Call Forward</p> <p>Where: nn = maximum number of digits in the DCFW DN.</p> <p>Valid entries for nn are: 4, 8, 12, 16, 20, 24, 28, 31.</p> <p>Where: x...x = Default Call Forward DN.</p>
EFD x...x		<p>External Flexible call forward DN (a Group Hunt pilot DN can be entered)</p> <p>This is the DN to which external no answer calls are routed when Class of Service is Call Forward by Call Type allowed (CLS = CFTA). Must also have CLS = FNA.</p>

Prompt	Response	Comment
		<p>EFD is only used if one of the following customer options are defined in LD 15:</p> <ul style="list-style-type: none"> • FNAD = FDN • FNAT = FDN • FNAL = FDN <p>Listed DNs, Departmental Listed DNs and prime DNs are accepted as valid input. EFD can be up to 13 digits.</p>
EHT x...x	External Hunt DN	<p>This is the DN to which external busy calls Hunt when Class of Service is Call Forward by Call Type allowed (CLS = CFTA). Must also have CLS = HTA.</p> <p>Listed DNs, Departmental Listed DNs and prime DNs are accepted as valid input. A Group Hunt pilot DN can be entered with up to:</p> <ul style="list-style-type: none"> • 4 digits without DNXp package 150 • 7 digits with DNXp package 150 • 13 digits for Network Call Redirection
FAXS x...x	Facsimile server and command sequence	<p>The command sequence includes the following:</p> <ul style="list-style-type: none"> • Wx = waiting time of 0 to 9 seconds • Cxxx = control command digits • Oxxxx = originating or designated fax DN • D = the called fax DN <p>For HiMail server, if the designated fax DN is 1234: FTR FAXS W6 O1234 C#10* D C## W4, or FTR FAXS W6 O1234 C#20* D C## W4</p> <p>For Phi-Net server, if the designated fax DN is 1234: FTR FAXS W4 C30 O1234 C*0 D C#</p> <p>The facsimile server TNs must have Digitone (DTN) Class of Service and cannot have FNA, CWA, or FBA Class of Service, or FTR CFW feature.</p> <p>Use the HUNT feature to define the DN of the next port on the facsimile server.</p>

LD 10

Prompt	Response	Comment
	FDN x...x	<p>Flexible Call Forward No Answer</p> <p>The DN cannot be an LDN</p> <p>A Group Hunt pilot DN can be entered of up to:</p> <ul style="list-style-type: none">• 4 digits without DNXP package 150• 7 digits with DNXP package 150• 13 digits for Network Call Redirection <p>FDN is used for internal calls, if CLS is CFTA and FNA.</p> <p>FDN is used for all calls if CLS is CFTD and FNA.</p> <p>FDN requires that CLS = MWA or FNA.</p> <p>FDN is only used if one or more of the following customer options are defined in LD 15:</p> <ul style="list-style-type: none">• FNAD = FDN• FNAT = FDN• FNAL = FDN
	HOT D nn x...x	<p>Direct entry for one way Enhanced Hot Line. Where:</p> <ul style="list-style-type: none">• nn = up to 31 digits maximum in Target DN• x...x = Terminating DN <p>CLS = EHTA and DIP or DTN.</p>
	HOT D nn x...x yyyy	<p>Direct entry for two way Enhanced Hot Line. Where:</p> <ul style="list-style-type: none">• nn = up to 31 digits maximum in Target DN• x...x = Terminating DN• yyyy = optional two way Hot Line DN. This DN can be up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. <p>CLS = EHTA and DIP or DTN.</p>
	HOT nn x..x	<p>Flexible Hot Line. Where: nn = up to 31 digits maximum in Target DN and x..x = Terminating DN.</p> <p>Flexible Hot Line requires that CLS = MNL.</p>

Prompt	Response	Comment
HOT L bbb	One way list entry for Enhanced Hot Line Where: bbb = list entry position from Hot Line list in LD 18. The Hot Line list NCOS overrides the set NCOS. Enhanced Hot Line requires CLS = EHTA, LLCN, PHTD and DIP or DTN. To remove Hot Line DN, change CLS EHTA to EHTD. Hot Line DNs can be programmed with * as operands only if OPAO is enabled.	
HOT L bbb x...x	Two way list entry for Enhanced Hot Line. Where: <ul style="list-style-type: none"> • bbb = list entry position • xxxx = optional two way Hot Line DN. This DN can be up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. Enhanced Hot Line requires CLS = EHTA, LLCN, PHTD and DIP or DTN. To remove Hot Line DN, change CLS EHTA to EHTD. Hot Line DNs can be programmed with * as operands only if OPAO is enabled.	
ICF x...x	Internal Call Forward and Forward DN length. Valid entries for x...x are: any integer in the range of (4)-31.	
ISP 1-(75)-255	Enable hook flash disconnect supervision with flash timer in 10 milliseconds units. If the numeric parameter is not entered and the saved value is null, it is defaulted to 75 (750 ms). Otherwise, it does not change.	
XISP	Disable hook flash disconnect supervision.	
OSP (1)	Enable battery reversal answer and disconnect supervision for outgoing calls with absolute and assumed answer indication.	
OSP 2	Enable battery reversal answer and disconnect supervision for outgoing calls with absolute answer indication only. If the numeric parameter is not entered and the saved value is null, it is defaulted to 1. Otherwise, it does not change.	
XOSP	Disable battery reversal answer and disconnect supervision	

LD 10

Prompt	Response	Comment
	PHD	Permanent Hold. Allowed with CLS = XFA.
	RDL nn	Stored Number Redial Where: nn = DN length 4, 8, 12, (16), 24, 28, 31. Numbers between 5 and 30 are rounded up to the next valid number. Allowed with CLS = XFA.
	SCC 0-8190	Speed Call Controller list number The speed call list must be defined in LD 18.
	SCU 0-8190	Speed Call User list number The speed call list must be defined in LD 18.
	SSU 0-4095	System Speed call User list number The speed call list must be defined in LD 18.
HUNT	x...x	Hunt DN of the next station in the Hunt chain A Group Hunt pilot DN can be entered of up to: <ul style="list-style-type: none">• 4 digits without DNXP package 150• 7 digits with DNXP package 150• 13 digits with Release 14 and later Precede with X to remove. With Call Forward and Hunt by Call Type, this is the Hunt DN for: <ul style="list-style-type: none">• internal calls if CLS = CFTA, or• all busy calls if CLS = CFTD A Control directory number (CDN) can be defined as a Hunt DN for both physical and phantom 500/2500 sets. When a CDN is configured in this way, a call which comes to a busy DN can be Hunting or Call Forward Busy to a CDN.
IAPG	(0)-15	Meridian Link Unsolicited Status Message (USM) group Assign Associate (AST) telephones to an USM group defined in LD 15. These groups determine which status messages are sent to the host computer for an AST telephone. The default Group 0 sends no messages, while Group 1 sends all messages.

Prompt	Response	Comment
ITEM	aaaa yy	Change any prompt Respond with the desired program mnemonic (aaaa) and its new value (yyy). ITEM is reprompted until only a carriage return <cr> is entered.
KEEP_MSGS	(NO) YES	Keep Messages Preserve Meridian Mail messages and current password
LDN	(NO) 0-5	Departmental Listed Directory Number is not activated for this set Departmental Listed Directory Number (LDN) as defined in LD 15.
LNRS	4-(16)-31	Last Number Redial Size Enter the maximum number of digits that can be stored. Valid entries are 4, 8, 12, (16), 24, 28, 31. Invalid entries are rounded up to the next valid entry. Prompted if CLS = LNA.
MARP	(NO) YES	Multiple Appearance Redirection Prime Use TN as the Multiple Appearance DN Redirection Prime. The MARP prompt, or MARP information, is given only when assigning a DN.
MAUT	(NO) YES	Modify assigned authorization codes for this telephone Prompted with Station Specific Authorization Codes (SSAU) package 229 and CLS = AUTR.
MLWU_LANG		Language choice for Automatic Wake Up service. Prompted with Multi-Language Wake Up (MLWU) package 206. This entry defines the language presented for the Automatic Wake Up recorded announcement (RAN) for language 0 through 5 as follows:
	(0)	See RAN1/RAN2 in LD 15
	1	See LA11/LA12 in LD 15
	2	See LA21/LA22 in LD 15
	3	See LA31/LA32 in LD 15
	4	See LA41/LA42 in LD 15
	5	See LA51/LA52 in LD 15
	X	Remove entry

LD 10

Prompt	Response	Comment
NAME	aaaa,bbbb	Calling Party Name Display Name First name comma Last name. For example, John Doe is entered as John,Doe. The first single comma is treated as the delimiter. Up to 27 characters (including the comma) may be input. The last occurrence of the first comma group serves as the name delimiter and is translated into a space between the first and last name.
	aaaa	When the delimiter is omitted, the input is stored as a first name.
	aaaa,	When the delimiter follows the input, the input is stored as the first name.
	,bbbb	When the delimiter precedes the input, the input is stored as a last name.
NCOS	(0)-99	Network Class of Service group number.
OHID	(0)-9	Off-Hook Alarm Security DN index Enter the index number 0- 9 of the DN defined by LD 15 prompt ODNx. When a dial tone or interdigit timeout occurs on a set with Alarm Security Allowed (ASCA) Class of Service, the set is intercepted to a predefined DN.
PLEV	0-(2)-7	Priority Level Where: 2 = set can override sets of level 1 and 2, and can be overridden by sets of level 2 - 7. Prompted with Priority Override/ Forced Camp-On (POVR) package 186.
POS	xxxx	ACD position ID. Prompted when SFMT = AUTO, TNDN, TN or DN.
PRI	(1)-32	Priority level for ACD Agent. Valid range. The agent with the lowest number assigned has the highest priority and is the first ACD agent to receive calls. (Priority 1 has the highest priority level) PRI is prompted if Automatic Call Distribution, Priority Agent package 116 is equipped and CLS = AGTA.
RCO	(0)-2	Ringin cycle option for Call Forward No Answer Prompted when CLS = FNA or MWA (or both).

Prompt	Response	Comment
REQ:		Request A colon following a prompt indicates enhanced processing. Enhanced processing allows a user to either view a list of possible responses or input an abbreviated response.
	?	To get a list of valid responses
	CHG	Change existing data block
	CPY n	Copy or create 1 to 32 new station data block or blocks automatically from the specified station data block.
	END	Exit Overlay program
	MOV	Move data block from one TN to another
	NEW X	Add new data block or blocks Follow NEW with a value of 1- 255 to create that number of consecutive telephone data block or blocks.
	OUT X	Remove data block or blocks Follow OUT with a value of 1- 255 to remove that number of consecutive telephones.
This load is linked with LDs 11, 20 and 32. You may enter one of the responses listed below at the REQ: prompt. Then go to that Load and follow its Prompts and Responses sequence.		
LD 32: CDSP CMIN CONV CPWD DISC DISI DISL DISN DISS DISU DSCT DSPS DSXP ENCT ENLC ENLG ENLL ENLN ENLS ENLU ENPS ENXP IDC IDCS IDU LBSY LDIS LIDL LMNT PBXT SDLC STAT SUPL TRK XNTT XPCT XPEC		
LD 20: LTN LUC LUDU LUU LUVU PRT		
LD 11: CHG CPY MOV NEW OUT		
RNPG	(0)-4095	Ringing Number Pickup Group To remove a telephone from a group, enter 0 in response to the RNPG prompt.

LD 10

Prompt	Response	Comment
SCI	(0)-7	Station Category Indication priority level The Station Category number 1 to 7 must be defined as attendant console Incoming Call Indicator in LD 15 prompt ICI = CA1 - CA7.
SCPW	xxxx	Station Control Password The Station Control password is used for the Electronic Lock and Remote Call Forward features. This entry must equal the Station Control Password Length (SCPL) as defined in LD 15. Not prompted if SCPL = 0. See Flexible Feature Codes in the X11 features and services NTP.
SECOND_DN	x...x	Second Directory Number sharing the Voice Mailbox. This number can be up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150.
	X	Enter the letter "X" to delete the second directory number
SFMT		Select Format for the copy command The DN may be up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. The POS prompt appears if CLS = AGTA.
	TNDN	Manual selection of TNs, DNs and ACD position IDs for ACD telephones. TN, DN and POS are prompted -n- times as defined by the CPY command.
	TN	The new DNs and ACD position IDs for ACD telephones are provided by the system. You are prompted for the starting DN, ACD position ID and each TN. TN is prompted n times as defined in the CPY command.
	DN	The new TNs are provided by the system. You are prompted for the starting TN and each DN and ACD position ID for ACD telephones. DN and/or POS are prompted n times as defined in the CPY command.
	AUTO	The new TNs, DNs and ACD position ID for ACD telephones are provided by the system. You are prompted for the starting TN, DN and ACD position ID.
SGRP	(0)-999	Scheduled Access Restriction Group Number Prompted with Schedule Access Restrictions (SAR) package 162. The group must be defined in LD 88.

Prompt	Response	Comment
SPID	x...x	<p>Supervisor Position ID</p> <p>This input assigns an agent to a supervisor when agent lamps are not assigned on the supervisor telephone.</p> <p>This number can be up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. However, ISDN applications can accept up to 13 digits.</p> <p>Prompted for ACD packages B, C and D when CLS = AGTA.</p>
SPWD	xxxx	<p>Secure Data Password</p> <p>Prompted if the password is defined in LD 15. If the password is not entered, the security codes will not print when PRT is requested.</p>
TEN	1-51	<p>Multi-Tenant Number</p> <p>Enter the Multi-Tenant number for this telephone. Prompted with Multiple-Tenant Service (TENS) package 86 and Tenant Service enabled.</p>
TGAR	0-(1)-31	Trunk Group Access Restriction. The default of (1) automatically blocks direct access.
THIRD_DN	x...x	Third DN sharing the Voice Mailbox
	X	<p>Third Directory Number. This number can be up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150.</p> <p>Deletes the third directory number</p>
TN	c u	<p>Terminal Number</p> <p>TN appears when REQ = NEW, CHG, MOV or OUT. The TN defines the location of the telephone set.</p> <p>The ranges for c u are: c= 1,3,5,7,8,9 and u = 0-15 or c = 2,4,6,12,14,16 and u = 0-3</p>
TOTN	c u	<p>To Terminal Number. Prompted when REQ = MOV.</p> <p>General TN format</p>

LD 10

Prompt	Response	Comment
TYPE:		Type of data block. A colon following a prompt indicates enhanced processing. Enhanced processing allows a user to either view a list of possible responses or input an abbreviated response. Note: LD 10 is linked with LDs 11, 20 and 32. You may enter any of the response options listed for the TYPE prompt in LDs 11 and 20 or any of the commands listed in LD 32. See “Overlay programs 10, 11, 20 and 32 are linked thus eliminating the need to exit one Overlay and enter another. Once one of the above Overlays has been loaded it is possible to add, print and get the status of a set without having to exit one Overlay and load another.” on page 51 for further information.
	?	To get a list of valid responses
	500	500/2500 telephone set data block
	CARDSLT	Single- line telephone line card
	OOSLT	Out-of-Service Single Line Terminal unit
VMB	NEW	Add Voice Mailbox
	CHG	Change Voice Mailbox
	OUT	Remove Voice Mailbox
		Prompted with Voice Mailbox Administration (VMBA) package 246.
VMB_COS		
	0-127	Voice Mailbox Class of Service
WRLS	(NO) YES	TN corresponds to a portable personal telephone. Must have Meridian 1 Companion Option (MCMO) package 240.
XLST	(0)-254	Pretranslation group If the user wants to use a 16-button DTMF ABCD set as a call forward destination station to deactivate the call forward all calls function, then XLST must be set equal to the table number defined in LD 18.
XPLN	xx	Expected name length (this value should be set to a sufficient length for current and future names for that DN) When REQ=NEW, the XPLN prompt defines the maximum name length for that particular DN or DIG. The XPLN for a DN cannot be changed without deleting that name entry. XPLN must range from the actual length of the name string to MXLN, or defaults to DFLN.

LD 11—Meridian Digital Telephone Administration

This Overlay program allows data blocks for SL-1, Displayphone 1200, M1000 series, M2000 series, and M3000 digital telephones to be created or modified.

When the Overlay is loaded the available system memory and disk records are output in a header as follows:

```
SL1000
MARF information
MEM AVAIL: (U/P): xxxxxx USED: xxxxx TOT: xxxxxxxx
DISK RECS AVAIL: xxx
```

Incremental Software Management (ISM) also provides a header to indicate system configuration limits and appears as follows:

```
TNS AVAIL: xxxxx USED: xxxxx TOT: xxxxx
ACD AGENTS AVAIL: xxx USED: xxx TOT: xxx
AST SET AVAIL: xxxxx USED: xxxxx TOT: xxxxx
```

The Group Hunt/DN Access to SCL (PLDN) package 120 allows an asterisk (*) or double asterisk (**) as a valid input to a number of prompts. Usually the asterisk will be part of a dialed number. Without this package, for example, inputting one asterisk will cause the system to reissue the last prompt, and two asterisks will cause a restart of the Overlay at REQ.

Overlay programs 10, 11, 20 and 32 are linked, thus eliminating the need to exit one Overlay and enter another. Once one of the above Overlays has been loaded it is possible to add, print and get the status of a set without having to exit one Overlay and load another.

The input processing has also been enhanced so that prompts ending with a colon (:) allow the user to enter either:

- 1 a question mark (?) followed by a carriage return (<cr>) to get a list of valid responses to that prompt, or
 - 2 an abbreviated response, the system then responds with the nearest match. If there is more than one possible match the system responds with SCH0099 and the input followed by a question mark and a list of possible responses. The user can then enter the valid response.
-

Prompts and responses

Table of Contents

Section	Page
Prompts and responses	page 83
<i>Prompts and responses by task :</i>	
Add a voice telephone	page 87
Add a data telephone	page 90
Copy a telephone	page 93
Easy change	page 94
Move a telephone	page 94
Remove a telephone	page 94

Prompts and responses

Prompt	Response	Comment
REQ:	a...a	Request
TYPE:	a...a	Type of data block (TYPE responses begin on page 131)
CFTN	c u	Copy From Terminal Number (c u ranges are defined on page 130)
SFMT	a...a	Select Format (a...a = TNDN, TN, DN, or AUTO)
TN	c u	Terminal Number (c u ranges are defined on page 130)
DELETE_VMB	(YES) NO	Delete Voice Mailbox
ECHG	(NO) YES	Easy Change
- ITEM	aaaa yyy	Item (aaaa = Program mnemonic ; yyy = its new value)
TOTN	c u	To Terminal Number (c u ranges are defined on page 130)
CDEN	8D	Card Density (aa = 8D)
DES	d...d	Office Data Administration System Station Designator
CUST	0	Customer number
KLS	1-7	Number of Key/Lamp Strips

AOM	0-2	Number of Add-on Modules
FDN	x...x	Flexible CFNA DN
TGAR	0-(1)-31	Trunk Group Access Restriction
LDN	aaa	Departmental Listed Directory Number (aaa = (NO), 0-3, or 0-5)
NCOS	(0)-99	Network Class of Service group
RNPG	(0)-4095	Ringing Number Pickup Group
SSU	0-4095	System Speed call list number
XLST	(0)-7	Pretranslation group associated with this station
SCPW	xxxx	Station Control Password
SGRP	(0)-999	Scheduled Access Restriction Group number
CLS	a...a	Class of Service (CLS responses begin on page 97)
ARTO	(0)-3	Alternate Redirection Time Option for call redirection
AFD	x...x	Alternate Flexible Call Forward DN
AHNT	x...x	Alternate Hunt DN
AEFD	x...x	Alternate External Flexible Call Forward DN
AEHT	x...x	Alternate External Hunt DN
MAUT	(NO) YES	Modify authorization codes for this telephone
- SPWD	xxxx	Secure Data Password
- AUTH	n xxxx	Authorization code
RCO	(0)-2	Ringing Cycle Option for Call Forward No Answer
EFD	x...x	Flexible CFNA DN for External calls
HUNT	x...x	Hunt DN of next station in hunt chain
EHT	x...x	External Hunt DN
LHK	(0)-69	Last Hunt Key number limit
LNRS	4-(16)-31	Last Number Redial Size
TEN	1-511	Tenant number
OHID	(0)-9	Off-Hook Alarm Security DN index for off-hook or interdigit timeout.
FSVC	(0)-9	Forced Out-of-Service Off-Hook Alarm Security DN index
SCI	(0)-7	Station Category Indication priority level
DTYP	aaa	Data Station Type
- TOV	(0)-3	Timeout Value for the data port
- DTAO	a...a	Data Option (a...a = (MPDA) or MCA)
- PSEL	a...a	Protocol Selection (a...a = (DMDM) or TLNK)
- OPE	(NO) YES	Change data port Operating Parameters

- PSDS	(NO) YES	Public Switched Data Service option
- TRAN	a...a	Port Transmission type (a...a = (ASYN) or SYN)
- PAR	a...a	Parity (a...a = (SPACE), EVEN, ODD, or MARK)
- DTR	(OFF) ON	Data Terminal Ready settings
- DUP	aaaa	Duplex (aaaa = (FULL) or HALF)
- HOT	(OFF) ON	Hotline
- AUT	(ON) OFF	Auto-answer
- AUTOB	(ON) OFF	Auto Baud rate
- BAUD	0-(7)-8	Data rate in bps for the data port
- DCD	(ON) OFF	Dynamic Carrier Detect
- PRM	(ON) OFF	Prompt for terminal or host mode
- VLL	(OFF) ON	Virtual Leased Line
- MOD	(NO) YES	Mode
- INT	(OFF) ON	Meridian 1/SL-100 Interworking
- CLK	(OFF) ON	Clock
- DEM	aaa	Data Equipment Mode (aaa = (DCE) or DTE)
- DLNG	aaa	Language preference for DAC prompts (aaa = (ENG) or FRN)
- KBD	(ON) OFF	Keyboard Dialing
- V25	(NO) YES	V.25 bis option (synchronous mode only)
- HDLC	(NO) YES	High Level Data Link Control
- RTS	(ON) OFF	Request To Send (applies only to asynchronous mode)
- WIRE	(OFF) ON	Wire test
- PBDO	(OFF) ON	Port Busy when DTR off
LPK	(0)-69	Line Preference Key
PLEV	0-(2)-7	Priority Level
FCAR	(NO) YES	Forced Charge Account Restricted
LTN	1-253 0-15	Logical TN and AUX link number
SPID	x...x	ACD Supervisor Position ID DN
AST	xx yy	Associate Set Assignment for Meridian Link applications
IAPG	(0)-15	Meridian Link Unsolicited Status Message (USM) group
ITNA	(NO) YES	Idle TN for the Third Party Application
DGRP	(1)-5	Device Group
PRI	(1)-32	Priority level for ACD agent
LANG	a	Language choice for Automatic Wakeup (AWU) calls (a = (0)-5 or X)

LD 11

MLWU_LANG	a	Language choice for Automatic Wakeup (AWU) calls (a = (0)-5 or X)
DTMK	x...x	Data Mode Key number for a dynamic voice/data TN
DNDR	(0)-120	Directory Number Delayed Ringing in seconds
KEY	xx aaa yyyy	Telephone function key assignments (KEY responses begin on page 111)
- MARP	(NO) YES	Multiple Appearance Redirection Prime
- CPND	aaa	Calling Party Name Display
- - CPND_LANG	aaa	Calling Party Name Display Language (aaa = (ROM) or KAT)
- - NAME	aaaa,bbbb	Calling Party Name Display name
- - XPLN	xx	Expected Name Length
- - DISPLAY_FMT	aaaa,bbbb	Display Format for CPND name
- VMB	aaa	Voice Mailbox
- - VMB_COS	0-127	Voice Mailbox Class of Service
- - SECOND_DN	x...x	Second DN sharing the voice mailbox
- - THIRD_DN	x...x	Third DN sharing the voice mailbox
- - KEEP_MSGS	(NO) YES	Preserve Meridian Mail messages and current password

Prompts and responses by task

Add a voice telephone

Prompt	Response	Comment
REQ:	NEW	Request = NEW
TYPE:	a...a	Type of data block (TYPE responses begin on page 131)
TN	c u	Terminal Number (c u ranges are defined on page 130)
CDEN	aa	Card Density (aa = SD, DD, 4D, or 8D)
DES	d...d	Office Data Administration System Station Designator
CUST	0	Customer number
KLS	1-7	Number of Key/Lamp Strips
AOM	0-2	Number of Add-on Modules
FDN	x...x	Flexible CFNA DN
TGAR	0-(1)-31	Trunk Group Access Restriction
LDN	aaa	Departmental Listed Directory Number (aaa = (NO), 0-3, or 0-5)
NCOS	(0)-99	Network Class of Service group
RNPG	(0)-4095	Ringing Number Pickup Group
SSU	0-4095	System Speed Call list number
XLST	(0)-7	Pretranslation group associated with this station
SCPW	xxxx	Station Control Password
SGRP	(0)-999	Scheduled Access Restriction Group number
CLS	aaaa	Class of Service (CLS responses begin on page 97)
ARTO	(0)-3	Alternate Redirection Time Option for call redirection
AFD	x...x	Alternate Flexible Call Forward DN
AHNT	x...x	Alternate Hunt DN
AEFD	x...x	Alternate External Flexible Call Forward DN
AEHT	x...x	Alternate External Hunt DN
MAUT	(NO) YES	Modify authorization codes for this telephone

- SPWD	xxxx	Secure Data Password
- AUTH	n xxxx	Authorization code
RCO	(0)-2	Ringing Cycle Option for Call Forward No Answer
EFD	x...x	Flexible CFNA DN for External calls
HUNT	x...x	Hunt DN of next station in hunt chain
EHT	x...x	External Hunt DN
LHK	(0)-69	Last Hunt Key number limit
LNRS	4-(16)-31	Last Number Redial Size
TEN	1-511	Tenant number
OHID	(0)-9	Off-Hook Alarm Security DN index for off-hook or interdigit timeout.
FSVC	(0)-9	Forced Out-of-Service Off-Hook Alarm Security DN index
SCI	(0)-7	Station Category Indication priority level
LPK	(0)-69	Line Preference Key
PLEV	0-(2)-7	Priority Level
FCAR	(NO) YES	Forced Charge Account Restricted
LTN	1-253 0-15	Logical TN and AUX link number
SPID	x...x	ACD Supervisor Position ID DN
AST	xx yy	Associate Set Assignment for Meridian Link applications
IAPG	(0)-15	Meridian Link Unsolicited Status Message (USM) group
ITNA	(NO) YES	Idle TN for the Third Party Application
DGRP	(1)-5	Device Group
PRI	(1)-32	Priority level for ACD agent
LANG	(0)-5 X	Language choice for Automatic Wake Up (AWU) calls
MLWU_LANG	a	Language choice for Automatic Wakeup (AWU) calls (a = (0)-5 or X)
DTMK	x...x	Data Mode Key number for a dynamic voice/data TN
DNDR	(0)-120	Directory Number Delayed Ringing (in seconds)
KEY	xx aaa yyyy	Telephone function key assignments (KEY responses begin on page 111)
- MARP	(NO) YES	Multiple Appearance Redirection Prime
- CPND	aaa	Calling Party Name Display (aaa = NEW, CHG or OUT)

- - CPND_LANG	aaa	Calling Party Name Display Language (aaa = (ROM) or KAT)
- - NAME	aaaa,bbbb	Calling Party Name Display name
- - XPLN	xx	Expected Name Length
- - DISPLAY_FMT		
	aaaa,bbbb	Display Format for CPND name
- VMB	aaa	Voice Mailbox
- - VMB_COS	0-127	Voice Mailbox Class of Service
- - SECOND_DN	x...x	Second DN sharing the Voice Mailbox
- - THIRD_DN	x...x	Third DN sharing the Voice Mailbox
- - KEEP_MSGS	(NO) YES	Preserve Meridian Mail Messages and current password

Add a data telephone

The following prompts apply to M2006, M2008, M2216, M2616 data ports (MPDA), DAC card units and Meridian Communications Adapter (MCA) only:

All operating parameter information is stored in the MPDA. If the hardware does not exist, the parameter information is lost. The hardware must be connected before configuring the operating parameters in this program. In the event that the parameters are lost, it is possible to enter the data through the data adapter. It is not necessary to re-enter the program.

Prompt	Response	Comment
REQ:	NEW	Request = NEW
TYPE:	a...a	Type of data block (TYPE responses begin on page 131)
TN	c u	Terminal Number (c u ranges are defined on page 130)
CDEN	8D	Card Density (aa = 8D)
DES	d...d	Office Data Administration System Station Designator
CUST	0	Customer number
KLS	1-7	Number of Key/Lamp Strips
AOM	0-2	Number of Add-on Modules
FDN	x...x	Flexible CFNA DN
TGAR	0-(1)-31	Trunk Group Access Restriction
LDN	aaa	Departmental Listed Directory Number (aaa = (NO), 0-3, or 0-5)
NCOS	(0)-99	Network Class of Service group
RNPG	(0)-4095	Ringing Number Pickup Group
SSU	0-4095	System Speed call list number
XLST	(0)-7	Pretranslation group associated with this station
SCPW	xxxx	Station Control Password
SGRP	(0)-999	Scheduled Access Restriction Group number
CLS	aaaa	Class of Service (CLS responses begin on page 97)
ARTO	(0)-3	Alternate Redirection Time Option for call redirection
AFD	x...x	Alternate Flexible Call Forward DN
AHNT	x...x	Alternate Hunt DN
AEFD	x...x	Alternate External Flexible Call Forward DN
AEHT	x...x	Alternate External Hunt DN

MAUT	(NO) YES	Modify authorization codes for this telephone
- SPWD	xxxx	Secure Data Password
- AUTH	n xxxx	Authorization code
RCO	(0)-2	Ring cycle option for Call Forward No Answer
DTYP	aaa	Data station Type
TOV	(0)-3	Timeout Value for the Data port
DTAO	a...a	Data Option (a...a = (MPDA) or MCA)
PSEL	a...a	Protocol Selection (a...a = (DMDM) or TLNK)
OPE	(NO) YES	Change data port Operating Parameters
- PSDS	(NO) YES	Public Switched Data Service option
- TRAN	a...a	Port Transmission type (a...a = (ASYN) or SYN)
- PAR	a...a	Parity (a...a = (SPACE), EVEN, ODD, or MARK)
- DTR	(OFF) ON	Data Terminal Ready settings
- DUP	aaaa	Duplex (aaaa = (FULL) or HALF)
- HOT	(OFF) ON	Hotline
- AUT	(ON) OFF	Auto Answer
- AUTOB	(ON) OFF	Auto Baud rate
- BAUD	0-(7)-8	Enter the data rate in bps for the data port
- DCD	(ON) OFF	Dynamic Carrier Detect
- PRM	(ON) OFF	Prompt for terminal or host mode
- VLL	(OFF) ON	Virtual Leased Line
- MOD	(NO) YES	Mode
- INT	(OFF) ON	Meridian 1/SL-100 Interworking
- CLK	(OFF) ON	Clock
- DEM	aaa	Data Equipment Mode (aaa = (DCE) or DTE)
- DLNG	aaa	Language preference for DAC prompts (aaa = (ENG) or FRN)
- KBD	(ON) OFF	Keyboard Dialing
- V25	(NO) YES	V.25 bis option, synchronous mode only
- HDLC	(NO) YES	High Level Data Link Control
- RTS	(ON) OFF	Request To Send (applies to asynchronous mode only)
WIRE	(OFF) ON	Wire test
PBDO	(OFF) ON	Port Busy when DTR off
EFD	x...x	Flexible CFNA DN for External calls
HUNT	x...x	Hunt DN of next station in hunt chain
EHT	x...x	External Hunt DN
LHK	(0)-69	Last Hunt Key number limit

LD 11

LNRS	4-(16)-31	Last Number Redial Size
TEN	1-511	Tenant number
OHID	(0)-9	Off-Hook Alarm Security DN index for off-hook or interdigit timeout.
FSVC	(0)-9	Forced Out of Service Off-Hook Alarm Security DN index
SCI	(0)-7	Station Category Indication priority level
LPK	(0)-69	Line Preference Key
PLEV	0-(2)-7	Priority Level
FCAR	(NO) YES	Forced Charge Account Restricted
LTN	1-253 0-15	Logical TN and AUX link number
SPID	x...x	ACD Supervisor Position ID DN
AST	xx yy	Associate Set Assignment for Meridian Link applications
IAPG	(0)-15	Meridian Link Unsolicited Status Message (USM) group
ITNA	(NO) YES	Idle TN for the Third Party Application
DGRP	(1)-5	Device Group
PRI	(1)-32	Priority level for ACD agent
LANG	(0)-5 X	Language choice for Automatic Wake Up (AWU) calls
MLWU_LANG	aaaa,bbbb	Language choice for Automatic Wake Up (AWU) calls
DTMK	x...x	Data Mode Key number for a dynamic voice/data TN
DNDR	(0)-120	Directory Number Delayed Ringing (in seconds)
KEY	xx aaa yyyy	Telephone function key assignments (KEY responses begin on page 111)
- MARP	(NO) YES	Multiple Appearance Redirection Prime
- CPND	aaa	Calling Party Name Display
- - CPND_LANG	aaa	Calling Party Name Display Language
- - NAME	aaaa,bbbb	Calling Party Name Display name
- - XPLN	xx	Expected NameLength
- - DISPLAY_FMT	aaa	Display Format for CPND name
- VMB	aaa	Voice Mailbox
- - VMB_COS	0-127	Voice Mailbox Class of Service
- - SECOND_DN	x...x	Second DN sharing the Voice Mailbox
- - THIRD_DN	x...x	Third DN sharing the Voice Mailbox
- - KEEP_MSGS	(NO) YES	Preserve Meridian Mail Messages and current password

Copy a telephone

ACD supervisory telephones cannot be copied. Associate set (AST) assignments are not copied to the new telephones.

Prompt	Response	Comment
REQ:	CPY n	Request = CPY n
TYPE:	a...a	Type of data block (TYPE responses begin on page 131)
CFTN	c u	Copy From Terminal Number (c u ranges are defined on page 130)
SFMT	aaaa	Select Format. You may respond to SFMT with: AUTO, TNDN, TN or DN. Subprompts follow each of these responses as follows:
	AUTO	The system provides the new DNs or position IDs (for ACD telephones) and TNs by automatically selecting consecutive unused DNs or ACD position IDs and TNs.
- TN	c u	TN of new set (c u ranges are defined on page 130)
- DN	xxxx	DN of new set
- POS	xxxx	ACD position ID of new set
	TNDN	Manual selection of DNs or ACD position IDs and TNs. You are prompted for the DN or ACD position ID and TN of each new telephone.
- TN	c u	TN of new set (c u ranges are defined on page 130)
- DN	xxxx	DN of new set
- POS	xxxx	ACD Position ID of new set
	TN	The new DNs or ACD Position IDs are provided by the system. You are prompted for the starting DN or ACD Position ID and each TN. TN is prompted -n- times as defined in the CPY command.
- TN	c u	TN of new set (c u ranges are defined on page 130)
- DN	xxxx	DN of new set
- POS	xxxx	ACD Position ID of new set
	DN	The new TNs are provided by the system. You are prompted for the starting TN and each DN or ACD Position ID.
- TN	c u	TN of new set (c u ranges are defined on page 130)
- DN	xxxx	DN of new set
- POS	xxxx	ACD Position ID of new set

Easy change

Prompt	Response	Comment
REQ:	CHG	Request = CHG
TYPE:	a...a	Type of data block (TYPE responses begin on page 131)
TN	c u	Terminal Number (c u ranges are defined on page 130)
ECHG	YES	Easy Change
ITEM	aaaa bbbb	Item (aaaa = Program mnemonic ; yyy = its new value)

Move a telephone

If moving a voice unit with an associated data unit , the data unit must also be moved. On NT8D02 Digital Line Card, both voice and data TNs can be moved by entering MOV PAIR in response to the REQ prompt.

Prompt	Response	Comment
REQ:	a...a	Request = MOVE or MOV PAIR
TYPE:	a...a	Type of data block (TYPE responses begin on page 131)
TN	c u	Terminal Number (c u ranges are defined on page 130)
TOTN	c u	To Terminal Number

Remove a telephone

Before removing an ACD agent telephone, first remove the associated AGT key on the supervisor's telephone.

Prompt	Response	Comment
REQ:	OUT	Request = OUT
TYPE:	a...a	Type of data block (TYPE responses begin on page 131)
TN	c u	Terminal Number (c u ranges are defined on page 130)

Alphabetical list of prompts

Prompt	Response	Comment
AEFD	x...x	Alternate External Flexible Call Forward DN. Remove by setting CLS = RTDD or CFTD. Alternate Redirection DN (up to 13 digits)
AEHT	x...x	Alternate External Hunt DN. Remove by setting CLS = RTDD or CFTD. Alternate Redirection DN (up to 13 digits)
AOM	0-2	Number of Add-on Modules. AOM appears if TYPE = M2216 and M2616.
AFD	x...x	Alternate Flexible Call Forward DN. Remove by setting CLS = RTDD. Alternate Redirection DN (up to 13 digits)
AHNT	x...x	Alternate Hunt DN. Remove by setting CLS = RTDD. Alternate Redirection DN (up to 13 digits)
ARTO	(0)-3	Alternate Redirection Time Option for call redirection, defined in the customer data block. ARTO is prompted if CLS = RTDA.
AST	xx yy	Associate Set Assignment for Meridian Link applications A maximum of two DN keys, xx and yy, can be controlled by the host computer. Precede with X to delete.
AUT	(ON) OFF	Enable Auto-Answer Do not enable Auto-Answer
AUTB	(ON) OFF	Auto Baud rate enabled Auto Baud rate disabled AUTB is prompted if TYPE = R232 or R422 and if HOT = OFF.
AUTH	n xxxx	Authorization code. Where: <ul style="list-style-type: none"> • n = the number of the assigned authorization code (1-6) • xxxx = assigned authorization code (Any authorization code assigned in LD 88 is valid). AUTH appears when CLS = Authorization Code Required (AUTR).
BAUD	0-(7)-8	Baud rate Enter data rate in bps for data port on M2006, M2008, M2216 and M2616 telephones and Data Access Card.

LD 11

Prompt	Response	Comment
		<p>The following values apply to:</p> <ul style="list-style-type: none">• MPDA-1• MCA with DTAO = MPDA and TRAN = ASYN• MCA with DTAO = MCA• TYPE = MCU and TRAN = ASYN <p>Where: 0 = 110, 1 = 150, 2 = 300, 3 = 600, 4 = 1200, 5 = 2400, 6 = 4800, (7) = 9600, and 8 = 19,200</p>
0-(11)-12		<p>The following values apply to:</p> <ul style="list-style-type: none">• MCA with DTAO = MPDA, with MCA hardware• TRAN = SYN, MCA with TRAN = SYN• MCA with DTAO = MCA <p>Where: 0 = 1200, 1 = 2400, 2 = 3600, 3 = 4800, 4 = 7200, 5 = 9600, 6 = 14,400, 7 = 19,200, 8 = 38,400, 9 = 40,800, 10 = 48,000, (11) = 56000, and 12 = 64,000.</p> <p>BAUD is only prompted if AUTOB (Auto Baud Rate) = OFF.</p>
CDEN	SD DD 4D 8D	<p>Single Card Density Double Card Density Quadruple Card Density Octal Card Density</p> <p>CDEN defaults to the density of the network loop. CDEN is not prompted for superloops.</p>
CFTN	c u	<p>Copy From Terminal Number General TN format</p> <p>For Meridian: c u = card, unit</p> <p>Use this TN as a template for new sets. ACD supervisory sets cannot be copied. Associate set (AST) assignments are not copied to the new sets.</p> <p>Phantom TNs, the system checks to be sure that TNs are not moved or copied from phantom TNs to non-Phantom TNs or visa versa.</p> <p>CFTN appears if REQ = CPY.</p>
CLK	(OFF) ON	<p>Clock off Clock on</p>

Prompt	Response	Comment
CLS		Class of Service options
		The following CLS assignments determine the calling options and features available to the telephone. Defaults are shown in parentheses. Enter each non-default option required, separated by a space.
		Access Restrictions :
(CTD)		Conditionally Toll Denied
CUN		Conditionally Unrestricted
FR1		Fully Restricted class 1
FR2		Fully Restricted class 2
FRE		Fully Restricted
SRE		Semi-Restricted
TLD		Toll Denied
UNR		Unrestricted
(AAD)		Automatic Answerback Denied
AAA		Automatic Answerback Allowed
		Automatic Answerback can be used on M2112, M2317, M2616, M3000 and SL-1 telephones with handsfree capability. A special hardware kit is required for SL-1 sets and Companion 4 speakerphones.
		Automatic Answerback must have CLS = HFA for M2616 telephones. CLS AAA or AAK keys are not allowed for M2317 TNs.
(ABDD)		Abandoned call record and time to answer Denied
ABDA		Abandoned call record and time to answer Allowed
		Digit Display
ADD		Automatic Digit Display, default for M2008, M2216, M2317, M2616, M3000
DDS		Delay Display, display activates after call is answered
NDD		No Digit Display, default for SL-1, M2006, M2009, M2112, M2018
TDD		Touchphone Digit Display with Enhanced Automatic Digit Display, TDD class of service is applicable to all Meridian 1 proprietary sets except for the M2016.
(AGN)		ACD Agent
SPV		ACD Supervisor
(ARHD)		Audible Reminder of Held Call Denied
ARHA		Audible Reminder of Held Call Allowed

LD 11

Prompt	Response	Comment
(ASCD)	Alarm Security Denied	
ASCA	Alarm Security Allowed	
(AUTU)	Unrestricted Authorization code Class of Service	
AUTD	Denied Authorization code Class of Service	
AUTR	Restricted Authorization code Class of Service	
		When the CLS is changed from AUTR to AUTU or AUTD, all previous telephone authorization code information is removed. This Class of Service is valid only when Station Specific Authorization Codes (SSAU) package 229 is equipped.
(CCSD)	Controlled Class of Service Denied	
CCSA	Controlled Class of Service Allowed	
		CCSA is required for the Electronic Lock feature. Must have Controlled Class of Service (CCOS) package 81.
(CDMD)	CDMD denies external station activity records to be generated for the set	
CDMA	CDMA allows external station activity records to be generated for the set	
(CFHD)	Call Forward Hunt Override Denied	
CFHA	Call Forward Hunt Override Allowed	
(CFTD)	Call Forward by Call Type Denied/Allowed	
CFTA	If response is CFTA, you must also designate HTA, FNA or both.	
(CFXD)	Call Forward All Calls to External DN Denied	
CFXA	Call Forward All Calls to External DN Allowed	
	Examples of external DNs are:	
	<ul style="list-style-type: none">• Route Access Code• ESN Access Code• CDP Distant Steering Code	
	When denied, a call can only be forwarded to the following internal DNs:	
	<ul style="list-style-type: none">• Single or multi-line telephone• Attendant DN or CAS local attendant DN• Listed DN as defined in LD 15• Message Center DN where MWC = YES	

Prompt	Response	Comment
(CLBD)	Deactivate Calling Party Number and Name per-line blocking	
CLBA	Activate Calling Party Number and Name per-line blocking	
		The user may still request CPP by dialing the CPP code.
(CLTD)	Network Call Trace from this telephone Denied	
CLTA	Network Call Trace from this telephone Allowed	
(CMSD)	Command and Status link Denied	
CMSA	Command and Status link Allowed	
		CMSA is not supported by M2009, M2018, M2112, M2317, and M3000.
(CNDD)	Call Party Name Display Denied	
CNDA	Call Party Name Display Allowed	
		CNDA allows user names to be displayed on the telephone's digit display.
(CNID)	Call Number Information Denied	
CNIA	Call Number Information Allowed	
(CNTD)	Network ACD Countdown Denied	
CNTA	Network ACD Countdown Allowed	
		Only allowed on ACD agent telephones.
(CPFA)	Forced Camp-On from another set Allowed	
CPFD	Forced Camp-On from another set Denied	
(CPTA)	Forced Camp-On to another set Allowed. CPTA is the default for VCE TNs.	
CPTD	Forced Camp-On to another set Denied	
(DDGA)	DN Display on other set Allowed	
DDGD	DN Display on other set Denied	
(DDV)	Data Port Verification Denied	
ADV	Data Port Verification Allowed	
(DELD)	Dealer Denied	
DELA	Dealer Allowed	
		Must have On-Hold On Loudspeaker (OHOL) package 196.

LD 11

Prompt	Response	Comment
(DNDD) DNDA	Dialed Name Display Denied Dialed Name Display Allowed	DNDA allows the display of the originally dialed DN's names on redirected calls. Name display applies to M2317, M3000 or Meridian Modular telephones with displays. Must have Calling Party Name Display (CPND) package 95. Must also have CLS = CNDA. CLS is not DTA.
(DOS) AOS	ACD Supervisory Set Denied observation of other supervisory sets ACD Supervisory Set Allowed observation of other supervisory sets	Must have CLS = SPV.
(DPUD) DPUA	DN Pickup Denied DN Pickup Allowed	
(DRG1) DRG2 DRG3 DRG4	Digital telephone distinctive ringing High fast tone, frequency 667 Hz/500 Hz, warble rate 10.4 Hz High slow tone, frequency 667 Hz/ 500 Hz, warble rate 2.6 Hz Low fast tone, frequency 333 Hz/ 250 Hz, warble rate 10.4 Hz Low slow tone, frequency 333 Hz/ 250 Hz, warble rate 2.6 Hz	DRG3 and DRG4 distinctive ringing for M2006 and M2008 telephones are different.
DRG3 DRG4	Low fast tone, frequency 1600/ 2000 Hz, warble rate 10.0 Hz Low slow tone, frequency 1600/ 2000 Hz, warble rate 2.5 Hz	
(DSX) DSI	Data Service access or IS Server TN Denied Data Service access or IS Server TN Allowed	CLS is automatically set to DTA.
(FBD) FBA	Call Forward Busy Denied Call Forward Busy Allowed	This feature sends DID calls encountering a busy condition to the attendant. Call Forward Busy should have Hunting and Call Waiting denied, CLS = HTD and CWD, since Hunting and Call Waiting take precedence over FBA.
(FITD) FITA	Flexible Incoming Tones Denied Flexible Incoming Tones Allowed	For SL-1 sets OPT must be SBA in LD 15. For Digital sets OPT must be DBA in LD 15.

Prompt	Response	Comment
(FLXD) FLXA	Flexible voice/data Denied Flexible voice/data Allowed	<p>FLXA is only allowed for Aries sets.</p> <p>By entering FLXA, you may configure dynamic voice/data TNs by assigning VCE to the upper TN (unit 16-31) and DTA to the lower TN (unit 0-15). You also have the option of designating a SCR key as DTM (data mode).</p> <p>Warning: If connecting the Aries set only to the TCM loop, this option should not be specified. External equipment which can use this capability should be connected.</p> <p>Warning: When changing from CLS DTA to CLS VCE, CLS WTA should also be assigned to avoid conflict with CLS CPTA. CLS CPTA is the default for VCE TNs.</p>
(FND) FNA	Call Forward No Answer Denied Call Forward No Answer Allowed	
(FRN) ENG	French language display English language display	For M2317 alphanumeric display sets.
(GPUD) GPAU	Group Pickup Denied Group Pickup Allowed	Group Pickup is not allowed on telephones in group zero, RNPG = 0.
(HFD) HFA	Digital Telephone Handsfree Denied Digital Telephone Handsfree Allowed	Only available for M2616 telephones. Handsfree capability on all other telephones is a function of the hardware and does not require HFA Class of Service in order to operate.
(HTD) HTA	Hunting Denied Hunting Allowed	
(ICDD) ICDA	Internal Call Detail Recording Denied Internal Call Detail Recording Allowed	
(IMD) IMA	Integrated Messaging Service Attendant Denied Integrated Messaging Service Attendant Allowed	
(IRD)	Incoming Ringing Line Preference Denied	

LD 11

Prompt	Response	Comment
	IRA	Incoming Ringing Line Preference Allowed
	(LLCN)	Line Load Control off
	LLC1	Class 1
	LLC2	Class 2
	LLC3	Class 3
	(LND)	Last Number Redial Denied
	LNA	Last Number Redial Allowed Must have OPT = LRA in LD 15.
	(LPR)	Low Priority Station
	HPR	High Priority Station High Priority will place this set or trunk at the top of the dial tone queue.
	(MCTD)	Malicious Call Trace Denied
	MCTA	Malicious Call Trace Allowed The MCT key must be removed before changing MCTA to MCTD. MCT is applied on a TN basis.
	(MRD)	Message Registration Denied
	MRA	Message Registration Allowed
	(MTD)	Maintenance Telephone Denied
	MTA	Maintenance Telephone Allowed
	(MWD)	Message Waiting Denied
	MWA	Message Waiting Allowed If CLS = MWA and there is no Message Waiting Key (MWK) defined, then the red Message Waiting LED lights to indicate Message Waiting notification.
	(NAMA)	Name Display on other set Allowed
	NAMD	Name Display on other set Denied
	(NID)	Non-ringing Incoming Line Preference Denied
	NIA	Non-ringing Incoming Line Preference Allowed
	(OLD)	Outgoing Line Preference Denied
	OLA	Outgoing Line Preference Allowed
	(ONDD)	One Number Delivery Denied for a portable
	ONDA	One Number Delivery Allowed for a portable

Prompt	Response	Comment
(PGND)	Deny PAGENET access	
PGNA	Allow PAGENET access	PGND/A allowed if PAGENET package 307 is equipped.
(POD)	Privacy Override Denied	
POA	Privacy Override Allowed	The Privacy Optional feature is used with multiple appearance DN's.
(PUD)	Call Pickup Denied	
PUA	Call Pickup Allowed	Default changes to PUA if Ringing Number Pickup Group (RNPG) is defined. Call Pickup is not allowed on telephones in group zero or RNPG = 0.
(RDLA)	Automatic Redial Allowed	
RDLD	Automatic Redial Denied	
(RTDD)	Call Redirection by Time of day denied	
RTDA	Call Redirection by Time of day allowed	
(SFD)	Second level CFNA Denied	
SFA	Second level CFNA Allowed	SFA only requires the FNA Class of Service.
(SWD)	Station-to-Station Call Waiting Denied	
SWA	Station-to-Station Call Waiting Allowed	A Call Waiting key or CWT must be defined. Must have CLS = HTD since hunting takes precedence.
(TENA)	Tenant Service Allowed	
TEND	Tenant Service Denied	Multi-Tenant must be configured in LD 93 before the default is TENA.
(ULAD)	Deny access to Set Based Administration	
ULAA	Allow access to Set Based Administration	Must have Set Based Administration (ADMINSET) package 256.
(USMD)	Meridian 911 position denied	
USMA	Meridian 911 position allowed	Must have Meridian 911 (M911) package 224.
(USRD)	User Selectable Call Redirection Denied	
USRA	User Selectable Call Redirection Allowed	

LD 11

Page 104 of 848 Alphabetical list of prompts

Prompt	Response	Comment
	(VCE) DTA	Voice Terminal Data Terminal VCE is used for voice TNs. DTA is used for data. For digital line cards the Class of Service is VCE for units 0-7 and DTA for units 8-15. For NT8D02 Digital Line Cards, the Class of Service is VCE for units 0-15 and DTA for units 16-31.
	(VMD) VMA	Server Voice Messaging Denied Server Voice Messaging Allowed
	(WTA) WTD	Warning Tone Allowed Warning Tone Denied
	(XHD) XHA	Exclusive Hold Denied Exclusive Hold Allowed
CPND	NEW OUT CHG	Calling Party Name Display New CPND entry Delete CPND entry Change CPND entry Must have Calling Party Name Display (CPND) package 95 and CPND data block defined in LD 95.
CPND_LANG	(ROM) KAT	Calling Party Name Display Language Roman Katakana
CUST	(0)	Customer number
DCD	(ON) OFF	Dynamic Carrier Detect Enables Dynamic CD Carrier Detect starts as inactive and follows the state of the call. DCD is only prompted if TYPE = R232.
DELETE_VMB	(YES) NO	Delete Voice Mailbox Remove the Voice Mailbox from the Meridian 1 and Meridian Mail Remove the Voice Mailbox from the Meridian 1 DELETE_VMB is prompted if REQ = OUT and TN has an associated Voice Mailbox. DELETE_VMB is allowed if the DN is a single appearance or multiple appearance DN on a single TN.

Prompt	Response	Comment
DEM	(DCE) DTE	Data Equipment Mode. Prompted if TYPE = R232. Data Carrier Equipment Data Terminal Equipment
DES	d...d	Designator The response d...d represents an Office Data Administration System (ODAS) Station Designator of 1-6 alphanumeric characters.
DGRP	(1)- 5	Device Group DGRP designates an AST BCS set into a specific device group. It is recommended that an AST phantom (BCS) TN should be a non-display BCS set. An AST BCS set of a phantom loop cannot be an ACD set.
DISPLAY_FMT	(FIRST, LAST) LAST, FIRST	Display Format for CPND name May be input as FIRST To view names as John Doe May be input as LAST To view names as Doe John
DLNG	(ENG) FRN	Language preference for the DAC prompts. English French Prompted if TYPE = R232 or R422.
DN	x...x	Directory Number DN is prompted when using the copy command. DN can be up to 4 digits, up to 7 digits if Directory Number Expansion (DNXP) package 150 is equipped. ISDN applications can accept up to 13 digits.
DNDR	(0)-120	Delay Value in seconds. A DNDR value of 0 disables this feature. If the DNDR value is an odd number, then it is incremented to the next even number.
DTAO	(MPDA) MCA	Data Option, not prompted if TYPE = MCU. Software for Meridian Programmable Data Adapter Software for Meridian Communications Adapter The DTAO prompt determines the downloaded data, system, and operating parameters.

LD 11

Prompt	Response	Comment
DTMK	x...x	<p>Data Mode Key number for a dynamic voice/data TN.</p> <p>DTMK is prompted if the TN has both CLS = VCE and CLS = FLXA. There can be only one data mode key per TN. Any response to DTMK will overwrite a previous setting.</p> <p>When changing from CLS = DTA to CLS = VCE, CLS = WTA should also be assigned to avoid conflict with CLS = CPTA.</p> <p>Where x...x = number of the SCR/SCN key to be designated as the data mode key. This cannot be key 00.</p>
	<cr>	No data mode key. TN is not a dynamic voice/data TN.

Prompt	Response	Comment
DTR	(OFF) ON	Data Terminal Ready settings Dynamic DTR Forced DTR, force the data port to always be ready for transmission. With the Data Access Card (DAC). DTR is prompted if TYPE = R232.
DTYP	(IOS) IDS ODS	Data Station Type Inbound/Outbound Data Station Inbound Data Station Outbound Data Station
DUP	(FULL) HALF	Full Duplex Half Duplex
ECHG	(NO) YES	Easy Change This allows change to any prompt in this program without having to <cr> through all unrelated prompts. ECHG is prompted when REQ = CHG.
EFD	x...x	Flexible CFNA DN for External calls EFD is the DN to which external calls are routed when there is no answer, if one of the following customer options is defined in LD 15: <ul style="list-style-type: none"> • FNAD = FDN • FNAT = FDN • FNAL = FDN The DN can be up to 4 digits without Directory Number Expansion (DNXP) package 150, 7 digits with DNXP package 150, or 13 digits. Call Forward by Call Type Allowed and Forward No Answer must be defined as the Class of Service (CLS = CFTA and FNA). LDNs, DLDNs, and Prime DNs will be accepted as valid input.

LD 11

Prompt	Response	Comment
EHT	x...x	<p>External Hunt DN</p> <p>EHT is the DN hunted for by external busy calls when:</p> <ul style="list-style-type: none">• Class of Service is Call Forward by Call Type Allowed (CFTA) and Hunting Allowed (HTA)• the LD 15 prompt FNAD, FNAT, or FNAL = HNT <p>This DN can be up to 4 digits without Directory Number Expansion (DNXP) package 150, 7 digits with DNXP package 150, or 13 digits.</p> <p>LDNs, DLDNs, and Prime DN's are accepted as valid input. To remove EFD or EHT DN's, change CFTA Class of Service to CFTD. Prompted when CFTA is defined.</p>
	000	<p>Short Hunt for external calls</p>
FCAR	(NO) YES	<p>Forced Charge Account Restricted</p> <p>Must use Forced Charge Account</p> <p>Restricted from using Forced Charge Account</p> <p>Prompted if FCAF = YES in LD 15 and CLS = TLD, CUN or CTD.</p>
FDN	x...x	<p>Flexible CFNA DN</p> <p>FDN is used for internal calls, if CLS is CFTA and FNA. FDN is used for all calls if CLS is CFTD and FNA.</p> <p>FDN can be up to 4 digits without Directory Number Expansion (DNXP) package 150, 7 digits with DNXP package 150, or 13 digits.</p> <p>A Group Hunt pilot DN can be entered. Precede with X to delete.</p> <p>FDN requires CLS = MWA or FNA. FDN is only used if one or more of the following customer options are defined in LD 15:</p> <ul style="list-style-type: none">• FNAD = FDN• FNAT = FDN• FNAL = FDN
FSVC	(0)-9	<p>Forced Out-of-Service Off-Hook Alarm Security DN index.</p> <p>When Forced Out-of-Service condition occurs on a digital telephone with Alarm Security Allowed (ASCA) Class of Service, the telephone is intercepted to a predefined DN.</p> <p>Enter the index number (0)-9 of the DN defined by LD 15 prompts ODN 0-9. ODN is the acronym for Change Off-Hook Alarm Security Directory Number options (OHAS DN).</p>
HDLC	(NO) YES	<p>High Level Data Link Control</p>

Prompt	Response	Comment
		Prompted if V25 = YES.
HOT	(OFF) ON	Hotline Hotline is inactive for data port. Enables Hotline for data port. If HOT = ON, Auto Baud is forced OFF for the Data Access Card.
HUNT	x...x	Hunt DN of next station in hunt chain This Hunt DN can be up to 4 digits without Directory Number Expansion (DNXP) package 150, or 7 digits with Directory Number Expansion (DNXP) package 150, or 13 digits. Precede with X to delete.
	000	Short Hunting A Group Hunt pilot DN can be entered. A Control directory number (CDN) can be defined as a Hunt DN for both physical and phantom 500/2500 sets. When a CDN is configured in this way, a call which comes to a busy DN can be Hunting or Call Forward Busy to a CDN. With Call Forward and Hunt by Call Type, this is the Hunt DN for : <ul style="list-style-type: none"> • internal calls if CLS = CFTA, or • for all busy calls if CLS = CFTD
IAPG	0- 9 (0)-15	Meridian Link Unsolicited Status Message (USM) group IAPG assigns AST DNs to a status message group defined in LD 15. These groups determine which status messages are sent for an AST set. The default Group 0 sends no messages, while Group 1 sends all messages.
INT	ON (OFF)	Meridian 1/SL-100 Interworking Enable Meridian 1 and SL-100 interworking Do not enable Meridian 1 and SL-100 interworking

LD 11

Prompt	Response	Comment
ITEM	aaaa yyy	Respond with the desired program mnemonic (aaaa) and its new value (yyy). ITEM is reprompted until only a carriage return <cr> is entered. For example: REQ CHG TYPE SL1 TN Ill ss cc uu ECHG YES ITEM KEY 07 ADL KEY <cr> - KEY is prompted until <cr> is entered ITEM <cr> REQ
	<cr>	Return to REQ
ITNA	(NO)	Idle TN for the Third Party Application. Do not identify an Associated Set (AST) to be used only by Third Party Application
	YES	Identify an Associated Set (AST) to be used only by Third Party Application
KBD	(ON) OFF	Enable Keyboard Dialing for data port Enables Hayes mode
KEEP_MSGS	(NO) YES	Preserve Meridian Mail Messages and current password

Prompt	Response	Comment
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KEY xx aaa yyyy (ccc **or** D)

Telephone function key assignments

The following key assignments determine calling options and features available to a telephone. Note that KEY is prompted until just a carriage return <cr> is entered.

Where:

- **xx** = key number
- **aaa** = key name or function
- **yyyy** = additional information required for the key
- **ccc** = CLID entry of (0)-N, where N = the value entered at the SIZE prompt in LD 15 minus 1.
- **D** = the character "D". When the character "D" is entered, the system searches the DN keys from key 0 up to find a DN key a CLID entry. The CLID associated with the found DN key will then be used.

Note: The position of the (ccc or D) field varies depending on the key name or function.

You may enter a CLID entry if aaa = ACD key, HOT d, HOT L, MCN, MCR, PVN, PVR, SCN or SCR. Type xx NUL to remove a key function or feature.

Some data ports require specific key assignments. Refer to the *Meridian Data Services* NTPs for information regarding these requirements.

Key number limits that can be assigned are as follows:

- 0-5 for M2006
- 0-7 for M2008
- 0-59 for M2616, varies with number of add-on modules
- 0-69 for SL1, varies with number of key/lamp strips

If either the Meridian Programmable Data Adapter (MPDA) or the Display Module is equipped, then key 7 on sets M2008, M2216, and M2616 sets and key 5 on set M2006 will become Program keys which cannot be used as function keys.

Any printout of the TN block will not show key 7 because it is a local function key.

LD 11

Prompt	Response	Comment
		On the M2616, if CLS = HFA, key 15 on the voice TN defaults to the Handsfree key. No other feature assignment is accepted. Primary and secondary data DNs must be unique. A station SCR, SCN, MCR, or MCN DN must be removed as a member from all Group Hunt lists before the DN can be modified.
xx AAG	ACD Answer Agent key Must have CLS = SPV.	
xx AAK	Automatic Answerback key AAA CLS and AAK key cannot be assigned to the same telephone. Only one type of Automatic Answerback is allowed. M2616 telephone must have CLS = HFA.	
xx ACD yyyy (ccc or D) zzz	Automatic Call Distribution key Where: <ul style="list-style-type: none">• xx = key number (<i>must be key 0</i>)• yyyy = ACD DN or Message Center DN• ccc = CLID entry of (0)-N, where N = the value entered at the SIZE prompt in LD 15 minus 1.• D = the character D may be entered to search a CLID entry from key 0 and up to find a DN key. The CLID associated with the found DN key will then be used.• zzzz = agent's position ID yyyy and zzzz can be up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150.	
xx ACNT	Activity Code entry key This key must have an associated lamp and applies to ACD-D and ACD-MAX only. ADS data block must be configured in LD 23.	

Prompt	Response	Comment
xx ADL yy z...z	Autodial key	Where: <ul style="list-style-type: none"> • xx = key number • yy = maximum length of the ADL DN. valid entries are: 4, 8, 12, (16), 20, 24, 28, 31. Note that other values are rounded up to the next valid number. • z...z = actual Autodial DN (this entry is optional)
xx AGT yyyy	ACD Agent status key	Where: yyyy = agent's ID. The agent ID number can be up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. Must have CLS = SPV.
xx AMG	ACD Answer Emergency call key	Must have CLS = SPV. The Answer Emergency Key can be defined as a secondary supervisor's Position ID. The secondary supervisor's Position ID can be NULL by default. The Position ID of the ACD set cannot be changed once the ACD set is aquired as a Human Agent.
xx AO3	Three-Party Conference key	
xx AO6	Six-Party Conference key	
xx ARC	Attendant Recall key	
xx ASP	ACD Supervisor call key(must have CLS = AGN)	
xx AWC	ACD Calls Waiting key	Must have CLS = AGN and Supervisor Position ID or SPID must be configured.
xx BFS TN	Busy Forward Status key	Where: TN = Terminal Number to be screened. A Key cannot be assigned to a BRI set.

LD 11

Prompt	Response	Comment
xx CA yy z...z		Combined No Hold Conference and Autodial key Where: <ul style="list-style-type: none">• yy = maximum length of the CA DN. Valid entries are: 4, 8, 12, (16), 20, 24, 28, 31.• z...z = actual Autodial DN (this entry is optional)
xx CAS		Centralized Attendant Service key
xx CFW yy z...z		Call Forward key Where: yy = maximum length of the CFW DN Valid entries for M2317 or M3000 sets are any integer in the range of (4)-23. For all other BCS type sets, you may enter any integer in the range of (4)-31. Where: z...z = Call Forward DN or range of DN's where calls are to be forwarded (the target DN). A Group Hunt DN can be entered. If CLS = CFXD, the Call Forward number must be an internal DN.
xx CH D yy z...z		Combined No Hold Conference and Direct Hotline key Where: <ul style="list-style-type: none">• yy = number of digits in target DN (1-31)• z...z = target DN
xx CH L yyy		Combined No Hold Conference and Hotline List key Where: yyy = 0-999 for Hotline list entry as defined in LD 18.
xx CHG		Charge account key
xx COS		Controlled Class of Service key
xx CPN		Calling Party Number key
xx CS yyyy		Combined No Hold Conference and Speed Call key Where: yyyy = Speed Call list number from 0-8190. Not available on M3000 telephones.

Prompt	Response	Comment
xx CWT		<p>Call Waiting key</p> <p>Only one CWT Key is allowed. Should have CLS = HTD since Hunting takes precedence.</p>
xx DAG		<p>Display ACD Agents key</p> <p>This key displays the status of ACD agents appearing on the supervisor's telephone. Must have CLS = SPV and ADD or DDS.</p>
xx DIG yyyy zz R/V		<p>Dial Intercom Group key</p> <p>Where:</p> <ul style="list-style-type: none"> • yyyy = group number, from 0-2045. • zz = member number from 0-99. The zz value cannot be equal to or share the first digit of a 2 digit number with the SPRE code. For example, if SPRE = 1, zz cannot be 1, 10, 11...19. • R = Ring option • V = Voice option <p>Must have maximum number of Dial Intercom Groups DGRP defined in LD 15.</p> <p>If any member in a group has a two-digit member number, then all members have a two-digit number. The system adds leading zeros to other entries.</p> <p>Prompted with Dial Intercom (DI) package 21.</p>
xx DPU		<p>Directed Call Pickup key</p> <p>Key is optional, dial access code can be used if CLS = DPUA. Not available on M3000 telephones. This prompt appears with Directed Call Pickup (DCP) package 115.</p>
xx DRC yyy		<p>DID Route Control key</p> <p>Where: yyy = route number = 0-511</p>
xx DSP		<p>Display key</p> <p>This key must have an associated key/lamp pair.</p>

LD 11

Prompt	Response	Comment
xx DWC yyyy	ACD Supervisor Display Waiting Calls key	Where: yyyy = ACD DN. Up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. A maximum of eight DWC keys can be assigned per queue on eight supervisors. Agent sets can only have 1 SWC key for their own queue. ACD agent telephones can support the display waiting calls key. Must have CLS = SPV and ADD or DDS. The key can be used with supervisors and agents.
xx EMR	ACD Emergency key(must have CLS = AGN)	
xx ENI yyyy	ACD Enable Interflow key	Where: yyyy = DN. The DN can be up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. Only one is allowed per ACD DN. Must have CLS = SPV.
xx EOVR	Enhanced Override key	
xx GPU	Group Call Pickup key	The key is optional because a dial access code can be used if CLS = GPUUA. Not available on M3000 telephones. Allowed with Directed Call Pickup (DCP) package 115.
xx GRC yy	Group Call key	Where: yy = 0-63 for Group number as defined in LD 18

Prompt	Response	Comment
nn HOT D dd num DN m (ccc or D)	Two-way Hotline key	Where: <ul style="list-style-type: none"> • dd = number of digits dialed • num = target_number (terminating DN is a maximum of 31 digits) • DN = two-way hotline DN • m = one of the following Terminating Modes: H = Hotline (default), N = Non-ringing, R = Ringing, or V = Voice • ccc = CLID entry of (0)-N, where N = the value entered at the SIZE prompt in LD 15 minus 1. • D = the character D may be entered to search a CLID entry from key 0 and up to find a DN key. The CLID associated with the found DN key will then be used.
xx HOT D nn x...x	Direct entry for One-way Enhanced Hotline key	Where: <ul style="list-style-type: none"> • nn = number of digits dialed • x...x = Hotline terminating DN up to a 31 digit maximum
xx HOT D nn x...x xxxx (ccc or D)	Direct entry for Two-way Enhanced Hotline key	Where: <ul style="list-style-type: none"> • nn = number of digits in Target DN • x...x = Terminating DN up to a 31 digit maximum • xxxx = optional two way Hotline DN. The DN can be up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. • ccc = CLID entry of (0)-N, where N = the value entered at the SIZE prompt in LD 15 minus 1. • D = the character D may be entered to search a CLID entry from key 0 and up to find a DN key. The CLID associated with the found DN key will then be used.

Prompt	Response	Comment
nn HOT I dd num m	Intercom key	Where: <ul style="list-style-type: none"> • dd = number of digits dialed • num = target_number (terminating DN max 31 digits) • m = one of the following Terminating Modes: V = Voice (default), N = Non-ringing, or R = Ringing
xx HOT L bbb	One-way Hotline key	Where: bbb = Hotline list entry = 0-999. The Hotline list entry is defined in LD 18. Note that the Hotline list NCOS overrides the set NCOS.
xx HOT L bbb xxxx (ccc or D)	Two-way list entry for Enhanced Hotline key	Where: <ul style="list-style-type: none"> • bbb = List entry = 0-999 • xxxx = Two-way Hotline DN. This DN can be up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. • ccc = CLID entry of (0)-N, where N = the value entered at the SIZE prompt in LD 15 minus 1. • D = the character D may be entered to search a CLID entry from key 0 and up to find a DN key. The CLID associated with the found DN key will then be used. Hotline list entry is defined in LD 18. Note that the Hotline list NCOS overrides set NCOS.
xx ICF nn xxxx	Internal Call Forward key	Where: nn = Forward DN length. Valid entries are any integer in the range of (4)-31. Where: xxxx = Forward DN (this entry is optional) An ICF key can be configured if Call Forward is enabled.
xx MCK	Message Cancellation Key	This key should only be programmed on Message Center sets.

Prompt	Response	Comment
xx MCN yyyy	(ccc or D) Multiple Call Non-Ringing key Where: <ul style="list-style-type: none"> • yyyy = DN • ccc = CLID entry of (0)-N, where N = the value entered at the SIZE prompt in LD 15 minus 1. • D = the character D may be entered to search a CLID entry from key 0 and up to find a DN key. The CLID associated with the found DN key will then be used. <p>The DN can be up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. The DN cannot appear simultaneously on a PBX set DN or as an SCR DN or SCN DN.</p> <p>Once the MCN key has been defined, MARP is prompted.</p>	
xx MCR yyyy	ccc,D Multiple Call Ringing key Where: <ul style="list-style-type: none"> • yyyy = DN • ccc = CLID entry of (0)-N, where N = the value entered at the SIZE prompt in LD 15 minus 1. • D = the character D and may be entered to search a CLID entry from key 0 and up to find a DN key. The CLID associated with the found DN key will then be used. <p>The DN can be up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. The DN cannot appear simultaneously on a PBX set DN or as a SCR Single Call or SCN DN.</p> <p>Once the MCR key has been defined MARP is prompted.</p>	
xx MIK	Message Indication Key This key should only be programmed on Message Center sets.	
xx MMM	Voice/Data display key Only key numbers 0-7 can be assigned for the M2008. M2x16 varies with additional add-on modules. Maximum key number is 59. The Data Port requires specific key assignments. An ISDL line card, vintage C or higher, is required for M2006, M2008, M2216 and M2616 telephones.	

LD 11

Prompt	Response	Comment
xx MRK	Message Registration Key	Requires PPM/Message Registration (MR) package 101 and CLS = ADD or DDS.
xx MSB	Make Set Busy key	
xx MWK yyyy	Message Waiting Key	Where: yyyy = DN. The DN can be up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. With the Network Message Service feature equipped, the NMS-DN can be up to 13 digits.
xx NHC	No Hold Conference key	
xx NRD	Not Ready key	AGN or SPV Class of Service must be assigned.
xx NSVC yyyy	Night Service key(must have CLS = SPV)	Where: yyyy = ACD DN associated with that Night Service. The DN can be up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150.
xx NUL	Removes function or feature from key	
xx OBV	Observe ACD agent key(must have CLS = SPV)	
xx OVB	Overflow Position Busy key	
xx OVR	Override key	
xx PRK	Call Park key	The Transfer (TRN), or Six-Party Conference (A06) key plus a Dial Access code can be used instead of the Park key.
xx PRS	Privacy Release key	

Prompt	Response	Comment
xx PVN yyyy	(ccc or D) Private Line Non-Ringing key Where: <ul style="list-style-type: none"> • yyyy = DN • ccc = CLID entry of (0)-N, where N = the value entered at the SIZE prompt in LD 15 minus 1. • D = the character D may be entered to search a CLID entry from key 0 and up to find a DN key. The CLID associated with the found DN key will then be used. <p>The DN can be up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. Must have Private Line Directory Number (PRDN) defined in LD 14.</p>	
xx PVR yyyy	(ccc or D) Private Line Ringing key Where: <ul style="list-style-type: none"> • yyyy = DN • ccc = CLID entry of (0)-N, where N = the value entered at the SIZE prompt in LD 15 minus 1. • D = the character D may be entered to search a CLID entry from key 0 and up to find a DN key. The CLID associated with the found DN key will then be used. <p>The DN can be up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. Must have Private Line Directory Number (PRDN) defined in LD 14.</p>	
xx RAG	ACD Ring Agent key(must have CLS =SPV)	
xx RDL yy	Redial stored number key Where: yy = number of digits = 4, 8, 12, (16), 20, 23. Numbers between 5 and 22 are rounded up to the next valid number.	
xx RGA	Ring Again key RANA may be activated if OPT = RNA in LD 15. When OPT = RND in LD 15, all sets with the RGA key will only be able to activate Ring Again Busy.	
xx RLS	Release key Requires CLS = LVXA. Key/lamp pair is not required.	

LD 11

Prompt	Response	Comment
xx RMK	Room Status Key	
xx RNP yyyy	Ringing Number Pickup key	Where: yyyy = Ringing Number Pickup group number is optional If the group number is not entered, the key will pick up the group number assigned to the station. If the group number is entered, the key will pick up calls in the specified group yyyy.
xx SCC yyyy	Speed Call Controller key	Where: yyyy = SCL list number = 0-8190. SCL must be defined in LD 18.
xx SCN yyyy (ccc or D)	Single Call Non-Ringing key	Where: <ul style="list-style-type: none">• yyyy = DN• ccc = CLID entry of (0)-N, where N = the value entered at the SIZE prompt in LD 15 minus 1.• D = the character D may be entered to search a CLID entry from key 0 and up to find a DN key. The CLID associated with the found DN key will then be used. The DN can be up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. Once the SCN key has been defined, MARP is prompted.

Prompt	Response	Comment
xx SCR yyyy	(ccc or D) Single Call Ringing key Where: <ul style="list-style-type: none"> • yyyy = DN • ccc = CLID entry of (0)-N, where N = the value entered at the SIZE prompt in LD 15 minus 1. • D = the character D may be entered to search a CLID entry from key 0 and up to find a DN key. The CLID associated with the found DN key will then be used. <p>The DN can be up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. Use a single appearance DN to terminate VCC Voice Call or SIG Signaling calls.</p> <p>Once the SCR key has been defined, MARP is prompted.</p>	
xx SCU yyyy	Speed Call User key Where: yyyy = SCL list number = 0-8190. SCL must be defined in LD 18.	
xx SIG yyyy	Signal key Where: yyyy = Single appearance DN. The DN can be up to 4 digits, up to 7 digits with DNXP package 150. Key/lamp is not required.	
xx SSC yyyy	System Speed Call controller key Where: yyyy = SSC list number = 0-4095. SSC list must be defined in LD 18.	
xx SSU yyyy	System Speed Call User key Where: yyyy = SSC list number = 0-4095. SSC list must be defined in LD 18.	
xx TAD	Time and Date key For SL-1 sets only, must have CLS = ADD or DDS, cannot be key 0.	
xx THF	Centrex Trunk Switch Hook Flash key	

LD 11

Prompt	Response	Comment
	xx TRC	Malicious Call Trace key Key/lamp not required. MCT is applied on a TN basis. This key can be configured on ACD telephones. Allowed when CLS = MCTA.
	xx TRN	Call Transfer key
	xx USR	User Selectable Call Redirection key
	xx UST	User Status key(must have UST = YES in LD15 and UST = YES in LD 23)
	xx VCC yyyy	Voice Call key Where: yyyy = Single appearance DN. Not available on M3000 telephones.
	xx WUK	Guest entry of automatic Wakeup key (Key/lamp pair is required)
KLS	1-7	Number of key/lamp strips, including add-on key/lamp modules. Prompted if TYPE = SL-1
LDN	(NO)	Departmental Listed Directory Number (LDN) is not activated for this set
	0-5	Departmental LDN as defined in LD 15
LHK	(0)-7 (0)-59 (0)	Last Hunt Key number limit For M2008 For M2616, varies with number of add-on modules No Last Hunt Key or remove Last Hunt Key (used for Internal/External Short Hunt)
LNRS	4-(16)-31	Last Number Redial Size Enter the maximum number of digits that can be stored. Valid entries are 4, 8, 12, (16), 24, 28, or 31. Invalid entries are rounded up to the next valid entry.
LPK	(0)-5 (0)-7 (0)-59	Line Preference Key limit (last key scanned for Automatic Line Preference) For M2006 For M2008 For M2616, varies with number of add-on modules
LTN	1-253 0-15	Logical TN and AUX link number

Prompt	Response	Comment
		This prompt appears when CLS = IMA and the valid APL link is defined in LD15.
MARP	(NO) YES	Multiple Appearance Redirection Prime Use TN as the Multiple Appearance DN Redirection Prime. The MARP prompt, or MARP information, appears following the DN KEY designation, and is associated with those DN assignments.
MAUT	(NO) YES	Modify Authorization Codes for this telephone This prompt appears with Station Specific Authorization Codes (SSAU) package 229 and CLS = AUTR.
MIN	x...x	Mobile Identification Number for a portable. Length is 10 BCD Digits.
MLWU_LANG		Language choice for Automatic Wakeup (AWU) calls. This entry defines the language presented for the Automatic Wakeup Recorded Announcement (RAN), for language 0 through 5 as follows:
	(0)	See RAN1/RAN2 in LD 15
	1	See LA11/LA12 in LD 15
	2	See LA21/LA22 in LD 15
	3	See LA31/LA32 in LD 15
	4	See LA41/LA42 in LD 15
	5	See LA51/LA52 in LD 15
	X	Remove entry
MOD	(NO) YES	Mode Network is required for Meridian Programmable Data Adapter Modem synchronizes to clock in external device, such as QMT21
MPHI	(NO) YES	Meridian Communications Unit used as MPH interface Prompted if TYPE = MCU.
MPR	0-511	Modem Pool Route number

LD 11

Prompt	Response	Comment
NAME	aaaa,bbbb	Calling Party Name Display name First name comma Last name. For example, John Doe is entered as John,Doe. The first single comma is treated as the delimiter. Up to 27 characters (including the comma) may be input. The last occurrence of the first comma group serves as the name delimiter and is translated into a space between the first and last name.
	aaaa	When the delimiter is omitted, the input is stored as a first name.
	aaaa,	When the delimiter follows the input, the input is stored as the first name.
	,bbbb	When the delimiter precedes the input, the input is stored as a last name.
NCOS	(0)-99	Network Class of Service group
OHID	(0)-9	Off-Hook Alarm Security DN index for off-hook or interdigit timeout. When a dial tone or interdigit timeout occurs on a set with Alarm Security Allowed (ASCA) Class of Service, the set is intercepted to a predefined DN. Enter the index number (0)-9 of the DN defined by LD 15 prompts ODNx.
OPE	(NO) YES	Change data port Operating Parameters
PAR	(SPAC) EVEN ODD MARK	Space Parity Even Parity Odd Parity Mark Parity
PBDO	(OFF) ON	Port Busy when DTR off Disabled Key 7 is automatically assigned as the Make Set Busy (MSB) key Switching to any other mode will force PBDO to OFF. Prompted if TYPE = R232 in operating modes 8 or 12.
PLEV	0-(2)-7	Priority Level, prompted with Priority Override/Forced Camp-On (POVR) package 186. 2 = set can override sets of level 1 and 2, and can be overridden by sets of level 2-7.

Prompt	Response	Comment
POS	xxxx	ACD position ID. Prompted when SFMT = AUTO, TNDN, TN or DN.
PRI	(1)-48	Priority level for Automatic Call Distribution (ACD) agent Valid range for machine types STE, NT, RT, XT, and system Options 21E, 51, 51C, 61, 61C, 71, 81 and 81C.
	(1)-32	Valid range for all other system options. The agent with the lowest number assigned has the highest priority and is the first ACD agent to receive calls. (Where Priority 1 has the highest priority level). PRI is prompted with Automatic Call Distribution, Priority Agent (PAGT) package 116 and CLS = AGN or SPV.
PRM	(ON) OFF	Prompt for terminal or host mode Terminal or Keyboard dial mode, prompts are output by data unit Host mode prompts are not output by data unit
PSDS	(NO) YES	Public Switched Data Service option With PSDS = YES, transmission will be synchronous and the baud will be 56K or 64K. 56K is the default.
PSEL		Protocol Selection, DM-DM or T-link
	(DMDM)	DMDM is used by Meridian 1 data devices such as ASIM, AIM, ADM, SADM, Asynchronous Data Option or ADO, and MPDA. MCA can use both protocols.
	TLNK	TLNK protocol is used by SL-100 and DMS data devices This prompt appears if DTAO = MCA, or TYPE = MCU
RCO	(0)-2	Ringing cycle option for Call Forward No Answer This prompt appears when CLS = FNA or MWA (or both)
REQ:		Request A colon following a prompt indicates enhanced processing. Enhanced Processing allows a user to either view a list of possible responses or input an abbreviated response.
	?	To get a list of possible responses
	CHG	Change existing data block
	CPY 1-32	Copy or create 1 to 32 new station data block(s) automatically from the specified station data block.

LD 11

Prompt	Response	Comment
	END	Exit overlay program
	MOV	Move data block from one TN to another.
	MOV PAIR	Move voice TN and data TN data blocks on Digital Line Card
	NEW	Add new data block to the system
	OUT	Remove data block
		Before removing an ACD agent telephone, first remove the associated AGT key on the supervisor's telephone. Select OUT and then NEW when switching resources between virtual and actual ACD DNs, to avoid unwanted information on ACD-D reports.
		Note: This load is linked with LDs 11, 20 and 32. You may enter one of the responses listed below to the REQ: prompt. Then go to that Load and follow its Prompts and Responses sequence. See "Overlay programs 10, 11, 20 and 32 are linked, thus eliminating the need to exit one Overlay and enter another. Once one of the above Overlays has been loaded it is possible to add, print and get the status of a set without having to exit one Overlay and load another," on page 81 for further information.
		LD 32: CDSP CMIN CONV CPWD DISC DISI DISL DISN DISS DISU DSCT DSPS DSXP ENCT ENLC ENLG ENLL ENLN ENLS ENLU ENPS ENXP IDC IDCS IDU LBSY LDIS LIDL LMNT PBXT SDLC STAT SUPL TRK XNTT XPCT XPEC
		LD 20: LTN LUC LUDU LUU LUVU PRT
		LD 10: CHG CPY MOV NEW OUT
RNPG	(0)-4095	Ringing Number Pickup Group Valid range To remove a telephone from a group, enter 0 in response to the RNPG prompt.
RTS	(ON) OFF	Request To Send applies only to asynchronous mode.
SCI	(0)-7	Station Category Indication priority level The station category number 1 to 7 must be defined as attendant console Incoming Call Indicator. LD 15 prompt ICI = CA1-CA7.
SCPW	xxxx	Station Control Password

Prompt	Response	Comment
		Must equal Station Control Password Length (SCPL) as defined in LD 15. Not prompted if SCPL = 0. Precede with X to delete.
SECOND_DN		Second DN sharing the Voice Mailbox
	x...x	Second Directory Number. This DN can be up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150.
	X	Deletes the second directory number
SFMT		Select one of the following formats for the copy command. The DN may be up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150.
TNDN		Manual selection of TNs and DNs or ACD position IDs for ACD telephones.
		The TN and DN or POS for ACD set prompts repeat n times as specified under the CPY n command.
	TN	I s c u TN of new set
	DN	xxxx DN of new set
	POS	xxxx ACD position ID of new set
TN		The new DNs or ACD position IDs for ACD telephones are provided by the system. You are prompted for the starting TN and DN or ACD position ID for ACD telephones and each TN.
		The TN prompt repeats n times as specified under the CPY n command.
	TN	I s c u TN of new set
	DN	xxxx DN of new set
	POS	xxxx ACD position ID of new set
DN		The new TNs are provided by the system. You are prompted for the starting TN and each DN or ACD position ID for ACD telephones.
		The DN or POS for ACD sets prompt repeats n times as specified under the CPY n command.
	TN	I s c u TN of new set
	DN	xxxx DN of new set
	POS	xxxx ACD position ID of new set
AUTO		The new TNs and DNs or ACD position IDs for ACD telephones are provided by the system. You are prompted for the starting TN and DN or ACD position ID for ACD telephones.
	TN	I s c u TN of new set
	DN	xxxx DN of new set
	POS	xxxx ACD position ID of new set

LD 11

Prompt	Response	Comment
SGRP	(0)-999	Scheduled Access Restriction group number This prompt appears with Scheduled Access Restrictions (SAR) package 162. Must have group defined in LD 88.
SPID	x...x	Supervisor Position ID DN SPID is prompted for ACD packages B, C, and D when CLS = AGN. SPID can be up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150.
SPWD	xxxx	Secure Data Password This prompt appears only if the password is defined in LD 15. If the password is not entered, the security codes will not print when PRT is requested.
SSU	0-4095	System Speed Call List number Precede Speed Call list with X to delete.
TEN	1-511	Tenant number This prompt appears if Multi-tenant is configured for the customer.
TGAR	0-(1)-31	Trunk Group Access Restriction: The default of (1) automatically blocks direct access.
THIRD_DN	x...x X	Third DN sharing the Voice Mailbox Third Directory Number. This DN can be up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. Deletes the third directory number
TN	c u	Terminal Number. The TN defines the location of the telephone set. TN appears when REQ = NEW, CHG, MOV, MOV PAIR or OUT. Ranges are: c = 1,3,5,7,8,9,10,11,13,15,17,18,19 ; u = 0-31 Note: Units on Card 10 must be type = 2008 cls = VMA Units 0-23 on all other cards are cls = VCE Units 24-31 are cls = DTA
TOTN	c u	To Terminal Number General TN format This prompt appears when REQ = MOV or MOV PAIR.

Prompt	Response	Comment
TOV		Timeout Value for the Data port, for M2006, M2008, M2216 and M2616 data port only
	(0)	No Timeout
	1	15 minutes
	2	30 minutes
	3	60 minutes
TRAN		Port transmission type for the data port on M2006, M2008, M2216, M2616 telephones
	(ASYN)	Asynchronous data transmission
	SYN	Synchronous data transmission
		Asynchronous data modules cannot be set as synchronous. An MMPO with DTAO, MPDA, or MMPO supports SYN.
TYPE:		Type of data block
		A colon following a prompt indicates Enhanced Processing. Enhanced Processing allows a user to either view a list of possible responses or input an abbreviated response.
<p>Note: LD 11 is linked with LDs 10, 20 and 32. You may enter any of the response options listed for the TYPE prompt in LDs 10 and 20 or any of the commands listed in LD 32. See “Overlay programs 10, 11, 20 and 32 are linked, thus eliminating the need to exit one Overlay and enter another. Once one of the above Overlays has been loaded it is possible to add, print and get the status of a set without having to exit one Overlay and load another.” on page 81 for further information.</p>		
	?	To get a list of possible responses
	2006	M2006 Digital telephone. Rel 15 & later; 1 DN per set.
	2008	M2008 Digital telephone.
	2009	M2009 Digital telephone.
	2016	M2009 Digital telephone
	2018	M2018 Digital telephone.
	2112	M2112 Digital telephone.
	2216	M2216 Digital ACD telephone.
	2616	M2616 Digital telephone.

LD 11

Page 132 of 848 Alphabetical list of prompts

Prompt	Response	Comment
	CARDMLT	Multi-line Telephone Line Card.
	MCU	Meridian Communications Unit.
	OOSMLT	Out of Service Multi-Line Terminal Unit. Entering OOSMLT allows the administrator to mark any unit, regardless of card density or type, "Out of Service".
V25	(NO) YES	V.25 bis option, synchronous mode only.
VLL	(OFF) ON	Virtual Leased Line
VMB	NEW CHG OUT	Voice Mailbox Add Voice Mailbox Change Voice Mailbox Remove Voice Mailbox This prompt appears with Voice Mailbox Administration (VMBA) package 246.
VMB_COS	0-127	Voice Mailbox Class of Service Valid range
WIRE	(OFF) ON	Wire test. Prompted if TYPE = R232 or R422. Wire test disabled System automatically tests wiring/cabling when DAC installed.
XLST	(0)-254	Pretranslation group associated with this station. Valid range
XPLN	xx	Expected name length

LD 12—Attendant Consoles

This program allows data blocks for attendant consoles to be created or modified.

When the overlay is loaded the available system memory and disk records are output in a header as follows:

```
ATT000
MEM AVAIL: (U/P): xxxxxx USED: xxxxx TOT: xxxxxxxx
DISK RECS AVAIL: xxx
```

Incremental Software Management (ISM) also provides a header to indicate system configuration limits. For LD 12, the header appears as follows:

```
TNS AVAIL: xxxxx USED: xxxxx TOT: xxxxx
```

Prompts and responses

Prompt	Response	Comment
REQ	aaa	Request (aaa = CHG, END, MOV)
TYPE	a...a	Type of data block (a...a = 1250, 2250, ATT, or PWR)
TN	c u	Terminal Number (c u ranges are defined on page 139)
SETN	c u	Second Terminal Number (c u ranges are defined on page 139)
CDEN	aa	Card Density of Second Terminal Number (aa = SD or DD)
TOTN	c u	To Terminal Number (c u ranges are defined on page 139)
CUST	(0)	Customer number
ANUM	1-63	Attendant Number
ALPD	(NO) YES	Alphanumeric Display
DLEN	xx	Display Length (aa = (8) or 16)
SSU	yyyy	System Speed Call User list number
ICDR	(ICDD) ICDA	Internal Call Detail Recording (Denied) Allowed
- ABAN	(ABDD) ABDA	Abandoned call record and time to answer (Denied) Allowed
CPND	(CNDD) CNDA	Call Party Name Display feature (Denied) Allowed
- DNDI	(DNDD) DNDA	Dialed Name Display (Denied) Allowed
LANG	(00)-15	Language to download to M2250 on Sysload
EBLF	(BLFD) BLFA	Enhanced Busy Lamp Field (Denied) Allowed
SGRP	(0)-999	Scheduled Access Restriction Group number
AADN	xxxx	Attendant Alternate Answering DN
KEY	xx aaa yyyy	Key (KEY responses begin on page 136)

Alphabetical list of prompts

Prompt	Response	Comment
AADN	x...x	Attendant Alternate Answering DN This DN can be up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. The DN must be a valid station DN or ACD DN. This prompt appears with Attendant Alternative Answering (AAA) package 174.
ABAN	(ABDD) ABDA	Abandoned call record and time to answer Denied Abandoned call record and time to answer Allowed ABDA generates a B-Record in CDR reports. Refer to the <i>Call Detail Reporting</i> NTP for more information. ABAN appears with New Format Call Detail Recording (FCDR) package 234.
ALPD	(NO) YES	Alphanumeric Display QCW3 Attendant Console QCW4 Attendant Console This prompt appears when TYPE = ATT.
ANUM	1-63	Attendant Number
CPND	(CNDD) CNDA	Call Party Name Display feature Denied Call Party Name Display feature Allowed Prompted when TYPE = 1250/2250 and has Calling Party Name Display (CPND) package 95 and OPT = IDP in LD 15.
CUST	(0)	Customer number
DLEN	(8) 16	Display Length QCW2 Attendant Console QCW3 or QCW4 Attendant Console Prompted when TYPE = ATT. DLEN applies for only a QCW type console.
DNDI	(DNDD) DNDA	Dialed Name Display Denied Dialed Name Display Allowed Prompted if TYPE is 1250/2250 and CPND = CNDA.
EBLF	(BLFD) BLFA	Enhanced Busy Lamp Field Denied Enhanced Busy Lamp Field Allowed

LD 12

Prompt	Response	Comment
		Prompted when TYPE = 1250/2250 and OPT = IBL or ILF in LD 15.
ICDR	(ICDD) ICDA	Internal Call Detail Recording Denied Internal Call Detail Recording Allowed ICDA generates an L-Record in CDR reports. Refer to the <i>Call Detail Reporting</i> NTP for more information. ICDR is prompted with Internal Call Detail Recording (ICDR) package 108.
KEY	xx aaa yyyy	Console Key. Where: <ul style="list-style-type: none">• xx = key number 0-9 for QCW consoles, 0-19 for M1250 and M2250 consoles• aaa = key name or function• yyyy = additional information required for the key
	xx ADL yy z...z	Autodia key. Where: <ul style="list-style-type: none">• xx = key number• yy = maximum length of the ADL DN. The maximum length is 31 digits.• z...z = actual Autodial DN is optional
	xx BKI	Break-In key
	00 BVR	Allow Busy Verify on key 0.
	xx CHG	Charge account key
	xx COS	Controlled Class of Service key
	xx CPN	Calling Party Number key
	xx DCW	Display Call Waiting key
	xx DDL	Do Not Disturb Individual key
	xx DDT	Display Date key
	xx DPD	Display Destination key
	xx DPS	Display Source key
	xx DRC	DID Route Control key

Prompt	Response	Comment
xx DTM		Display Time key
xx EES		End-to-End Signaling key (cannot be key 0 or 1)
xx GND yy		Group Do Not Disturb key Where: yy = group number = 0-99
xx MCK		Message Cancellation Key. Turns off indication at a telephone.
xx MDT		Maintain Change/Display Date key
xx MIK		Message Indication Key Turns on indication at a telephone.
xx MTM		Maintain Change/Display Time key
xx NAS		Network Attendant Service key
xx NUL		Remove feature or function from key
xx PAG yyyy		Paging key Where: yyyy = Route Access Code. This number can be up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. The route must be defined in LD 16.
xx PRG		Attendant Administration Program key
xx PRK		Call Park key
xx RDL		Redial stored number
xx RFW		Attendant Remote Call Forward key
xx RTC		Routing Controls key This key will activate the NCOS map defined in LD 86. Must have Network Class of Service (NCOS) package 32.
xx SACP		Semi-Automatic Camp-On key Must have Semi-Automatic Camp-On (SACP) package 181.

LD 12

Prompt	Response	Comment
	xx SCC yyyy	Speed Call Controller key Where: yyyy = list number = 0-8190.
	xx SECL	Series Call key Must have Series Call (SECL) package 191
	xx SSC yyyy	System Speed Call controller key Where: yyyy = list number = 0-4095.
	xxTHF	Trunk Switch Hook Flash key
	xx TRC	Malicious Call Trace key Must have Malicious Call Trace (MCT) package 107.
LANG	(00)-15	Language to download to M2250 on Sysload Language choices: <ul style="list-style-type: none">• (00) - English• 01 - French• 02 - Spanish• 03 - German• 04 - Italian• 05 - Norwegian• 06 - Gaelic• 07 - Turkish• 08 - Katakana• 09 - People's Republic of China• 10 - Taiwan• 11 - Korean• 12 - Polish• 13 - Czech/Slovak• 14 - Hungarian• 15 - No language assigned
REQ	CHG	Request
	END	Change existing data
	MOV	Exit overlay program
	NEW	Move from one TN to another. CAUTION: There is a possibility of data corruption when consoles are moved using this response.
		Add new data to the system

Prompt	Response	Comment
SETN	c u	Second Terminal Number General TN format SETN must have same card as the primary TN .
SGRP	(0)-999	Scheduled Access Restriction (SAR) Group number Prompted with SAR package 162. Must have group defined in LD 88.
SSU	yyyy	System Speed Call User list number Where: yyyy = 0-4095.
TN	c u	Terminal Number. The TN defines the location of the console. The range values are as follows: c = 1,3,5,7,8,9,11,13,15,17,18,19; u = 0-23.
TOTN	c u	To Terminal Number General TN format For Meridian: c u = card, unit TOTN is prompted when REQ = MOV. TOTN cannot be a phantom loop.
TYPE		Type of data block
	2250	M2250 Console data block M2250 requires an ISDL Card or a Digital Line Card.
	PWR	Power data block TN used for power or Attendant Supervisory Module (ASM). Third and fourth TNs used for power, or third TN for ASM and fourth and fifth TNs used for power.

LD 12

Page 140 of 848 Alphabetical list of prompts

LD 13—Digitone Receivers, Tone Detectors, Multifrequency Senders and Receivers

This program enables the administrator to create or modify data blocks for the following:

- Digitone Receivers (DTR)
- Multifrequency Receivers (MFR)

These cards are used by 2500-type telephones and trunks that send DTMF tones to the system, and by MF trunks to send MF tones to the system. All 2500 sets and some trunks must have Class of Service (CLS) defined as Digitone (DTN).

When the overlay is loaded the available system memory and disk records are output in a header as follows:

```
DTR000
MEM AVAIL: (U/P): xxxxxx  USED: xxxxx  TOT: xxxxxxxx
DISK RECS AVAIL: xxx
```

Incremental Software Management (ISM) also provides a header to indicate system configuration limits. For LD 13, the header appears as follows:

```
TNS AVAIL: xxxxx  USED: xxxxx  TOT: xxxxx
```

Prompts and responses

Prompt	Response	Comment
REQ	aaa	Request (aaa = CHG, END, MOV, NEW, or OUT)
TYPE	a...a	Type of data block (a...a = MFR)
TN	c u	Terminal Number (c u ranges are defined on page 143)
TOTN	c u	To Terminal Number (c u ranges are defined on page 143)

Alphabetical list of prompts

Prompt	Response	Comment
REQ	CHG END MOV	Request Change existing data Exit overlay program Move from one TN to another CAUTION: There is a possibility of data corruption when Digitone Receivers are moved using this response.
	NEW OUT	Add new data to the system Remove information from data block
TN	c u	Terminal Number
TOTN	c u	To Terminal Number
TYPE		Type of data block
	DTR	Digitone Receiver data block
	MFR	Multifrequency Receiver data block MFR applies to Feature Group D. Up to 255 MF Receivers can be defined. Only units 0 and 1 can be used. Feature Group D (FGD) package 158 is required.

LD 13

Page 144 of 848 Alphabetical list of prompts

LD 14—Trunk Data Block

This program allows data blocks for trunks to be created or modified.

When the Overlay is loaded the available system memory and disk records are output in a header as follows:

```
TRK000
MEM AVAIL: (U/P): xxxxxx USED: xxxxx TOT: xxxxxxxx
DISK RECS AVAIL: xxx
TNS AVAIL: (U/P): xxxxxxx USED: xxxxx TOT: xxxxxxxx
```

Incremental Software Management (ISM) also provides a header to indicate system configuration limits. For LD 14, the header appears as follows:

```
TNS AVAIL: xxxxx USED: xxxxx TOT: xxxxx
```

After making any changes to the trunk data block, IPE trunk cards must be downloaded with **ENLC c** command in LD 32.

Inputting one asterisk will cause the system to reissue the last prompt, and two asterisks will cause a restart of the Overlay at REQ.

Prompts and responses

Prompt	Response	Comment
REQ	a...a	Request (a...a = CHG, END, MOV, LCHG, NEW x, or OUT x)
TYPE	a...a	Type of data block (TYPE responses begin on page 157)
T_TN	l ch	Loop number and channel for tandem PRI connection
- IPRI	l ch	Loop number and channel for incoming PRI channel
- OPRI	l ch	Loop number and channel for outgoing PRI channel
TN	c u	Terminal Number (c u ranges are defined on page 157)
DES	x...x	Designator field for trunk (0-16 character alphanumeric)
CDEN	aa	Card Density (aa = 4D)
XTRK	a...a	Extended Trunk (a...a = EXUT)
FWTM	(NO) YES	Firmware Timing for trunk hook flash
SXS	(NO) YES	Step-by-step CO trunk
TOTN	c u	To Terminal Number
SIGL	aaa	Level 3 Signaling
CUST	0	Customer number
SFEX	(NO) YES	Special digital FEX trunk
NCOS	xx	Network Class of Service group
RTMB	0-127 1-254	Route number, Member number
PRDN	xxxx	Private Line Directory Number
CMF	(NO) YES	Call Modification Features restriction
NGRP	(0)-9	Night Service Group number
NITE	xxxx	Night Service directory number
ATDN	xxxx	Auto Terminate DN
AST	(NO) YES	Associated trunk for CTI Trunk Monitoring and Control.
IAPG	(0) - 15	Event Group for USM message.
MNDN	xxxx	Manual Directory Number
TGAR	0-(1)-31	Trunk Group Access Restriction
SIGL	aaa	Trunk Signaling (SIGL responses begin on page 153)
XDIC	aaa	Outpulsing for DIC trunks (aaa = (MUT) or NOR)
EMTY	aaa	E & M Type (aaa = (TY2), TY1, or BPO)

CPAD	a...a	Carrier Pad out or Carrier Pad in for 4-wire E & M duplex trunks (a...a = (COUT) or CIN)
LDOP	a...a	Loop Dial Outpulsing (a...a = (LOOP) or BOP)
TIMP	x...x	Termination Impedance
BIMP	a...a	Balance Impedance (a...a = (3COM), 600, 900, or 3CM2)
STRI	a...a	Start arrangement Incoming (a...a = DDL, IMM, OWK, PTSD, SACK, RT, or WNK)
STRO	a...a	Start arrangement Outgoing (a...a = DDL, IMM, OWK, PTSD, SACK, RT, or WNK)
SUPN	(NO) YES	Answer and disconnect Supervision required
- STYP	a...a	Supervision Type (a...a = ARF, BAT, BST, BTS, JDID, JCO, LBS, PIP, and PSP)
CLS	a...a	Class of Service (CLS responses begin on page 148)
FCAR	(NO) YES	Forced Charge Account
ADID	xxxx	AIOD four-digit Trunk Identifier
CFLP	0-159	Music Conference Loop

Alphabetical list of prompts

Prompt	Response	Comment
AST	(NO) YES	Associated trunk for CTI Trunk Monitoring and Control.
ATDN	x...x	Auto Terminate DN This DN can be up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. A Group Hunt pilot DN can be entered. If a DNIS route is defined, then the response can only be an ACD DN. If no DN is assigned, the NITE number of the trunk will be used. Must have AUTO = YES in LD 16.
BIMP	(3COM) 600 900 3CM2	3-component Complex Impedance Not prompted for RAN which exclusively uses 600 Not prompted for XEM trunks For XUT trunks, the Termination Impedance (TIMP) must be compatible with the Balance Impedance (BIMP). See prompt TIMP for allowed combinations of BIMP/TIMP. When using the Enhanced Universal Trunk card , only 600 or 900 Ω terminating impedance is allowed. However, more Terminating and Balance Impedance (BIMP) combinations are available. The Terminating and Balance Impedance options are listed below. <u>TIMPBIMP</u> 600 600 600 3COM 900 3COM 900 900 900 3CM2 600 3CM2
CFLP	29,30,31,62	Music Conference Loop
CLS		Class of Service options for trunks. Defaults are shown in parantheses. Enter each non-default option required, followed by a space.
	(APN) APY	ACD Priority not required ACD Priority required

Prompt	Response	Comment
		Applies only to COT, WAT, DID and FEX trunks.
(DIP)	Dial Pulse	
DTN	Digitone	
MFR	Multifrequency Receiver for Feature Group D	
(ECD)	Echo Canceling Denied	
ECA	Echo Canceling Allowed	
		ECA indicates Echo suppression equipment is connected to trunk.
(LNT)	Loop Start Non-supervisory Trunk	
JDID	Japan DID (JDID not valid for XCOT trunks)	
JCO	Japan CO capabilities allowed. JCO should only be accepted with SIGL = LOP. Japan PSTN trunks, (QPC686), not allowed for XUT/XEM.	
		Answer NO to prompt SUPN for an unsupervised trunk, instead of using LNT. For supervised trunks answer YES to SUPN then enter the appropriate supervision type at prompt STYP.
(LPR)	Low Priority	
HPR	High Priority	
		DID and TIE trunks should use HPR and be installed in card slot 1. Superloops do not require any trunks assigned as high priority.
(MID)	Manual Incoming Denied	
MIA	Manual Incoming Allowed	
		Make-break ratio for dial pulse dialing
(P10)	10 pulses per second	
P12	(see explanation below)	
P20	20 pulses per second	
		All three make-break ratios can be set for XUT, XUTJ and XEM trunks. See prompts P10R, P12R and P20R in LD 97.
		Use P10 for PPS1 and P12 for PPS2 XUT/XEM trunks. P12 applies only to XUT, XUTJ and XEM trunks.
(THFD)	Centrex Switchhook Flash Denied	
THFA	Centrex Switchhook Flash Allowed	

LD 14

Prompt	Response	Comment
	(TRC) NTC VNL	Transmission Class of Service Transmission Compensated Non-Transmission Compensated Via Net Loss The default depends on the signaling type (SIGL) <ul style="list-style-type: none">• DX2 = VNL• DX4 = VNL• EAM = VNL• EM4 = VNL• GRD = NTC• LDR = NTC• LOP = NTC• OAD = NTC VNL Class of Service is allowed with Universal Trunk Tie trunks. <ul style="list-style-type: none">• NTC and VNL are equivalent to TIE designation• TRC is equivalent to LINK designation• TIE = PBX-PBX connections via leased line• LINK = PBX-PBX connections on-premises
	(CTD) CUN FR1 FR2 FRE SRE TLD UNR	Conditionally Toll Denied. CTD is the default for trunk types: TIE, CSA, ATVN, FGD, and IDA Conditionally Unrestricted Fully Restricted class 1 Fully Restricted class 2 Fully Restricted Semi-Restricted Toll Denied Unrestricted. Only UNR is allowed for CO, FX and WATS trunks. UNR is the default for all trunk types <i>except</i> : TIE, CSA, ATVN, FGD, and IDA
	(WTA) WTD	Warning Tone Allowed Warning Tone Denied
CMF	(NO) YES	Call Modification restriction Call Modifications allowed Call Modifications not allowed

Prompt	Response	Comment
CPAD	(COUT) CIN	Carrier Pad Out for 4-wire E & M duplex trunks Carrier Pad In for 4-wire E & M duplex trunks With CPAD = CIN, a 7 dB pad attenuates the trunk input and a 16 dB pad attenuates the trunk output.
CUST	0	Customer number
DES	x...x	Designator field for trunk groups of 0-16 alphanumeric characters (DES is an optional entry)
EMTY	(TY2) TY1 X	E & M Type 4-wire E&M Type 2 4-wire E&M Type 1 Precede with X to delete
FCAR	(NO) YES	Forced Charge Account
FWTM	(NO) YES	Firmware Timing for Trunk Hook Flash is not used by the card Firmware timing for Trunk Hook Flash is used by the card This prompt appears if Collect Call Blocking (CCB) package 290, Malicious Call Trace (MCT) package 107 or Trunk Hook Flash (THF) package 157 are enabled.
IAPG	(0) - 15	Event Group for USM message.
IPRI	I ch	Incoming PRI channel This is the PRI channel through which the Meridian 1 gains access to the PSPDN. Where: <ul style="list-style-type: none"> • Loop = PRI loop number • Channel = PRI channel that holds the incoming nailed up connection (between 1-23)
LDOP	(LOOP) BOP	Loop Dial Outpulsing Loop outpulsing for Loop Dial Repeating signalling Battery Outpulsing for Loop Dial Repeating signalling
MNDN	x...x	Manual Directory Number This DN can be up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. A Group Hunt pilot DN can be entered. CLS should be MIA.

LD 14

Prompt	Response	Comment
MTN	c u	This Modem Terminal Number can be up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. A Group Hunt pilot DN can be entered. CLS should be MIA.
NCOS	(0)-99	Network Class of Service group
NGRP	(0)-9	Night Service Group number NGRP appears when ENS = YES in LD15. This prompt replaces the NITE prompt. If ENS is changed from NO to YES while Night Service is in effect, the system verifies that the NITE number defined is a group number or a DN. If a night DN or 0000 is defined, the existing NITE number is used.
NITE	x...x	Night Service directory number This DN can be up to 4 digits, up to seven digits with Directory Number Expansion (DNXP) package 150. A Group Hunt pilot DN can be entered. Night Service applies to trunks terminating at the attendant. This prompt takes precedence over the NITE and NIT1-NIT4 prompts in LD 15. If a DN is defined here, the call goes to this DN. If there is no DN here, the call goes to the defined LD 15 NITE prompts. Precede with X to remove.
OPRI	l ch	Outgoing PRI channel (the PRI channel through which the Meridian 1 gains access to the PSPDN) Where: Loop = PRI loop number and Channel = PRI channel that holds the outgoing nailed up connection (between 1-23).
PRDN	x...x	Private Line Directory Number PRDN must be defined in LD 11. This DN can be up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150.

Prompt	Response	Comment
REQ		Request
	CHG	Change existing data block
	END	Exit overlay program
	LCHG	Print date and time that a trunk data block was last changed. The change can be the result of a NEW, OUT, or CHG command.
	MOV	Move data block from one TN to another. MOV cannot be used to move a Phantom TN.
	NEW x	Add new data block to the system. Follow NEW with a value of 1-255 to create that number of consecutive trunks. You are not allowed to create more than one Phantom TN at a time. When a value different than 1 is entered for the creation of a Phantom TN, it is simply ignored and only one TN is created.
	OUT x	Remove data block. Follow OUT with a value of 1-255 to remove that number of consecutive trunks.
RLDN	x...x	Release Link trunk Directory Number This DN can be up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150.
RTMB	0-127 1-254	Route number and Member number B-Channel Signaling is output if CHTY = BCH in LD 16. A/B Bit Signaling is output if CHTY = ABCH in LD 16. To use the ISDN Semi Permanent Connection (ISPC) link, this entry must be an ISL TIE route.
SFEX	(NO) YES	Special digital FEX trunk This is used on Digital Trunk Interface (DTI).
SIGL		Level 3 signaling
	DX2	2-wire duplex
	DX4	4-wire duplex. The Enhanced Universal Trunk card uses DX4 signaling.
	EAM	E&M 2-wire
	EM4	E&M 4-wire
	GRD	Ground start
	LDR	Loop Dial Repeating
	LOP	Loop start
	OAD	Outgoing Automatic, incoming dial

Prompt	Response	Comment
STRI		<p>Start arrangement Incoming</p> <p>Your response to STRI determines which type of signaling will be used by the trunk to initiate digit sending or collection. Your STRI response should reflect the type of operation in use at the near end.</p>
DDL		<p>Delayed Dial</p> <p>The terminating trunk returns an off-hook to the originating trunk, which is interpreted as an instruction not to send digits immediately. This delay allows the terminating end to find and attach digit collections equipment. When the equipment is attached, the terminating end returns on-hook which is interpreted as a signal to start sending digits.</p> <p>For this application on incoming calls, the Meridian SL-1 sends a non-programmable 256-384 ms pulse. For outgoing calls, the Meridian SL-1 expects a delay-dial pulse from the far end to terminate before sending digits. Some types of delay-dial operation can also be accommodated by the IMM option.</p>
IMM		<p>Immediate</p> <p>The terminating trunk is not expected to return a pulse telling the originating end to begin sending digits. In this application for incoming calls, the Meridian SL-1 returns a 256-384 ms off-hook/on-hook wink to the far end. This wink accommodates certain types of delay-dial operation.</p> <p>For outgoing calls, the Meridian SL-1 starts a 300 ms timer when the outgoing trunk is seized. Digits are sent out when an off-hook/on-hook wink returned from the far end ends, or when the 300 ms timer expires (whichever occurs first).</p>
OWK		<p>Off-Hook Wink for RLR trunks equipped with signaling converter</p> <p>This mode of operation is similar to wink except that the Meridian SL-1 waits one second after seizure before sending a wink start pulse. This arrangement applies only to release link remote trunks.</p>

Prompt	Response	Comment
	WNK	<p>Wink or Fast Flash</p> <p>The terminating trunk sends an off-hook/on-hook wink as in DDL operation. However, in WNK operation the pulse is interpreted as a signal that digit collection equipment has been attached. The pulse is expected to be of 140-290 ms duration.</p> <p>For this application, the Meridian SL-1 first waits 128-256 ms after seizure and then returns a 256 ms pulse to the far end. After this , the Meridian SL-1 is ready to collect digits. On outgoing calls, the Meridian SL-1 waits until the wink pulse is finished before sending digits.</p>
STRO		<p>Start arrangement Outgoing</p> <p>Your response to STRO determines which type of signaling will be used by the trunk to initiate digit sending or collection. Your STRO response should reflect the type of operation in use at the far end.</p>
	DDL	Delayed Dial
	IMM	Immediate
	OWK	Off-Hook Wink for RLR trunks equipped with signaling converter
	WNK	Wink or Fast Flash
STYP		<p>Supervision Type. STYP is prompted when SUPN = YES.</p> <p>For IPE equipment or with XUT/EXUT, only one of BST, PIP, JDID, or JCO will be accepted.</p>
	BST	<p>Both Supervised Trunk</p> <p>Incoming and Outgoing supervised LOP CO/FEX/WATS trunk. BST and PIP are mutually exclusive.</p>
	(PSP)	<p>Polarity Sensitive Pack. PSP is the default when SIGL = GRD.</p> <p>Outgoing supervised LOP or GRD start CO/FEX/WATS trunk</p>
	(PIP)	<p>Polarity Insensitive Pack. PIP is the default when SIGL = LOP.</p> <p>Outgoing supervised Loop start CO/FEX/WATS trunk. PIP and BST are mutually exclusive.</p>

LD 14

Prompt	Response	Comment
SUPN	(NO) YES	<p>Answer and disconnect supervision required</p> <p>For ground start trunks disconnect supervision is detected even if SUPN = NO.</p> <p>The operation of answer supervision is affected if Federal Communications Commission Compliance for DID Answer Supervision (FC68) package 223 is equipped.</p> <p>SUPN will automatically be prompted YES for DID LOP.</p>
SXS	(NO) YES	<p>Step-by-step CO trunk</p> <p>Only prompted for Universal Trunks XTRK or XUT when TYPE = CO.</p> <p>The central office reverses polarity on outgoing calls.</p>
T_TN	I ch	<p>Tandem PRI connection. Where:</p> <ul style="list-style-type: none">• Loop = PRI loop number• Channel = PRI channel that holds the outgoing nailed up connection (between 1-23) <p>If the connection exists, both channels are displayed. Prompted if TYPE = TCON.</p>
TGAR	0-(1)-31	<p>Trunk Group Access Restriction</p> <p>The default of (1) automatically blocks direct access.</p>
TIMP	(600) 900 1200	<p>Termination Impedance. Prompted if XTRK = XEM or XUT.</p> <p>600 ohms 900 ohms 1200 ohms</p> <p>Use 1200 ohms for RAN trunks and (600) or 900 for all others.</p> <p>When using the Enhanced Universal Trunk card , only 600 or 900 Ω terminating impedance is allowed. However, more Terminating and Balance impedance (BIMP) combinations are available.</p>

Prompt	Response	Comment																								
		<p>The terminating and balance impedance options are:</p> <table><tr><th><u>TIMP</u></th><th><u>BIMP</u></th></tr><tr><td>600</td><td>600</td></tr><tr><td>600</td><td>3COM</td></tr><tr><td>900</td><td>3COM</td></tr><tr><td>900</td><td>900</td></tr><tr><td>900</td><td>3CM2</td></tr><tr><td>600</td><td>3CM2</td></tr></table> <p>For XUT trunks, the Termination Impedance or TIMP must be compatible with the Balance Impedance or BIMP. The following combination of BIMP/TIMP are allowed:</p> <table><tr><th><u>Timp Impedance</u></th><th><u>Bimp Impedance</u></th></tr><tr><td>600 ohms</td><td>3-component or 3com</td></tr><tr><td>900 ohms</td><td>3-component or 3com</td></tr><tr><td>600 ohms</td><td>600 ohms</td></tr><tr><td>1200 ohms</td><td>600 ohms</td></tr></table> <p>For XEM trunks, TIMP must be set to 600. When CLS = JDID, TIMP must be set to 600.</p>	<u>TIMP</u>	<u>BIMP</u>	600	600	600	3COM	900	3COM	900	900	900	3CM2	600	3CM2	<u>Timp Impedance</u>	<u>Bimp Impedance</u>	600 ohms	3-component or 3com	900 ohms	3-component or 3com	600 ohms	600 ohms	1200 ohms	600 ohms
<u>TIMP</u>	<u>BIMP</u>																									
600	600																									
600	3COM																									
900	3COM																									
900	900																									
900	3CM2																									
600	3CM2																									
<u>Timp Impedance</u>	<u>Bimp Impedance</u>																									
600 ohms	3-component or 3com																									
900 ohms	3-component or 3com																									
600 ohms	600 ohms																									
1200 ohms	600 ohms																									
TN	c u	Terminal Number c = 1,3,5,11,13,15; u = 0-3																								
	l ch	Loop and channel for digital trunks, where: <ul style="list-style-type: none">• l = loop 1,3,5; ch = channel 1-24 for 1.5 Mb/s DTI/PRI																								
TOTN		To Terminal Number. TOTN is prompted when REQ = MOV. TOTN cannot be a phantom loop.																								
	c u	General TN format																								
	l ch	New loop and channel for digital trunks.																								
TYPE	ADM	Add-on Data Module data block Data port interfacing with a data line card																								
	AWR	Automatic Wake Up RAN/Music trunk data block.																								
	CAA	Common Control Switching Arrangement (CCSA) Automatic Number Identification (ANI) trunk data block																								
	CAM	CAMA trunk data block																								
	COT	Central Office Trunk data block																								

LD 14

Prompt	Response	Comment
CSA		Common Control Switching Arrangement access line data block
DIC		Dictation trunk data block
DID		Direct Inward Dial trunk data block. Per FCC regulations, DID trunks used in the U.S. must be properly designated for answer supervision. Refer to FCC Compliance for DID Answer Supervision in X11 features and services..
FEX		Foreign Exchange trunk data block
FGDT		Feature Group D Trunk data block
ISA		Integrated Services Access trunk data block. Also called Call-By-Call service trunk type. There is no provision against the use of non-QPC237 trunk types for the analog ISA service route. Only TIE and ISA trunks are applicable for directly connecting SL-1 PBX to SL-1 PBX.
MCA		Meridian Communications Adapter.
MCU		Meridian Communications Unit.
MDM		Modem/Data Module data block. Data port interfacing with QPC60 500/2500 type card.
MUS		Music trunk data block
PAG		Paging trunk data block
RAN		Recorded Announcement trunk data block
RCD		Recorder trunk data block
RLM		Release Link Main trunk data block
RLR		Release Link Remote trunk data block
TCON		Tandem Connection for MPH and PRI connections
TIE		TIE trunk data block

Prompt	Response	Comment
	WAT	Wide Area Telephone Service trunk data block
XDIC	(MUT)	Mute outpulsing for DIC trunks
	NOR	Normal outpulsing for DIC trunks
XTRK		Extended trunk. Prompted for superloops when defining the first unit.
	EXUT	Enhanced Extended Universal Trunk

LD 14

Page 160 of 848 Alphabetical list of prompts

LD 15—Customer Data Block

This program allows data blocks for customers to be created or modified. When the Overlay is loaded, the available system memory and disk records are output in a header as follows:

CDB000

MEM AVAIL: (U/P): xxxxxx USED: xxxxx TOT: xxxxxxxx

DISK RECS AVAIL: xxx

Overlay program 15 allows changes to be made by entering the desired gate opener mnemonic at the TYPE: prompt. The prompt sequence associated with that gate opener is then prompted in the usual manner. Once the end of the sub prompts has been reached, the Customer Data Block is updated and saved.

Enhanced input processing is applied to the REQ: and TYPE: prompts in LD 15. Thus, if the prompt ends with a colon a list of possible responses may be obtained by entering ? followed by a carriage return. The REQ: and TYPE: prompts also accept abbreviated responses, thus allowing the user to only enter the first three unique characters of the gateway name.

Prompts and responses

Table of Contents

Section	Page
Prompts and responses	
Customer data block	page 163
Default Customer Data Block	page 164
Data Block: AML (Application Module Link)	page 164
Data Block: ANI (Automatic Number Identification)	page 165
Data Block: ATT (Attendant Consoles)	page 165
Data Block: CCS (Controlled Class of Service)	page 166
Data Block: CDR (Call Detail Recording)	page 167
Data Block: FCR (Flexible Code Restriction)	page 168
Data Block: FFC (Flexible Feature Codes)	page 168
Data Block: FTR (Features and options)	page 169
Data Block: IMS (Integrated Message Service)	page 170
Data Block: INT (Intercept Treatments)	page 170
Data Block: LDN (Listed Directory Numbers)	page 172
Data Block: MPO (Multi-Party Operations)	page 173
Data Block: NET (Networking)	page 174
Data Block: NIT (Night Service)	page 176
Data Block: OAS (Off Hook Alarm Security)	page 176
Data Block: PWD (Password)	page 177
Data Block: RDR (Call Redirection)	page 178
Data Block: ROA (Recorded Overflow Announcement)	page 179
Data Block: TIM (Timers)	page 180
Data Block: TST (Test lines)	page 181

Prompts and responses

Customer data block

Prompt	Response	Comment
REQ:	CHG	Change existing data block
TYPE:	CDB	Customer Data Block
CUST	0	Customer number
AML_DATA	(NO) YES	Change Application Module Link options (page 164)
ANI_DATA	(NO) YES	Change Automatic Number Identification numbers (page 165)
ATT_DATA	(NO) YES	Change Attendant Console options (see p. page 165)
CCS_DATA	(NO) YES	Change Controlled Class of Service options (page 166)
CDR_DATA	(NO) YES	Change CDR and Charge Account options (page 167)
FCR_DATA	(NO) YES	Change New Flexible Code Restriction options (see p. page 168)
FFC_DATA	(NO) YES	Change Flexible Feature Code options (page 168)
FTR_DATA	(NO) YES	Change Features and options (page 169)
IMS_DATA	(NO) YES	Change Intergraded Message Service options (page 170)
INT_DATA	(NO) YES	Change Intercept treatment options (page 170)
LDN_DATA	(NO) YES	Change Departmental Listed Directory Numbers (page 172)
MPO_DATA	(NO) YES	Change Multi-Party Options (page 173)
NET_DATA	(NO) YES	Change ISDN and ESN Networking options (page 174)
NIT_DATA	(NO) YES	Change Night Service options (page 176)
OAS_DATA	(NO) YES	Change Off-Hook Alarm Security options (see p. page 176)
PWD_DATA	(NO) YES	Change Customer related Passwords (page 177)
RDR_DATA	(NO) YES	Change Call Redirection (see p. page 178)
ROA_DATA	(NO) YES	Change Recorded Overflow Announcement options (page 179)
TIM_DATA	(NO) YES	Change Timers (page 180)
TST_DATA	(NO) YES	Change Test lines (page 181)

Note: This *Prompts and responses* table does not list prompts which appear under each gate opener. To find prompts which appear under a given gate opener, refer to the page listed in the *Comment* section of this table.

Default Customer Data Block

Prompt	Response	Comment
REQ:	NEW	Request = NEW
TYPE:	DEFAULT	Type = DEFAULT (Default Customer Data Block)
CUST	0	Customer number
ANI_DATA		Automatic Number Identification prompts are automatically output when adding a new customer
ANAT	x...x	ANI billing number for attendants making ANI calls
ANLD	x...x	ANI Listed DN

Data Block: AML (Application Module Link)

Prompt	Response	Comment
REQ:	CHG	Change existing data block
TYPE:	AML_DATA	Application Module Link
CUST	0	Customer number
OPT	a..a	Options (OPT responses begin on page 209)
VSID	0-15	Value-Added Server Identifier
GP02	n n n n n n	Group 2 status events 1, 2, 3, 4, 5 or 6 assigned
GP03	n n n n n n	Group 3 status events 1, 2, 3, 4, 5 or 6 assigned
GP04	n n n n n n	Group 4 status events 1, 2, 3, 4, 5 or 6 assigned
GP05	n n n n n n	Group 5 status events 1, 2, 3, 4, 5 or 6 assigned
GP06	n n n n n n	Group 6 status events 1, 2, 3, 4, 5 or 6 assigned
GP07	n n n n n n	Group 7 status events 1, 2, 3, 4, 5 or 6 assigned
GP08	n n n n n n	Group 8 status events 1, 2, 3, 4, 5 or 6 assigned
GP09	n n n n n n	Group 9 status events 1, 2, 3, 4, 5 or 6 assigned
GP10	n n n n n n	Group 10 status events 1, 2, 3, 4, 5 or 6 assigned
GP11	n n n n n n	Group 11 status events 1, 2, 3, 4, 5 or 6 assigned
GP12	n n n n n n	Group 12 status events 1, 2, 3, 4, 5 or 6 assigned
GP13	n n n n n n	Group 13 status events 1, 2, 3, 4, 5 or 6 assigned
GP14	n n n n n n	Group 14 status events 1, 2, 3, 4, 5 or 6 assigned
GP15	n n n n n n	Group 15 status events 1, 2, 3, 4, 5 or 6 assigned

Data Block: ANI (Automatic Number Identification)

Prompt	Response	Comment
REQ:	CHG	Change existing data block
TYPE:	ANI_DATA	Automatic Number Identification
CUST	0	Customer number
ANAT	x...x	ANI Attendant Billing number
ANLD	x...x	ANI Listed Directory Number

Data Block: ATT (Attendant Consoles)

Prompt	Response	Comment
REQ:	CHG	Change existing data block
TYPE:	ATT_DATA	Attendant Consoles
CUST	0	Customer number
OPT	a...a	Options (OPT responses begin on page 209)
ATDN	(0)-x...x	Attendant Directory Number
NCOS	(0)-99	Network Class of Service for all attendant consoles for this customer
CWUP	(NO) YES	Call Waiting queue Update
CWCL	(0)-255 (0)-255	Call Waiting Call Limit
CWTM	(0)-511 (0)-511	Call Waiting Time
CWBZ	(NO) YES (NO) YES	Call Waiting Buzz
MATT	(NO) YES	Consoles used as Message Center
LFTN	c u	Lamp Field array Terminal Number
LFTN	c u	Second Lamp Field array Terminal Number
LFFD	x00...x00	First Directory Number of lamp field array
ATIM	(0)-126	Attendant Alternative Answering Timer
AQTT	1-(30)-255	Attendant Queue Timing Threshold in seconds
AODN	x...x	Attendant Overflow DN
SPVC	(0)-63	Supervisory Console
- SBLF	(NO) YES	Standard Busy Lamp Field
RTSA	aaaa	Recall To Same Attendant (aaaa = (RSAD), RSAA, or RSAX)
SACP	aaaa	Semi-Automatic Camp-On (aaaa = (NO), ALL, or SNGL)

LD 15

ABDN	(NO) YES	Activation of the Attendant Blocking of DN feature
IRFR	(NO) YES	Internal Attendant Remote Call Forward Password
- IRFP	x...x	Internal Attendant Remote Call Forward Password
XRFR	(NO) YES	External Attendant Remote Call Forward Password
- XRFP	x...x	External Attendant Remote Call Forward Password
AFNT	(0)-126	Attendant Forward No Answer Timer (must be an even number)
AFBT	(0)- <i>AFNT</i>	Attendant Forward Buzz Tone (Entry can be equal to or less than response to AFNT prompt and must be an even number)
ICI	0-19 aaaa	Attendant Incoming Call Indicators
RICI	xx xx...	ICI key numbers that may receive Recorded Overflow Announcement

Data Block: CCS (Controlled Class of Service)

Prompt	Response	Comment
REQ:	CHG	Change existing data block
TYPE:	CCS_DATA	Controlled Class of Service
CUST	(0)	Customer number
CCRS	aaa	Controlled Class of Service (CCOS) Restricted Service (aaa = (UNR), CTD, FR1, FR2, FRE, SRE, or TLD)
ECC1	aaa	Enhanced Controlled Class of Service level 1 (aaa = (UNR), CTD, FR1, FR2, FRE, SRE, or TLD)
ECC2	aaa	Enhanced Controlled Class of Service level 2 (aaa = (UNR), CTD, FR1, FR2, FRE, SRE, or TLD)
CNCS	0-99	Network Controlled Class of Service for Electronic Lock
PELK	(NO) YES	Electronic Lock on Private Lines

Data Block: CDR (Call Detail Recording)

Prompt	Response	Comment
REQ:	CHG	Change existing data block
TYPE:	CDR_DATA	Call Detail Recording
CUST	0	Customer number
CDR	(NO) YES	CDR for this customer
IMPH	(NO) YES	CDR for Incoming Packet data call
OMPH	(NO) YES	CDR for Outgoing Packet data call
AXID	(NO) YES	Auxiliary Identification output in CDR record
TRCR	(NO) YES	Carriage Return sent after each CDR message
CDPR	(NO) YES	Coordinated Dialing Plan Record option
ECDR	(NO) YES	End-to-End Signaling digits in CDR record
PORT	0-15	CDR port
- CNI	a...a	Calling Number Identification (a...a = (DGTS), CLID, or NONE)
CHLN	(0)-23	Charge account number Length
FCAF	(NO) YES	Forced Charge Account active
CHMN	(1)-CHLN	Minimum number of digits for FCA code (Entry can be equal to or less than response to prompt CHLN)
FCNC	0-99	FCA Network Class of Service

Data Block: FCR (Flexible Code Restriction)

Prompt	Response	Comment
REQ:	CHG	Change existing data block
TYPE:	FCR_DATA	New Flexible Code Restriction
CUST	(0)	Customer number
NFCR	(NO) YES	Enable New Flexible Code Restriction
- MAXT	1-255	Maximum number of NFCR translation tables
- OCB1	(0) - (MAXT-1), 255	NFCR tree number to be used for OCB level. Your entry can be up to your response to the MAXT prompt minus 1 or 255. 255 is a special entry which disallows this level.
- OCB2	(0) - (MAXT-1), 255	NFCR tree number to be used for OCB level 2. Your entry can be up to your response to the MAXT prompt 1 one or 255. 255 is a special entry which disallows this level.
- OCB3	(0) - (MAXT-1), 255	NFCR tree number to be used for OCB level 3. Your entry can be up to your response to the MAXT prompt minus 1 or 255. 255 is a special entry which disallows this level.
IDCA	(NO) YES	Incoming DID Digit Conversion allowed
- DCMX	1- 255	Maximum number of IDC conversion tables

Data Block: FFC (Flexible Feature Codes)

Prompt	Response	Comment
REQ:	CHG	Change existing data block
TYPE:	FFC_DATA	Flexible Feature Code
CUST	(0)	Customer number
CCRS	aaa	Controlled Class of Service (CCOS) Restricted Service
SCPL	0-8	Station Control Password Length
SBUP	(YES) NO	Enable use of station control passwords for set based administration user level access
- PWD2	xxxx	PWD2 password for confirmation
FFCS	(NO) YES	Change Flexible Feature Code end-of-dialing indicator
- STRL	1-3	String Length of end-of-dial indicator
- STRG	xxx	String to indicate end-of-dialing (Enterable characters are digits 0-9, *, and #.)
ADLD	(0)-20	Auto Dial Delay in seconds

Data Block: FTR (Features and options)

Prompt	Response	Comment
REQ:	CHG	Change existing data block
TYPE:	FTR_DATA	Customer Features and options
CUST	(0)	Customer number
OPT	a...a	Options (OPT responses begin on page 209)
DGRP	(0)-2046	Maximum number of Dial Intercom Groups
IRNG	(NO) YES	Intercom Ring
PKND	(1)-4	Number of digits Dialed for Group Pickup
SPRE	xxxx	Special Prefix number (1-4 digits)
PREO	(0) 1	Pretranslation Option
SRCD	xxxx	Set Relocation Security Code
EEST	(NO) YES	End-to-End Signaling Tone to originating party
- DTMF	(YES) NO	DTMF feedback tone
TTBL	(0)-31	Tone Table number
MUS	(NO) YES	Music for sets
- MUSR	0-127	Music Route for sets
ALDN	x...x	Alarm Directory Number
ALRM	(NO) YES	Malicious Call Trace Alarm for internal or external calls
TIME	0-(15)	Time for the alarm in minutes
INT	NO YES	Internal
RECD	(NO) YES	Recorder
- MCRT	0-127	Malicious Call Trace Recording Route number as defined in LD 16
PORT	0-15	Serial Data Interface Port Monitor
STCB	(NO) YES	Station Camp-On Busy allowed
MCDC	(NO) YES	Malicious Call DN/CLID printing allowed
IDEF	(NO) YES	Internal/external definition
ARDL_ATTEMPT	1-(30)-60	Automatic Redial number of attempts
MTAR	(NO) YES	Disable (enable) Meridian Mail Trunk Access Restriction
LEND	(NO) YES	List Entry Number Delimiter
MSCD	(NO) YES	Mandatory Speed Call Delimiter
CPCI	(NO) YES	Called Party Control on Internal Call (is not) is allowed for the customer

Data Block: IMS (Integrated Message Service)

Prompt	Response	Comment
REQ:	CHG	Change existing data block
TYPE:	IMS_DATA	Change Integrated Messaging System features
CUST	(0)	Customer number
IMS	(NO) YES	Change Integrated Message System
- SAMM	(NO) YES	Standalone Meridian Mail
- IMA	(NO) YES	Integrated Messaging System enabled
- - APL	0-15	Auxiliary Processor Link number for IMS
- UST	(NO) YES	User Status Update enabled
- - APL	0-15	Auxiliary Processor Link number for UST
- UMG	(NO) YES	User-to-User Messaging enabled
- - APL	0-15	Auxiliary Processor Link number for UMG

Data Block: INT (Intercept Treatments)

Prompt	Response	Comment
REQ:	CHG	Change existing data block
TYPE:	INT_DATA	Change Intercept Treatment
CUST	(0)	Customer number
ACCD	(OVF OVF OVF ATN)	Access Denied
- RANR	0-127	Intercept Recorded Announcement Route number
CTVN	(OVF OVF OVF ATN)	Call To Vacant Number
- RANR	0-127	Intercept Recorded Announcement Route number
MBNR	(OVF OVF OVF ATN)	Maintenance Busy Numbers
- RANR	0-127	Intercept Recorded Announcement Route number
CTRC	(OVF NAP OVF NAP)	Restricted Call
- RANR	0-127	Intercept Recorded Announcement Route number
CLDN	(NAP OVF NAP NAP)	Calls to LDN
- RANR	0-127	Intercept Recorded Announcement Route number
NINV	(OVF OVF OVF ATN)	Invalid NARS/BARS call
- RANR	0-127	Intercept Recorded Announcement Route number
NITR	(OVF OVF OVF ATN)	NARS/BARS Invalid Translation

- RANR	0-127	Intercept Recorded Announcement Route number
NRES	(OVF OVF OVF ATN)	NARS/BARS Restricted calls
- RANR	0-127	Intercept Recorded Announcement Route number
NBLK	(OVF OVF OVF ATN)	NARS/BARS Blocked calls
- RANR	0-127	Intercept Recorded Announcement Route number
RCLE	(ATN OVF ATN ATN)	Redirection Count Limit Exceeded as defined by TRCL
- RANR	0-127	Intercept Recorded Announcement Route number
CONG	aaa	Congestion tone for all trunks busy condition (aaa = (OVF) or BSY)
DLT	aaa	Direct Inward System Access Lockout treatment (aaa = (OVF), ATN, or OFA)
LLT	aaa	Flexible Line Lockout treatment (aaa = (OVF), ATN, or OFA)
DNDT	aaa	Do Not Disturb intercept Treatment (aaa = (BST), ATT, or RAN)
- RRT	0-127	Intercept Recorded Announcement Route number

Data Block: LDN (Listed Directory Numbers)

Prompt	Response	Comment
REQ:	CHG	Change existing data block
TYPE:	LDN_DATA	Departmental Listed Directory Numbers
CUST	(0)	Customer number
OPT	a...a	Options (OPT responses begin on page 209)
DLDN	(NO) YES	Departmental Listed Directory Numbers
LDN0	xxxx	Listed Directory Number 0
LDA0	1-63 ALL	Attendant consoles associated with LDN0
LDN1	x...x	Listed DN 1
LDA1	a...a	Attendant consoles associated with LDN1 (a...a = 1-63 or ALL)
LDN2	x...x	Listed DN 2
LDA2	a...a	Attendant consoles associated with LDN2 (a...a = 1-63 or ALL)
LDN3	x...x	Listed DN 3
LDA3	a...a	Attendant consoles associated with LDN3 (a...a = 1-63 or ALL)
LDN4	x...x	Listed DN 4
LDA4	a...a	Attendant consoles associated with LDN4 (a...a = 1-63 or ALL)
LDN5	x...x	Listed DN 5
LDA5	a...a	Attendant console associated with LDN5 (a...a = 1-63 or ALL)
ICI	0-19 aaaa	Attendant Incoming Indicators

Data Block: MPO (Multi-Party Operations)

Prompt	Response	Comment
REQ:	CHG	Change existing data block
TYPE:	MPO_DATA	Multi-Party Operations
CUST	(0)	Customer number
FMOP	(NO) YES	Flexible Misoperation Options
- RGNA	xxx yyy	Ringing No Answer treatment
- AOCS	xxx yyy	All Other Cases
- RCY1	1-(6)-15	Number of Cycles of Re-ringing before forwarding or disconnecting
- RCY2	1-(4)-15	Number of Cycles of Ringing before forwarding to transferring station
- RALL	(NO) YES	Mandatory recall is required prior to dialing control digits
- CDTO	2-(14)	Control digit timeout; in multiples of two seconds
IFLS	(NO) YES	Ignore Switchhook Flash signal from 500/2500 sets
MHLD	(NO) YES	Manual Hold after inquiry enabled
PCDS	(NO) YES	Programming of Control Digits required
- CNFD	0-(1)-9, *, #	Control Digit for Conference
- TGLD	0-(2)-9, *, #	Control Digit for Toggle
- DISD	0-(3)-9, *, #	Control Digit for Disconnect
CCDO	(NO) YES	Consultation Connection Disconnect Option alternative treatment
AFCO	(YES) NO	(Automatic)/Manual Forced Camp-On
- ACNS	aaa	Attendant Clearing during Night Service (aaa = (NO), EXT, or ALL)

Data Block: NET (Networking)

Prompt	Response	Comment
REQ:	CHG	Change existing data block
TYPE:	NET_DATA	Networking
CUST	(0)	Customer number
OPT	a...a	Options (OPT responses begin on page 209)
AC2	aaaa	Access Code 2 as defined in LD 86 (aaaa = NPA, NXX, INTL, SPN, or LOC)
ISDN	(NO) YES	Integrated Services Digital Network
- PNI	(0)- 32700	Private Network Identifier
- CLID	(NO) YES	(Do not allow) Allow Calling Line Identification option
- - SIZE	0-(256)-4000	CLID entry size
- - INTL	0- 9999	Country code (1-4 digits)
- - ENTRY	xx	CLID entry to be configured
- - - HNTN	0- 999999	National code for home national number (1-6 digits)
- - - HLCL	0- 99 ... 99	Local code for home local number or Listed DN (1-12 digits)
- - - DIDN	a...a	Use DN as DID (a...a = YES, NO or SRCH)
- - - HLOC	0- x...x	Home location code (ESN) (1-7 digits)
- - - LSC	0- x...x	Local steering code (1-7 digits)
- PINX_DN	xx....x	Node DN
- MBG	(0)-65535	Multi-location Business Group
- BSGC	0-(65535)	Business Sub Group Consult-only
- RCNT	0-(5)	Redirection Count for ISDN calls
- PSTN	(NO) YES	Public Service Telephone Networks
- - TNDM	0-(15)-31	Tandem Threshold/Loop Avoidance Limit value permitted in a network connection
- - PCMC	0-(15)-31	Pulse Code Modulation Conversions permitted, μ -Law to A- Law or A- Law to μ -Law, in a network connection
- SATD	0-(1)-5	Satellite Delays
TRNX	(NO) YES	(Prevent) Allow transfer on ringing of supervised external trunks across the network
EXTT	(NO) YES	(Prevent) Allow connection of supervised external trunks via either call transfer or conference

MWNS	(NO) YES	Message Waiting Indication Non Specified Information string to recognize.
VNR	(NO) YES	Vacant Number Routing
- RLI	0-999	Route List Index as defined in LD 86
- FLEN	1-(16)	Flexible length of digits expected
- CDPL	1-(10)	Flexible length of VNR CDP
- LOCL	1-(10)	Flexible length of VNR LOC
NIT	2-(8)	Network Alternate Route Selection (NARS) Interdigit Timer
FOPT	0-(14)-30	Flexible Orbiting Prevention Timer

Data Block: NIT (Night Service)

Prompt	Response	Comment
REQ:	CHG	Change existing data block
TYPE:	NIT_DATA	Night Service
CUST	(0)	Customer number
NIT1	x...x	First Night Service DN by Time of Day
TIM1	hh mm	Hour and Minute for First Night Service DN
NIT2	x...x	Second Night Service DN by Time of Day
TIM2	hh mm	Hour and Minute for Second Night Service DN
NIT3	x...x	Third Night Service DN by Time of Day
TIM3	hh mm	Hour and Minute for Third Night Service DN
NIT4	x...x	Fourth Night Service DN by Time of Day
TIM4	hh mm	Hour and Minute for Fourth Night Service DN
ENS	(NO) YES	Enhanced Night Service enabled
- NWT	(NO) YES	Night Call Waiting Tone enabled
- NNT	0-253	Night Number Table
- NSO	(NO) YES	Enhanced Night Service enabled

Data Block: OAS (Off Hook Alarm Security)

Prompt	Response	Comment
REQ:	CHG	Change existing data block
TYPE:	OAS_DATA	Change Off-Hook Alarm Security options
CUST	(0)	Customer number
ODN0	xxxx	OHAS DN for zone 0
ODN1	xxxx	OHAS DN for zone 1
ODN2	xxxx	OHAS DN for zone 2
ODN3	xxxx	OHAS DN for zone 3
ODN4	xxxx	OHAS DN for zone 4
ODN5	xxxx	OHAS DN for zone 5
ODN6	xxxx	OHAS DN for zone 6
ODN7	xxxx	OHAS DN for zone 7
ODN8	xxxx	OHAS DN for zone 8
ODN9	xxxx	OHAS DN for zone 9
ASTM	1-(30)-63	OHAS off-hook or interdigit timeout timer in seconds

Data Block: PWD (Password)

Prompt	Response	Comment
REQ:	CHG	Change existing data block
TYPE:	PWD_DATA	Password
CUST	(0)	Customer number
SPWD	xxxx	Secure data password for LD 88 authcodes and LD 24 DISA
- PWD2	xxxx	Second level administration Password

Data Block: RDR (Call Redirection)

Prompt	Response	Comment
REQ:	CHG	Change existing data block
TYPE:	RDR_DATA	Call Redirection
CUST	(0)	Customer number
OPT	a...a	Options (OPT responses begin on page 209)
FNAD	aaa	Call Forward No Answer treatment for DID calls (aaa = (HNT), ATT, NO, or FDN)
FNAT	aaa	Call Forward No Answer treatment for external Trunk non-DID calls (aaa = (HNT), ATT, NO, or FDN)
FNAL	aaa	Call Forward No Answer treatment for All other calls including trunk calls marked as internal (aaa = (HNT), ATT, NO, or FDN)
CFTA	(NO) YES	Call Forward to Trunk Access code allowed
CCFWDN	x...x	Customer Call Forward DN (maximum: 23 digits)
CFNA	1-(4)-15	Number of normal ringing cycles for Call Forward No Answer (CFNA)
CFN0	1-(4)-15	Number of normal ringing cycles for CFNA, Option 0
CFN1	1-(4)-15	Number of normal ringing cycles for CFNA, Option 1
CFN2	1-(4)-15	Number of normal ringing cycles for CFNA, Option 2
DFN0	1-(4)-15	Number of distinctive ringing cycles for CFNA, Option 0
DFN1	1-(4)-15	Number of distinctive ringing cycles for CFNA, Option 1
DFN2	1-(4)-15	Number of distinctive ringing cycles for CFNA, Option 2
DNDH	(NO) YES	Do Not Disturb Hunting allowed
MDID	(NO) YES	No Answer DID calls routed to Message Center
NDID	(NO) YES	No Answer non-DID calls routed to Message Center
MWFB	(NO) YES	DID calls to busy telephones routed to Message Center
TRCL	(0)-7	Total Redirection Count Limit
CRTOD	(NO) YES	Change Call Redirection by Time Of Day alternate time options
- CRT0	SH SM EH EM	Alternate time option 0, denotes time when Alternate Redirection DN will be used. (SH SM = Start time, EH EM = End time)
- CRT1	SH SM EH EM	Alternate time option 1 (SH SM = Start time; EH EM = End time)
- CRT2	SH SM EH EM	Alternate time option 2 (SH SM = Start time; EH EM = End time)
- CRT3	SH SM EH EM	Alternate time option 3 (SH SM = Start time; EH EM = End time)

Data Block: ROA (Recorded Overflow Announcement)

Prompt	Response	Comment
REQ:	CHG	Change existing data block
TYPE:	ROA_DATA	Recorded Overflow Announcement
CUST	(0)	Customer number
OPT	a...a	Options (OPT responses begin on page 209)
FRRT	0-127	First RAN route
- FRT	0-(20)-2044	Time delay in seconds for the first RAN route
SRRT	0-127	Second RAN route number for ROA
- SRT	0-(40)-2044	Time delay in seconds for the second RAN route
WAIT	aaa	Treatment during Waiting time for ROA (aaa = (RGB), MUS, or SIL)
- MURT	0-127	Music Route
RICI	0-19	ICI key numbers that may receive ROA

Data Block: TIM (Timers)

Prompt	Response	Comment
REQ:	CHG	Change existing data block
TYPE:	TIM_DATA	Timers
CUST	(0)	Customer number
FLSH	20-(45)-768	Switchhook Flash timing
PHDT	1-(30)-63	Permanent Hold Timer
DIND	2-(30)-60	Dial tone and Interdigit timeout for non-DTMF sets
DIDT	2-(15)-60	Dial tone and Interdigit timeout for DTMF sets
LDTT	2-(6)-30	Line disconnect tone timer for 500/2500 telephones in seconds
BOTO	2-(14)-60	Busy tone/Overflow tone Timeout
DBRC	2-(60)-120	Duration Between Reminder Cadences for Audible Reminder of Held Call
RTIM	xxx yyy zzz	Recall Timers for Slow Answer, Camp-On and Call Waiting
ATIM	(0)-126	Attendant Alternative Answering Timer
AQTT	1-(30)-255	Attendant Queue Timing Threshold in seconds
ADLD	(0)-20	Auto Dial Delay in seconds
HWTT	0-(300)-600	Length of Howler Tone in seconds
NIT	2-(8)	Network Alternate Route Selection Interdigit Timer
FOPT	0-(14)-30	Flexible Orbiting Prevention Timer

Data Block: TST (Test lines)

Prompt	Response	Comment
REQ:	CHG	Change existing data block
TYPE:	TST_DATA	Test lines for transmission testing
CUST	(0)	Customer number
T100	xxxx	DN for Type-100 test line
REF0	xxxx	DN for Reference trunk 0
TST0	xxxx	DN for Test trunk 0
REF1	xxxx	DN for Reference trunk1
TST1	xxxx	DN for Test trunk 1
REF2	xxxx	DN for Reference trunk 2
TST2	xxxx	DN for Test trunk 2
REF3	xxxx	DN for Reference trunk 3
TST3	xxxx	DN for Test trunk 3

LD 15

Page 182 of 848 Prompts and responses

Alphabetical list of prompts

Prompt	Response	Comment
ABDN	(NO) YES	Activation of the Attendant Blocking of DN Prompted with Semi-Automatic Camp-On (SACP) package 181.
AC2	NPA NXX INTL SPN LOC	Access Code 2 E.164 National E.164 Subscriber International Special Number Location Code Enter call types that use Access Code 2 (AC2) Multiple responses are permitted. If a numbering plan is not entered here, it is automatically defaulted to Access Code1 (AC1).
ACCD	(OVF OVF OVF ATN)	Access Denied
ACNS	(NO) EXT ALL	Attendant Clearing during Night Service No automatic treatment External calls only All calls This prompt appears when the Multi-Party Operations (MPO) package is equipped, MPOP = YES and FMOP = YES.
ADLD	(0)-120	Auto Dial Delay Time in two-second interval. Prompted with the Flexible Feature Codes (FFC) package 139. 0 = Auto Dial does not take place.
AFBT	(0)-2-AFNT	Attendant Forward Buzz Tone The number of seconds in 2 second intervals that the attendant is buzzed at full volume. Odd entries are rounded down to the next valid entry. If entry is 0, the original volume is in effect.
AFCO	(YES) NO	(Automatic)/Manual Forced Camp-On Prompted with Priority Override (POVR) package 186.
ALDN	x...x	Alarm Directory Number Must be a Single-Appearance 500-set DN. Precede with X to remove.

LD 15

Prompt	Response	Comment
ALRM	(NO) YES	Malicious Call Trace Alarm for internal or external calls ALRM has to set to YES if the alarm is to be rung for any call (external or internal) when MCT is activated.
AML_DATA	(NO) YES	Change Application Module Link options
ANAT	x...x	ANI Attendant Billing Number Up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. In either case, together with ANLD (ANI listed DN), the total number of digits must be seven. Prompted with Automatic Number Identification (ANI) package 12.
ANI_DATA	(NO) YES	Change Automatic Number Identification options
ANLD	xxxxx	Automatic Number Identification (ANI) Listed Directory Number May be 0-5 digits, depending on the length of ANAT. The combined number of digits for ANAT and ANLD must be 7. Prompted with Automatic Number Identification (ANI) package 12.
	X	Enter the letter X to clear the field
AOCS	xxx yyy	All Other Cases Where: xxx is for internal calls and yyy or ATN is for external calls Valid entries for xxx and yyy are: <ul style="list-style-type: none">• AAR - forward to attendant or Night Service after re-ringing for RCY1 cycles• ATN - forward to attendant or Night Service (ATN is the default for yyy or external calls)• DAR - disconnect after re-ringing for RCY1 cycles• DIS - disconnect default for xxx or internal calls• OVF - provide overflow tone• STD - standard operation.
AODN	x...x	Attendant Overflow DN Up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. Precede with X to remove an entry. Prompted with Attendant Overflow Postion (AOP) package 56.

Prompt	Response	Comment
APAD	x y	<p>Alternative Pad. Where: x = trunk pad selection and y = conference pad selection</p> <p>Valid inputs for x are:</p> <ul style="list-style-type: none"> • (0) = default North America • 1 = Australia • 2 = New Zealand • 3 = Italy • 4 = China EPE or EPE/IPE systems • 5 = China pure IPE system • 6-7 = future usage currently set to default <p>Valid inputs for y are:</p> <ul style="list-style-type: none"> • (0) = default North America • 1 = Alternative Conference pads selected <p>The default = 0 when REQ = NEW. The default is the existing value when REQ = CHG. Alternative Conference pads are only provided on specific Conference cards.</p>
APL	0 - 15	Auxiliary Processor Link number
AQTT	1-(30)-255	Attendant Queue Timing Threshold in seconds
ASTM	1-(30)-63	<p>OHAS Off-Hook or interdigit timeout timer</p> <p>This timer is applied to telephones with Alarm Security Allowed (ASA) Class of Service. When the timer expires, the telephone is intercepted to the OHAS DN.</p> <p>ASTM applies to all OHAS DNs. If the telephone has Alarm Security Denied (ASD) Class of Service, the normal dial tone and interdigit timers are used. See LD 15 prompts DIND and DIDT.</p>
ATAC	xxxx	<p>Attendant Administration Access Code</p> <p>The entered code is not actually accepted until the correct password is entered in the next prompt.</p> <p>Prompted with Attendant Administration (AA) package 54.</p>
ATDN	(0)-x...x	<p>Attendant Directory Number</p> <p>Up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. Calls timed for recall by the DPNSS1 redirection feature are redirected to this number when the timer expires.</p>

LD 15

Prompt	Response	Comment
ATIM	(0)-126	Attendant Alternative Answering Timer This timer is in increments of two seconds, odd numbers are rounded down to the next valid input. Use ATIM = 0 to disable AAA. Prompted with Attendant Alternative Answering (AAA) package 174.
ATT_DATA	(NO) YES	Change Attendant Console options
AXID	(NO) YES	Auxiliary Identification output in CDR record Auxiliary Identification provides the TN when the call involves a multiple appearance DN.
BOTO	2-(14)-60	Busy tone/Overflow tone Timeout Odd entries are rounded down to a valid multiple of two seconds.
BSGC	0-(65535)	Business Sub Group Consult-only. Where: <ul style="list-style-type: none">• 0 = no indication• 1 - 65535 = Subgroup identifier This value is sent as the Multi-location Business Group Subgroup (MBGS) identifier or tenant number when an existing call has more than two different MBGSs. In this case a consultation connection will be allowed, but completion of a call modification, conference or transfer, will be disallowed. If BSGC = 0 then Call Transfer and Call Modifications may be restricted under certain circumstances. Ensure BSGC ≠ 0 if Call Transfer and Call Modifications to be allowed.
CANC	YES NO	Non Specified Information string for Message Waiting Cancellation.
CCDO	(NO)	Consultation Connection Disconnect Option alternative treatment is not required
	YES	Consultation Connection Disconnect Option alternative treatment is required

Prompt	Response	Comment
CCFWDN	x...x	Customer Call Forward DN. The maximum is now 23 (0-23) digits. CCFWDN allows subscribers to forward their phones to a central answering service by dialing a FFC. CCFWDN activates the regular Call Forward All Calls function, but without having to specify the DN to which calls will be forwarded. Customer Call Forward is only applicable to 500-type sets.
CCRS		Controlled Class of Service (CCOS) Restricted Service. This applies when CCRS is active. If CCRS is inactive, the set defaults to the TN class of service access restriction. Allowed access restrictions are: (UNR) Unrestricted CTD Conditionally Toll Denied CUN Conditional Unrestricted FR1 Fully Restricted class 1 FR2 Fully Restricted class 2 FRE Fully Restricted SRE Semi-Restricted TLD Toll Denied Prompted with Controlled Class of Service (CCOS) package 81.
CCS_DATA	(NO) YES	Change Controlled Class of Service options
CDPL	1-(10)	Flexible length of Vacant Number Routing (VNR) Coordinated Dialing Plan (CDP)
CDPR		Coordinated Dialing Plan Record option. CDPR appears with Coordinated Dialing Plan (CDP) package 59. Applies only to trunk routes with OPD = NO. (NO) Replace the Distant Steering Code (DSC) or Trunk Steering Code (TSC) with the Access Code (ACOD). The format is : ACOD + concluding digits YES Insert ACOD ahead of DSC or TSC. The format is : ACOD + DSC or TSC + concluding digits
CDR	(NO) YES	Change Call Detail Recording record Prompted with Call Detail Recording (CDR) package 4.
CDR_DATA	(NO) YES	Change CDR and Charge Account options
CDTO	2-(14)	Control digit timeout in multiples of 2 seconds.

LD 15

Prompt	Response	Comment
CFNA	1-(4)-15	Number of normal ringing cycles for Call Forward No Answer If the Flexible Tones and Cadences (FTC) package 125 is equipped, this interval is tied to the number of cycles of NCAD ringing. Refer to 553-2711-180 Flexible Tone and Digit Switches.
CFN0	1-(4)-15	Number of normal ringing cycles for CFNA, Option 0 CFNA has three ringing cycle options. This assigns the normal ringing cycles for Option 0.
CFN1	1-(4)-15	Number of normal ringing cycles for CFNA
CFN2	1-(4)-15	Number of normal ringing cycles for CFNA
CFTA	(NO) YES	Call Forward to Trunk Access code not allowed Call Forward to Trunk Access code allowed
CHDN	x...x	CAS silent Hold DN Up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150.
CHLN	(0)-23	Charge Account Number Length Prompted with Charge Account (CHG) package 23
CHMN	(1)-CHLN	Minimum number of digits for FCA code The range is from 1 to CHLN, where CHLN = Charge account Number Length.
CLDN	(NAP OVF NAP NAP)	Calls to LDN
CLID	(NO) YES	Do not allow Calling Line Identification option Allow Calling Line Identification option
CLS1	(UNR) CTD CUN FR1 FR2 FRE SRE TLD	Class of Service Unrestricted Conditionally Toll Denied Conditional Unrestricted Fully Restricted class 1 Fully Restricted class 2 Fully Restricted Semi-Restricted Toll Denied

Prompt	Response	Comment
CNCS	0-99	Controlled NCOS CNCS allows the user to select a controlled NCOS to be used when the set is locked. When a set is locked, the NCOS defined at this prompt is used as the set NCOS when a trunk call is made. Precede entry with X to remove.
CNFD	0-(1)-9, *, #	Control Digit for Conference
CONG	(OVFL) BUSY	Congestion tone for all trunks busy condition Overflow tone for all trunks busy condition Busy tone
CPAS	xxxx	Central Precedence answering station listed DN
CPCI	(NO) YES	Called Party Control on Internal Call is not allowed for the customer Called Party Control on Internal Call is allowed for the customer CPCI package 310 is required.
CRT0	SH SM EH EM	Alternate time option 0, denoting a time when the Alternate Redirection DN will be used. Where: <ul style="list-style-type: none"> • SH SM = Start time • EH EM = End time Both entries are in international time format and are entered as HH MM (hour = 00-23 ; minute = 00-59). The default value is 00 00 00 00. The default disables CRTOD for that alternate time option.
CRT1	SH SM EH EM	Alternate time option 1, denoting a time when the Alternate Redirection DN will be used. See the prompt CRT0 for an explanation of the response format.
CRT2	SH SM EH EM	Alternate time option 2, denoting a time when the Alternate Redirection DN will be used. See the prompt CRT0 for an explanation of the response format.
CRT3	SH SM EH EM	

LD 15

Prompt	Response	Comment
		Alternate time option 3, denoting a time when the Alternate Redirection DN will be used. See the prompt CRT0 for an explanation of the response format.
CRTOD	(NO) YES	Call Redirection by Time Of Day Do not change CRTOD alternate time options Change CRTOD alternate time options
CTRC	(OVF NAP OVF NAP)	Restricted Call
CTVN	(OVF OVF OVF ATN)	Call to Vacant Number
CUST	(0)	Customer number
CWBZ	(NO) YES (NO) YES	Call Waiting Buzz First field-Provide two second buzz on exceeding upper CWCL or CWTM threshold. Second field-Buzz on first call entering queue.
CWCL	(0)-255 (0)-255	Call Waiting Call Limit Lower and upper thresholds. The Call Waiting lamp starts flashing when number of calls in the queue exceeds the upper threshold. The lamp continues to flash until the number of calls in queue is less than the lower threshold. Enter 0 to disable this feature. (0)-1000 (0)-1000 Lower and upper thresholds defined as a percentage of the active consoles when OPT = FACA. When the FACA/FACD option is changed, a new value for CWCL must be set or the default values are used. The CWCL values for the tenant-level are set equal to the customer-level values. CWCL is also prompted in LD 93.
CWTM	(0)-511 (0)-511	

Prompt	Response	Comment
		Lower and upper thresholds for Call Waiting Time. The Call Waiting lamp starts flashing when the call in the queue exceeds the upper threshold. The lamp continues to flash until the wait time is less than the lower threshold. Enter 0 to disable this feature.
CWUP	(NO) YES	Call Waiting queue Update Prompted with M2250 Attendant Console (DCON) package 140. The M2250 type consoles can be notified every time there is a change to the Call Waiting queue.
DBRC	2-(60)-120	Duration Between Reminder Cadences for audible reminder of held call Odd entries are rounded up to a valid multiple of two seconds.
DCMX	1-255	Digit Conversion Maximum number of tables The sum of the values for MAXT and DCMX cannot exceed 255 or $MAXT + DCMX = 255$.
DFN0	1-(4)-15	Number of Distinctive Ringing cycles for CFNA, Option 0 CFNA has three ringing cycle options. This assigns the Distinctive Ringing cycles for Option 0.
DFN1	1-(4)-15	Number of Distinctive Ringing cycles for CFNA, Option 1
DFN2	1-(4)-15	Number of Distinctive Ringing cycles for CFNA, Option 2
DGRP	(0)-2046	Maximum number of Dial Intercom Groups (DIG) Prompted with Dial Intercom (DI) package 21
DIDN	(YES) NO SRCH	Precede the DN of the active DN key with the digits in HLCL Use digits in HLCL Find a DN key of the set from key 0 which has DIDN of a CLID entry set to YES

LD 15

Prompt	Response	Comment
DIDT	0-(14)-60	0-(14)-60 0-(14)-60 Dial tone and Interdigit timeout for DTMF sets when International Supplementary Features (SUPP) package 131 is equipped. The 1st parameter is the time before first digit or the dial tone time. The 2nd parameter is the time between the first and second digits. The 3rd parameter is the time between digits after the second digit. Odd entries are rounded down to a valid multiple of two seconds.
	2-(15)-60	Dial tone and Interdigit timeout for DTMF sets when International Supplementary Features (SUPP) package 131 is not equipped. Odd entries are rounded down to a valid multiple of two seconds.
DIND	0-(30)-60	0-(30)-60 0-(30)-60 Dial tone and Interdigit timeout for non-DTMF sets when International Supplementary Features (SUPP) package 131 is equipped. The 1st parameter is the time before first digit or the dial tone time. The 2nd parameter is the time between the first and second digits. The 3rd parameter is the time between digits after the second digit. Odd entries are rounded down to a valid multiple of two seconds.
	2-(30)-60	Dial tone and Interdigit timeout for non-DTMF sets when International Supplementary Features (SUPP) package 131 is not equipped.
DISD	0-(1)-9, *, #	Control digit for Disconnect
DLDN	(NO) YES	Departmental Listed Directory Numbers. Prompted with Departmental Listed Directory Number (DLDN) package 76.
DLT		Direct Inward System Access (DISA) Lockout treatment
	(OVF)	Overflow tone
	ATN	Attendant
	OFA	Overflow then attendant
DNDH	(NO) YES	Do Not Disturb Hunting allowed Prompted with Meridian Hospitality Voice Services (MHVS) package 179.
DNDL	(NO) YES	Do Not Disturb Lamp on 500/2500 telephones Prompted with Do Not Disturb Individual (DNDI) package 9.

Prompt	Response	Comment
DNDT	(BST) ATT RAN	Do Not Disturb intercept Treatment Busy Tone Attendant RAN trunk Prompted with Do Not Disturb Individual (DNDI) package 9
DTMF	(NO) YES	End-to-End Signaling feedback tone Use the improved EES for single tone feedback Use the current EES for DTMF feedback tone
ECC1		Enhanced Controlled Class of Service level 1 ECC1 is prompted with Enhanced Control Class of Service (ECCS) package 173. This access restriction applies when CCRS is active. When CCRS is inactive, the set reverts to the Access Restrictions defined in LD 10 or LD 11. Allowed access restrictions are:
	(UNR) CTD CUN FR1 FR2 FRE SRE TLD	Unrestricted Conditionally Toll Denied Conditional Unrestricted Fully Restricted class 1 Fully Restricted class 2 Fully Restricted Semi-Restricted Toll Denied
ECC2		Enhanced Controlled Class of Service level 2 ECC2 is prompted with Enhanced Control Class of Service (ECCS) package 173. This access restriction applies when CCRS is active. When CCRS is inactive, the set reverts to the Access Restrictions defined in LD 10 or LD 11. Allowed access restrictions are:
	(UNR) CTD CUN FR1 FR2 FRE SRE TLD	Unrestricted Conditionally Toll Denied Conditional Unrestricted Fully Restricted class 1 Fully Restricted class 2 Fully Restricted Semi-Restricted Toll Denied

LD 15

Prompt	Response	Comment
ECDR	(NO) YES	Print End-to-End Signaling digits in CDR record
EEST	(NO) YES	End-to-End Signaling Tone to originating party Do not send feedback tone to the originator Send feedback tone to originator When EEST = NO or when EEST = YES and DTMF = NO, <i>Improved</i> End-to-End Signaling is used. When EEST = YES and DTMF = YES, <i>Enhanced</i> End-to-End Signaling is used. EEST is prompted with End-to-End Signaling (EES) package 10.
ELPL	1-15	Electronic Lock Password Length (number of digits)
ENS	(NO) YES	Enhanced Night Service enabled Prompted with Enhanced Night Service (ENS) package 133.
ENTRY	xx	CLID entry to be configured. CLID entries must be between 0 and the value entered at the SIZE prompt - 1. Precede entry or entries with X to delete. ENTRY is repeated until a <cr> is entered.
EXTT	(NO) YES	Prevent connection of supervised external trunks via either call transfer or conference Allow connection of supervised external trunks via either call transfer or conference
FCAF	(NO) YES	Forced Charge Account active Prompted with Forced Charge Account (FCA) package 52
FCNC	0-99	FCA Network Class of Service
FCR_DATA	(NO) YES	Change New Flexible Code Restriction options
FFC_DATA	(NO) YES	Change Flexible Feature Code options
FFCS	(NO) YES	Change Flexible Feature Code end-of-dialing indicator
FLEN	1-(16)	Flexible length of digits expected
FLSH	xxx	Switchhook Flash timing.

Prompt	Response	Comment
		Where: xxx = 20-(45)-768
		The timing specified will be used for EPE equipment only. XPE equipment will use the FLSH specified in LD 97.
FMOP	(NO) YES	Flexible Misoperation options are not required Flexible Misoperation options are required
FNAD	(HNT) ATT FDN NO	Call Forward No Answer treatment for DID calls Hunt DN, defined in telephone data block CFNA to attendant Flexible CFNA DN, defined in telephone data block CFNA not allowed
FNAL		Call Forward No Answer treatment for all other calls including trunk calls marked as internal. An internal trunk call is a trunk call in which LD 16 prompt RCLS = INT. If FNAL = HNT, no answer calls are forwarded to the Hunt DN.
	(HNT) ATT FDN NO	Hunt DN (defined in telephone data block) CFNA to attendant Flexible CFNA DN (defined in telephone data block) CFNA not allowed
FNAT		Call Forward No Answer treatment for external Trunk non-DID calls. An external call is defined as a trunk call in which LD 16 prompt RCLS = EXT. If FNAT = FDN or HNT, then Call Forward by Call Type (CFCT) handles the call.
	(HNT) ATT FDN NO	Hunt DN, defined in telephone data block CFNA to attendant Flexible CFNA DN, defined in telephone data block CFNA not allowed
FNP	(YES) NO	Flexible Numbering Plan feature is enabled for customer.
FOPT	0-(14)-30	Flexible Orbiting Prevention Timer The number of seconds in two second intervals that CFW should be suspended on a set that has just forwarded a call off-node. Odd entries are rounded up to the next valid entry. A response of 0 disables FOPT.

LD 15

Prompt	Response	Comment
FRRT	0-127	First Recorded Announcement or RAN Route for Recorded Overflow Announcement (ROA). Prompted with Recorded Overflow Announcement (ROA) package 36 and OPT = ROI. Enter X to remove
FRT	0-(20)-2044	First RAN Time seconds before first RAN given.
FTR_DATA	(NO) YES	Change Features and options
GPXX	x	<p>Unsolicited status events 1, 2, 3, 4, 5 or 6</p> <p>Unsolicited status events are used with Meridian Link applications. Enter the message to be sent to the host computer for telephones in the group, where:</p> <ul style="list-style-type: none">• 0 = No status messages monitored• 1 = On-Hook• 2 = Off-Hook• 3 = Ringing• 4 = Active• 5 = Disconnect• 6 = Unringing <p>Precede the value with an X to remove a status from the Group report.</p> <p>The prompts GP02 through GP15 appear when Meridian Link package is equipped. Default values are in Group 0 and Group 1:</p> <ul style="list-style-type: none">• Group 0 = sends no messages• Group 1 = sends all messages <p>Groups 0 and 1 cannot be entered or changed here, but can be entered in response to the IAPG prompt in LD 10 and LD 11.</p>

Prompt	Response	Comment
GP02	n n n n n	<p>Group 2 status events</p> <p>The following comment applies to prompts GP03 through GP15:</p> <p>Unsolicited status events are used with Meridian Link applications. Enter the message to be sent to the host computer for telephones in the group, where:</p> <ul style="list-style-type: none"> • 0 = No status messages monitored • 1 = On-Hook • 2 = Off-Hook • 3 = Ringing • 4 = Active • 5 = Disconnect • 6 = Unringing <p>Precede the value with an X to remove a status from the Group report.</p> <p>Default values are in Group 0 and Group 1:</p> <ul style="list-style-type: none"> • Group 0 sends no messages • Group 1 sends all messages <p>Groups 0 and 1 cannot be entered or changed here, but can be entered in response to the IAPG prompt in LD 10 and LD 11.</p> <p>The prompt GP02 through GP15 are presented only with Integrated Services Digital Network Application Module Link for 3rd Party Vendors (IAP3P) package 153 equipped.</p>
GP03	n n n n n	Group 3 status events 1, 2, 3, 4, 5 or 6 assigned
GP04	n n n n n	Group 4 status events 1, 2, 3, 4, 5 or 6 assigned
GP05	n n n n n	Group 5 status events 1, 2, 3, 4, 5 or 6 assigned
GP06	n n n n n	Group 6 status events 1, 2, 3, 4, 5 or 6 assigned
GP07	n n n n n	Group 7 status events 1, 2, 3, 4, 5 or 6 assigned
GP08	n n n n n	Group 8 status events 1, 2, 3, 4, 5 or 6 assigned
GP09	n n n n n	Group 9 status events 1, 2, 3, 4, 5 or 6 assigned
GP10	n n n n n	Group 10 status events 1, 2, 3, 4, 5 or 6 assigned

LD 15

Prompt	Response	Comment
GP11	n n n n n	Group 11 status events 1, 2, 3, 4, 5 or 6 assigned
GP12	n n n n n	Group 12 status events 1, 2, 3, 4, 5 or 6 assigned
GP13	n n n n n	Group 13 status events 1, 2, 3, 4, 5 or 6 assigned
GP14	n n n n n	Group 14 status events 1, 2, 3, 4, 5 or 6 assigned
GP15	n n n n n	Group 15 status events 1, 2, 3, 4, 5 or 6 assigned
HLCL	0-99 ... 99	Local code for home local number or Listed directory number (1-12 digits). Precede with X to remove.
HLOC	100-99999999	Home Location Code (ESN) as defined in LD 90 Up to 7 digits with extended code. Prompted when ISDN=YES.
HMDN	xxxx	Home DN
HNTN	0-999999	National code for home national number (1-6 digits). Precede with X to remove.
HRCL	0-512	Hold Recall timer
HWTT	0-(300)-600	Length of Howler Tone in seconds. Prompted with Multi Language Wake Up (MLWU) package 206, and Operator Callback (OPCB) package 126. Where: 0 = continuous tone
ICI	x aaa	Attendant Incoming Call Indicators Where: x = 0-9 if OPT = IC1, or x = 0-19 if OPT = IC2. Where: aaa = ICI function name. Multiple responses can be entered for the same key.
	x CAy	ICI number, Station Category Indication priority level, (where y = 1-7)
	x CFB	ICI number, Call Forward Busy
	x CFN	ICI number, Call Forward No Answer
	x DF0	ICI number, dial 0 fully restricted
	x DLO	ICI number, dial 0
	x IAT	ICI number, Inter-Attendant call
	x IEN	ICI number, Idle Extension Notification
	x INT	ICI number, Intercept

Prompt	Response	Comment
	x LCT	ICI number, lockout intercept
	x LD0	ICI number, listed DN0
	x LD1	ICI number, listed DN1
	x LD2	ICI number, listed DN2
	x LD3	ICI number, listed DN3
	x LD4	ICI number, listed DN4
	x LD5	ICI number, listed DN5
	x MTR	ICI number, Meter Recall
	x MWC	ICI number, Message Waiting Calls
	x NCO	ICI number, Network CO trunk
	x NDID	ICI number, Network DID trunk
	x NFEX	ICI number, Network FEX trunk
	x NTIE	ICI number, Network TIE trunk
	x NUL	ICI number, remove ICI appearances
	x NWAT	ICI number, Network WAT trunk
	x RDI	ICI number, RDI intercept
	x RLL	ICI number, Recall
	x Ryyy Ryyy	ICI number, one or more Route numbers
	x TRK	ICI number, Trunk types and local route numbers
IDCA	(NO) YES	Incoming DID Digit Conversion Allowed NFCR must = YES before IDCA can = YES. Prompted with Incoming Digit Conversion (IDC) package 113
IDEF		Internal/external definition Network wide INY/EXT definition for Call Forward/Hunt by Call Type, Internal Call Forward, and Break In Indication Prevention.
	(NO)	A call will not be treated as internal or external according to the network wide definition of internal and external calls. When IDEF = NO, information that could have been entered previously at the IDEF prompt in LD 16 will not influence call treatment.
	YES	A call will be treated as internal or external according to the network wide definition of internal and external calls. Changing IDEF to NO and then back to YES will not reset the data entered in LD 16.
IFLS	(NO)	Allow switchhook flash signal from 500/2500 sets

LD 15

Prompt	Response	Comment
	YES	Ignore switchhook flash signal from 500/2500 sets If YES then sets require ground buttons.
IMA	(NO) YES	Integrated Messaging System enabled Prompted when OPT=MCI
IMPH	(NO) YES	CDR for Incoming Packet data call
IMS	(NO) YES	Change Integrated Messaging System features Prompted with Integrated Message System (IMS) package 35.
IMS_DATA	(NO) YES	Change Intergraded Message Service options
INT	(NO) YES	Internal Malicious Call Trace Alarm If the alarm is to be rung when MCT is activated against internal calls ALRM = YES and INT = YES.
INTL	0-9999	Country code (1-4 digits). Precede with X to remove.
INT_DATA	(NO) YES	Change Intercept Treatment options
INTR	(NO) YES	Change Intercept Treatment Intercept treatments determine the action performed when a user makes an invalid call. Each intercept prompt requires four entries representing the type call: <ul style="list-style-type: none">• first entry = station/DISA• second entry = attendant extended• third entry = TIE trunk• fourth entry = CCSA/DID trunk One of the following responses is required for each entry: <ul style="list-style-type: none">• ATN = Intercept to Attendant• BSY = Busy Tone• NAP = Not Applicable• OVF = Overflow Tone• RAN = Intercept to Recorded Announcement• SRC1-SRC8 = Announcement Source Channel The defaults are shown for each Intercept prompt. If RAN is specified, you are prompted for the RAN route number.

Prompt	Response	Comment
IRFP	x....x	Internal Attendant Remote Call Forward Password The password length is 1-8 digits. The password is numeric only.
IRFR	(NO) YES	Internal Attendant Remote Call Forward Password Required
IRNG	(NO) YES	Intercom Ring Distinctive Ringing for Dial Intercom
ISDN	(NO) YES	Integrated Services Digital Network allowed for customer Prompted when ISDN signaling package 145 is equipped and at least one PRA link is configured.
ITH1	1-255	Visual Indication Threshold 1 $TH1 \leq \text{calls in queue} \leq ITH2$
ITH2	1-255	Visual Indication Threshold 2 $ITH2 \leq \text{calls in queue} \leq ITH3$
ITH3	1-255	Visual Indication Threshold 3 $\text{calls in queue} > ITH3$
LA11	0-511	Primary RAN route for Language 1 Prompted with Multi-Language Wake Up (MLWU) package 206.
LA12	0-511	Secondary RAN route for Language 1
LA21	0-511	Primary RAN route for Language 2
LA22	0-511	Secondary RAN route for Language 2
LA31	0-511	Primary RAN route for Language 3
LA32	0-511	Secondary RAN route for Language 3
LA41	0-511	Primary RAN route for Language 4
LA42	0-511	Secondary RAN route for Language 4
LA51	0-511	Primary RAN route for Language 5
LA52	0-511	Secondary RAN route for Language 5

LD 15

Prompt	Response	Comment
LADN	x...x	Local Attendant Directory Number This must be different from the DN entered for ATDN. Up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150.
LDA0	1-63 ALL	Attendant consoles associated with LDN0 Allow LDN0 on all attendants. Precede X to remove.
LDA1	1-63 ALL	Attendant consoles associated with LDN1 Allow LDN1 on all attendants. Precede with X to remove.
LDA2	1-63 ALL	Attendant consoles associated with LDN2 Allow LDN2 on all attendants. Precede X to remove.
LDA3	1-63 ALL	Attendant consoles associated with LDN3 Allow LDN3 on all attendants. Precede X to remove.
LDA4	1-63 ALL	Attendant consoles associated with LDN4 Attendant consoles associated with LDN4
LDA5	1-63 ALL	Attendant console associated with LDN5 Attendant console associated with LDN5
LDBZ	n n n n n n ALL	Listed Directory Number Bussing groups 0,1,2,3,4,or 5. The Departmental Listed Directory Number groups which should be buzzed when a Listed Directory Number/Code Blue call is in the attendant queue. Precede with 'X' to remove.
LDN_DATA	(NO) YES	Change Departmental Listed Directory Numbers
LDN0	x...x	Listed Directory Number 0 Up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. Precede with X to remove an entry. LDN0 must be defined for ISDN PRI DID service. The length of LDN0 determines the number of trailing digits translated as the dialed DN on PRI DID routes.
LDN1	x...x	Listed DN 1 Up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. Precede with X to remove an entry.
LDN2	x...x	Listed DN 2

Prompt	Response	Comment
		Up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. Precede with X to remove an entry.
LDN3	x...x	Listed DN 3 Up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. Precede with X to remove an entry.
LDN4	x...x	Listed DN 4 Up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. Precede with X to remove an entry.
LDN5	x...x	Listed DN 5 Up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. Precede with X to remove an entry.
LDNT	(NO) YES	Listed Directory Number Tone Special tone to CAS main attendant when presented with LDN calls.
LDTT	2-(6)-30	Line disconnect tone timer for 500/2500 telephones in seconds
LEND	(NO) YES	List Entry Number Delimiter A delimiter (*) is neither required nor allowed between the list entry number and telephone number A delimiter (*) is required between the list entry number and telephone number. LEND is prompted with packages scc-1 or ssc-34
LFFD	x00..x00	First DN of lamp field array for ILF. The system shows the status of the next 150 consecutive DNs. Last two digits of first DN must be 00. First DN must start on even 100 (e. g., 3400 is acceptable, but 3450 is not). Precede with X to remove. Prompted when OPT = ILF.
LFTN	c u	Lamp Field array Terminal Number LFTN is prompted again for a second lamp field array. For Supervisory Console, when assigning lamp field array to show Attendant status, enter the secondary TN of the console. To remove the second LFTN, enter "0". To remove both LFTNs, enter XLF in response to prompt OPT. Prompted when OPT = ILF. Not allowed for 2000/3000 series telephones.
LINK	(NO) YES	ACD DNIS Link option. Prompted if OPT = DNI.

LD 15

Prompt	Response	Comment
LLT	(OVF) ATN OFA	Flexible Line Lockout Treatment Overflow tone Attendant Overflow, then Attendant
LOCL	1-(10)	Flexible length of Vacant Number Routing (VNR) Location digits (LOC). Enter the maximum number of LOC digits expected by VNR.
LSC	1-9999999	<p>Local Steering Code. LSC can be one to seven digits.</p> <p>LSCs are required if the CDP DNs are longer than the local PDNs. The CLID sent for a CDP call is composed of the LSC defined in LD 15 plus the PDN of the calling set.</p> <p>Various ISDN network features depend on the CLID as the return address for sending feature control messages. Multiple LSCs may be defined in LD 87 for CDP but only one LSC can be defined here for the CLID.</p> <p>The LSC prompt appears only if the user has a five or six digit dialing plan, or if the DPNSS software package is equipped. LSC is prompted here if ISDN = NO, otherwise LSC is a sub-prompt of ISDN.</p> <p>Precede with X to remove</p>
MAIN	(NO) YES	CAS Main
MATT	(NO) YES	Consoles used as Message Center Prompted with Message Waiting Center (MWC) package 46 and OPT = MCI.
MAXT	1-255	<p>Maximum number of NFCR translation tables</p> <p>Once defined a lower value cannot be entered for MAXT. The sum of the values for MAXT and DCMX cannot exceed 255 or $MAXT + DCMX \leq 255$ per customer.</p>

Prompt	Response	Comment
MBG	(0)-65535	Multi-location Business Group. Where: <ul style="list-style-type: none"> • 0 = no indication • 1 = reserved for public network • 2-65535 = Business Group Identifiers This parameter is used to define the Multi-location Business Group. It is not currently used by the MSL-1, but is added for interfacing with systems that require it.
MBNR	(OVF OVF OVF ATN)	Maintenance Busy Numbers
MCDC	(NO) YES	Malicious Call DN/CLID printing allowed
MCR	(NO) YES	Mini-CDR equipped
MCRT	xxxx	Malicious Call Trace Recorder route number as defined in LD 16.
MDID	(NO) YES	No Answer DID calls routed to Message Center Prompted with Message Waiting Center (MWC) package 46 and OPT = MCI.
MFID	a	Manufacturer Identifier. a = any alpha character 'X' followed by the Manufacturer Identifier of the Message Waiting Indication Non Specified Information table to delete. 'XALL' to remove all the existing Message Waiting Indication Non Specified Information tables.
MHLD	(NO) YES	Manual Hold after inquiry is not required Manual Hold after inquiry is required
MPO_DATA	(NO) YES	Change Multi Party Options
MPOP	(NO) YES	Multi-Party Operations Do not define certain multi-party options Define certain multi-party options Prompted with Multi-Party Operations (MPO) package 141.
MSCD	(NO) YES	Mandatory Speed Call Delimiter End of dial speed call delimiter is optional A delimiter is required to store the number. A confirmation tone is given if this option is configured.

LD 15

Prompt	Response	Comment
		MSCD is prompted with package scc-1.
MSSC	a	a = any alphanumeric character Manufacturer-specific service character for Message Waiting Notification.
MTAR	(NO) YES	Disable Meridian Mail Trunk Access Restriction Enable Meridian Mail Trunk Access Restriction MTAR is prompted if OPT = MCI and Message Center (MWC) package 46 is equipped.
MURT	0-511 X	Music Route Prompted if WAIT = MUS. To remove.
MUS	(NO) YES	Music for Sets Prompted with Enhanced Music (EMUS) package 119.
MUSR	(0)-511	Music Route for Sets The default is route "0" which is not normally a music route. Enter X to remove. Prompted if MUS = YES.
MWFB	(NO) YES	DID calls to busy telephones routed to Message Center Prompted with Message Waiting Center (MWC) package 46 and when OPT = MCI.
NBLK	(OVF OVF OVF ATN)	NARS/BARS blocked calls
NCOS	(0)-99	Network Class of Service for all Attendant consoles in this customer.
NDID	(NO) YES	No Answer non-DID calls routed to Message Center Prompted with Message Waiting Center (MWC) package 46 and when OPT = MCI.
NET_DATA	(NO) YES	Change ISDN and ESN networking options

Prompt	Response	Comment
NFCR	(NO) YES	New Flexible Code Restriction Do not enable New Flexible Code Restriction Enable New Flexible Code Restriction To build an IDC table in LD 49, NFCR and IDCA must be set to YES. NFCR is prompted with New Flexible Code Restriction (NFCR) package 49.
NFNA	(0)-63	Night Forward No Answer ring cycles The number of times a DID/DOD and CO trunk call will ring a set before being disconnected during Night Service. Prompted if OPT = DNCA.
NFNS	(0)-504	Night Forward No Answer Seconds If a value is entered for this prompt all outgoing CO/DOD trunk calls in a waiting state, and all incoming CO/DID trunk calls in the answered state will be disconnected after the time in seconds expires as entered in this prompt. The entered value must be a multiple of 8. Prompted if OPT = DNCS.
NINV	(OVF OVF OVF ATN)	Invalid NARS/BARS call
NIT	2-(8)	Network Alternate Route Selection (NARS) Interdigit Timer
NIT_DATA	(NO) YES	Change Night Service options
NIT1	x...x	First Night Service DN by time of day Up to four night service DNs can be defined. The time of day is specified by the prompts TIM1 to TIM4.
NIT2	x...x	Second Night Service DN by time of day
NIT3	x...x	Third Night Service DN by time of day
NIT4	x...x	Fourth Night Service DN by time of day
NIT5	x...x	Network Alternate Route Selection Interdigit Timer
NITR	(OVF OVF OVF ATN)	NARS/BARS invalid translation
NNT	0-253	Night Number Table

LD 15

Prompt	Response	Comment
		Speed Call List number designated to be used as the Night Number Table
NOTI	(NO) YES	Non Specified Information string for Message Waiting Notification.
NRES	(OVF OVF OVF ATN)	NARS/BARS calls which are restricted by Supplemental Digit Restriction (SDRR) intercept treatment. See prompt INTR for details.
NRWU	2-(5)	Number of Rings for Wake Up before recall to attendant
NSCP	(NO) YES	Network Station Camp-On to sets on this node allowed
NSO	0-9	Night Service Option number
NWT	(NO) YES	Night Call Waiting Tone enabled
OAS_DATA	(NO) YES	Change Off-Hook Alarm Security options
OCB1		Outgoing Call Barring level 1
	(0) – [MAXT-1]	NFCR tree number to be used for OCB level 1. You may enter any digit between zero and your response to the MAXT prompt minus one. The default entry to OCB1 is zero (0).
	255	255 is a special entry which disallows this level.
OCB2		Outgoing Call Barring level 2
	(0) – [MAXT-1]	NFCR tree number to be used for OCB level 2. You may enter any digit between zero and your response to the MAXT prompt minus one. The default entry to OCB2 is zero (0).
	255	255 is a special entry which disallows this level.
OCB3		Outgoing Call Barring level 3
	(0) – [MAXT-1]	NFCR tree number to be used for OCB level 3. You may enter any digit between zero and your response to the MAXT prompt minus one. The default entry to OCB3 is zero (0).
	255	255 is a special entry which disallows this level.
ODN0	xxxx	OHAS DN for zone 0
ODN1	xxxx	OHAS DN for zone 1
ODN2	xxxx	OHAS DN for zone 2

Prompt	Response	Comment
ODN3	xxxx	OHAS DN for zone 3
ODN4	xxxx	OHAS DN for zone 4
ODN5	xxxx	OHAS DN for zone 5
ODN6	xxxx	OHAS DN for zone 6
ODN7	xxxx	OHAS DN for zone 7
ODN8	xxxx	OHAS DN for zone 8
ODN9	xxxx	OHAS DN for zone 9
OHAS	(NO) YES	Off-Hook Alarm Security Enter X to remove the OHAS DNs for the following zones.
OMPH	(NO) YES	CDR for outgoing packet data call This is the Call Detail Records for an outgoing packet data call from the Meridian Packet Handler to the Public Switched Packet Data Network
OPT	aaa	Options Multiple options separated by spaces are allowed in response to the OPT prompt. The last option must be followed by a carriage return <cr>. The <cr> inputs the options selected and is followed by either the next prompt or a system message.
	(BIND) BBIN EBIN	Break-In Indication Denied Basic Break-In Indication Extended Break-In Indication Only with Attendant Break-In (BKI) package 127.
	(BIXA) BIXD	Break-In to external call Allowed Break-In to external call Denied Only with Attendant Break-In (BKI) package 127.
	(BLA) BLD	Break-In to Line Lockout Set Allowed Break-In to Line Lockout Set Denied Only with Attendant Break-In (BKI) package 127.

LD 15

Prompt	Response	Comment
	(CFO) CFF	Call Forward Originating Call Forward Forwarding Either the Originating or Forwarding party's Class of Service is used to determine access to services or features on Call Forward.
	(CFRD) CFRA	Call Forward Reminder tone for 500/2500 telephone Call Forward Reminder tone for 500/2500 telephone
	(COX) COP	Central Office call No Priority for Ringing Central Office call Priority for Ringing Number Pickup or RNPU and Group Call Pickup GPUA
	(CPD) CPA	Call Park Denied Call Park Allowed. Call Park (CPRK) package 33 must be equipped.
	CPN	CPN enables the Call Park Network wide (CPRKNET) option. CPRKNET package 306 must be equipped.
	(CTD) CTA	Camp-On Tone Denied Camp-On Tone Allowed
	(CWRD) CWRA	CFNA treatment for Call Waiting calls on a DN Denied CFNA treatment for Call Waiting calls on a DN Allowed
	(DBD) DBA	Flexible Incoming Tones Denied on digital sets Flexible Incoming Tones Allowed on digital sets
	(DNCA)	If DNCA is entered, all DID/CO or DOD calls are disconnected after the number of ring cycles defined by the response to the NFNA prompt while the system is in Night Service.
	(DNX) DNI	ACD Dialed Number Identification Service feature excluded ACD Dialed Number Identification Service feature Included Only with Dialed Number Identification Service (DNIS) package 98
	(DSX) DSI	Data Services or server IS Excluded Data Services or server IS Included Only with Attendant Break-In (BKI) package 127.
	(FKA) FKD	Forward Key Allowed Forward Key Denied
	(HRLD) HRLA	Individual Hold Release Option Denied. Individual Hold Release Option Allowed.

Prompt	Response	Comment
(HTU) HTR	Hot Line access Unrestricted Hot Line access Restricted	If Restricted only Hot Line calls may terminate on Hot Line DN's. Only with Enhanced Hot Line (HOT) package 70.
(HVD) HVA	Handsfree Voice call Denied Handsfree Voice call Allowed	
(IC1) IC2	Incoming Call Indicator key/lamp strips One key/lamp strip = 10 ICIs Two key/lamp strips = 20 ICIs	
(IHD) IHA	Individual Hold Denied Individual Hold Allowed	
(LOD) LOA	Lockout Denied Lockout Allowed	LOA locks an attendant out of re-entering an established call on the console Hold key. The attendant can override with the Barge-In feature.
(LRD) LRA	Last Number Redial Denied Last Number Redial Allowed	Only with Last Number Redial (LNR) package 90.
(MCTD) MCTA	Malicious Call Trace signal Denied Malicious Call Trace signal Allowed	Only with Malicious Call Trace (MCT) package 107
(MCX) MCI	Message Center Excluded Message Center Included	
(MWUD) MWUA	Message Waiting Unconditional Denied Message Waiting Unconditional Allowed	
(PVCA) PVCD	Prevention of reciprocal Call Forward Allowed Prevention of reciprocal Call Forward Denied	
(REA) RED	Release on Exclusion Allowed Release on Exclusion Denied	
(RND) RNA	Ring Again No Answer Denied Ring Again No Answer Allowed	

LD 15

Prompt	Response	Comment
	(ROX) ROI	Recorded Overflow Announcement Excluded Recorded Overflow Announcement Included This treatment applies exclusively to congested consoles with Recorded Overflow Announcement (ROA) package 36.
	(RTD) RTA	Coordinated Dialing Plan routing feature Denied Coordinated Dialing Plan routing feature Allowed RTA allows DID routing with Distant Steering Codes over CO and WATS trunks. Only with Call Detail Recording (CDP) package 59.
	(RTR) ROR	Terminating side of call determines ringing or buzzing cadence used Originating side of call determines ringing or buzzing cadence used Only with Flexible Tones and Cadences (FTC) package 125.
	(SBD) SBA	Flexible Incoming Tones Denied for SL-1 telephones Flexible Incoming Tones Allowed for SL-1 telephones Only with Flexible Tones and Cadences (FTC) package 125.
	(SYD) SYA	Secrecy Denied Secrecy Allowed
	(TTAD) TTAA	Time To Answer and Abandoned call records Denied Time To Answer and Abandoned call records Allowed Only with New Format CDR (FCDR) package 234.
	(VOBD) VOBA	Make Set Busy and Voice Call Override Enhancement Denied Make Set Busy and Voice Call Override Enhancement Allowed
	(XBL) IBL	Exclude Enhanced Busy Lamp Field Include Enhanced Busy Lamp Field IBL and ILF cannot be used together. Only with M2250 Attendant Console (DCON) package 140.
	(XDP) IDP	Exclude Digit Display Include Digit Display
	(XLDN) NLDN	Network-wide LDN denied Network-wide LDN allowed

Prompt	Response	Comment
	(XLF) ILF	Exclude Busy Lamp Field array Include Busy Lamp Field array Busy Lamp Field Array is only used on QCW type consoles. IBL and ILF cannot be used together.
	(XTG) ITG	Exclude key/lamp expansion module Include key/lamp expansion module Used as Trunk Group Busy field or supervisory lamp field
PBLK	(ATN) RAN CPAS OVF	Call presented has higher precedence. Attendant Ran trunk Central Precedence answering station Overflow tone
PCDS	(NO) YES	Programming of Control Digits is not required Programming of Control Digits is required
PCMC	0-(15)-31	Pulse Code Modulation Conversions permitted in a network connection, μ -Law to A- Law or A- Law to μ -Law, in a network connection
PELK	(NO) YES	Do not enable Electronic Lock on Private Lines Enable Electronic Lock on Private Lines
PFAN	(ATN) RAN CPAS	Intercept if dialed DN fails to answer (Call waiting) Attendant Ran trunk Central Precedence answering station
PFNA	(ATN) RAN CPAS	Intercept if dialed DN fails to answer Attendant Ran trunk Central Precedence answering station
PHDT	1-(30)-63	Permanent Hold Timer Number of two second intervals between reminders, for example: 30 = 60 seconds. If Audible Reminder of Held Calls (ARHC) is enabled then DBRC takes precedence over PHDT. Prompted with 2500 Set Features (SS25) package 18.
PHIP	(ATN) RAN	Precedence dialed is higher than allowed. Attendant Ran trunk

LD 15

Prompt	Response	Comment
	CPAS OVF	Central Precedence answering station Overflow tone
PICP	(ATN) RAN CPAS OVF	Intercept treatment if called party cannot be preempted. Attendant Ran trunk Central Precedence answering station Overflow tone
PINT	(NO) YES	Change precedence Intercept treatment.
PINX_DN	xx...x	Node DN
PKND	(1)-4	Number of digits Dialed for Group Pickup Prompted with Directed Call Pickup (DCP) package 115. To determine the number of digits, count the number of digits of the highest number RNPG group.
PNI	1-32700	Private Network Identifier Each customer data block must have a unique PNI when multi-customer option is equipped. The PNI in the CDB functions as a logical customer number for routing incoming non-call-associated Transaction Capability Application Part (TCAP) facility messages to the appropriate ESN translations. PNI = 1 is typical for customer 0. It must be matched by the PNI in the far end RDB. Default PNI = 0 prevents the operation of features such as NRAG, NACD and NMS. Within one network, use the same value for PNI in both LD 15 and LD 16. When inter-working with different networks, the LD 15 PNI is for the local system and the LD 16 PNI is for the target or remote switch.
PORT	0-15 <cr>	CDR port Stop PORT prompt To remove a CDR port, change CDR = NO. Exit and re-enter LD 15, select CDR = YES, then add only the desired CDR port numbers. Precede with X to remove.
PORT	(0)-15	Serial Data Interface Port Monitor One Serial Data Interface Port Monitor per customer is recommended.

Prompt	Response	Comment
PREO	(0) 1	Pretranslation Option Disabled Enabled To enable the Pretranslation feature, the Pretranslation data block or Calling Group to Speed Call correlation must be configured in LD 18. Prompted with Pretranslation (PXLT) package 92.
PRMT	aaa	aaa = sequence of any alphanumeric character. max of 126 characters. Subsequent Non Specified Information parameters for Message Waiting notification. 'PRMT' is re-prompted until <CR> is entered, then the next prompt 'CANC' is prompted.
PSTN	(NO) YES	Public Service Telephone Networks Limit the number of PSTNs allowed in a network connection to one PSTN. The default (NO) puts no limit on the number of PSTN connections.
PWD_DATA	(NO) YES	Customer related passwords
PWD2	x...x	Second level administration Password Password length is 4-16 characters and is defined in LD 17. The SPWD password is not updated unless the PWD2 password is entered correctly. PWD2 must be entered before new ATAC is accepted.
R2BN	0-23 0-59	RAN2 Begin time
R2ED	0-23 0-59	RAN2 End time
RALL	(NO) YES	Mandatory Recall is not required prior to dialing control digits Mandatory Recall is required prior to dialing control digits
RAN1	0-127	Primary Ran route. Use RAN1 as the Primary route for Language 0 in a Multi Language AWU application. The route must be unique. TYPE must = AWR in LD 16.

LD 15

Prompt	Response	Comment
RAN2	0-127	Secondary RAN route. Use RAN2 as the Secondary route for Language 0 in a Multi Language AWU application. The route must be unique. TYPE must = AWR in LD 16.
RANF	0-127	Music route. TYPE must = AWR in LD 16.
RANR	0-127	RAN Route number
RCLE	(ATN OVF ATN ATN)	Redirection Count Limit Exceeded as defined by TRCL ATN is not allowed for attendant calls. NAP is not allowed for any field for RCLE.
RCNT	0-(1)-5	Redirection Count for ISDN calls Maximum number of inter-node hops allowed in a network redirection call, only enforced when ISDN = YES. This field must be set to greater than 0 for a network redirection to take place.
RCY1	1-(6)-15	Number of Cycles of Re-ringing before forwarding to attendant or disconnecting. Applies only if RGNA = DAR or AAR.
RCY2	1-(4)-15	Number of Cycles of Ringing before forwarding to transferring station Valid only for the RGNA option.
RDR_DATA	(NO) YES	Change Call Redirection
RECD	(NO) YES	Malicious Call Trace Recorder is not activated Malicious Call Trace Recorder is activated Not prompted when defining a new customer.
REF0	xxxx	DN for Reference trunk 0
REF1	xxxx	DN for Reference trunk 1
REF2	xxxx	DN for Reference trunk 2
REF3	xxxx	DN for Reference trunk 3

Prompt	Response	Comment
REQ:		Request A colon following a prompt indicates enhanced processing. Enhanced processing allows a user to either view a list of possible responses or input an abbreviated response.
	?	Get a list of possible responses
	CHG	Change existing data block
	END	Exit overlay program
	NEW	Add new data block to the system
	OUT	Remove data block
RGNA	xxx yyy	Ringing No Answer treatment Where xxx is for internal calls and yyy is for external calls. Valid entries for xxx and yyy are: <ul style="list-style-type: none"> • AAR - Forward to Attendant or Night Service after re-ringing for RCY1 cycles • ATN - Forward to Attendant or Night Service • DAR - Disconnect After Re-ringing for RCY1 cycles • DIS - Disconnect • OVF - provide Overflow Tone • (STD) - Standard Operation (this is the default)
RICI	xx	ICI key numbers that may receive ROA Where: x = 0-9 if OPT = IC1 or 0-19 if OPT = IC2 Precede with X to remove.
RLA	0-127	Release Link route number. Route 31 is no longer an exclusively private route, unless designated as such in LD 16.
RLI	0-999	Route List Index
ROA_DATA	(NO) YES	Change Recorded Overflow Announcement
RPA	(NO) YES	Radio Paging Allowed
RR	0-127	RAN route number.

LD 15

Prompt	Response	Comment
RTIM	xxx yyy zzz	<p>Recall. Where:</p> <ul style="list-style-type: none">• xxx = 0-(30)-378 (for Slow-Answer)• yyy = 0-(30)-510 (for Camp-On)• zzz = 0-(30)-510 (for Call waiting) <p>These timers indicate in seconds the elapsed time before attendant recall. Slow Answer must be a multiple of six seconds while Camp-On and Call Waiting must be a multiple of two seconds, with odd numbers are rounded down.</p> <p>To change one timer all three fields must be input.</p> <p>For recalls timed at the local node using the redirection feature developed for DPNSS, no distinction can be made between Call Waiting calls and Slow-Answer recalls. The Slow-Answer value is used in both cases.</p>
RTSA	(RSAD) RSAA RSAX	<p>Recall To Same Attendant Denied</p> <p>Recall To Same Attendant Allowed</p> <p>Recall to Same Attendant allowed, with queuing on busy attendant</p>
SACP	(NO) SNGL ALL	<p>Semi-Automatic Camp-On not allowed</p> <p>Semi-Automatic Camp-On on a per-call basis</p> <p>Semi-Automatic Camp-On for all occurrences</p>
SATD	0-(1)-5	<p>Satellite Delays. Number of satellite delays allowed in a network connection</p>
SBLF	(NO) YES	<p>Standard Busy Lamp Field</p> <p>Prompted when response to SPVC is in the range 1-63.</p>
SBUP	(YES) NO	<p>Enable use of station control passwords for set based administration user level access.</p> <p>If SBUP = YES, a user needs to dial the User FFC followed by the Station Control Password to access User Level changes. If SBUP = NO, a user needs to dial only the User FFC.</p>
SCPL	0-8	<p>Station Control Password Length</p> <p>Must match network wide. SCPL replaces ELPL prompt.</p> <p>Enter "0" to disable the Electronic Lock (ELK) and Remote Call Forward (RCFW) features. A data dump and SYSLOAD are required to implement a change in the password length.</p>

Prompt	Response	Comment
SDFL	384-(1024)-2048	Signal Destination Flash Timing
SIZE	0-(256)-4000	Specify maximum number of CLID entries needed.
SPRE	xxxx	Special Prefix number (1-4 digits) Precede with X to remove. The prefix must not conflict with the numbering plan.
SPVC	(0) 1-63	Supervisory console No Supervisor console Attendant number of Supervisory console Prompted with Supervisory Attendant Console (SPVC) package 93.
SPWD	xxxx	Secure Data Password Precede with X to remove. This password is entered when using LD 88 for authorization codes and LD 24 for Direct Inward System Access (DISA) block.
SRCD	0000-9999	Set Relocation Security Code. Default is (0000). Precede with X to remove. Prompted with Set Relocation (SR) package 53.
SRRT	0-127 X	Second RAN Route for ROA. Enter X to remove.
SRT	2-(40)-2044	Second RAN Time, in seconds before second RAN given
STCB	(NO) YES	Station Camp-On Busy allowed
STRG	(#), xxx	String to indicate end-of-dialing Up to three characters are allowed as defined by STRL. Valid entries are: digits 0 through 9, asterisk or *, and octothorpe or #. Default is (#). The default (#) cannot be used with the Outpulsing, Asterisk, and Octothorpe (OPAO) feature package 104.
STRL	1-3	String Length of end-of-dial indicator
T100	xxx...x	DN for Type-100 test line
TGLD	0-(1)-9, *, #	Control digit for Toggle

Prompt	Response	Comment
TIM_DATA	(NO) YES	Change Timers
TIM1	hh mm	Hour and Minute for First Night Service DN. Enter the hour and minute for First Night Service DN. Where: hh = 0-23, mm = 0-59 Enter X to remove the time. TIM1 should be set earlier than TIM2, 3 and 4. If no time is entered here, the system assumes a 24-hour clock.
TIM2	hh mm	Time for Second Night Service DN
TIM3	hh mm	Time for Third Night Service DN
TIM4	hh mm	Hour and Minute for Fourth Night Service DN For all of the entries in the Night Service Time of Day (NSTOD) feature, entering X for the DN deletes the existing value for that entry. Entering <cr> allows the user to select an existing entry, or skip to another entry.
TIME	0-(15)	Malicious Call Trace Alarm Time
TNDM	0-(15)-31	Tandem threshold/loop avoidance limit This is the value permitted in a network connection. If the value entered is greater than 25, then 25 will be used for DPNSS calls. Prompted when Integrated Services Digital Network (ISDN) package 145 and ISDN Supplementary Features (ISDN INTL SUP) package 161.
TRCL	(0)-7	Total Redirection Count Limit Number of times that a call can be redirected before being intercepted. (0) means that redirection is not limited by this feature, but is limited by various configurations.
TRCR	(NO) YES	Carriage Return sent after each CDR message
TRNX	(NO) YES	Prevent transfer on ringing of supervised external trunks across a private network Allow transfer on ringing of supervised external trunks across a private network
TST_DATA	(NO) YES	Change Test lines

Prompt	Response	Comment
TST0	xxxx	DN for Test Trunk 0
TST1	xxxx	DN for Test Trunk 1
TST2	xxxx	DN for Test Trunk 2
TST3	xxxx	DN for Test Trunk 3
TSTL	(NO) YES	<p>Test Lines for this customer</p> <p>Up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150.</p> <p>The following prompts are used for transmission testing. Refer to NTP 553-2001-325 Transmission Capabilities.</p>
TTBL	(0)-31	<p>Tone Table number</p> <p>Table 0, North American default values, is created when the first customer is created. Refer to the <i>Flexible Tone and Digit Switches</i> NTP for other tables.</p> <p>Prompted with Flexible Tones and Cadences (FTC) package 125.</p>
TYPE:	CDB DEFAULT ?	<p>Type of data block</p> <p>Customer Data Block</p> <p>Default Customer Data Block (when REQ = NEW)</p> <p>Get list of possible responses</p> <p>You may directly access a given data block by entering the first three or all the letters of one of the responses listed below.</p> <p>A colon following a prompt indicates enhanced processing. Enhanced processing allows a user to either view a list of possible responses or input an abbreviated response.</p> <p>You may view the revised <i>Prompts and responses</i> sequence for LD 15 on page 163.</p> <p>Gate openers:</p> <p>AML_DATA Application Module Link options</p> <p>ANI_DATA Automatic Number Identification numbers</p> <p>ATT_DATA Attendant Console options</p> <p>CCS_DATA Controlled Class of Service options</p> <p>CDR_DATA CDR and Charge Account options</p> <p>FCR_DATA New Flexible Code Restriction options</p>

LD 15

Prompt	Response	Comment
	FFC_DATA	Flexible Feature Code options
	FTR_DATA	Features and options
	IMS_DATA	Intergraded Message Service options
	INT_DATA	Intercept treatment options
	LDN_DATA	Departmental Listed Directory Numbers
	MPO_DATA	Multi-Party Options
	NET_DATA	ISDN and ESN Networking options
	NIT_DATA	Night Service options
	OAS_DATA	Off-Hook Alarm Security options
	PWD_DATA	Customer related Passwords
	RDR_DATA	Call Redirection
	ROA_DATA	Recorded Overflow Announcement options
	TIM_DATA	Timers
	TST_DATA	Test lines
UBRI	(OVF NAP NAP NAP)	Universal BRI
UMG	(NO) YES	User to User Messaging enabled
UST	(NO) YES	User Status Update enabled
VNR	(NO) YES	Vacant Number Routing Prompted with Flexible Numbering Plan (FNP) package 160.
VSID	0-15	Value added Server Identifier Enter the identifier number of the Value-Added Server or VAS providing the services such as Voice Messaging. Enter X to remove the VSID.
WAIT	(RGB) MUS SIL	Treatment during waiting time for ROA Ringback Music Silence
XRFP	x...x	External Attendant Remote Call Forward Password The password length is 1-8 digits. The password is numeric only.
XRFR	(NO) YES	External Attendant Remote Call Forward Password Required

LD 16—Route Data Block, Automatic Trunk Maintenance

This Overlay program allows data for trunk routes, ATM schedule hours, or ATM routes to be created or modified.

When the Overlay is loaded the available system memory and disk records are output in a header as follows:

RDB000

MEM AVAIL: (U/P): xxxxxx USED: xxxxx TOT: xxxxxxxx

DISK RECS AVAIL: xxxxx

Trunk route 31 is no longer reserved for Private routes. Private routes can be configured individually by the customer on any available CO trunk route.

After making any changes to the route data block, IPE trunk cards must be downloaded with **ENLC c** command in LD 32.

Prompts and responses

Table of Contents

Section	Page
<i>Prompts and responses by data block :</i>	
RDB: Route data block	page 224
<i>Other Information :</i>	
Table 4 Release Mechanism Options	page 231

RDB: Route data block

Prompt	Response	Comment
REQ	aaaa	Request (aaaa = CHG, END, LCHG, NEW, or OUT)
TYPE	RDB	Type of data block = RDB (Route data block)
CUST	(0)	Customer number
DMOD	nn	Default model
ROUT	0-127	Route Number
DES	x...x	Designator field for trunk (0-16 character alphanumeric)
TKTP	a...a	Trunk Type (TKTP responses begin on page 266)
PRIV	(NO) YES	Private Line Route
ESN	(NO) YES	Electronic Switched Network or ESN pad control
SIGL	a...a	Layer 3 Signaling (a...a = APNS, BEL, DAS, DPN, NT4, or NTS)
CNVT	(NO) YES	Conventional (applies only to Tie trunks)
- DDMI	(0)-255	Digit Manipulation Index
- ATDN	(0)-x...x	Attendant DN
SAT	(NO) YES	Satellite used for trunk route via earth orbiting satellite
RCLS	aaa	Route Class (aaa = (EXT) or INT)
IDEF	(NET) LOC	Internal/external definition
DTRK	(NO) YES	Digital Trunk Route

- IFC	a...a	Interface type for route (IFC responses are listed on page 244)
- CLID	OPTx	Calling Line Identification (x = 0, 1, 2, 3, 4, or 5)
- PROG	a...a	Progress signal (a...a = NCHG, MALE, or MCON)
- SBN	(NO) YES	Send Billing Number
- SIDE	aaa	Meridian SL-1 Node Type (aaa = (NET) or USR)
- RCAP	a...a	Remote Capabilities (RCAP responses can be found on page 255)
BCOT	(0) - 4000	B-Channel Overload Control timer
INTC	(NO) YES	Speech calls to data sets are (NO = rejected; YES = intercepted) by the an attendant
ISDN	(NO) YES	Integrated Services Digital Network option
- MODE	a...a	Mode of operation (a...a = APN, ISLD, or PRA)
- DCH	0-15	D channel number
- DCHI	1-15	DCHI port number
- IFC	a...a	Interface type for route (IFC responses are listed on page 244)
- SBN	(NO) YES	Send Billing Number
- SRVC	a...a	Service type for AT&T ESS connections (SRVC responses can be found on page 260)
- - SRPM	0-(15)-255	Service Parameter
- - PNI	(0)-32700	Private Network Identifier
- NCNA	(YES) NO	Network Calling Name Allowed
- NCRD	(NO) YES	Network Call Redirection
- - TRO	(NO) YES	Trunk Route Optimization
- INAC	(NO) YES	Insert ESN Access Code to incoming private network call
- NSF	(NO) YES	Network Service Facility
- COTR	0-511	DID/CO Trunk Reference route number
- TIER	0-511	Tie Reference route number
- WATR	0-511	Wide Area Telephone Service or WATS Reference route
- CHTY	a...a	Channel Type (a...a = (BCH) or ABCH)
- CTYP	a...a	Call Type for outgoing direct dialed TIE route (a...a = (UNKN), CDP, INTL, LOC, NPA, NXX, or SPN)
- INAC	(NO) YES	Insert ESN Access Code
- ISAR	(NO) YES	Integrated Service Access Route
- - RTN	0-511	Route Number
- - CBCR	(NO) YES	Service route indicator
- - FACY	(NO) YES	Facility indicator

-- SID	0-511	Service Identification
-- MIN	0-254	Minimum number of channels
-- MAX	1-254	Maximum number of channels
-- PRIM	(YES) NO	Primary
-- NCOS	(0)-99	Network Class of Service group number
-- CLS	a...a	Class of Service (a...a = (CTD), CUN, FR1, FR2, FRE, SRE, TLD, or UNR)
-- TGAR	0-(1)-31	Trunk Group Access Restrictions
- IEC	001-999	Inter-Exchange Carrier ID
CPFXS	(YES) NO	Customer-defined Prefixes
HNTN	0-9999	Home National Number
HLCL	0-9999	Home Local Number
ADDP	(NO) YES	Add Public Prefixes
- DSEL	aaa	Data Selection (aaa = (VOD), DTA, TDN, 3VC, 3DA, or VCE)
PTYP	a...a	Port Type at far end (PTYP responses begin on page 254)
AUTO	(NO) YES	Auto terminate
- DNIS	(NO) YES	ACD DNIS route
- - NDGT	x	Number of DNIS Digits (aaa = 3 or 4)
- - WDGT	a	First or last 4 DNIS digits to be sent on APL and HSL (a = (L) or F)
- - DCDR	(NO) YES	Include DNIS number in CDR records
IANI	(NO) YES	In-Band Automatic Number Identification route
RTYP	aaa	Recording device for RAN trunks (aaa = AUD, CAP, CK2, CKM, CON, DGT, LVL, or PUL)
- LGTH	4-(60)- 7200	Maximum message length in seconds
- GRD	aaaa	Ground Start Arrangement (aaaa = (IDLE) or PLAY)
REP	1-15	Repetitions of recorded announcements
POST	aaa	RAN Post announcement treatment (aaa = DIS or ATT)
STRT	aaa	Start arrangement (aaa = IMM or DDL)
WAIT	(RGB) MUS	Ringback for calls queueing for RAN trunk
- MRT	0 - 511	Music route for RAN queueing
ASUP	aaa	Answer Supervision returned by RAN to originator (aaa = (NO), YES, or CO)
SIGL	aaa	Signaling interface for CAMA trunks (aaa = BEL, NT4, or NT5)
FORM	aaa	Format for CAMA trunk signaling (aaa = M1A, M2B, or M3C)
AUDN	xxxx	Auto termination DN for ISA service routes

ICOG	aaa	Incoming and Outgoing trunk (aaa = IAO, ICT, or OGT)
RANX	(NO) YES	RAN for calls diverted to external trunks
- RANR	0-511	RAN Route number for the desired RAN route
SRCH	aaa	Search method for outgoing trunk member (aaa = (LIN) or RRB)
TRMB	(YES) NO	Tromboning
STEP	0-511	Alternate trunk route for outgoing trunks
FACN	(0) - 99999	Tie or FX facility number
BAND	(0) - 99	OUTWATS band number
ACOD	x...x	Access Code for the trunk route
CLEN	0 - (1)- 3999	CLID entry number
CPP	(NO) YES	Calling Party Privacy Flag
- TCPP	(NO) YES	CPP flag for incoming non-ISDN trunk call tandemed to this trunk route
- DTPI	(*67) nnnn	Privacy indicator for a digitone trunk
- DPPI	(1167) nnnn	Privacy indicator for a dial-pulse trunk
TARG	0-(1)-31	Trunk Access Restriction Group
BILN	(NO) YES	Billing Number Required
- BLEN	1-(10)-16	Billing Number Length
- BNUM	0-x...x	Billing number (1 to 16 digits depending on BLEN)
- BDSP	(NO) YES	Billing Number Displayed
ATGT	(0)-60	ADM Trunk Guard Timer
ASTP	1-(2)-15	ADM Step-Forward ring cycles
SGRP	(0)-999	Scheduled Access Restriction Group
OABS	0-9	Actual outgoing toll digits to be ignored for Code Restriction
IABS	(0)-3	Number of incoming digits to be absorbed
CAT	00-99	CAMA trunk route category digits
ID	(0)-9	Identification digit for CAMA trunk routes
STRK	(NO) YES	Super Trunk group feature
SPTO	(NO) YES	Super Trunk Option
ANKP	(NO) YES	KP signal suppressed
INST	(0)-99999999	Insert
JDGT	1-(4)	Japan central office Digits
IDC	(NO) YES	Incoming DID Digit Conversion on this route
- DCNO	(0)-254	Day IDC tree number
- NDNO	0-254	Night IDC tree number

- DEXT	(NO) YES	Display External dialed digits
- - DNAM	(NO) YES	Display IDC Name
ANTK	x...x	ANI identifier number
SIGO	a...a	Signaling arrangement (a...a = (STD), ESN2, ESN3, ESN5, ETN, or EN19)
- STYP	aaaa	Standard Signaling Type (aaaa = (SDAT) or STDN)
MFC	(NO) YES	Multifrequency Compelled or MFC Signaling
ICIS	(YES) NO	Incoming Identifier Send
ICDN	x...x a...a	Incoming route DN (x...x = 1-7 digit CLID DN; a...a = (NO) or CLID entry of 0-125 for trunk DN)
ICNP	a...a	Incoming Numbering Plan (a...a = (UKWN), PUB, or PRV)
ICNT	a...a	Incoming Numbering Type (a...a = (UKWN), INTL, NTN, LCL, LOC, CDP or SPN)
ICPS	(YES) NO	Incoming Presentation Status
OGIS	(YES) NO	Outgoing Identifier Send
OGDN	x...x a...a	Outgoing route DN (x...x = 1-7 digit CLID DN; a...a = (NO) or CLID entry of 0-125 for trunk DN)
OGNP	a...a	Outgoing Numbering Plan (a...a = (UKWN), PUB, or PRV)
OGNT	a...a	Outgoing Numbering Type (a...a = (UKWN), INTL, NTN, LCL, LOC, CDP or SPN)
OGPS	(YES) NO	Outgoing Presentation Status
CNTL	(NO) YES	Changes to Controls or timers
- TIMR	aaa xxx	Trunk Timers (TIMR range definitions begin on page 262)
- SST	xx y	Seizure Supervision Timer in seconds
NEDC	aaa	Near End Disconnect Control (aaa = ORG or ETH)
FEDC	aaa	Far End Disconnect Control (aaa = (ORG), ETH, JNT, or FEC)
CPDC	(NO) YES	SL-1 is the only Controlling Party on incoming calls
SPCT	aaa	Speech Path Cut-Through (aaa = (IMM) or DLY)
DLTN	(NO) YES	Dial Tone on originating calls
- TOV	(0)-3	Data Timeout Value
- PSEL	aaaa	Protocol Selection (aaaa = (DMDM) or TLNK)
- OPE	(NO) YES	Change data port Operating parameters
- - PSDS	(NO) YES	Public Switched Data Service option
- - TRAN	a...a	Transmission mode (a...a = (ASYN) or SYN)
- - PAR	a...a	Parity for data port (a...a = (SPAC), EVEN, MARK, or ODD)
- - DTR	(OFF) ON	Data Terminal Ready
- - DUP	aaaa	Duplex for data port (aaaa = (FULL) or HALF)

-- DCD	(ON) OFF	Data Carrier Detect
-- MOD	(NO) YES	Mode for synchronous operation
-- INT	(OFF) ON	Interworking
-- CLK	(OFF) ON	Clock source for synchronous operation
-- V25	(NO) YES	V.25 bis option for synchronous operation
-- HDLC	(NO) YES	High Level Data Link Control
-- DEM	aaa	Data Equipment Mode (aaa = (DCE) or DTE)
-- PBDO	(OFF) ON	Port Busy upon DTR Off
ANDT	(NO) YES	Automatic Number Identification Dial Tone
HOLD	ic dc ht	Hold failure threshold
SEIZ	ic dc	Seize failure threshold
RGFL	ic dc	Ring Failure threshold
RVSD	ic dc	Reversed wired CO trunk threshold
ILLR	ic dc	Illegal Ring threshold
SVFL	ic dc	Supervision Failure
DRNG	(NO) YES	North American Distinctive Ringing for incoming calls
BTUA	(NO) YES	Block Transfer of Unanswered Call
CDR	(NO) YES	Call Detail Recording
- INC	(NO) YES	CDR records generated on incoming calls
- LAST	(NO) YES	CDR record printing content option for redirected calls
- TTA	(NO) YES	Time To Answer output in CDR
- ABAN	(NO) YES	Abandoned call records output for this route
- QREC	(NO) YES	CDR ACD Q initial connection records to be generated
- OAL	(NO) YES	CDR on outgoing calls
-- OTL	(NO) YES	CDR on Outgoing Toll calls
-- AIA	(NO) YES	Answered call Identification Allowed
-- OAN	(YES) NO	CDR timing starts On Answer supervision of outgoing calls
-- OPD	(NO) YES	Outpulsed Digits in CDR
- CDRX	(NO) YES	Print CDRX records on multiple call transfer for non-PPM outgoing calls
NATL	(YES) NO	North American Toll scheme
- TDG	x...x	Toll Digits
MUS	(NO) YES	Music On-Hold
- MRT	0-511	Music Route number

MR	aaa	Message Registration (aaa = (NO), DURC, ENDNC, PPM, RVB, STAC, or XLD)
DSPD	(NO) YES	Real Time AOC Display
RACD	(NO) YES	Route traffic information in ACD Reports
RUCS	0-9999	Route Unit Cost
RURC	x y	Route Unit Reference Cost
RUCF	x y	Route Unit Conversion Factor
MULT	(NO) YES	Multiplier for Charge Information
DSPT	0-(10)-60	Charge Display Timer
MANO	(NO) YES	Manual Outgoing trunk route
EQAR	(NO) YES	Enable Equal Access Restrictions
- GCR	(NO) YES	General Carrier Restriction to restrict Equal Access calls
- - NTOL	(DENY) ALLOW	North American Toll calls (i.e., 1+calls)
- - ITOL	(DENY) ALLOW	International Toll calls (i.e., 011+calls)
- SCR	(NO) YES	Selective Carrier Restriction to restrict Equal Access calls
FRL	0-7 0-254	Facility Restriction Level
OHQ	(NO) YES	Off-Hook Queuing
OHQT	(0)-63	Off-Hook Queue Threshold
CBQ	(NO) YES	Call Back Queuing
NDIG	(2)-7	Number of Digits
AUTH	(NO) YES	Authcode
TDET	(NO) YES	Tone Detector required
TTBL	(0)-31	Tone Table number
OHTD	(NO) YES	Off-Hook Timer Delay
PLEV	0-(2)-7	Priority Level
OPR	(NO) YES	Outpulsing Route
OPDL	(0)-8064	Outpulsing Delay in milliseconds
MCTS	(NO) YES	Malicious Call Trace Signal
- MCCD	0-8	Malicious Call Trace request string
- MCDT	(0)-4	Malicious Call Trace Delay Time in seconds
- MCTM	(0)-30	Malicious Call Trace request Timer id
- MTND	(NO) YES	Malicious Call Trace Tandem Disconnect delay
FGNO	(0)-127	Feature Group D block number
ALRM	(NO) YES	Malicious Call Trace Alarm is allowed for external calls
DCTI	(0)-511	Time (in seconds) that an extension is allowed to ring or be On-hold or Call Park before the trunk is disconnected

Release Mechanism Options

The following table indicates whether a release signal is acknowledged or not. YES indicates the release signal is acknowledged, NO indicates the release signal is not acknowledged.

Table 4
Release Mechanism Options

RLSM Option	Incoming Calls		Outgoing Calls	
	Originator On-Hooks first	Terminator On-Hooks first	Originator On-Hooks first	Terminator On-Hooks first
0	NO	NO	NO	NO
1	NO	NO	NO	YES
2	NO	NO	YES	NO
3	NO	NO	YES	YES
4	NO	YES	NO	NO
5	NO	YES	NO	YES
6	NO	YES	YES	NO
7	NO	YES	YES	YES
8	YES	NO	NO	NO
9	YES	NO	NO	YES
10	YES	NO	YES	NO
11	YES	NO	YES	YES
12	YES	YES	NO	NO
13	YES	YES	NO	YES
14	YES	YES	YES	NO
15	YES	YES	YES	YES

Alphabetical list of prompts

Prompt	Response	Comment
ABAN	(NO) YES	Abandoned call records output for this route
ACOD	x...x	Access Code for the trunk route The ACOD must not conflict with the numbering plan. Up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150.
ADDP	(NO)	Add Public Prefixes The prefixes 0 (National) or 00 (International) <i>are not</i> added to the Calling Party Number if the Type of Number (TON) is Public on the set/attendant displays
	YES	The prefixes 0 (National) or 00 (International) <i>are</i> added to the Calling Party Number if the Type of Number (TON) is Public on the set/attendant displays
AIA	(NO) YES	Answered call Identification Allowed Enter YES to output an "A" in the CDR TerID field to indicate answered calls. Prompted when OAL = YES or OTL = YES.
AIOD	(NO) YES	Identification of outgoing calls
ALRM	(NO) YES	Malicious Call Trace Alarm is allowed for external calls
ANDT	(NO) YES	Automatic Number Identification Dial Tone
ANKP	(NO) YES	KP signal suppressed
ANTK	x...x	ANI identifier number Up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. In either case, together with ANLD and ANI Listed DN in LD 15, the total number of digits must be no less than 7.
ASTP	1-(2)-15	ADM Step-forward ring cycles

Prompt	Response	Comment
ASUP	(NO) YES CO	Do not return Answer Supervision by RAN to originator Return Answer Supervision by RAN to originator Return Answer supervision only if the originator is a CO trunk The operation of answer supervision is affected with FCC Compliance for DID Answer Supervision (FC68) package 223. Refer to FCC Compliance for DID Answer Supervision, in X11 features and services.
ATDN	(0)-x...x	Attendant DN of conventional main, ESN main, ESN node or ETN node. Up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150.
ATGT	(0)-60	Add on Data Module (ADM) Trunk Guard Timer Two-second increments up to one minute, odd entries are rounded down to the next valid number.
AUDN	xxxx	Auto termination DN for ISA service routes Prompted when ISAR = YES and AUTO = YES. This must be an existing DN, and cannot be deleted. When DNIS = YES, it must be an ACD DN.
AUTH	(NO) YES	Authcode to be prompted for incoming NARS/BARS calls
AUTO	(NO) YES	Auto-Terminate The route members terminate on DN defined by response to ATDN prompt in LD 14. The route members terminate normally. Only ACD DNs or DISA DNs support Auto-Terminate trunks. In order to set AUTO = YES for TIE, DID and CCSA trunks, all members of the route must have STRI = IMM in LD 14.
BDSP	(NO) YES	Billing Number is not displayed at the CO Billing Number is displayed at the CO
BILN	(NO) YES	Billing Number is not required Billing Number is required
BLEN	1-(10)-16	Billing Number Length

LD 16

Prompt	Response	Comment
BNUM	0-9999	Billing Number Depending on your response to BLEN, BNUM can be from 1 to 16 digits. If BLEN is changed, a new BNUM must be entered. If the BNUM entered is less than the BLEN specified, the BNUM will be padded with leading zeros.
BTUA	(NO) YES	Block Transfer of Unanswered call
CAT	00-99	CAMA Trunk route category digits Prompted if SIGL = NT4 or NT5
CBQ	(NO) YES	Call Back Queuing Use only for incoming TIE calls.
CBCR	(NO) YES	Service route indicator
CDR	(NO) YES	Call Detail Recording Set and change CDR options for this route.
CDRX	(NO) YES	Print CDRX records on multiple call transfer for non-PPM outgoing calls. This prompt appears if CDRX package is equipped and MR is not equal to PPM. Also CDR = YES, TKTP = COT or DID for International DID/DOD and ICOG cannot be ICT.
CHTY	(BCH) ABCH	Channel Type B-channel A/B bit signaling Prompted when DTRK = YES, ISDN = YES and Mode = PRA.
CLK	(OFF) ON	External Clock source Internal Clock source Prompted if TKTP = MCU and TRAN = SYN
CLS	(CTD) CUN FR1 FR2 FRE SRE TLD	Class of Service access restriction. Prompted if TKTP = TIE. Conditionally Toll Denied Conditionally Unrestricted Fully restricted class 1 Fully restricted class 2 Fully restricted Semi-Restricted Toll Denied

Prompt	Response	Comment
	UNR	Unrestricted
CLID		Calling Line Identification. CLID is prompted only for UIPE-based protocols.
	OPT0	Prefix = 0 for North American dialing plan. OPT0 is the default for ESIG and ISIG interfaces.
	OPT1	Prefix = 1 for international PFXs in CLID. Any numbering type is supported. OPT1 is the default for all EuroISDN interfaces.
	OPT2	Prefix = 2, for international PFXs in CLID. CCITT numbering types supported are: UKWN, INTL, NPA, and NXX. OP2 is the default for CO/DID routes for the Telecom New Zealand interface.
	OPT3	Prefix = 3 for international PFXs in CLID. Only the NXX number type is supported. OPT3 is the default for TIE routes for the Telecom New Zealand interface.
	OPT4	For international COs, if the call originates from a CO trunk type, add nothing. Otherwise, add PFX1 and PFX2. OPT4 is the default for the Hong Kong, Singapore, and Thailand interfaces.
	OPT5	This is the same as OPT4, except it supports a maximum of 10 digits in the CLID. OPT5 is the default for the Austrian interface.
CPFXS	(YES)	Customer-defined Prefixes option. When constructing the Calling or Connected Line Identification, the prefixes are retrieved from the Customer Data Block via the PFX1 and PFX2 prompts in LD 15, as is currently done.
	NO	When constructing the Calling or Connected Line Identification, the prefixes are retrieved from the Route Data Block via the HNTN and HLCL prompts in LD 16.
CNTL	(NO) YES	Changes to controls or timers
CNTY		Country
	(ESTI)	ETS 300-102 basic protocol
	NET	ETSI network side protocol
CNVT	(NO) YES	Conventional switch route Prompted with Network Signaling (NSIG) package 37.

LD 16

Prompt	Response	Comment
COTR	0-127	DID/CO Trunk Reference route number Determines how incoming public call types are handled for the associated Integrated Service Access route or ISA. Prompted when TKTP = ISA and IFC = D100 or SL-1 and NSF = NO or YES. Precede with X to delete.
CPDC	(NO) YES	SL-1 is the only controlling party on incoming calls. If CDPC = YES, the connection stays up until it is disconnected by SL-1. This is used for 911 emergency services.
CPP	(NO) YES	Calling party privacy flag. A response of YES indicates that the CPP feature is recognized in this trunk route. CPP is prompted only if: <ol style="list-style-type: none">1. CPP package 301 is equipped2. trunk is either OGT or IAO3. non-ISDN option4. trunk route type = COT, DID, FEX or WAT
CTYP	(UKWN) CDP INTL LOC NPA NXX SPN	Call Type for outgoing direct dialed TIE route Unknown Call type Coordinated Dialing Plan International number Location code National number Subscriber number Special Number for other than international number format The CTYP is used by the receiving switch so that it can associate a call with a call type and perform ESN access code insertion. This option only applies to direct dialing using trunk access codes. NARS and BARS dialing do not apply here. If you intend to respond YES to prompt ISAR, use the default <cr> for this prompt. If ISAR = YES, then CTYP prints UNWN and does not permit you to enter a response.
CUST	0	Customer number associated with this route
DCD	(ON) OFF	Data Carrier Detect Data Carrier Detect lead follows state of lead on device to which it is connected. Data Carrier Detect lead forced active. Prompted if TKTP = R232 or MCU.

Prompt	Response	Comment
DCDR	(NO) YES	Include DNIS number in CDR records This prompt appears for ISDN routes to support Network ACD.
DCH	0-15	D Channel number
DCNO	(0)-254	Day IDC tree number
DCTI	(0)-511	Time, in seconds, that an extension is allowed to ring or be On-Hold or Call Park before the trunk is disconnected. Respond with a value equal to the number of seconds a set is to ring after recall, plus the value of the Call Park Recall Timer. The Call Park Recall Timer is defined in LD 50 in response to the CPTM prompt. Default or <cr> means that the condition goes on indefinitely. The value stored - which will be the closest lower multiple of four - is echoed back upon entry.
DDMI	(0)-127 (0)-255	Digit Manipulation Index Basic Alternate Route Selection Network Alternate Route Selection Prompted with either Basic Alternate Route Selection (BARS) package 57 or Network Alternate Route Selection (NARS) package 58.
DEM	(DCE) DTE	Data Equipment Mode. Prompted if TKTP = R232. Data Carrier Equipment Data Terminal Equipment
DES	x...x	Designator field for trunk groups of 0-16 alphanumeric characters (this is an optional entry)
DEXT	(NO) YES	Display External dialed digits Do not display original digits Display original digits pre converted Prompted if AUTO = NO, DNIS = NO and IDC = YES.
DGTP	DTI PRI	Digital Trunk Type for route. 1.5 Mb/s DTI (If BRIP = NO, then default is DTI) ISDN 23B + D (If BRIP = YES, then default is PRI)
DLTN	(NO) YES	Dial Tone on originating calls Provide dial tone to the far end when the trunk has been accessed from the far end.

LD 16

Prompt	Response	Comment
DNAM	(NO) YES	Display IDC name Prompted with Calling Party Name Display (CPND) package 95. Prompted following NDNO if DNIS = YES.
DNIS	(NO) YES	ACD DNIS route Prompted with Automatic Call Distribution Package D (ACDD) package 50, and the RTYP = TIE or DID.
DPPI	(1167) nnnn	Privacy indicator for a dial-pulse trunk. Any arbitrary digit (0-9) sequence up to 4 digits may be entered. If CPP prompt is changed from NO to YES and <cr> is entered, DPPI defaults to 1167.
DRNG		North American Distinctive Ringing for incoming calls
	(NO)	For TIE trunks to provide normal ringing (i.e., make/ break/ make/ break, 0.25 sec./ 0.25 sec./ 2.25 sec. to incoming calls terminating on stations)
	YES	For CO trunks to provide distinctive ringing (i.e., make/break, one second/two seconds to incoming calls terminating on stations). Distinctive Ringing only applies to CAM, COT, DID, FEX, TIE and WAT trunks. These trunks cannot be configured as outgoing only for prompt ICOG.
DSBL	(0)-100	Percentage of trunks to be disabled if loss or noise reaches the out-of-service limit
DSEL		Data Selection
	(VOD)	Voice or Data route
	DTA	Data-only route
	TDN	Transparent Data Network
	VCE	Voice-only route
	3DA	Data route and 3.1 kHz
	3VC	Voice route and 3.1 kHz Prompted if DGTP = DTI, DTI2 or JDML.
DSPD	(NO)	Real Time Advice Of Charge Display Do not display charge information during call
	YES	Display charge information during call DSPD applies to Aries sets (M2006, M2008, M2016, M2216, and M2616) on a per route basis. To activate this feature, the prompt MR must be set to either DURC or ENDC.

Prompt	Response	Comment
DSPT	0-(10)-60	Charge Display Timer in seconds DSPT determines how long charge information is display at the end of the call.
DTPI	(*67) nnnn	Privacy indicator for a digitone trunk Any arbitrary digit (0-9) sequence up to 4 digits can be specified. Only the first digit may be an asterisk (*). If CPP prompt is changed from NO to YES and <cr> is entered, DTPI defaults to *67.
DTR	(OFF) ON	Data Terminal Ready. Prompted if TKTP = R232 or MCU. DTR lead follows state of the lead on the device to which it is connected DTR lead always forced active
DTRK	(NO) YES	Digital Trunk Route. Prompted with PBX Interface for: <ul style="list-style-type: none"> DTI/CPI (PBXI) pkg 75
DTYP	(IOP) IDP ODP	Inbound/Outbound Data Port Inbound Data Port Outbound Data Port
DUP	(FULL) HALF	Duplex for data port Full duplex Half duplex Prompted if TKTP = MCU.
EML	0-15	Expected Measured Loss (in dB)
EQAR	(NO) YES	Enable Equal Access Restrictions Prompted when TKTP = CO, FEX, WAT, or ISA, and ICOG = OGT, or IAQ.

LD 16

Prompt	Response	Comment
ESN	(NO) YES	<p>Electronic Switched Network pad control for NT8D15 XEM card.</p> <p>This only applies to trunk routes whose members may use 4-wire E&M or DX signaling on an Electronic Switched Network. This prompt is the replacement for the ESN switch setting on the QPC237 circuit card.</p> <p>When YES is selected, a 1 dB improvement in loss levels is provided on trunk to trunk calls using the NT8D15 units.</p> <p>Prompted with Network Alternate Route Selection (NARS) package 58 and Meridian 1 Extended Peripheral Equipment (XPE) package 203.</p>
FACY	(NO) YES	<p>Facility indicator for Private or TIE connection.</p> <p>Tie connection in the NSF IE</p> <p>Private connection in the NSF IE</p> <p>Trunk routes to a DMS-250 automatically have FACY set to YES. All others default to NO.</p> <p>FACY is prompted when TKTP = TIE, ISAR = YES, and IFC = D100, D250 or S100.</p>
FEDC		<p>Far End Disconnect Control</p> <p>This entry should correspond to the type of disconnect control used by the far end apparatus of this trunk route. Loop start trunks may be assigned either ORG or ETH.</p>
	(ORG)	<p>Originating end control</p> <p>The apparatus recognizes conditions on the near end only for calls originated by the Meridian SL-1. This does not allow trunk to trunk connections.</p>
	ETH	<p>Either end control</p> <p>Conditions at the near end are recognized for both incoming and outgoing calls. This allows trunk to trunk connections subject to normal access restrictions. (e.g., TGAR)</p>

Prompt	Response	Comment
	FEC	<p>Far end control</p> <p>FEC allows trunk to trunk connections. FEC involves the following sequences for disconnect at the near end:</p> <p>When the near end goes on-hook first, the DSI (half disconnect) timer starts. If the far end of the trunk goes on-hook before the DSI timer runs out, then the trunk is idled immediately and the DSI timer is cancelled. If the DSI timer expires, the trunk is locked out until an on-hook is received from the far-end, at which time the SL-1 idles the trunk.</p>
	JNT	<p>Joint control</p> <p>JNT disallows trunk to trunk connections.</p>
FORM	M1A M2B M3C	<p>Format 1 for CAMA trunk signaling</p> <p>Format 2 for CAMA trunk signaling</p> <p>Format 3 for CAMA trunk signaling</p>
FRL	0-7 0-254	Facility Restriction Level (FRL) and New Flexible Code Restriction (NFCR) tree number for this route
HDLC	(NO) YES	<p>High level Data Link Control</p> <p>Prompted if TKTP = MCU and V25 = YES.</p>
HLCL	0-9999	<p>Home Location Number</p> <p>This number is similar to PFX2 number prompted in LD 15. It is added to this overlay so that this prefix can be configured on a route basis as required in some countries (e.g., Italy).</p> <p>As is the case with PFX2, the HLCL prefix can be from one-to-four digits long. This prompt is displayed only if CPFXS = NO.</p> <p>If only a <CR> is entered, this prompt keeps its previous configuration. If no value was configured previously, no value will be configured.</p> <p>Enter X to delete the digits.</p>

LD 16

Prompt	Response	Comment
HNTN	0-9999	<p>Home National Number</p> <p>This number is similar to the PFX1 number prompted in LD 15. It is added to this overlay so that this prefix can be configured on a route basis as required in some countries (e.g., Italy).</p> <p>As is the case with PFX1, the HNTN prefix can be from one-to-four digits long. This prompt is displayed only if CPFXS = NO.</p> <p>If only a <CR> is entered, this prompt keeps its previous configuration. If no value was configured previously, no value will be configured.</p> <p>Enter X to delete the digits.</p>
HOLD	ic dc ht	<p>Hold failure threshold. Where:</p> <ul style="list-style-type: none">• ic = increment counter = 1-(2)-31• dc = decrement count = 1-(2)-31• ht = minimum hold time = 1-(40)-127 seconds <p>The failure to hold applies to trunks which are not properly seized but disconnected sooner than the minimum hold or ht.</p> <p>See prompt ILLR for a description of increment count (ic) and decrement count (dc) values. The default for AID trunks is 2 1 40.</p>
HOURL	0-23	<p>Hour to start Automatic Trunk Maintenance test</p> <p>The system outputs xx:15 indicating the test start times are performed 15 minutes after the hour to avoid interactions with traffic reports.</p>
IABS	(0)-3	<p>Number of Incoming digits to be Absorbed</p> <p>For CCSA trunks only.</p>
IANI	(NO) YES	<p>In-band Automatic Number Identification route</p> <p>ISDN must be (NO) for this feature to be enabled. Prompted if AUTO = YES.</p>
ICDN	xxxx xxx xxxx (NO)	<p>CLID DN for incoming route (1-7 digits) and CLID entry (0-125) for trunk DN</p> <p>CLID DN for incoming route (1-7 digits) and CLID is not generated for trunk DN</p> <p>ICDN is prompted if ICIS = NO or if the trunk route is not ISDN.</p>
ICIS	(YES)	<p>Incoming Identifier Send</p> <p>Use CLID/CNI from incoming ISDN/R2MFC trunk</p>

Prompt	Response	Comment
	NO	Do not use CLID/CNI from incoming ISDN/R2MFC trunk ICIS is prompted for incoming routes when ISDN = YES or if the table type of MFCI = R2MF.
ICNP	(UKWN) PRV PUB	Incoming Numbering Plan Unknown Private Public ICNP is prompted if table type of MFCI = R2MF and ICIS = YES. ICNP is prompted only if the CLID entry for ICDN = 0-125.
ICNT	(UKWN) INTL NTN LCL LOC CDP SPN	Incoming Numbering Type Unknown International National Local Location Coordinated Dialing Plan Special number ICNT is prompted if table type of MFCI = R2MF and ICIS = YES. ICNT is prompted if CLID entry for ICDN = 0-125.
ICOG	IAO ICT OGT	Incoming and/or Outgoing trunk Incoming and Outgoing Incoming only Trunk Outgoing only Trunk
ICPS	(YES) NO	Incoming Presentation Status Provide Trunk DN Do not provide Trunk DN ICPS is prompted if table type of MFCI = R2MF and ICIS = YES. ICPS is prompted if the CLID entry for ICDN = 0-125.
ID	(0)-9	Identification digit for CAMA trunk routes
IDC	(NO) YES	Incoming DID Digit Conversion on this route
IDEF	(NET) LOC	Internal/external definition Use network information to define a call as internal or external. Calls over the selected route will receive a network treatment as defined by available network information. Use local data to define a call as internal or external. Internal calls will receive an internal treatment if RCLS = INT. External calls will receive an external treatment if RCLS = EXT. IDEF is prompted in LD 16 if IDEF = YES in LD 15.

LD 16

Prompt	Response	Comment
IDTB	0-7	ID table index to be used by this Meridian 911 route
IEC	001-999	Inter-Exchange Carrier ID Precede with X to remove entry. If no value is entered "???" is printed in the route data block. Prompted when TKTP = COT, FEX or WAT.
	(0) - xxx (0) - xxxxx	Inter-Exchange carrier providing the service. Prompted if IFC = NI2 and SRVC is 0 - 16, 18, 21 - 31.
IFC		Interface type for this PRI route. The IFC of an ISA route and its service route must match.
	(SL1) D100 D250	Meridian SL-1 Meridian DMS-100 Interface to Meridian DMS-250
	ESS4 ESS5	Interface to AT&T ESS#4 Interface to AT&T ESS#5
	ISIG NI2 S100	ISO Q reference signalling point (QSIG) Interface ID NI-2 TR-1268 interface type Meridian SL-100
ILLR	ic dc	Illegal Ring threshold. Where: <ul style="list-style-type: none">• ic = increment count = 0-(2)-15• dc = decrement count = 0-(2)-15 ILLR specifies illegal ringing on a seized trunk. ILLR is only prompted for COT, FEX and WAT trunks. The increment count (ic) and decrement count (dc) control the rate at which detected failures exceed the trunk error threshold. A counter (initially set to zero) records trunk successes and failures. The counter is incremented by the IC value each time a failure is detected, and by the DC value when a valid trunk condition is detected.

Prompt	Response	Comment
		<p>When the counter value exceeds the trunk threshold value (30), the overflow indicator is set, and a TRKxxx message displays. A high IC value increases the counter more rapidly than a low IC value, thus causing the counter to exceed the threshold with fewer detected failures.</p> <p>The threshold counter only preserves positive values. If the counter contains a negative value, it automatically resets to zero. The next detected failure immediately increases the counter toward the threshold value, enabling quicker trunk failure detection.</p> <p>ic dc = threshold percentage</p> <ul style="list-style-type: none"> • 41 = 20% • 21 = 33% • 32 = 40% • 22 = 50% • 24 = 67% • 13 = 75% • 14 = 80% • 17 = 88% <p>The RSET command in LD 36 and LD 41 resets the threshold counters to zero.</p>
INAC	(NO) YES	<p>Insert ESN Access Code to incoming private network call</p> <p>INAC permits an ESN access code to be automatically added to an incoming ESN call from a private network.</p> <p>If INAC = YES, then digit insertion (INST) for NARS or BARS calls is bypassed and Access Code 1 (AC1) is used for all call types. However, calls may be specifically defined to use Access Code 2 (AC2) in LD 15 at the AC2 prompt.</p> <p>INAC is prompted when the route type is either a TIE trunk or an IDA trunk with DPNSS1 signaling.</p>
INC	(NO) YES	CDR records generated on incoming calls
INST	0-99999999 <cr> X	<p>Insert. Not prompted when DNIS = YES.</p> <p>Digits to be inserted before leading digit</p> <p>No digits are entered</p> <p>To remove entry</p>
INT	(OFF)	<p>Interworking</p> <p>Far end data unit is not a DMS-100 or SL-100 Data Unit</p>

LD 16

Prompt	Response	Comment
	ON	Far end data unit is a DMS-100 or SL-100 Data Unit Prompted if TKTP = MCU.
INTC	(NO) YES	Do not intercept voice calls which call data sets to an attendant Intercept voice calls which call data sets to an attendant
ISAR	(NO) YES	Integrated Service Access Route denied Integrated Service Access Route allowed This prompt indicates whether this route is to be used as a service or reference route for the Integrated Service Access or ISA feature. ISAR can only be YES when there are no trunk assignments in LD 14.
ISDN	(NO) YES	Integrated Services Digital Network Defaults to YES when DGTP = PRI or PRI2 and REQ = NEW. Prompted for BRI routes when REQ = CHG. Prompted when ISDN = YES in LD 15 and with ISDN package 145.
ITOL	(DENY) ALLOW	Deny International toll calls (i.e., 011+calls) Allow International toll calls
JDGT	1-(4)	Japan central office Digits This indicates the number of address digits sent from the CO to the Meridian 1. If the number of digits is not known, set the parameter to (4).
LAST	(NO) YES	CDR record printing content option for redirected calls. The Terminating ID field in the CDR record will contain the one before the last party. The Terminating ID field in the CDR record will contain the last party.
LMNL	0-15	Loss deviation Maintenance Limit (in dB)
LOUT	0-15	Loss Out-of-Service deviation limit (in dB)
MANO	(NO) YES	Manual Outgoing trunk route Define the manual DN in LD 14 at prompt MNDN.

Prompt	Response	Comment
MAX	1-254	<p>Maximum number of channels allowed on the ISA route, service dependent.</p> <p>For example, if MAX = 8 for Tie routes, no more than 8 channels can used simultaneously for Tie calls. Prompted when:</p> <ol style="list-style-type: none"> 1. ISAR = YES and IFC = ESS4, or 2. NSF = YES and IFC = SL-1 or D100 for the selected ISA route defined by response to RTN prompt.
MCCD	0- 8	The call trace request string can be 0-8 digits in length. Valid digits are 0-9, *, #.
MCDT	(0)-4	Digit string delay time is in seconds. Granularity is 1 second.
MCTS	(NO) YES	Malicious Call Trace Signal
MIN	0-254	<p>Minimum number of channels allowed on the ISA route, service dependent</p> <p>For example, if MIN = 2 for Tie routes, at least two channels will be available for Tie calls.</p> <p>Prompted when:</p> <ul style="list-style-type: none"> • ISAR = YES and IFC = ESS4 • NSF = YES and IFC = SL1 or D100 for the selected ISA route defined by response to RTN prompt.
MOD	(NO) YES	<p>Network Mode for synchronous operation</p> <p>Modem Mode for synchronous operation</p> <p>Prompted if TKTP = MCU and TRAN = SYN.</p>
MODE		Mode of operation
	PRA	ISDN/PRA route, DTRK must be YES PRA allowed only if ISDN = YES.
	<cr>	<p>Default is NULL for service/reference routes</p> <p>If you enter YES to prompt ISAR, then use the default <cr> for this prompt. If ISAR is YES, then MODE prints NULL and does not allow a response.</p>

LD 16

Prompt	Response	Comment
MR		Message Registration If a 1TR6 trunk route is created where TKTP = COT or DID, MR is automatic and is not prompted. However, if TKTP = TIE, then MR is not applicable to the route and is not prompted.
	(NO)	The route is not metered. If MR is set to NO, the trunk should have a Polarity Insensitive Class of Service in LD 14. (CLS = PIP)
	DURC	The AOC information is decoded during and at the end of the call. IFC must be set to NUME or SWIS.
	ENDC PPM RVB	The AOC information is decoded at the end of the call Buffered PPM signals to be counted on this route Reverse Battery signal from PSTN for CO interrupted as supervisory signal and used as MR on this route.
	STAC XLD	Activation of the AOC-S sub-service M & MM Lead non-buffered is used. This is the only metering type allowed for TKTP = IDA and SIGL = DAS. MR is not prompted for Danish and Swedish EuroISDN interfaces as AOC is not supported for those countries.
MRAT	5-30	Modem Ring Again Timer, in minutes
MRT	0-127	Music Route number
MTND	(NO) YES	Malicious Call Trace Tandem Disconnect delay for AXE10 interface If set to YES the disconnect operation is delayed at the node closest to the CO for up to MCTM time when the call is a tandem call.
MULT	(NO) YES	Multiplier for Charge Information Do not change calculation of charge information. Provide the exact cost of charge information if the RURC exponent is configured to the value of the multiplier. Your response to MULT should be YES when the Central Office sends charge information in one hundredth of currency and the currency multiplier is less than 1. The multiplier exponent should be equal to the RURC exponent. This is only used with functional protocol.
MUS	(NO) YES	Music on Hold

Prompt	Response	Comment
MXTI	0-(5)-15	Maximum Time to wait for the far end to connect to test line (in seconds)
NATL	(YES) NO	<p>North American Toll scheme; a toll call has 0 or 1 as first or second digit.</p> <p>If NXX second digit is "1" set NATL to "NO" and answer "0" "1" to TDG. All toll digits for TDG prompt can be removed by a YES response if REQ = CHG. Repeat LD 16 with a NO response to add toll digits.</p>
NCNA	(YES) NO	<p>Network Calling Name Allowed</p> <p>Prompted if ISDN = Yes.</p>
NCOS	(0)-99	<p>Network Class of Service group number.</p> <p>Prompted if TKTP = TIE.</p>
NCRD	(NO)YES	<p>Network Call Redirection allowed</p> <p>YES allows Network Call Redirection messages to be sent or blocked if NCRD = (NO).</p> <p>Network Call Redirection can occur without having NCRD = YES. This prompt only controls the sending of Network Call Redirection messages, not the actual redirection of the call.</p> <p>When NCRD = YES, the message supplied provides information for the CLID display. When NCRD = (NO), the call is redirected without the CLID redirection information if CLID is enabled.</p> <p>It is appropriate to set NCRD = (NO) when your network interfaces with a network that is equipped with an ISDN version earlier than Release 14.</p>
NDGT	1-(4)-7	Number of DNIS Digits expected
NDIG	(2)-10	<p>Number of Digits in numbering plan at conventional main switch</p> <p>Prompted if SIGO = STD and CBQ = YES.</p>
NDNO	0-254	<p>Night IDC tree number</p> <p>When REQ = NEW default is the DCNO tree defined. Otherwise, there is no default value.</p>

LD 16

Prompt	Response	Comment
NEDC		Near End Disconnect Control This entry determines the type of control exercised by the Meridian SL - 1 on trunk disconnections.
	(ORG)	Originating end control The far-end on-hook condition is recognized only for incoming calls. Far end conditions are ignored for outgoing calls. ORG is default for TIE, DID and CCSA trunks.
	ETH	Either end control If the far end goes on-hook for either incoming or outgoing calls, the on-hook condition is recognized and the call is disconnected. ETH is the default for all trunks except TIE, DID and CCSA trunks.
NMNL	27-90	Noise Maintenance Limit (in dBrn)
NOUT	27-90	Noise Out-of-Service limit (in dBrn)
NPA	nnn	Numbering Plan Area
NPID	0-9	Numbering Plan Digit or Information Digit If <CR> is entered, the NPID table is created.
NSF	(NO) YES	Network Service Facility Prompted when TKTP = ISA and IFC = D100 or SL1. When NSF = YES, the ATB traffic counter is incremented when the MAX value is reached in the service route.
NTOF	(YES) NO	Near To Far measurement See prompts REF, TST and PADL.
NTOL	(DENY) ALLOW	Deny North American Toll calls (i.e., 1+ calls) Allow North American Toll calls
OABS	0-9	Actual outgoing toll digits to be ignored for Code Restriction OABS is frequently used with 1+calls. Precede with X to remove.
OAL	(NO) YES	CDR on outgoing calls If answer supervision is defined for the trunk, CDR records will only be generated on call completion.

Prompt	Response	Comment
OAN	(YES) NO	CDR timing starts On Answer supervision of outgoing calls Prompted if OAL or OTL = YES. This prompt only applies to trunks with answer supervision CLS = PSP, or SUPN = YES. With International Supplementary Features (SUPP) package 131, the default is NO. Without SUPP package 131, the default is YES.
OGDN	xxxx xxx xxxx (NO)	CLID DN for outgoing route (1-7 digits) and CLID entry (0-125) for trunk DN CLID DN for outgoing route (1-7 digits) and CLID is not generated for trunk DN OGDN is prompted if ICIS = NO or if the trunk route is not ISDN.
OGIS	(YES) NO	Outgoing Identifier Send Use CLID/CNI from incoming ISDN/R2MFC trunk or from the the calling set. If OGIS = YES and the incoming trunk is R2MFC, the CNI from the incoming trunk CLID/CNI will be used in the CLID. Do not use CLID/CNI from incoming ISDN/R2MFC trunk or from the the calling set. OGIS is prompted for outgoing routes when ISDN = YES or if table of MFCI = R2MF.
OGNP	(UKWN) PRV PUB	Outgoing Numbering Plan Unknown numbering plan Private Public OGNP is prompted only if the CLID entry for OGDN = 0-125.
OGNT	(UKWN) CDP INTL LCL LOC NTN SPN	Outgoing Numbering Type Unknown numbering type Coordinated dialing plan International number Local number Location number National number Special Number OGNT is prompted if CLID entry for OGDN = 0-125.
OGPS	(YES) NO	Outgoing Presentation Status Provide Trunk DN Do not provide Trunk DN OGPS is prompted if the CLID entry for OGDN = 0-125.
OHQ	(NO) YES	Off-Hook Queuing Used in NARS for incoming TIE callers.

Prompt	Response	Comment
OHQT	(0)-63	Off-Hook Queue Threshold BARS/NARS availability test. Compare with current P3 calls.
OHTD	(NO)	Off-Hook Timer Delay Masks the far end Off-Hook for up to 384 ms measured from the end of the interdigit pause of the digit send out.
	YES	Masks the far end Off-Hook for up to 2 seconds.
OPD	(YES)	Outpulsed Digits in CDR
	NO	Dialed digits in CDR System must be initialized for changes to the OPD settings to take effect. Prompted when OTL = YES, OAL = YES or OAN = YES.
OPE	(NO) YES	Change data port or operating parameters Prompted only if TKTP = R232, R422 or MCU.
OTL	(NO) YES	CDR on Outgoing Toll calls
		If answer supervision is defined for the trunk, CDR records will only be generated on call completion. Prompted when OAL = NO and Route = CAMA, CO, DID, FX, or WATS.
PADL	0-63	Pad factor for loop around (in dB) This is the far end tone level, plus the total pad loss at both ends on two trunks.
PADT	0-63	Pad factor for T100 test line (in dB) This is the near end tone level, plus the total pad loss at both ends.
PAR		Data port Parity
	(SPAC)	Space
	EVEN	Even
	MARK	Mark
	ODD	Odd Prompted if TKTP = R232, R422 or MCU.
PBDO	(OFF) ON	Port Busy upon DTR Off Prompted if TKTP = R232, DEM = DCE and DTR = OFF.
PLEV	0-(2)-7	Priority Level
		Priority Level 2 sets can override sets of Level 1 and 2, and can be overridden by sets of Level 2-7. Prompted with Priority Override/Forced Camp-On (POVR) package 186.

Prompt	Response	Comment
PNI	(0)-32700	<p>Private Network Identifier</p> <p>Each customer data block must have a unique PNI when equipped with the multi-customer option. PNI = 1 is typical for customer 0. It must match the PNI in the far end CDB in order to support such features as NRAG, NACD and NMS.</p> <p>The PNI in the RDB functions as a logical customer number for routing outgoing non-call-associated Transaction Capability Application Part or TCAP facility messages to the appropriate ESN translations within the far end PBX.</p> <p>Using the default value of PNI = 0 prevents operation of features such as NRAG, NACD and NMS.</p>
POST	DIS ATT	<p>RAN Post announcement treatment</p> <p>Disconnect after maximum repetitions</p> <p>Route to attendant after maximum repetitions</p>
PRIV	(NO) YES	<p>Route is not a Private line route</p> <p>Route is a Private line route</p> <p>Any COT route can be a private route.</p> <p>Prompted if TKTP = COT and REQ = NEW.</p>
PROG		Progress
	NCHG	<p>Send a PROGRESS signal when a CALL PROCEEDING message which contains a progress Indicator Information Element is received at the Meridian 1 EuroISDN gateway.</p> <p>NCHG is the default for all interfaces but the Austrian interface.</p>
	MALE	<p>Send an ALERT signal when a CALL PROCEEDING message which contains a progress Indicator Information Element is received at the Meridian 1 EuroISDN gateway.</p>
	MCON	<p>Send a CONNECT signal when a CALL PROCEEDING message which contains a progress Indicator Information Element is received at the Meridian 1 EuroISDN gateway.</p> <p>MCON the default for the Austrian interface.</p>
PSDS	(NO) YES	<p>Public Switched Data Service</p> <p>Prompted if TKTP = MCU.</p>
PSEL	(DMDM)	DM-DM Protocol Selection

Prompt	Response	Comment
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TLNK	T-link Protocol Selection	TLNK protocol is used by SL-100 and DMS data devices, DM-DM is used by Meridian 1 data devices such as ASIM, AIM, ADM, SADM, Asynch Data Option or ADO, and MPDA. MCA uses both protocols. PSEL is prompted if TKTP = R232, R422, or MCU.
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PTYP	Port Type at far end	The response to this prompt is used in determining the required transmission level. Refer to the <i>International Loss and Level Plan</i> NTP for more information.
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Analog TIE trunk routes:

(ATT)	Analog TIE trunks
AOT	Analog TIE trunk, used instead of ATT whenever the PBX has one or more digital satellite trunk routes or DST to any digital satellite PBX which includes OPX telephones.
AST	Satellite PBX TIE or ESN trunks if SAT = YES

Digital TIE trunk routes:

(DTT)	Digital or combination TIE trunk
DCT	Combination satellite PBX TIE trunk
DST	Digital satellite PBX TIE trunk (allowed if SAT = YES or NO)

Analog CO trunk routes:

(ACO)	Analog CO trunk
ATO	Analog toll office trunk

Digital CO, FEX, DID, and WAT trunk routes:

(DCO)	Digital or combination CO port
DTO	Digital or combination Toll Office trunk

1.5 Mb/s PRI TIE trunk routes:

(PRI)	B-Channel port classification
DTT	Digital or combination TIE trunk
DCT	Combination satellite PBX TIE trunk
DST	Digital Satellite PBX TIE trunk

1.5 Mb/s PRI CO, FEX, DID, and WAT trunk routes:

Prompt	Response	Comment
	(PRI) DCO DTO	B-Channel port classification Analog CO trunk Analog toll office trunk
QREC	(NO) YES	CDR ACD Q initial connection records to be generated
RACD	(NO) YES	Route traffic information in ACD Reports Enter YES only if the route is used as the Interflow DN of at least one ACD DN and the Interflow Trunk traffic is desired. Prompted for COT, TIE, DID, WAT, and FEX trunk types only. Allowed for RAN trunks . Actual ACD Report format output examples are included in the <i>ACD Management Reporting NTP</i> .
RANR	0-127	RAN Route number for the desired RAN route.
RANX	(NO) YES	RAN for calls diverted to external trunks RAN not requested when a call is forwarded to this route. RAN requested when a call is forwarded to this route. Prompted when: <ol style="list-style-type: none"> 1. TKTP = COT 2. RPA = NO 3. DSEL = VCE or VOD 4. ICOG = IAO or OGT
RCAP		Remote Capabilities. Precede with X to remove a configured capability. This prompt will be repeated until <cr> is entered.
	NAC	Network access data.NAC is allowed if IFC = SL1. Enter XNAC to remove NAC from Remote Capabilities.
	NCT	Network Call Trace
	ND1	Network Name Display 1
	ND2	Network Name Display 2
	ND3	Network Name Display 3. This ensures the same level of service between the MCDN and QSIG name display services.
	NDS	Name Display Services
	RVQ	Remote Virtual Queuing
RCLS	(EXT) INT	Route Class marked as external Route Class marked as internal Applies only to CAA, COT, CSA, DID, FEX, TIE, FGDT, or WATS trunks.

LD 16

Prompt	Response	Comment
REF	n...n	Reference loop around DN, range is 2 to 10 digits
REP	1-15	Repetitions of recorded announcements
REQ		Request
	CHG	Change existing data block
	END	Exit overlay program
	OUT	Remove data block
	LCHG	Print date and time that a trunk data block was last changed. The change can be the result of a NEW, OUT, or CHG command.
	NEW	Add new data block to the system
RGFL	ic dc	Ring Failure threshold. Where: <ul style="list-style-type: none">• ic = increment count = 1-(2)-31• dc = decrement count = 1-(2)-31 RGFL specifies the percentage threshold for trunks which fail to produce the expected ringing and ground changes. See prompt ILLR for a description of ic and dc values. RGFL is not prompted for AID, CAM, CSA, RLM, RLR and TIE trunks The default for RAN and MUS trunks is 12 6.
ROUT	0-127	Route number This range applies for all machines.
RTN	0-127	Route Number for any configured ISA route Prompted if TKTP = TIE.
RTYP		Recording device for RAN trunks
	AUD	Audichron or Cook 212, required for XUT trunks
	CAP	Code-a-Phone
	CK2	Cook 201 or QAY1
	CKM	Cook 201 Multichannel
	CON	NT7M Digital Recorders
	DGT	213300 and 213400 Digital Recorders
	LVL	Level start/stop (Enhanced Universal Trunk cards)
	MPUL	Pulse start/stop, multichannel. These modes supports independent RAN trunks. Request the RAN broadcast package.

Prompt	Response	Comment
	PUL	<p>Pulse start/stop (Enhanced Universal Trunk cards)</p> <p>The Enhanced Universal Trunk cards work with CAP, CK2, or AUD RAN interfaces. The Pulse and Level start/stop options are used in conjunction with the RAN interface selected.</p> <p>The maximum length of the message allowed by software depends on the X11 Release as follows:</p> <ul style="list-style-type: none"> • AUD = 64 seconds in all Releases •
RUCF	x y	<p>Route Unit Conversion Factor</p> <p>Formula for Route Unit Conversion Factor is: $X \cdot 10^{(-Y)}$</p> <p>Where:</p> <ul style="list-style-type: none"> • $x = 0-(1)-9999$ • $y = (0)-3$ <p>This results in a range of .001 to 9999.</p> <p>If the Central Office sends the call charge in AOC units (instead of AOC currency), RUCF is used to convert this charge into PPM format.</p> <p>Call Charge scenarios:</p> <ol style="list-style-type: none"> 1. When call charge in sent in currency: Displayed charge = (Received charge/RURC) * RUCS 2. When call charge in sent in AOC units: Displayed charge = (Received charge * RUCF) * RUCS units <p>RUCF is not prompted for Danish and Swedish EuroISDN.</p>
RUCS	0-9999	<p>Route Unit Cost</p> <p>RUCS may be used in Motel/Hotel type environments to calculate the margin the Meridian 1 administrator wants to make per unit.</p> <p>Call Charge scenarios:</p> <ol style="list-style-type: none"> 1. When call charge in sent in currency: Displayed charge = (Received charge/RURC) * RUCS 2. When call charge in sent in AOC units: Displayed charge = (Received charge * RUCF) * RUCS units <p>When REQ = NEW, RUCS defaults to the UCST value in CDB. RUCS is prompted when MR = PPM or XLD.</p>

LD 16

Prompt	Response	Comment
RURC	x y	<p>Route Unit Reference Cost</p> <p>Formula for Route Unit reference Cost is: $X * 10^{(-Y)}$</p> <p>Where:</p> <ul style="list-style-type: none">• x = 0 - 9999• y = (0) - 3 <p>This gives a range from .001 to 9999.</p> <p>Call Charge scenarios:</p> <ol style="list-style-type: none">1. When call charge is sent in currency: Displayed charge = (Received charge/RURC) * RUCS2. When call charge is sent in AOC units: Displayed charge = (Received charge * RUCF) * RUCS units <p>The default value for x is identical to the previously entered RUCS value.</p>
RVSD	ic dc	<p>Reversed wired CO trunk threshold. Where:</p> <ul style="list-style-type: none">• ic = increment count = 1-(8)-31• dc = decrement count = 1-(31) <p>RVSD specifies the percentage threshold for CO trunks which have tip and ring or other trunk wiring problems.</p> <p>See prompt ILLR for a description of ic and dc values.</p> <p>Prompted for COT, FEX and WATS trunks.</p>
SAT	(NO) YES	<p>Satellite used for trunk route via earth orbiting satellite</p> <p>This prompt has no relation to the trunk route function connecting a main PBX to a satellite PBX.</p>
SBN	(NO) YES	<p>Do not send Billing Number on this route</p> <p>Send Billing Number on this route</p>

Prompt	Response	Comment
SEIZ	ic dc	<p>Seize failure threshold. Where:</p> <ul style="list-style-type: none"> ic = increment count = 1-(2)-31 dc = decrement count = 1-(2)-31 <p>SEIZ specifies the percentage threshold of trunks which request seizure but are not seized (either no response from the far end or response is too late).</p> <p>See prompt ILLR for a description of ic and dc values.</p> <p>The default for AID trunks is 2 1. The default for RAN and MUS trunks is 12 6.</p>
SGRP	(0)-999	<p>Scheduled access restriction group</p> <p>Prompted with Scheduled Access Restrictions (SAR) package 162.</p> <p>Must have group defined in LD 88.</p>
SID	0-127	<p>Service Identification for the route</p> <p>Used to poll switches for traffic, ACD or CDR reports. Allows NSF to be turned on or off. The service route ID must match the far end.</p> <p>Prompted if NSF = YES and TKTP = TIE/WAT/FX/COT.</p>
SIDE	(NET) USR	<p>Meridian SL-1 Node Type</p> <p>Network</p> <p>User</p> <p>SIDE defaults to NET if IFC = SL1. SIDE defaults to USR if IFC = 1TR6, NUME or D70. Prompted if IFC = SL-1.</p>
SIGL	BEL NT4 NT5	<p>Signaling interface for CAMA trunks</p> <p>Bell method</p> <p>NT400 method</p> <p>NT500 method</p>
SIGO	(STD) ESN2 ESN3 ESN5 ETN EN19	<p>Signaling arrangement</p> <p>Standard signaling arrangement</p> <p>Supports NCOS, TCOS and CCBQ call types</p> <p>Supports network call transfer, Satellite Link Control and all ESN2 call types. It does not support DTI calls. Either ESN2 or ESN3 is recommended for ISA.</p> <p>Supports DTI data calls plus all other types.</p> <p>Electronic TIE Network signaling arrangement</p> <p>ESN Transparent Data Networking data call. Allowed when TKTP = TIE for PRI and DTI trunks.</p>

LD 16

Prompt	Response	Comment
SPCT	(IMM) DLY	Speech Path Cut-Through Immediate cut-through Delayed cut-through
SPTO	(NO) YES	Super Trunk Option 7-10 digit outpulsing on ANI calls 3 digit outpulsing on ANI calls Response must be YES for outpulsing to begin after three digits.
SRCH	(LIN) RRB	Linear Hunting Search method for outgoing trunk member. Start with the highest trunk number, used for 2-way trunks. Round Robin Hunting Search for outgoing trunk member. Start with next lower trunk than the one seized, used for outgoing trunks.
SRPM	0-(15)-255	Service Parameter. Prompted if SRVC = WATB.
SRVC	 (NNSF) ACC I800 IWAT LDS M800 MEG Q900 SDN WATB WATM	Service type provisioned for AT&T ESS connections (where IFC = ESS#4 or ESS#5) Prompted if ISDN = YES and IFC = ESS4 or ESS 5. Prompted with Inter Exchange Carrier (IEC) package 149. No Network Specific Facility or NSF IE sent. NSF refers to the services provided on a Call-by-Call basis. Accunet Data service International 800 service In-WATs service for AT&T interface Long Distance Service MEGACOM 800 service MEGACOM service ATT&T Multiquest 900 service Software Defined Network service Wide Area Telephone Service Parameter Band for AT&T ESS#5 Wide Area Telephone Maximal service for AT&T ESS#5

Prompt	Response	Comment
SST	xx y	<p>Seizure Supervision Timer</p> <p>Timer for trunks with delay dial or DDL, wink or WNK and ground or GRD start arrangements. Where:</p> <p>xx = minimum value. Therefore:</p> <ul style="list-style-type: none"> xx = 1-(3)-15 seconds for GRD start xx = 5 seconds for DDL and WNK <p>y = increment value of 0-7 seconds</p>
STEP	0-511	<p>Alternate trunk route for outgoing trunks</p> <p>STEP cannot be defined for an ISA route. Route 31 is no longer an exclusively private route, unless configured as one in LD 16.</p> <p>Precede with X to delete.</p> <p>For dataport, it is only possible to step to a similar ADM data route.</p>
STND	(YES) NO	Standard T100 test line (STND is 5.5 seconds and is followed by silent termination at the far end)
STRK	(NO) YES	Super Trunk group feature
STRT	IMM DDL	<p>Start arrangement</p> <p>Immediately connect call to recording</p> <p>Delay call connection until start of recording</p>
STYP	(SDAT) STDN	<p>Standard Signaling Type</p> <p>Standard Data signaling for voice and data (DM-DM, non-tandem PSDS).</p> <p>Standard Transparent Data Networking for voice and data and TDN calls. STDN is applicable to calls on DTI trunks only.</p> <p>This prompt appears when SIGO = STD.</p>
SVFL	ic dc	<p>Supervision Failure. Where:</p> <ul style="list-style-type: none"> ic = increment count = 1-(2)-31 dc = decrement count = 1-(2)-31 <p>SVFL specifies the percentage threshold for trunks which fail to obtain supervision. See prompt ILLR for a description of ic and dc values.</p> <p>Prompted for only AID, CAM, CSA, RLM, RLR and TIE trunks. The default for AID trunks is 2 1.</p>

LD 16

Prompt	Response	Comment
T100	n...n	T100 test line Directory Number, 2 to 10 digits
TARG	0-(1)-31	Trunk Access Restriction Group range Enter the list of all TGAR in LD 10, LD 11 and LD 14 which have restricted access to this route. Multiple groups may be defined or deleted. To delete entries, enter Xnn. List all entries to be deleted (Xnn, Xnn, ...). Entries must be separated by a space.
TCPP	(NO) YES	CPP flag for an incoming non-ISDN trunk call tandemed to this trunk route. If TCPP = YES, then an incoming non-ISDN trunk call tandemed to this outgoing trunk route will carry the Privacy Indicator. TCPP is prompted only if CPP = YES or if CPP package 301 is equipped and the trunk route has the ISDN option.
TDG	x... x	Toll Digits. Where: x = 0-9 Actual digits after the trunk access code which indicate toll calls. Precede with X to remove. If all digits are removed, the digits revert to the North American toll scheme. Prompted when NATL = NO.
TFD	(0) - 3600	Timed forced disconnect for paging trunks (30 second increments). TFD must be defined individually for each route.
TGAR	0-(1)-31	Trunk Group Access Restrictions: Prompted if TKTP = TIE, ISAR = YES, and ISDN = YES.
TIER	0-511	Tie Reference route number Determines how incoming TIE or private call types are handled for the associated Integrated Service Access route or ISA. Precede with X to delete. Prompted when TKTP = ISA, IFC = D100 or SL-1 and NSF = YES.
TIMR	aaa xxx	Trunk Timers. Where: <ul style="list-style-type: none">• aaa = timer mnemonic• xxx = timer value in milliseconds unless stated otherwise

AAD (384)-2048

Prompt	Response	Comment
		Address Acknowledge Delay timer
		AAD is the minimum time for the system to delay before sending the address acknowledge signal to the central office. Inputs are in increments of 128 ms. Allowed only if Japan trunks and Meridian 1 packages are equipped.
ATO 128-(4992)-6528		ANI Timeout timer in milliseconds.
CRD 0-(512)-639		CO Release Delay timer.
DDL 0-(70)-511		Dial Delay timer
DSI 128-(34944)-499200		Disconnect Supervision timer
EESD 0-(1024)-4992		End to End Signalling Delay timer.
		The outputting DTMF tone using EES (or IEES) is delayed "EESD" ms after the sending of the first recall signal to the Norstar. If EESD = 0, the timer is not started and the buffered digits will not be outputted.
		The EESD timer is accepted if ACRL package 236 is equipped and if the route is analog TIE.
EOD 128-(13952)-32640		End-of-Dial timer, non-digitone trunks
		For DID incoming calls in the U.S., to comply with FCC regulations, the EOD timer expires at 19,968 ms, even if configured otherwise. All other call types utilize the configured timer parameters.
		Refer to X11 features and services for complete details concerning the FCC Compliance feature.

LD 16

Prompt	Response	Comment
FLH 0-(510)-32640	Hook Flash timer (in msec.) The range for Centrex Switchhook flash timer is 256-(512)-1536. For CAS, it is recommended that the timer be set at 768 or greater. This timer must be at least 256 ms shorter than the remote OGF timer and 256 ms shorter than the ICF timer. <ul style="list-style-type: none">• 60-89 ms = Digit 1 is sent• 90 ms = Hard coded for XFCOT hook flash• 91-255 ms = Digit 1 is sent• 256-1536 ms = Existing software controlled hook switch flash Range for Centrex Switchhook flash timer is 60-(510)-1536 msec (the value is rounded to the nearest 10 msec). Software controlled Centrex/Trunk Switch Flash timer range of 60-127 msec is done by sending digit 1. The range of 128-1536 msec is already controlled by Centrex Switchhook Flash feature. Firmware flash user can enter any value from 60 to 1536. FWTM must be YES in LD 14 for the trunk associated with this route, if firmware timing is to be used.	
GRD 0-(896)-32640	Guard timer (response disallowed)	
ICF 0-(512)-32640	Incoming Flash timer	
LEXT 50-(100)-350	Loop Extender timer The minimum amount of time the Meridian 1 waits to determine whether the tip is ground. When the time is expired, the loop is closed to outputting. The time is in milliseconds.	
MAD 0-(500)-1000	Minimum Answer Delay timer The minimum amount of time the Meridian 1 remains On-Hook after the called party is first alerted. Inputs are in steps of 100 ms, numbers are rounded up to next valid entry. Allowed only if Japan trunks and Meridian 1 packages are equipped.	

Prompt	Response	Comment
NBL 128-(4096)-32640	Enblock Long dialing timer	Long timeout period set to check if all digits have been entered.
NBS 128-(2048)-32640	Enblock Short dialing timer	Short timeout period set to check if all digits have been entered.
NRAG (30)-240	Network Ring Again timer or DPNSS duration for T6 and T7 timers,	in minutes. Currently, only 30 minutes is supported.
NRD 128-(10112)-32640	No Ringing Detector change	
ODT 256-(4096)-16128	End-of-dial timer for DIGITONE trunks	
OGF 0-(512)-32640	Outgoing Flash timer	
RGV 128-(640)-1920	Ring Validation timer	
RTD 0-(12)-60	Tone Detector Response Timer in seconds. An odd numbered entry	is rounded up to the next even number.
SFB 3-(3)-255	Seize Fail Busy timer	This timer controls the time that a trunk is held busy following a seizure acknowledge failure or call collision. The recommended value for trunks with seizure supervision is 25 seconds. The recommended value for trunks with no seizure supervision is 3 seconds. This value applies to all analog trunks except those which use the ARP timer.
TFD (0)-3600	Timed Forced Disconnect, in 30 second increments.	TFD applies to CO, DIC, FEX, PAG, TIE and WATS routes.

Prompt	Response	Comment
	VGD 0-(6)-31	VNS Guard timer The time allowed for the trunk call to disconnect in seconds. This is the guard timer on the associated VNS DN.
	VSS (0)-1-2-1023	VNS Set Speechpath Timer. Where: <ul style="list-style-type: none"> • 0 = Do not answer the bearer channel until the terminating party answers • 1 = Answer the bearer channel immediately on arrival • 2-1023 = Answer the bearer channel after the specified seconds (rounded down to 2-second multiple) if the terminating party has not already answered.
TKTP		Trunk Type You must respond to this prompt when REQ = NEW.
ADM		Add-on Data Module associated with a Data Interface Card i.e., DLC, 4PDLC, AILC
AID		Automatic Incoming Outgoing Dial trunk.
CAA		Common Control Switching Arrangement Automatic Number Identification data block Requires Automatic Number Identification (ANI) package 12.
CAM		Central Automatic Message Accounting trunk data block
COT		Central Office Trunk data block Supported for ISDN BRI Trunk Access feature.
CSA		Common Control Switching Arrangement access line data block
DIC		Dictation trunk data block
DID		Direct Inward Dialing trunk data block Supported for ISDN BRI Trunk Access feature.
FEX		Foreign Exchange trunk data block

Prompt	Response	Comment
	ISA	Integrated Service Access route or Call-by-Call route type For ISDN applications, only TIE or ISA Trunks can connect a SL-1 directly to another SL-1. Requires Call-by-Call service (CBC) package 117. Must have ISDN configured in LD 15 and LD 17.
	MCU	Meridian Communications Unit port
	MUS	Music trunk data block Requires Music (MUS) package 44.
	PAG	Paging trunk data block
	RAN	Recorded Announcement trunk data block Requires Recorded Announcement (RAN) package 7.
	RCD	Emergency Recorder trunk data block Requires Basic Automatic Call Distribution (BACD) package 40.
	TIE	TIE trunk data block
	WAT	Wide Area Telephone Service trunk data block
TOV		Data Timeout Value
	(0)	No timeout
	1	15 minutes
	2	30 minutes
	3	60 minutes
		Prompted if TKTP = R232, R422 or MCU.
TRAN	(ASYN) SYN	Asynchronous Transmission mode Synchronous Transmission mode If PSDS = YES, then TRAN must be SYN. Prompted if TKTP = MCU.
TRMB	(YES)	Tromboning allowed. Incoming call on route may be routed directly back out on the same route.
	NO	Tromboning denied. Incoming trunk call on route may not be routed directly back out on the same route. Only applies to calls routed using NARS/BARS or CDP. Does not apply to calls redirected by HUNT, Forward All Calls, or Forward No Answer.

LD 16

Page 268 of 848 Alphabetical list of prompts

Prompt	Response	Comment
TRMT	(NONE), FAIL, TEST, NPA	Numbering Plan Digit or Information Digit treatment FAIL = Interrupts the NPD/ID as an ANI failure TEST = Interrupts the call as a 911 test call (for 922T calls only) This prompt appears when the Meridian 911 (M911) package 224 is equipped.
TRO	(NO) YES	Trunk Route Optimization Prompted if NCRD = YES and IFC = SL-1.
TST	n...n	Test loop around DN, range is 2 to 10 digits
TTA	(NO) YES	Time To Answer output in CDR
TTBL	(0)-31	Tone Table number Table (0), North American default values, is created when the first customer is created. Refer to LD 56 for other tables.
TYPE	RDB	Route type Route Data Block.
V25	(NO) YES	V.25 bis option for synchronous operation Prompted if TKTP = MCU and TRAN = SYN.
VRAT	(NO) YES	Answer an attendant extended call over VNS immediately on the incoming bearer trunk
WATR	0-511	Wide Area Telephone Service or WATS Reference route number Determines how incoming WATS call types are handled for the associated Integrated Service Access route or ISA. Precede with X to delete. Prompted when TKTP = ISA, IFC = D250 or SL-1 and NSF = YES.
WDGT	(L) F	First or last 4 DNIS digits to be sent on APL and HSL link. WDGT has no effect on AML links. All DNIS digits will be sent for AML. Prompted if NDGT is greater than 4. Also used for CDR when the New Format CDR (FCDR) package 234 is disabled.

LD 17—Configuration Record 1

System configuration defines system hardware and software parameters. Overlay program 17 is used to modify the following parameters:

- passwords
- buffer sizes*
- number of CPU*
- voice or data loops*
- tone and digit loops*
- conference loops*
- memories*
- automatic maintenance routines
- teletypewriters and modem
- server configurations

* When modifying these parameters, the system must be initialized to effect the change. After initialization, load Overlay 17 and check the amount of unprotected memory before the data dump. When adding memory a SYSLOAD is required. See the Conversion Procedures for parallel reload.

When the Overlay is loaded the available system memory and disk records are output in a header as follows:

```
CFN000
MEM AVAIL: (U/P): xxxxxx  USED: xxxxx  TOT: xxxxxxxx
DISK RECS AVAIL: xxx
DCH AVAIL: XX  USED: XX  TOT: 64
AML AVAIL: XX  USED: XX  TOT: 16
```

Notes on ISDN Configuration

ISDN configuration may be changed by adding the primary D-channel followed by the optional backup D-channel. Be sure to observe the following:

- Primary and back-up D-channels must be on the same card type (DCHI or MSDL)
- Primary D-channel parameters are automatically copied to the back-up D-channel.
- Disable both ends of a D-channel before making any changes to the D-channel.
- Changes to the D-channel pair should be made to the primary D-channel first (except for BCHL and RCVP).
- The backup D-channel must be removed prior to removing the primary D-channel.

- When a backup D-channel is configured for a primary D-channel, the USR of the primary can be changed from SHA to ISLD or PRI, but not from ISLD to PRI or SHA.
 - The ADAN DCH MOVE command allows the primary D-channels to move to a new logical number (NDCH), card type (CTYP), device number (DNUM), and port designation (PORT) when adding MSDL cards. You do not need to remove any D-channels or B-channels when using this command with MSDL cards.
-

LD 17

Page 272 of 848 LD 17—Configuration Record 1

Prompts and responses

Configuration Record 1

Prompt	Response	Comment
REQ	CHG	Request
TYPE	CFN	Configuration Record
ADAN	aaa bbb x	Action Device And Number (aaa = NEW, CHG, MOV or OUT ; bbb = I/O device type ; x = port number) (page 274)
PWD	(NO) YES	Change Password options (page 277)
PARM	(NO) YES	Parameters for Interface and transmission mode (page 279)
CEQU	(NO) YES	Change to Common Equipment (page 281)
OVLY	(NO) YES	Overlay (page 281)
VAS	(NO) YES	Value added server configuration (page 282)
ATRN	(NO) YES	Change Transmission Parameters of MeridianModular / Aries Telephone (page 283)
ALARM	(NO) YES	Change Alarm Filter (page 284)

Note: This *Prompts and responses* table does not list prompts which appear under each gate opener. To find prompts which appear under a given gate opener, refer to the page listed in the *Comment* section of this table.

Gate Opener: ADAN (Action Device and Number)

Prompt	Response	Comment
REQ	CHG	Request
TYPE	ADAN	Action Device And Number
- ADAN	aaa bbb x	Action Device And Number (aaa = NEW, CHG, MOV or OUT; bbb = I/O device type; x = port number)
- SIZE	(0)-65534	Size of History File buffer in characters
- PDCH	0-15	Primary D-channel associated with a backup D-channel
-CARD	0-9	Card Slot for the I/O device
-PORT	0-2	Port number on the card
- CTYP	a...a	Card Type (CTYP responses can be found on page 295)
- DES	d...d	Designator
- BPS	xxxxx	Bits Per Second
- PARY	aaaa	Parity type (aaaa = (NONE) ODD, or EVEN)
-STOP	(1)-1x5-2	Number of Stop bits (To configure value of 1.5, enter 1x5)
- BITL	x	Data Bit Length (aaa = (5), 6, 7, or 8)
- FLOW	(NO) YES	Flow Control
- -BCST	(NO) YES	Broadcast ports affected by Flow Control
- PARM	aaaa bbb	Parameters for Interface and transmission mode (aaaa = R232 or R422 ; bbb = DCE or DTE)
- FUNC	aaa	MSDL card function (aaa = ABC, FCL, MOD, LME, or SCN)
- USER	a...a	Output message types (USER responses begin on page 320)
- XSM	(NO) YES	Extended System Monitor
- TTYLOG	0-65534	Log buffer size
BANR	(YES) NO	Optional Security Banner option
- CUST	xx	Customer number associated with this function
- SSUP	(NO) YES	Senior Supervisor
- - APRT	(NO) YES	ACD Printer
- STOP	(1)-1x5-2	Number of Stop bits (to configure value of 1.5, enter 1x5)
- USR	aaaa	User (aaaa = ISLD, PRI, SHA, SHAV, or VNS)
- IFC	a...a	Interface type for D-channel (IFC responses can be found on page 302)

-- PINX_CUST	0-99	This customer number will be used for the DN address translation associated with call independent connection messages received on this D-channel.
-- ISDN_MCNT	60-(300)-350	Layer 3 call control message count per 5 second time interval.
CLID	OPTx	Calling Line Identification (x= 0, 1, 2, 3, 4, or 5)
CO_TYPE	aaa	Central Office switch type (aaa = (STD) or ATT)
- RCVF	(NO) YES	Recovery to Primary
- DCHL	1-9	D-Channel PRI loop number
- BCHL	1-9	PRI loop number for Backup D-channel
- PRI	loop x	Primary Rate Interface
- OTBF	1-(32)-127	Output request Buffers
- DRAT	aaa	D-channel transmission Rate (aaa = (56K), 64KC, or 64KI)
- BPS	xxxxx	Bits Per Second
- PARM	aaaa bbb	Parameters for Interface and transmission mode (aaaa = R232 or R422 ; bbb = DCE or DTE)
- CLOK	aaa	Clock (aaa = EXT or INT)
- SIDE	aaa	Meridian 1 node type (aaa = (USR) or NET)
- CNEG	x	Channel Negotiation option (x = (1) or 2)
- RLS	xx	Release ID of the switch at the far end of the D-channel (set to RIs 22 for Option 11C Compact)
- RCAP	aaa	Remote Capabilities (RCAP options begin on page 313)
- NASA	(NO) YES	Network Attendant Service Allowed
- TIMR	(NO) YES	Change protocol timer value
-- T310	10-60	Timer used to determine how long SL-1 can wait for the response message when the QSIG outgoing call is in the U3 (outgoing call processing) state
-- INC_T306	0-(2)-T306	Variable timer for received disconnect message on incoming calls, allowing in-band tone to be heard when sent by the network
-- OUT_T306	0-(30)-T306	Variable timer for received disconnect message on outgoing calls, allowing in-band tone to be heard when sent by the network (entered in 2 second increments)
- LAPD	(NO) YES	Link Access Protocol for D-channel Change LAPD parameters
-- T23	1-(20)-31	Interface guard Timer or DCHI only
-- T200	2-(3)-40	Retransmission Timer
-- N200	1-(3)-8	Maximum Number of retransmissions

LD 17

-- N201	4-(260)	Maximum Number of octets in information element
-- T203	2-(10)-40	Maximum Time allowed without frames being exchanged
-- K	1-(7)-32	Maximum number of outstanding unacknowledged frames
- IADR	0-(3)-255	Individual Address for the data link level HDLC protocol
- RADR	0-(1)-255	Remote Address for the data link level HDLC protocol
- LCTL	(NO) YES	Change Link Control system parameters
-- T1	2-(4)-20	Retransmission Timer. Range in units of 0.5 seconds, (4) = two seconds
-- T2	0-(10)-255	Maximum Time allowed without a frame being exchanged
-- T3	2-(5)-255	Timer for initial link setup in units of 0.5 seconds for ESDI only
-- N1	xxx	Maximum Number of octets per HDLC information frame (xxx = 32, 64, 128, or (512))
-- N2	4-(8)-16	Maximum Number of retransmissions in steps of 1
-- K	1-(7)	Maximum number of outstanding frames
- LTHR	(NO) YES	Link Threshold. Change link performance thresholds for ESDI only
-- RXMT	1-(5)-20	Retransmission Threshold
-- CRC	1-(10)-20	CRC threshold
-- ORUR	1-(5)-255	Overflow/Underflows out-of-service threshold
-- ABOR	1-(5)-255	Number of Aborts before an out-of-service
- DCHI	0-15	D-channel Interface port number
- PORT	0-15	Port number (range varies according to system option and card/port type)

Gate Opener: PWD (Password)

The PWD2 prompt appears immediately following the TYPE = PWD entry, unless the LAPW password Multi User Login are enabled. To view LAPW prompts, LAPW package 149 must be equipped. LAPW users can change their passwords by entering the current password at prompt LPWD and entering the new password at the NLPW prompt.

Prompt	Response	Comment
REQ	CHG	Request
TYPE	PWD	Change Password options
- PWD2	x...x	Password 2
- LNAME_OPTION	(NO) YES	Require Log In Name for password access
- NPW1	x...x	New Password 1 (PWD1 Log In password)
- - LOGIN_NAME	aaa	Log In Name for password access
- NPW2	x...x	New Password 2 (PWD2)
- - LOGIN_NAME	aaa	Log In Name for password access
- LAPW	0-99	Limited Access to Overlays Password number
- PWTP	aaaa	Password Access Type (aaaa = (OVLY) or SBA)
- - PWnn	x...x	Password (you may enter new password for SBA)
- LOGIN_NAME	aaa	Log In Name for password access
- LEVL	aaaa	Access Level for Set Based Administration password (aaaa = (INST) or ADMN)
- - OVLA	xx xx ... xx	Overlays Allowed
- - CUST	aaa	Customer to be accessible by way of PWnn
- - TEN	aaa	Tenant to be accessible by way of PWnn
- - HOST	(NO) YES	Enable HOST mode Log In for password PWnn
- - MAT	(NO) YES	Enable MAT 5.0 Log In for password PWnn
- - - MAT_READ_ONLY	(NO) YES	Restrict MAT 5.0 write access for password PWnn
- - OPT	a...a	Options for password PWnn (OPT responses can be found on page 308)
- LPWD	x...x	Limited Access to Overlays log on password to be changed
- - NLPW	x...x	New Limited Access to Overlay Log On Password for the user
- FLTH	0-(3)-7	Failed Log In Threshold

LD 17

- LOCK	0-(60)-270	Lockout time
- AUDT	(NO) YES	Audit Trail for password usage
- - SIZE	(50)-1500	Word Size of Audit Trail buffer
- INIT	(YES) NO	Initialize to reset locked-out ports

Gate Opener: PARM (System Parameters)

The following values should be set at the factory. However, it is recommended that these values be reviewed during initial system installation.

Prompt	Response	Comment
REQ	CHG	Request
TYPE	PARM	Change system parameters
- LPIB	96-5000	Low-Priority Input Buffers (range depends on system type)
- HPIB	16-5000	High-Priority Input Buffers (range depends on system type)
- 500B	16-5000	Output buffers for single line and digital telephones, and trunks (range depends on system type)
- NCR	x...x	Number of Call Registers, range depends on system type
- MGCR	0- <i>NCR</i>	Maximum number of Call Registers used by AUX messaging
- CSQI	(20)-255	Maximum number of Call Registers for CSL input queues
- CSQO	(20)-255	Maximum number of Call Registers for CSL/AML output queues
- TUBO	(no)-yes	AML Turbo - yes gives extra processing time for CSL input queues
- CFWS	(NO) YES	Call Forward Saved on SYSLOAD
- PCML	aa	Pulse Code Modulation Companding Law (aa = (MU) or A)
- ALRM	(NO) YES	Minor Alarm displayed on attendant consoles
- ERRM	aaa	Error Messages (aaa = ERR, BUG, or AUD)
- DTRB	xxx	Digitone Burst time in ms (xxx = 50, 60, 70, or (100))
- TMRK	xxx	Length of cadence increments in ms (xxx = 96 or (128))
- FCDR	aaa	Format for Call Detail Recording (aaa = (OLD) or NEW)
- PCDR	(NO) YES	Priority to CDR
- TPO	(NO) YES	Traffic Period Option
- TSO	(NO) YES	Trunk Period Option
- CLID	(NO) YES	Calling Line ID in the CDR
- DUR5	(NO) YES	Duration 0.5
- MLDN	(NO) YES	Multiple Loop DN
- NDRG	(NO) YES	New Distinctive Ringing
- MARP	(YES) NO	Multiple Appearance Redirection Prime feature allowed
- FRPT	aaaa	(Deny) or allow Access to incoming calls by FRE station (aaaa = (NEFR) or OLFR)

LD 17

- DCUS	0-5	Maximum number of ACD-ADS customers
- MSCL	0-8190	Maximum Speed Call Lists
- PMSI	(NO) YES	Modify Property Management Systems parameters
- - MANU	aaaa	PMS interface (aaaa = (PMS1), PMS2, or PMS3)
- - PMCR	a	Number of Call Registers used for PMSI (a = (x), y or 5)
- - PORT	0-15	Port number (range varies according to system option and card/port type)
- - XTMR	(0)-6	PMS acknowledgment time
- - XNUM	(1)-4	Number of retransmissions per message for PMSI
- - PMIN	(NO) YES	Minor alarm when the PMSI link is not responding
- - PTMR	(0)-31	Polling timer for PMSI
- NDIS	(20)-255	Number of Display messages for Background Terminal
- OCAC	(NO) YES	Support the Original Carrier Access Code format
- SBA_ADM_INS		
	0-(2)-63	Maximum Administrator and/or Installer Log Ins allowed at one time
- SBA_USER	0-(100)-500	Maximum User Log Ins allowed at one time
BCAP	a...a	Bearer Capability (a...a = (SPEECH) or 3.1 KHZ)

Gate Opener: CEQU (Common Equipment)

Prompt	Response	Comment
REQ	CHG	Request
TYPE	CEQU	Change to Common Equipment parameters
- XCT	a...a	Extended Conference/TDS/MFS
- CONF	a...a	Conference loop
- DLOP	loop dd ff ...	Digital Trunk Interface Loop or Loops (l = loop number; dd = number of voice or data calls; ff = frame format)
-- MODE	aaaa	Mode of operation (aaaa = LINK, PRI, or TRK)
-- LCMT	aaa	Line Coding Method (aaa = (B8S) or AMI)
-- YALM	aaa	Yellow Alarm Method (aaa = (FDL) or DG2)
-- T1TE	(0) - 2	T1 Transmit Equalization; 0= 0-200 ft, 1 = 200 - 400 ft, 2 = 400 - 700 ft
-- TRSH	0-15	Threshold

Gate Opener: OVLY (Overlay)

Prompt	Response	Comment
REQ	CHG	Request
TYPE	OVLY	Change Overlay area options
- SID	xxxx	System ID number
- BKGD	xx xx	Background Overlay task
- PBXH	00-23	Hour to perform Message Waiting lamp maintenance
- TODR	0-23	Time of Daily Routines
- DROL	xx xx	Daily Routine Overlays
- MULTI_USER	(OFF) ON	Multi-User Log In

Gate Opener: VAS (Value Added Server)

Prompt	Response	Comment
REQ	CHG	Request
TYPE	VAS	Value Added Server configuration
- VSID	0-15	VAS Identifier
- DLOP	loop dd ff ...	Digital Trunk Interface Loop or Loops (l = loop number ; dd = number of voice or data calls ; ff = frame format)
ELAN	x	Associate Value Added Server ID (VSID) x with Application Module Link over Ethernet (ELAN) x
- AML	0-15	Application Module Link
-- SECU	(NO) YES	Security for Meridian Link applications
-- INTL	1-12	Interval for checking Meridian Link for overload in five second increments
-- MCNT	5-100000	Threshold for number of Meridian Link messages per time interval
-- CONF	aaa	CSL Configuration (aaa = DIR or IND)
- APPL	aaa VMBA	Application (aaa = NEW, CHG, or OUT; VMBA = Voice Mailbox administration)
-- CUST	xx	Customer number
-- DATA_CORRECT	(OFF) ON	Enable Voice Mailbox Database correction
-- AUTO_AUDIT	(ON) OFF	Enable the Automatic Voice Mailbox database audit
-- SATN	l s c u	SADM/Data Line Card TN
-- IDLP	0-158	DTI loop number used for IND CSL loop
- DLOP	loop dd ff ...	Digital Trunk Interface Loop or Loops (l = loop number ; dd = number of voice or data calls ; ff = frame format)
- CMS	0-15	ESDI port number used for the CSL
-- SECU	(NO) YES	Security for Meridian Link applications
-- INTL	1-12	Interval
-- MCNT	5-100000	Message Count Threshold
-- CONF	aaa	CSL Configuration (aaa = DIR or IND)
-- SATN	l s c u	SADM/Data Line Card TN
-- IDLP	0-158	IND DTI Loop

Gate Opener: ATRN (Aries Transmission)

Prompt	Response	Comment
REQ	CHG	Request
TYPE	ATRN	Aries Transmission
- CODE	(0)-2	CODEC Coding Law
- SOLR	0-(1)-4	Sidetone Objective Loudness Rating
- ROLR	(0)-63	Receive Objective Loudness Rating
- AOLR	(0)-12 32-50	2216 ACD set Objective Loudness Rating
- TOLR	(0)-63	Transmit Objective Loudness Rating
- AGCD	(NO) YES	Automatic Gain Control Disabled
- VOLR	(NO) YES	Volume Reset
- HRLR	(0)-8, 32-40	Handsfree Receive Objective Loudness Rating
- HTLR	(0)-11, 32-54	Handsfree Transmit Objective Loudness Rating

Gate Opener: ALARM (Alarm filters)

Prompt	Response	Comment
REQ	CHG	Request
TYPE	ALARM	Change Alarm Filters
- FMT_OUTPUT	(OFF) ON	Enable/(disable) formatting for the alarm/exception output
- AF_STATUS	(OFF) ON	Alarm and Exception filtering
- A_FILTER	aaa	Alarm Filter entry (aaa = NEW, CHG, or OUT)
- TRIGGER	a...a	Trigger string for alarm tables
- SEVERITY	aaaa	Alarm Severity (aaaa = (NONE), CRITICAL, MAJOR, or MINOR)
- SUPPRESS	0-(5)-127	Alarm occurrence threshold (prior to suppressing)
- ESCALATE	0-(2)-127	Alarm occurrence threshold (prior to escalating)
- A_FILTER	<cr>	Enter carriage return at this prompt to see E_FILTER prompt)
- E_FILTER	aaa	Exception Filter entry (aaa = NEW, CHG, or OUT)
- TRIGGER	a...a	Trigger string for exception tables
- ADAN	aaa bbb x	Action Device And Number (aaa = NEW, CHG, MOV or OUT ; bbb = I/O device type ; x = port number)
- USER	FIL	Alarm filtering message output

ROLR / TOLR/ AOLR Offsets and Values

Offset	ROLR/AOLR	TOLR	Offset	ROLR/AOLR	TOLR
0	+45.00	-45.00	32	+45.00	-45.00
1	+45.85	-44.50	33	+44.15	-45.50
2	+46.70	-44.50	34	+43.30	-46.00
3	+47.55	-44.00	35	+42.45	-46.00
4	+48.40	-43.50	36	+41.60	-46.50
5	+49.25	-43.00	37	+40.75	-47.00
6	+50.10	-43.00	38	+39.90	-47.50
7	+50.95	-42.50	39	+39.05	-47.50
8	+51.80	-42.00	40	+38.20	-48.00
9	+52.65	-41.50	41	+37.35	-48.50
10	+53.50	-41.50	42	+36.50	-49.00
11	+54.35	-41.00	43	+35.65	-49.00
12	+55.20	-40.50	44	+34.80	-49.50
13	N.A.	-40.00	45	+33.95	-50.00
14	N.A.	-40.00	46	+33.10	-50.50
15	N.A.	-39.50	47	+32.25	-50.50
16	N.A.	-39.50	48	+31.40	-51.00
17	N.A.	-38.50	49	+30.55	-51.50
18	N.A.	-38.50	50	+29.70	-52.00
19	N.A.	-38.00	51	N.A.	-52.00
20	N.A.	-38.00	52	N.A.	-52.50
21	N.A.	-37.00	53	N.A.	-53.00
22	N.A.	-37.00	54	N.A.	-53.50
23	N.A.	-36.50	55	N.A.	-54.00
24	N.A.	-36.00	56	N.A.	-54.00
25	N.A.	-35.50	57	N.A.	-54.50
26	N.A.	-35.50	58	N.A.	-55.00
27	N.A.	-35.00	59	N.A.	-55.00
28	N.A.	-34.50	60	N.A.	-55.50
29	N.A.	-34.00	61	N.A.	-56.00
30	N.A.	-34.00	62	N.A.	-56.50
31	N.A.	-33.50	63	N.A.	-56.50

Note: ROLR values are for reset volume.

HRLR / HTLR Offsets and Values

Offset	HRLR	HTLR	Offset	HRLR	HTLR
0	+42.00	-44.00	32	+42.00	-44.00
1	+42.85	-43.50	33	+41.15	-44.50
2	+43.70	-43.50	34	+40.30	-45.00
3	+44.55	-43.00	35	+39.45	-45.00
4	+45.40	-42.50	36	+38.60	-45.50
5	+46.25	-42.00	37	+37.75	-46.00
6	+47.10	-42.00	38	+36.90	-46.50
7	+47.95	-41.50	39	+36.05	-46.50
8	+48.80	-41.00	40	+35.20	-47.00
9	N.A.	-40.50	41	N.A.	-47.50
10	N.A.	-40.50	42	N.A.	-48.00
11	N.A.	-40.00	43	N.A.	-48.00
12	N.A.	N.A.	44	N.A.	-48.50
13	N.A.	N.A.	45	N.A.	-49.00
14	N.A.	N.A.	46	N.A.	-49.50
15	N.A.	N.A.	47	N.A.	-49.50
16	N.A.	N.A.	48	N.A.	-50.00
17	N.A.	N.A.	49	N.A.	-50.50
18	N.A.	N.A.	50	N.A.	-51.00
19	N.A.	N.A.	51	N.A.	-51.00
20	N.A.	N.A.	52	N.A.	-51.50
21	N.A.	N.A.	53	N.A.	-52.00
22	N.A.	N.A.	54	N.A.	-52.50
23	N.A.	N.A.	55	N.A.	N.A.
24	N.A.	N.A.	56	N.A.	N.A.
25	N.A.	N.A.	57	N.A.	N.A.
26	N.A.	N.A.	58	N.A.	N.A.
27	N.A.	N.A.	59	N.A.	N.A.
28	N.A.	N.A.	60	N.A.	N.A.
29	N.A.	N.A.	61	N.A.	N.A.
30	N.A.	N.A.	62	N.A.	N.A.
31	N.A.	N.A.	63	N.A.	N.A.

Note: All values are OLR ratings measured without inserted loss/gain for trunk card interfaces and computed per IEEE methods. Receive ratings are at a maximum volume. Transmit ratings are measured in an anechoic environment with less than 25 dBA room noise.

Alphabetical list of prompts

Prompt	Response	Comment
500B	16-2048	Output buffers for single line and digital telephones, and trunks Buffers for single line telephones, trunks and Digital telephones
ABOR	1-(5)-255	Number of abortions before an out-of-service. Enter in units of 1, the number of abortions in 15 minutes before an out-of-service is enforced.
ADAN	NEW aaa x CHG aaa x MOV aaa x OUT aaa x	Action Device And Number Add I/O device. Where: aaa = type, x = port Change I/O device. Where: aaa = type, x = port Move I/O device. Where: aaa = type, x = port Remove I/O device. Where: aaa = type, x = port Where, aaa and x can be any of the following: 1. AML 0-15 = Application Module Link 2. BDCH 0-15 = Backup primary D-channel 3. DCH 0-15 = primary D-channel 7. HST = History file 8. PRT 0-15 = Printer port number 10. TRF = Traffic Log file 11. TTY 0-15 = Teletype port number Note: You cannot configure more than 16 TTY and HST files. If a HST file is one of 16 TTY files configured and a new TTY is defined, the HST file will be deleted since the TTY has higher priority than HST.

Prompt	Response	Comment
		<p>The MOV command is not supported for AML, BDCH, HST, PRT, or TTY. MOV is supported for MSDL D-channels only. When using the MOV command, the D-channel must be disabled, as well as all associated PRI and DCH loops. This command is not allowed for a D-channel with a backup D-channel configured, and a backup D-channel cannot be moved to another physical address. MOV supports D-channels in PRI user mode only. It cannot be used if in shared or ISL mode. If the craftsperson attempts to move a configured D channel from the MSDL card to the DCHI card when the D channel interface is based on UIPE, the move will not be allowed.</p> <p>The D channel must be disabled before it can be outed, changed or moved. OUT is not allowed on device 0.</p> <p>Changes to I/O devices are saved before ADAN is reprompted. To indicate the data has been saved, one of the following is output:</p> <ul style="list-style-type: none"> • ADAN DATA SAVED • ADAN DATA CHGED • ADAN DATA REMOVED • ADAN DATA MOVED <p>Entering 4 asterisks (****) after the ADAN prompt saves the changes and exits the overlay.</p>
AF_STATUS	(OFF) ON	<p>This prompt enables (disables) the alarm and exception filtering. <CR> retains the current filtering status</p>
AGCD	(NO) YES	Automatic Gain Control Disabled
ALARM	(NO) YES	<p>Change Alarm filters</p> <p>Must have Alarm Filtering (ALRM_FILTER) package 243.</p>
ALRM	(NO) YES	<p>Minor Alarm displayed on attendant consoles.</p> <p>(NO) disables the minor alarm on consoles.</p>
AML	0-15	Application Module Link

Prompt	Response	Comment
AOLR	(0)-12 32-50	<p>2216 ACD set Objective Loudness Rating</p> <p>The default value for the AOLR prompt will be the same default value as for ROLR prompt.</p> <p>See “ROLR / TOLR/ AOLR Offsets and Values” on page 285 to determine the decibel level which corresponds to your response to AOLR.</p>
APPL	NEW VMBA CHG VMBA OUT VMBA	<p>Application Add Voice Mailbox Change Voice Mailbox Remove Voice Mailbox</p> <p>This prompt allows the user to add, change, or remove an application associated with the VAS ID. The APPL prompt appears when VAS = NEW or CHG.</p>
APPL	ISAP	User application type: Meridian Link ISDN/AP
APRT	(NO) YES	<p>ACD printer APRT cannot be YES if prompt SSUP = YES.</p>
ATRN	(NO) YES	<p>Aries Transmission</p> <p>Change Transmission parameters for Meridian Modular or Aries telephones</p> <p>These transmission parameters are downloaded to Meridian Modular telephones:</p> <ul style="list-style-type: none"> • after sysload (except during parallel reload) • when enabling the loop, shelf or card • when the telephone is plugged in. <p>These values determine the loudness of the receiver and transmitter.</p> <p>Before changing these values, refer to the <i>Summary of Transmission Parameters</i> NTP and the <i>International Loss and Level Plan</i> planning and engineering NTP.</p>
AUDT	(NO) YES	<p>Audit Trail for password usage Prompted for PWD1 and PWD2.</p>
AUTO_AUDIT		Automatic Voice Mailbox database correction

Prompt	Response	Comment
	(ON) OFF	When enabled, the Voice Mailbox data is audited every 5 days to ensure consistency between the Meridian Mail and Meridian 1 databases. The audit takes place during the daily routines every 5 days.
AXQI	(20)-255	Size of Auxiliary Input Queue Maximum lesser of 25% of the maximum number of call registers defined for the system, or 255.
AXQO	(20)-255	Size of Auxiliary Output Queue Maximum lesser of 25% of the maximum number of call registers defined for the system, or 255.
BANR		Optional Security Banner option. BANR is prompted when USER = SCH and/or MTC.
	(YES) NO	Enable security banner printing option Disable security banner printing option If BANR = YES, the following Security Banner will be printed at the time a login is attempted, whether or not the login is successful: <i>"Warning: The programs and data stored on this system are licensed to or are the property of NT/BNR and are lawfully available only to authorized users for approved purposes. Unauthorized access to any program or data on this system is not permitted. This system may be monitored at any time for operational reasons. Therefore, if you are not an authorized user, DO NOT ATTEMPT TO LOG IN."</i> The programmer will not modify an existing I/O block by hitting carriage return (<cr>) in response to BANR.
BCAP	(SPEECH) 3.1 KHZ	Bearer Capability Speech 3.1 KHZ
BCHI	1-15	Backup D-channel port number. Precede with "X" to remove.
BCHL	0-159 0-159 1-126	PRI loop number for Backup D-channel. Prompted when ADAN = BDCH. PRI loop number and interface identifier for DCHI when IFC = D70. Precede with X to remove.

Prompt	Response	Comment
BCST	(NO) YES	<p>Only this broadcast port is affected by flow control All broadcast ports of the same user type are affected by flow control.</p> <p>Use this prompt with caution. For example, if BSCT = YES, and a maintenance port receives an X-off command, system output to all maintenance ports will eventually be blocked.</p> <p>This prompt appears only if FLOW = YES. BSCT is not prompted for TTY_TYPE = LSL.</p>
BITL	(5), 6, 7, 8	Bit length. Prompted for asynchronous ESDI ports.
BKGD	30, 34, 36, 37, 38, 40, 43, 44, 45, 46	<p>Background overlay task</p> <p>Enter the diagnostic program number 30, 34 and so on, to run in background when the overlay area is idle.</p> <p>The customer may configure more than one overlay to be run in background. These overlays will run sequentially, one after the other.</p> <p>The data dump routine LD 43 should be reserved for the DROL to preserve data integrity.</p>
BPS	1200 2400 4800 9600 19200 48000 56000 64000	<p>Asynchronous baud rates (bits per second):</p> <p>1200 Bits Per Second</p> <p>2400 Bits Per Second</p> <p>4800 Bits Per Second. Default for AML ports.</p> <p>9600 Bits Per Second. Default for Option 81 CP card.</p> <p>19200 Bits Per Second</p> <p>48000 Bits Per Second</p> <p>56000 Bits Per Second</p> <p>64000 Bits Per Second. Default for ISL D-channels.</p> <p>If the baud rate is set differently (e.g., 4800) the system will return to the default TEMPORARILY if it is manually initialized. The entered baud rate will return when the initialization is complete.</p>

LD 17

Prompt	Response	Comment
CACH	(0) 2-32	<p>Cache</p> <p>CACH = the number of overlay programs in cache buffers. Up to 32 overlays can reside in system memory. This reduces the overlay loading time to about one second.</p> <p>The first time an overlay is requested by the LD xx command it is loaded from disk and placed in the cache memory. If cache area is full, the oldest used non-priority overlay in cache memory is replaced by the new overlay.</p> <p>In the event of data corruption to the overlay or cache memory, the problem can be corrected by a forced reload of the overlay from disk by the command "LD xx D". The DIST/ENLT cannot be used to force a reload of the current overlay.</p> <p>If a SYSLOAD of a new issue of software reduces the available memory, the number of cache buffers is reduced. When this occurs an OVL407 message is output. If this results in too many priority overlays, the highest number priority overlays are removed.</p> <p>Background or daily routine overlays are not stored in cache. If CACH = 0, all overlays are loaded from disk.</p> <p>CACH is not prompted for Options 11C, 51C, 61C, 81 and 81C.</p>
CDNO	0-15	<p>Serial Data Interface (SDI) Card number</p> <p>Number the SDI cards logically with the system. Keep a paper record of the number and physical location of each SDI card. Enter 0 if you are not using CDNO to keep track of SDI ports and cards.</p>
CEQU	(NO) YES	Change to Common Equipment parameters
CFWS	(NO) YES	Call Forward Saved on SYSLOAD and reactivate on completion. To save information, set CFWS = YES.
CLID	(NO) YES	<p>Calling Line ID in the CDR</p> <p>If CLID = NO, "XXXXXXXXXXXX" will be printed in CLID field of CDR record. Prompted when CDR = YES and the Integrated Services Digital Network (ISDN) package 145 is equipped.</p>
	OPT0	Prefix = 0 for North American dialing plan. OPT0 is the default for ESIG and ISIG interfaces.

Prompt	Response	Comment
	OPT1	Prefix = 1 for international PFXs in CLID. Any numbering type is supported. OPT1 is the default for all EuroISDN interfaces.
	OPT2	Prefix = 2, for international PFXs in CLID. CCITT numbering types supported are: UKWN, INTL, NPA, and NXX. OP2 is the default for CO/DID routes for the Telecom New Zealand interface.
	OPT3	Prefix = 3 for international PFXs in CLID. Only the NXX number type is supported. OPT3 is the default for TIE routes for the Telecom New Zealand interface.
	OPT4	For international COs, if the call originates from a CO trunk type, add nothing. Otherwise, add PFX1 and PFX2. OPT4 is the default for the Hong Kong, Singapore, and Thailand interfaces.
	OPT5	This is the same as OPT4, except it supports a maximum of 10 digits in the CLID. OPT5 is the default for the Austrian interface.
CLOK		Source of primary clock is either internal or external. Prompted for ISL D-channels and ESDI synchronous ports. Other D-channels are automatically set to EXT.
	EXT	External Clocking. When USR = ISLD, CLOK should be set to External. Default for ISL D-channels is EXT.
	INT	Internal Clocking. INT is used only during D-channel loopback tests, where one side is set to INT, the other is set to EXT. Default for ESDI AML ports is INT.
CMS	0-15	ESDI port number used for the CSL Synchronous ESDI port number used for the CSL. This must be the same value as the port number defined at the ADAN prompt. Precede with X to remove. Prompted when SYNC and USER = CMS.

LD 17

Prompt	Response	Comment
CODE	x xx xx xx	<p>Code, prompted when DTD = TDS.</p> <p>A valid Hex Code for access to a flexible TDS table for a test tone, used to check a Dial Tone Detector or DTD.</p> <p>This code only applies when the tone generator is a TDS. If an XCT is used to generate the test tone the value in CODE will be ignored and the XCT will generate the dialtone specified in the FCT Table number 0 in LD 56.</p>
CODE	(0) 1 2	<p>CODEC Coding Law</p> <p>Mu or μ-Law for North America. This parameter is only used by the Meridian digital sets as part of the transmission parameters.</p> <p>A Law, inverted for Sweden only</p> <p>A Law, even-bit interleaved</p>
CONF	DIR IND	<p>Direct link CSL Configuration</p> <p>Indirect link CSL Configuration</p>
CONF	29-31,62	<p>Conference loop</p> <p>Use even-numbered loops for Conference.</p> <p>You may configure more than 16 Conference loops; however, enabling more than 16 Conference loops may cause the system to lock-up. Precede with X to remove.</p>
CO_TYPE	(STD) ATT	<p>Central Office switch type. Prompted if IFC = NI2.</p> <p>100% compatible with Bellcore standard</p> <p>AT&T 5ESS</p>
CRC	1-(10)-20	<p>CRC threshold. Enter in units of 5 per cent.</p> <p>CRC establishes the % of Cyclic Redundancy Code (CRC) errors detected in 15 minutes before an out-of-service threshold is enforced.</p> <p>$CRC = (\# \text{ of packets retransmitted}) \div (\text{total} \# \text{ packets sent})$.</p>

Prompt	Response	Comment
CSQI	(20)-255	<p>Maximum number of call registers for CSL input queues</p> <p>These call registers are used for Command and Status Link applications such as Meridian Link.</p> <p>Set CSQI and CSQO equal to the larger number of either:</p> <ol style="list-style-type: none"> 1. ACD agents or AST sets to be controlled by the host computer, or 2. 50. <p>Do not set CSQI and CSQO to a number exceeding 25 percent of the total number of call registers.</p>
CSQO	(20)-255	<p>Maximum number of call registers for CSL/AML output queues</p> <p>These call registers are used for Command and Status Link applications such as Meridian Link.</p> <p>Set CSQI and CSQO equal to the larger number of either:</p> <ol style="list-style-type: none"> 1. ACD agents or AST sets to be controlled by the host computer, or 2. 50. <p>Do not set CSQI and CSQO to a number exceeding 25 percent of the total number of call registers.</p>
CTYP		Card Type (Input/output port card type)
	CPSI	Call Processor card (Option 81)
	DCHI	D-channel Interface card
	ESDI	Enhanced Serial Data Interface
	ELAN	AML over Ethernet card
	MSDL	Multi-purpose Serial Data Link
	PTY	Pseudo TTY (Option 81)
CUST	0	Customer number associated with this function
	xxx	<p>Customer to be accessible by way of PWnn.</p> <p>Enter the customer (0-99) and the associated Tenant numbers (entered at the TEN prompt) to have access with PWnn to overlays specified at prompt OVLA.</p>
	ALL	All customers and associated tenants have access with this password.

LD 17

Page 296 of 848 Alphabetical list of prompts

Prompt	Response	Comment
	<cr>	No change to previous definitions. Precede with X to remove.
DATA_CORRECT (OFF) ON		Voice Mailbox Database Correction In enabled state, the Meridian Mail database is updated to match the Meridian 1 database when the database audit discovers a discrepancy.
DCHI	0-15	D-channel Interface port number When adding a D-channel the MEM AVAIL data is output after this prompt indicating the channel has been added. You can therefore abort the program and save the changes without going to the REQ prompt. Precede with X to remove.
DCHL	1-9	PRI loop number
DCUS	0-5	Maximum number of ACD-ADS customers
DDCS	0-159	Loop number for NT DPNSS/DASS hardware Precede with X to remove.
DENS	SDEN DDEN 4DEN	Single ports on SDI card Double ports on SDI card Quad ports on SDI card
DES	d...d	Designator (AML port designation) DES is used to identify the link and can be up to 16 alphanumeric characters: 0-9, and upper case (A-Z). Characters * and # are not allowed. Spaces are removed by the system. For example "MERIDIAN MAIL" becomes "MERIDIANMAIL". Use the underscore character instead, such as MERIDIAN_MAIL DES can be left blank or changed as required. If DES is already defined for a link, the system outputs the current name and reprompts DES. Precede the existing DES with X to remove. Example: "XMERIDIAN_MAIL".

Prompt	Response	Comment
DLOP	loop dd ff	<p>Digital Trunk Interface Loop or Loops. Where:</p> <ul style="list-style-type: none"> • l = loop number 0-159 • dd = maximum number of simultaneous voice or data calls 0-(24) • ff = frame format D2, D3, D4, or ESF <p>The default for frame format ff is ESF if prompt MODE is set to PRI; D3 if MODE is set to DTI or LINK. Loop must be removed before a change to ff can be made.</p>
DLOP	L1 L2 Ln	<p>Digital Trunk Interface Loop or Loops</p> <p>Loop numbers of the DTI Loops associated with this VAS. Loops must have previously been defined as MODE = LINK. Precede with X to remove.</p>
DNUM	0-15	<p>Device number for I/O ports.</p> <p>All ports on the MSDL card share the same DNUM. The MSDL card address settings must match the DNUM value. For all other ports such as SDI, DCHI, etc., the device number should match the port address switch settings.</p> <p>To configure a D-channel on an even number port the card type must be SPDC or MSDL.</p>
DRAT	(56K) 64KC 64KI	<p>D-channel transmission Rate</p> <p>56 kb/s when LCMT is AMI</p> <p>64 kb/s clear. Allowed if LCMT = B8S for SL-1 to SL-1 only. Default for PRI2.</p> <p>64 kb/s inverted HDLC, 64 kb/s restricted</p> <p>DRAT must match the far end. In Release 15 and later, DRAT is not prompted when configuring the ISLD-channel because speed is controlled by the modem baud rate.</p>
DROL	30, 32, 34, 36, 37, 38, 40, 43, 44, 45, 46, 60, 61	<p>Daily Routine Overlays. Daily or midnight routine programs are run once a day at the time specified by prompt TODR.</p>

Prompt	Response	Comment
DTRB	(100) 50 60 70	<p>Digitone Burst time in ms</p> <p>100 ms bursts of DTMF with 100 ms interdigit pause</p> <p>50 ms bursts of DTMF with 50 ms interdigit pause</p> <p>60 ms bursts of DTMF with 90 ms interdigit pause</p> <p>70 ms bursts of DTMF with 70 ms interdigit pause</p> <p>This determines the DTMF burst and interdigit pause for the Tone and Digit Switch or TDS.</p> <p>Burst time of 50 ms is used for the Fast TDS; 100 ms is used for the standard TDS. Burst time of 60 ms and 70 ms is used for international requirements.</p>
DUPX	(FULL) HALF	<p>Full Duplex mode</p> <p>Enter FULL if each end can simultaneously send and receive.</p> <p>Half Duplex mode</p>
DUR5	(NO) YES	<p>CDR call duration with 0.5 second accuracy. DUR5 does not apply to CDR data link.</p> <p>CDR call record output on TTY with 2.0 second duration accuracy.</p> <p>CDR call record output on TTY with 0.5 second duration accuracy for Japan.</p> <p>0.5 second duration accuracy is available for outgoing trunks with answer supervision outside Japan.</p>
ELAN	x	<p>Application Module Link (AML) over Ethernet</p> <p>Associate Value Added Server ID (VSID) x with AML over Ethernet (ELAN) x.</p> <p>The configured VSID of the ELAN will be used to distinguish the connection between the Meridian 1 and each application in a multiple application Ethernet environment. If the Nortel X Call Center (NXCC) package 311 is not equipped, a maximum of 16 ELANs can be configured and supported in the range of 16 to 31.</p>
ERRM	ERR BUG AUD	<p>Error Messages (prompted when USER = MTC)</p> <p>Error monitor-hardware</p> <p>Error monitor-software</p> <p>Software Audit</p> <p>The messages, if enabled here, are output on the maintenance port. Precede with X to remove.</p>

Prompt	Response	Comment
ESCALATE	0-(2)-127	Alarm occurrence threshold (prior to escalating) This determines the number of times a major alarm may occur before it becomes critical. Entering 0 disables the alarm escalation. This applies to major alarms only.
ESDI	YES NO	Enhanced Serial Data Interface Default is as previous if ADAN = CHG. The default is NO if ADAN = NEW and no ports on the card are configured, or if the other port is configured and is not ESDI. The default is YES if the other port is configured and is ESDI.
E_FILTER	NEW CHG OUT	Add an Exception Filter entry. Change an Exception Filter entry. Remove an Exception Filter entry. This is reprompted for subsequent exception filters. Up to 50 Exception Filters can be configured. Entering <CR> completes exception filter entries. Precede with X to remove.
FCDR	(OLD) NEW	Format for Call Detail Recording Use OLD for Pre-Release 18 CDR format. Information field location varies according to which features are equipped. Use NEW for Release 18 and later CDR format. Information field locations are fixed. Prompted when New Format CDR (FCDR) package 234 is equipped.
FLOW	(NO) YES (NONE) XON CTS	Flow control capability (X11 Release 18 and later) This prompt appears for Options: 51C,61C,81C. Flow control (X11 Release 17 and earlier) Prompted for asynchronous ESDI ports.
FLTH	0-(3)-7	Failed Log In Threshold Prompted for PWD2 users.
FMT_OUTPUT	(OFF) ON <CR>	Alarm Filters Formatted printing This prompt disables formatting for the alarm/exception output. This prompt enables formatting for the alarm/exception output. Retains the current formatting status.

LD 17

Page 300 of 848 Alphabetical list of prompts

Prompt	Response	Comment
FRPT	(NEFR) OLFR	Access to incoming calls by FRE station denied Access to incoming calls by FRE station allowed If FRPT = OLFR, then a FRE station can do Ringing Number Pickup, Night Answer and receive modified calls.
FTYP	(3) 3S 5	3.5 inch high density floppy type 3.5 inch super density floppy type 5.25 inch floppy type Prompted if ADAN = FDK or HDK.
FUNC		MSDL card Function (Release 19 and later). This prompt is used when applying the MSDL card to the SDI application.
	ABD FCL MOD LME SCN	Autobaud Flow Control (XON/XOFF handling) Modem support Line Mode Editing Character Screening Precede with X to delete.
HIST	(0)-65534	History File buffer length The History File stores system messages in Protected Data or Pdata and uses an SDI port address. When full, new incoming messages overwrite the oldest messages. The History File survives initialization, but is lost during SYSLOAD or when the file length is changed. The History File cannot be created if all 16 I/O ports are defined. HIST is not prompted in X11 Release 18 and later. See prompt SIZE.
HOST	(NO) YES	Enable HOST mode Log In for password PWnn. When a HOST user logs in, the outputs defined for the port are only output to that port. For example, two ports are defined by prompt USER to output BUG and SCH messages. When a HOST user logs in to one of these ports, the other port does not require BUG and SCH messages until the HOST user logs out. This removes the restriction that ports with the same output must operate at the speed of the slowest port. This feature is primarily used by applications such as Meridian Manager.

Prompt	Response	Comment
HPIB	16-1000 16-5000	<p>High-Priority Input Buffers</p> <p>High-Priority Input Buffers for System Options 51C, 61C, 81 and 81C.</p> <p>Recommended for attendant consoles and DID/TIE trunks. High priority line or trunk cards are placed in slot 1 and assigned have CLS = HPR in LD 10, 11, 12 or 14. Superloops do not require any line or trunk cards assigned as high priority.</p> <p>Refer to Appendix 553-2201-151.</p>
HRLR	(0)-8, 32-40	<p>Handsfree Receive objective Loudness Rating</p> <p>The HRLR value is downloaded to Meridian Modular telephones after sysload, except when performing a parallel reload. Refer to the Transmission parameter and International loss and level plan NTP's before adjusting this value.</p> <p>The default is 0. The number entered in this field corresponds to an offset value. The offsets and their corresponding values are provided on page 286.</p>
HTLR	(0)-11, 32-54	<p>Handsfree Transmit Objective Loudness Rating</p> <p>The HTLR value is downloaded to Meridian Modular telephones after sysload, except when performing a parallel reload. Refer to the Transmission parameter and International loss and level plan NTP's before adjusting this value.</p> <p>The default is 0. The number entered in this field corresponds to an offset value. The offsets and their corresponding values are provided on page 286.</p>
IADR	0-(3)-255	<p>Individual Address for the data-link level HDLC protocol.</p> <p>The IADR and RADR prompts must be coordinated with the far end. If IADR is defined as 3, then RADR must be 1.</p>

Prompt	Response	Comment
IDLE_DISP_CHAR xx	aaaa	<p>Change customized text string character by character, where xx (01 to 24) is the position of the character in the customized text string.</p> <p>The IDLE_DISP_CHAR prompt is only prompted if SUPPORTED_TEXT_ONLY = NO and is re-prompted until a <CR> is entered or xx = 24th character has been entered, thus allowing additional characters to be entered. Where:</p> <p>c = one supported character. hh = 2 hexadecimal digits (0-9, A-F, a-f) representing a supported character.</p>
IDLP	0-158	<p>IND DTI Loop</p> <p>DTI loop number used for IND CSL loop. See DLOP prompt.</p>
IFC		<p>Interface type for D-channel. Note that when USR = ISLD or SHA, the interface is automatically entered as SL1.</p>
	(D100)	Meridian DMS-100
	D250	Interface to Meridian DMS-250
	ESS4	Interface to AT&T ESS#4
	ESS5	AT&T ESS#5
	NI2	NI-2 TR-1268 interface type
	S100	Meridian SL-100
	SL1	Meridian SL-1
	SS12	SYS-12 for Norway
INC_T306	0-(2)-T306	<p>Variable timer for received disconnect message on incoming calls, allowing in-band tone to be heard when sent by the network.</p> <p>The network will stop sending tone after T306 expires, so the maximum time will be T306. T306 is 30 seconds (entered in 2 second increments).</p>
INIT	(YES) NO	<p>Manual initialization to reset ports which were locked-out due to failed LOGI attempts.</p> <p>CAUTION: While established calls in progress are unaffected, calls in the signaling state will be aborted.</p>

Prompt	Response	Comment
INTL	1-12	Interval Time interval for checking Meridian Link for overload in five second increments This is the interval for counting the number of messages on a Meridian Link. See prompt MCNT.
ISDN_MCNT	60-(300)-350	Layer 3 call control message count per 5 second time interval.
ISLM	1-382	Integrated Services Signaling Link Maximum. Maximum number of ISL trunks controlled by the D-channel. There is no default value.
K	1-(7)-32	Maximum number of outstanding frames This value should be the same for the Meridian 1 (near-end) and the host processor (far-end). Where: <ul style="list-style-type: none"> • 7 = recommended value for AUX applications • 2 = recommended value for CCITT
LAPD	(NO) YES	Link Access Protocol for D-channel Change LAPD parameters.
LAPW	0-99 <cr>	Enter Limited Access to Overlays Password number to be created, modified or deleted. No more password changes Precede with X to remove. LAPW is reprompted after the OPT prompt, thus allowing multiple Limited Access to Overlays Password users to be created. If the overlay is exited after the OPT prompt the LAPW information is saved. If the overlay is exited before the OPT prompt, the information is not saved.
LCMT	(B8S) AMI	B8ZS Line Coding Method Alternate Mark Inversion, B7 Line Coding Method Release 19 and later, the default is B8ZS when the frame format is ESF. When the frame format is D2, D3, or D4, the default is AMI.
LCTL	(NO) YES	Change Link Control system parameters
LEVL	(INST) ADMN	Access Level for Set Based Administration password Access Level for Set Based Administration password

Prompt	Response	Comment
LNAME_OPTION (NO) YES		<p>Require Log In name for password access</p> <p>If the option is changed to YES, each password currently in the system is given a default name which is used until new names are assigned.</p> <p>The default names applied to the passwords are:</p> <ul style="list-style-type: none">• ADMIN1 is applied to the current PWD1• ADMIN2 is applied to the current PWD2• USER0 is applied to the current Password 00• USER1 is applied to the current Password 01• (and so on to USER 99) <p>The following message is output before reprompting REQ: DEFAULT LOGIN NAMES SAVED.</p> <p>To login to the system with the LNAME_OPTION enabled, use: LOGIN ADMIN2 <cr> PASS (prompted by the system) Enter the current second level administration password.</p> <p>If the option is changed from YES to NO, random passwords are assigned by the system to ensure no password duplication. The default password for PWD2 is output to the terminal when this option is disabled. The following message is output:</p> <p>WARNING: PASSWORDS WILL BE CHANGED TO DEFAULT VALUES.</p> <p>OK? (Y/N)</p> <p>If Y is entered, the following appears: DEFAULT PASSWORDS SAVED PWD2 = <pwd2 password></p> <p>Note that entering YES forces the user to define passwords. If NO is entered, Log In name may still be entered, but is not required.</p> <p>To find the other default passwords assigned by the system, Load Overlay 22 and print PWD.</p> <p>With Multi-user Log In enabled, it is possible for more than one user to be logged in with the same name/password combination. However, no two Log In names can have the same password associated with them.</p>

Prompt	Response	Comment
LOCK	0 -(60)-270	<p>Lockout time, prompted for PWD1 and PWD2 users.</p> <p>The is the time, in minutes, that a port is locked out once the Failed Log In Threshold or FLTH has been exceeded.</p> <p>Messages of the lockout are displayed on maintenance terminals and supervisory stations.</p>
LOGIN_NAME	aaa aaaa	<p>Log In name for password access</p> <p>When LNAME_OPTION is YES, the names must be associated with each Log In password. This can be up to 11 alphanumeric characters (0-9, A-Z, a-z).</p>
LPIB	96-5000 96-1000	<p>Low-Priority Input Buffers for Options 51C/61C/81.</p> <p>Low-Priority Input Buffers all other options.</p> <p>Most stations and trunks are defined as low priority. See prompt HPIB. Refer to the <i>Memory Calculations Appendix</i> in the <i>Planning and Engineering</i> NTPs.</p>
LPWD	aaaa <cr>	<p>Enter current LAPW password to change user password.</p> <p>Leave Log In password unchanged</p> <p>This prompt appears only for LAPW users if PWD2 is entered.</p> <p>This prompt is used by Limited Access to Overlay users to change their password.</p>
LTHR	(NO) YES	<p>Link Threshold</p> <p>Change link performance thresholds for ESDI only.</p>
MAGT	0-999 0-1200	<p>Maximum number of ACD agent IDs per customer.</p> <p>Release 13 and later.</p>
MANU	(PMS1) PMS2 PMS3	<p>Standard PMS interface</p> <p>Requires <cr> HOD to recognize input message</p> <p>Updated RMS message is followed by the old RMS when a room DN checks IN or OUT.</p>
MARP	(YES) NO	Multiple Appearance Redirection Prime feature allowed.
MAT	(NO) YES	<p>Enable MAT 5.0 Log In for password PWnn</p> <p>Mat 5.0 users can remote log in from a PC to perform Alarm Management and Maintenance operations through a graphical interface. PWD1 and PWD2 users always have MAT 5.0 access.</p>

LD 17

Prompt	Response	Comment
MAT_READ_ONLY	(NO) YES	<p>Do not restrict MAT 5.0 write access for password PWnn Restrict MAT 5.0 write access for password PWnn</p> <p>Read only provides MAT 5.0 users access to Alarm Mangement and Equipment View windows. However, read only users cannot clear or acknowledge alarms, and can only perform status commands.</p> <p>PWD1 and PWD2 users always have MAT 5.0 write access.</p>
MCFN	x x x x x x	<p>Number and size of SIMMs in options: 51C, 61C, 81C, 81.</p> <p>Where x = 0, 4, or 16 (for SIMM size in megabytes). The SIMM size depends on the CP card type.</p> <p>If size is not specified, the system assumes they are unequipped (ie. size = 0). This does not affect system operation.</p>
MCNT	5-100000	<p>Message Count Threshold</p> <p>Threshold for number of Meridian Link messages per time interval. The recommended setting is 400. With INTL = 4 and MCNT = 400, the maximum flow is 20 messages per second.</p>
MGCR	0-NCR	<p>Maximum number of call registers used by AUX messaging.</p> <p>MGCR is associated with the NCR prompt. It is the maximum number of call registers that can be queued for use by AUX messaging before extra processing time is allocated to handle them.</p>
MLDN	(NO) YES	<p>Multiple Loop DN. MLDN allows multiple appearance DNs to be on different loops.</p>
MODE	LINK PRI TRK	<p>Mode of operation</p> <p>Digital Link mode</p> <p>Primary Rate Interface mode</p> <p>Digital Trunk mode</p>

Prompt	Response	Comment
MSCL	0-8190 0-7999	Maximum number of Speed Call Lists that can be defined on the system for Release 13 and later. Maximum number of Speed Call lists and/or Group Hunt lists that can be defined per system. The system will default to 255 if converted from a prior release, and the Speed Call package is equipped. Otherwise, the default is 0.
MULTI_USER	(OFF) ON	Multi-User Log In
N1	32, 64, 128, (512)	Maximum Number of octets per HDLC information frame. An entry of 128 or 512 is recommended for ELAN.
N2	4-(8)-16	Maximum Number of retransmissions in steps of 1.
N200	1-(3)-8	Maximum Number of retransmissions
N201	4-(260)	Maximum Number of octets in information element
NCR	26-2047	Number of Call Registers The maximum number of call registers may be limited by the amount of system memory. In this case the number of call registers is the amount of protected memory available divided by the number of words per call register. <i>Refer to the Memory Calculations Appendix in the Planning and Engineering NTPs.</i>
NDCH	0 - 15	Move the primary D-channel to this logical number. ADAN MOV command is supported for D-channels.
NDIS	(20)-255	Number of Display messages for the Background Terminal (BGD). The NDIS entry determines the queue length for display messages for the BGD application.
NLPW	x...x <cr>	New Limited Access to Overlay log on password for the user Leave Log In password unchanged Valid characters are 0-9, A-Z and a-z. Length is 4 characters, 4-16 characters with Limited Access to Overlays (LAPW) package 164.

LD 17

Prompt	Response	Comment
NPW1	x...x <cr>	New Password 1(PWD1 Log In password) No change Valid characters are 0-9, A-Z and a-z. Length is 4 characters, 4-16 characters with Limited Access to Overlays (LAPW) package 164.
NPW2	x...x <cr>	New Password 2 (PWD2) No change Valid characters are 0-9, A-Z and a-z. Length is 4 characters, 4-16 characters with Limited Access to Overlays (LAPW) package 164.
NPWC	aaaa	Enter New Mini-CDR password. Acceptable values range between 0-9 and A-Z.
OCAC	(NO) YES	Support the Original Carrier Access Code format The expanded CAC format is automatically supported. OCAC should be set to YES before and during the interim period. If OCAC is not set properly, Equal Access screening will not function.
OPT		Options for password PWnn. Multiple entries must be separated by a space.
	(CFPA) CFPD	Configuration Prompts Allowed Configuration Prompts Denied CFPD allows access to prompts LPWD and NLPW to change one's own password.
	(DTD) DTA	Deny DN-TN correspondence (administrator access only) Allow DN-TN correspondence (administrator access only)
	(FEAD) FEAA	Deny Change Set Features (administrator & installer access) Allow Change Set Features (administrator & installer access)
	(FORCD) FORCA	Deny the Force command Allow the Force command
	(LLCD) LLCA	Line Load Control Denied Line Load Control Allowed Access to Line Load Control commands in LD 2. Release 12 and later.
	(MOND) MONA	Deny the Monitor command Allow the Monitor command

Prompt	Response	Comment
	(NAMD) NAMA	Deny Change CPND Names (administrator and installer access) Allow Change CPND Names (administrator and installer access)
	(PROD) PROA	Print Only Denied Print Only Allowed Restricts overlay access to printing functions only.
	(PSCA) PSCD	Printing of Speed Call lists Allowed Printing of Speed Call lists Denied Printing Speed Call lists can be allowed even though the overlay is restricted for all other functions.
	(TADD) TADA	Deny Set Time and Date (administrator and installer access) Allow Set Time and Date (administrator and installer access)
	(TOLD) TOLA	Deny Change Toll Restrictions (administrator and installer access) Allow Change Toll Restrictions (administrator and installer access)
ORUR	1-(5)-255	Overrun/Underruns out-of-service threshold Enter in units of 1, the number of overrun/underrun in 15 minutes before an out-of-service is enforced.
OTBF	1-(32)-127	Output request buffers
OUT_T306	0-2-(30)-T306	Variable timer for received disconnect message on outgoing calls, allowing in-band tone to be heard when sent by the network. The network will stop sending tone after T306 expires, so the maximum time will be T306. T306 is 30 seconds (entered in 2 second increments).
OVLA	1-99 ALL XALL <cr>	List of Overlay programs from 1 to 99 to be accessible by way of password PWnn Overlay number To allow access to all overlays To deny access to all overlays No change to previous definitions Multiple entries must be separated by a space and the last entry must be followed by a carriage return. Precede with X to remove.
OVLY	(NO) YES	Overlay
PARM	(NO) YES	Gate opener for System Parameters.

Prompt	Response	Comment
	R232/R422 DCE/DTE	<p>Parameters for Interface and transmission mode, prompted for MSDL ports.</p> <p>The RS-422 parameters are established with switch settings on the MSDL card. This prompt is used to verify those settings prior to enabling the card.</p> <p>RS-232 parameters are set both on the card and at this prompt. Both values must be entered even if only one of them is being changed. For example "R232 DCE."</p> <p>Default for AML is R232 DCE. Default for D-channels is R422 DTE.</p>
PARY	(NONE) ODD EVEN	<p>Parity type. Prompted for asynchronous ESDI ports.</p> <p>No parity bit</p> <p>Odd parity bit</p> <p>Even parity bit</p>
PBXH	0-23	Hour to perform Message Waiting lamp maintenance
PCDR	(NO) YES	<p>Priority to CDR</p> <p>YES gives CDR priority over call processing.</p>
PCML	(MU) A	<p>Pulse Code Modulation companding Law for the system</p> <p>μ-Law (use μ-Law for North America)</p> <p>A-Law</p>
PDCH	0-15	<p>Primary D-channel associated with a backup D-channel</p> <p>Both D-channels must be on the same card type that is DCHI or MSDL. Prompted if ADAN = BDCH</p>
PINX_CUST	0-99	This customer number will be used for the DN address translation associated with call independent connection messages received on this D-channel. Prompted when IFC = ISGF.

Prompt	Response	Comment
PMCR	5 (x) y	<p>Number of call registers used for PMSI.</p> <p>Minimum number of call registers to be configured is 5</p> <p>The lesser of either 60 or 25 percent of the total system call registers</p> <p>The lesser of either 250 or 25 percent of the total system call registers</p> <p>For example, if you enter 65, but 25 percent of the system total is 45, the number entered by the system will be 45.</p>
PMIN	(NO) YES	<p>Minor alarm when the PMSI link is not responding.</p> <p>This is not prompted if XTMR = 0. When this prompt is Yes, the attendants minor alarm is activated when the PMSI link does not respond. Note that when the link responds again, the alarm is not cleared.</p>
PMSI	(NO) YES	<p>Modify Property Management Systems parameters</p> <p>This is prompted is Property Management Systems Interface (PMSI) is enabled.</p>
PORT	0-2 1 0-7	<p><i>Port number for MSDL cards, I/O devices, or PMSI ports :</i></p> <p>Port number for the CP card</p> <p>Port number for the MSDL card</p> <p>Port number for Pseudo TTYs</p> <p>Prompted only when CTYP = MSDL (Multi-purpose Serial Data Link), CPSI (CP card), or PTY (Pseudo TTY).</p>
PRI		<p>Primary Rate Interface</p> <p>ISDN PRI architecture is composed of three protocol layers providing different services:</p> <ul style="list-style-type: none"> • layer 1: physical layer • layer 2: link layer • layer 3: network layer <p>These layers provide a standard interface for voice and data communication. Each layer uses the services provided by the layer below, and builds on these services to perform functions for the layer above. Each layer or block can be modified without affecting the protocols in another layer.</p>

LD 17

Prompt	Response	Comment
	loop x	<p>Enter loop number for additional PRI loops using the same D-channel and the interface ID for the additional loop numbers. Where:</p> <ul style="list-style-type: none">• loop = 1-9 for PRI loop number• x = 2-15 for Interface ID <p>The PRI prompt is used to assign the PRI loops controlled by the D-channel. Each loop is given an Interface ID.</p> <p>The PRI loop carrying primary D-channel (DCHI) and backup D-channel (BCHI) are assigned an Interface ID 0 and 1, respectively. The 14 remaining PRI loops that can be assigned to the D-channel are defined here and given an Interface ID of 2-15.</p>
PRIM	0-15	Primary PMS port. To remove port, enter X.
PWD	(NO) YES	Change Password options
PWD2	x...x	<p>Password 2</p> <p>Enter current second level administration password. This password is required to change existing passwords PWD1 and PWD2.</p> <p>Valid characters are 0-9, A-Z and a-z. Length is 4 characters, 4-16 characters with Limited Access to Overlays (LAPW) package 164. Only a Limited Access to Overlays user will be able to change their own passwords.</p>
PWnn	x...x	<p>Password</p> <p>Valid characters are 0-9, A-Z and a-z. Length is 4 characters, 4-16 characters with Limited Access to Overlays (LAPW) package 164.</p> <p>Where: nn = number entered in response to LAPW prompt.</p> <p>Enter the LAPW password to be used for PWnn.</p>
PWTP	(OVLY) SBA	<p>OVLY Password Access Type</p> <p>SBA Password Access Type</p>
RADR	0-(1)-255	<p>Remote Address for the data-link level HDLC protocol</p> <p>The IADR and RADR prompts must be coordinated with the far-end. If IADR is defined as 3, then RADR must be 1.</p>

Prompt	Response	Comment
RCAP		Remote Capabilities. Enter one or more values to define the capabilities of the far-end.
	DV1I	Diversion information is sent to remote switch.
	DV1O	Diversion information is sent to remote switch.
	DV2I	Rerouting requests from remote switch are processed.
		Rerouting requests from remote switch are processed.
	DV2O	Diversion information is sent to remote switch. Rerouting requests from remote switch are processed.
		Diversion information is sent to remote switch.
	DV3I	Rerouting requests from remote switch are processed.
		Precede with 'X' to remove capability.
	DV3O	
	MSL	Remote D-channel is on a MSDL card
	MWI	Message Waiting Interworking with DMS-100
	NAC	Network Access data. Enter XNAC to remove NAC as a remote capability. NAC is allowed if : <ul style="list-style-type: none"> the D-channel is defined on an MSDL card (i.e. CTYP=MSDL) the D-channel interface type is SL1 (IFC=SL1) software release of remote end is equivalent of x11 release 22 or greater (RLS≥22)
	NCT	Network Call Trace supported
	ND1	Network Name Display method 1
	ND2	Network Name Display method 2
	ND3	Network Name Display method 3 . ND3 ensures the same level of service between the MCDN and QSIG name display services.
	NDS	Name Display Services
	RVQ	Remote Virtual Queuing
		RCAP is prompted until only <cr> is entered in response. Precede a value with X to remove.
		ND1 and ND2 are used with Network Call Party Name Display or NCPND. Both ends must have NCPND.
		ND1 requires Release 13 and later. ND2 requires Release 17 and later; or SL-100, DMS with BCS32 and later. RVQ requires Remote Virtual Queuing (ORC_RVQ) package 192.

Prompt	Response	Comment																								
	TAT	<p>Invoke Trunk Anti-Tromboning operation if the far-end switch also supports this feature.</p> <p>TAT may be input if : TAT package is equipped, CTYP = MSDL, IFC = D100, SL1, S100 or D250.</p>																								
RCVP	(NO) YES	<p>Auto-recovery to primary D-channel option. RCVP is supported on SL-1 to SL-1 connections only.</p> <p>When RCVP = YES, the primary D-channel is automatically forced to be the active channel after it is brought up from a released state.</p> <p>This option must be coordinated with the far end. Both sides must be either YES or NO. If the two sides do not match, both sides default to NO. When IFC \neq SL-1, RCVP changes to NO.</p> <p>For Backup DCH only.</p>																								
REQ	CHG END	<p>Request: Change existing data block</p> <p>Request: Exit overlay program</p>																								
RLS	xx	<p>Release ID of the switch at the far-end of the D-channel.</p> <p>This is the software release at the far-end. If the far-end has an incompatible release, it prevents the sending of application messages.</p> <p>X27 software has the same protocol as X11 Rlse 22, therefore the the RLS should be set to 22 when connecting to a switch equipped with X27.</p> <p>Shown below is the relationship between the ISDN application, equipment and the Release ID X11 or BCS at the far-end.</p> <table> <tr> <th><u>Application</u></th><th><u>Far-End</u></th><th><u>Minimum RLS</u></th></tr> <tr> <td rowspan="3">Network Ring Again</td><td>SL-1</td><td>12</td></tr> <tr> <td>SL-100</td><td>26</td></tr> <tr> <td>DMS-100/250</td><td>26</td></tr> <tr> <td rowspan="2">Network ACD</td><td>SL-1</td><td>15</td></tr> <tr> <td>SL-100</td><td>29</td></tr> <tr> <td colspan="3">Network Message Service - Message Center</td></tr> <tr> <td></td><td>SL-1</td><td>15</td></tr> <tr> <td colspan="3">Network Message Service - Meridian Mail</td></tr> </table>	<u>Application</u>	<u>Far-End</u>	<u>Minimum RLS</u>	Network Ring Again	SL-1	12	SL-100	26	DMS-100/250	26	Network ACD	SL-1	15	SL-100	29	Network Message Service - Message Center				SL-1	15	Network Message Service - Meridian Mail		
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Prompt	Response	Comment
		SL-1 16 Message Waiting Indication Interworking with DMS-100 SL-1 19 DMS-100 36 The Release ID information is required and supported for connection to Northern Telecom equipment only. For connections to AT&T ESS#4 and ESS#5, set RLS = 1.
ROLR	(0)-63	Receive Objective Loudness Rating The default is 0, indicating no change to the default +45 dB. The number entered in this field corresponds to an offset value. The offsets and their corresponding values are provided on page 285. The ROLR value is downloaded to Meridian Modular telephones after sysload except when performing parallel reload. Refer to the Summary of Transmission Parameters NTP and the International Loss and Level Plan planning and engineering NTP before changing these values.
RXMT	1-(5)-20	Retransmission Threshold Enter in units of 5 per cent. RXMT is the % of retransmissions allowed in 15 minutes before out of service is enforced, or: $RXMT = (\text{\# of packets retransmitted}) \div (\text{total \# packets sent})$
SATN	I s c u	TN of SADM/Data Line Card associated with IND CSL. For SL-1 telephone with CLS = CMSA.
SBA_ADM_INS	0-(2)-64	Maximum Administrator and/or Installer Log Ins allowed at one time.
SBA_USER	0-(50)-250	Maximum User Log Ins allowed at one time.
SECU	(NO) YES	Security for Meridian Link applications When set to NO, the host computer must specify both the TN and DN of the associate set in connect, answer and release messages. Prompted when the Integrated Services Digital Network Application Module Link for Third Party Vendors (IAP3P) package 153 is equipped for ISDN/AP Third Party.

LD 17

Page 316 of 848 Alphabetical list of prompts

Prompt	Response	Comment
SEVERITY	(NONE) CRITICAL MAJOR MINOR <CR>	Alarm Severity of a particular alarm entry No rating (default status) System operation is in jeopardy Serious condition, the system is operational Error condition detected, system operation not affected Retains current value
SID	xxxx	System ID number The SID is used for polling an SL-1 for ACD, CDR and traffic reports. It can also be printed and changed using LD 2.
SIDE	(USR) NET	Meridian 1 node type Slave to the controller Network, the controlling switch Prompted only if IFC = SL-1, ESIG or ISIG. Opposite sides of the PBX-to-PBX interface must be set as NET or USR. The call processing software uses these labels to handle call collision.
SIZE	(0)- 65534 (50)-1500	Size of History File buffer in characters The History File stores system messages in Protected Data or P data and uses an SDI port address. The History File survives initialization, but is lost when SYSLOAD occurs or the length of the file is changed. The History File cannot be created if all 16 I/O ports are defined. Prompted if ADAN = HIST or TRF Word Size of Audit Trail buffer The Size entered here must be a multiple of 50 for correct memory storage.
SOLR	0-(1)-4 (1) 0 2 3	Sidetone Objective Loudness Rating The SOLR value is downloaded to Meridian Modular telephones after sysload except when performing parallel reload. Before changing these values, refer to the <i>Summary of Transmission Parameters</i> NTP and the <i>International Loss and Level Plan</i> planning and engineering NTP. 12 dB 7 dB 17 dB 22 dB

Prompt	Response	Comment
	4	<p>sidetone disabled</p> <p>The default is 0, indicating no change to the default +45 dB. The number entered in this field corresponds to an offset value.</p> <p>The default value is 1 (12 dB). The recommended North American value for all releases is 1 (12 dB). Does not apply to M2216.</p>
SSUP	(NO) YES	<p>Senior Supervisor</p> <p>Device assigned used by senior supervisor/load manager. Cannot be YES if prompt APRT is YES.</p>
STOP	(1)-1X5-2	<p>Number of stop bits</p> <p>To enter 1.5, use 1X5. (Options 51C, 61C, 81 and 81C do not support 1.5). Prompted for asynchronous ESDI ports.</p>
SUPPRESS	0-(5)-127	<p>Alarm occurrence threshold (prior to suppressing)</p> <p>This determines the number of times an alarm may occur before it is no longer output. Entering 0 indicates that all alarm occurrences are output (no suppression)</p>
SYNC	(NO) YES	<p>Asynchronous mode of operation for ESDI port</p> <p>Synchronous mode of operation for ESDI port</p>
T1	2-(4)-20	<p>Retransmission Timer</p> <p>Range in units of 0.5 seconds, (4) = two seconds</p>
T1TE	(0)-2	<p>T1 transmit equalization;</p> <p>0 = 0-200 ft, 1 = 200-400 ft, 2 = 400-700 ft</p>
T2	0-(10)-255	Maximum Time allowed without a frame being exchanged.
T200	2-(3)-40	<p>Retransmission Timer</p> <p>Entry is in units of 0.5 seconds.</p>
T203	2-(10)-40	<p>Maximum Time allowed without frames being exchanged</p> <p>Prior to Release 18.30H the default was 5 seconds, (.5 second units). With Release 18.30H and later the default is 10 seconds, (1 second units).</p>
T23	1-(20)-31	<p>Interface guard Timer or DCHI only</p> <p>This timer checks how long the interface takes to respond. Entry is in units of 0.5 seconds.</p>

LD 17

Prompt	Response	Comment
T3	2-(5)-255	Timer for initial link setup in units of 0.5 seconds for ESDI only.
T310	10-(30)-60 110-(120)	Timer used to determine how long SL-1 can wait for the response message when the QSIG outgoing call is in the U3 (outgoing call processing) state. Timer range prior to Release 22. Default = 30 seconds for QSIG. Timer range for Release 22. This range applies to PRI, PRI2, and BRI trunks in Release 22.
TDS	0, 2, 4...158	Tone and Digit Switch (TDS or Fast TDS service loop) Use even-numbered loops for Tone and Digit Switch (TDS). Precede with X to remove. Note: For Option 11C, all XTD/DTR units must be removed from the SSC card (card 0) before TDS 0 can be removed.
TEN	xxx ALL <cr>	Tenant to be accessible by way of PWnn All Tenants allowed No change to previous definitions. Precede with X to remove.
TIMR	(NO) YES	Change protocol timer value
TMRK	96, (128)	Length of cadence increments in ms Refer to the Flexible Tone and Digit Switch cards NTP. See CLN prompt in LD 56.
TODR	0-23	Time Of Daily Routines
TOLR	(0)-63	Transmit Objective Loudness Rating The default is 0, indicating no change to the default +45 dB. The number entered in this field corresponds to an offset value. The offsets and their corresponding values are provided on page 285. The TOLR value is downloaded to Meridian Modular telephones after sysload except when performing parallel reload. Refer to the Summary of Transmission Parameters NTP and the International Loss and Level Plan planning and engineering NTP before changing these values.
TPO	(NO) YES	Do not enable Traffic Period option Enable Traffic Period option

Prompt	Response	Comment
TRIGGER	a...a	<p>Trigger string for alarm tables</p> <p>The trigger string can be up to 10 alphanumeric characters. At least one character must be alphabetic (a-z). Plus sign (+) can be used to indicate the "wild card" entry.</p> <p>For example, BUG++++ includes all BUG system messages. The mnemonics supported for this prompt are lists at the beginning of this overlay. A value must be entered; <CR> is not accepted</p>
TRNS	(NONE) HELP BOTH	<p>Selects which messages are going to be translated</p> <p>Help and Option 81 specific system messages are printed in English version</p> <p>Help is printed in translated version and Option 81 specific system messages in English</p> <p>Help and Option 81 specific system messages are printed in translated version</p>
TRSH	0-15	<p>Threshold</p> <p>Digital Trunk Interface Threshold set defined in LD 73.</p>
TSO	(NO) YES	<p>Do not enable Trunk Period option</p> <p>Enable Trunk Period option</p>
TTY	0-15	<p>Pre-defined MSDL-SDI terminal number</p> <p>Prompted if ADAN = STA</p>
TTYLOG	0-65534	<p>Log buffer size</p> <p>When 0 is entered, there is no log file</p>
TYPE		Type of data block
	ADAN	All input/output devices (includes D-channels)
	ALARM	<p>Alarm filter configuration data</p> <p>When TYPE = ALARM, the system automatically prints out the current alarm and exception filters</p> <p>Must have Alarm Filtering (ALRM_FILTER) package 243.</p>
	ATRN	Aries Transmission
	CEQU	Common Equipment parameters
	CFN	Configuration data block
	OVLY	Overlay area options
	PARM	System Parameters
	PWD	System Password and Limited Access to Overlay Password

LD 17

Prompt	Response	Comment
USER		When entering yes, the PWD2 is prompted unless LAPW is used and Multi-User Log In is enabled.
	VAS	Value Added Server
		Output message types
		When ADAN = HST, users may be BUG, MCT, MTC, SCH and TRF. Prompted when ADAN is PRT, TTY or, HST.
	ACD	Automatic Call Distribution printer for reports
	ADM	Administrator SBA access level to be stored in the histroy file. Precede with X to remove.
	BUG	Software error
	CMS	Command and Status Link Port must be defined as a synchronous ESDI
	CSC	Customer Service Changes: Automatic Set Relocation
	CTY	CDR TTY port to output CDR records
	FIL	This is a special response which applies to Alarm Filtering message output. When a port is assigned this User type, only Alarm Filtered messages will be output. The messages listed at the TRIGGER prompt are the messages that appear for this user type. When AF_STATUS = OFF, no system messages are output to the port with FIL type. The output appears as shown below. The field definitions follow. <div><code><severity> <report id> <time> <date> <sequence number> <event> <tab> Operator data: <data> <tab> Expert data: <data></code></div>

Prompt	Response	Comment
		<p>Where:</p> <p><u>severity</u>:</p> <ul style="list-style-type: none"> • **** = Critical • *** = Major • ** = Minor • blank = None <p><u>report id</u>: The system message character string (BUG1234, ERR5683, etc.)</p> <p><u>time</u>: hh:mm:ss</p> <p><u>date</u>: dd/mm/yy</p> <p><u>sequence number</u>: The sequence the message appears. The range is 0-65535, and the numbers are right justified. Meridian 1 and auxiliary processor messages have separate sequence numbers.</p> <p><u>event</u>: This indicates the type of event that is being output: MSG (message), SET (set alarm), CLR (clear alarm).</p> <p><u>tab</u>: 6 character indent</p> <p><u>Operator data</u>: This contains additional information to help clear the fault. This field contains the additional message information (TN, loop number, etc.) that the message contains. Up to 30 characters will appear.</p> <p><u>Expert data</u>: This field may not always appear. It contains system expert information.</p>
HSL		ACD/D High-Speed AUX link
INS		Installer SBA access level to be stored in the history file. Precede with X to remove.
LSL		ACD/D Low-Speed AUX link.
MCT		Malicious Call Trace TTY port along with other users
MTC		Maintenance includes AUD, BUG and ERR if enabled by prompt ERRM in PARM. Use MTC for the system monitor or XSM.
NOO		No Overlay allowed

LD 17

Prompt	Response	Comment
	SCH	Service Change or any data base change
	TRF	Traffic
	USR	User SBA access level to be stored in the history file. Precede with X to remove.
USR		User. Precede any of the following with X to remove.
	PRI	Primary Rate Interface. D-channel for ISDN PRA only.
VAS	NEW CHG OUT <cr>	New Value Added Server Change Value Added Server Remove Value Added Server End VAS prompting sequence
VOLR	(NO) YES	Handset Volume Reset To have handset volume reset whenever the user hangs up or uses handsfree, set VOLR = YES.
VSID	0-15	VAS Identifier Identifier for the VAS providing the services, this includes IS, Data Services, Voice Messaging, Alpha terminals. The value entered here is associated with the value which may be entered at the EAML prompt. By responding to VSID, you are preparing to associate a link with a Value Added Server ID to allow message transmission.
VTRO	(NO) YES	Trunk Route Optimization before answer available over this D-channel for VNS. VTRO will be prompted if: <ol style="list-style-type: none">1. Advanced Network Services (NTWK) package 148 is equipped2. Trunk Anti-Tromboning (TAT) package 293 <i>is not</i> equipped3. VCRD = YES

Prompt	Response	Comment
XCT	0	<p>Extended Conference/TDS/MFS</p> <p>Loop number for Conference/TDS/MFS card.</p> <p>You may configure more than 16 conference loops; however, enabling more than 16 conference loops may cause the system to lock-up.</p> <p>In multigroup systems (such as SL-1 XT and Option 71 systems) the NT8D17 should not be configured in loop 0/1.</p>
XNUM	(1)-4	<p>Number of retransmissions per message for PMSI.</p> <p>If XTMR = 0, this prompt does not appear.</p>
XSM	(NO) YES	<p>Extended System Monitor</p> <p>This is the SDI port for the Extended System Monitor. Prompt USER must be set to MTC (maintenance messages) for the system monitor port. Only one port can be XMS = YES.</p>
XTMR	(0)- 6	<p>PMS acknowledgment time (the time measured in seconds to wait for the acknowledgment message from the PMS)</p> <p>Where : 0 = no retransmission.</p>
YALM	(FDL) DG2	<p>Yellow Alarm Method</p> <p>Prompted only if the frame format is ESF. If YALM is not prompted, DG2 was set automatically. If YALM is prompted the response varies between countries.</p> <p>Release 19 and later, the default is FDL when the frame format is ESF. When the frame format is D2, D3, or D4, the default is DG2.</p>

LD 17

Page 324 of 848 Alphabetical list of prompts

LD 18—Speed/Group Call, Pretranslation, and Hotline

This overlay allows data for Speed Call, System Speed Call, Group Call, Pretranslation, and Enhanced Hotline to be created or modified. The data may be printed using Overlay 20.

The Pretranslation List configuration now takes place in this program. To enable the Pretranslation feature in LD 15, the list must be configured here using the XLAT prompt.

Prompts and responses

Table of Contents

Section	Page
<i>Prompts and responses by task :</i>	
Compute Speed Call list memory size and disk records	page 326
Configure Group Call lists	page 327
Configure Speed Call lists	page 327
Assign a Pretranslation group to Speed Call list	page 328
Configure Enhanced Hot Line lists	page 328
Move from one group or list to another	page 329

Compute Speed Call list memory size and disk records

Use this prompt sequence to determine if there are enough memory and disk records for new Speed Call and Hot Line lists. Compare the output with the “MEM AVAIL” and “DISK RECS AVAIL” values output before the REQ prompt. See also “System memory and disk space” at the beginning of this document.

Prompt	Response	Comment
REQ	COMP	Request = COMP (Compute disk and memory required for new lists)
TYPE	aaa	Type of data block, where: aaa = SCL, SSC or HTL (Speed Call, System Speed Call or Hot Line estimation)
NOLS	1-8191	Number of lists to be added
DNSZ	4-(16)-31	Maximum length of DNs allowed for new lists
SIZE	1-1000	Maximum number of DNs allowed in new lists

Configure Group Call lists

Prompt	Response	Comment
REQ	aaa	Request (REQ responses begin on page 331)
TYPE	GRP	Type of data block = GRP (Group Call list)
CUST	0-99	Customer number associated with this data block
GRNO	0-63	Group number for group call
GRPC	(YES) NO	Allow or deny group call control to the originator
STOR	xxx yyy...y	Entry number (0-19) and the digits stored with it

Configure Speed Call lists

Prompt	Response	Comment
REQ	aaa	Request (REQ responses begin on page 331)
TYPE	aaa	Type of data block, where aaa = SCL or SSC (Speed Call list or System Speed Call list)
LSNO	0-8190	List Number for Speed Call (SCL)
	0-4095	List Number for System Speed Call (SSC)
TOLS	0-8190	To List (New speed call list number)
NCOS	(0)-99	Network Class of Service for SSC
DNSZ	4-(16)-31	Maximum number of DNs allowed for Speed Call lists
SIZE	1-1000	Maximum number of DNs in Speed Call list
WRT	(YES) NO	Data is correct and can be updated in the data store
STOR	xxx yyy...y	Entry number (0-999) and the digits stored with it
WRT	(YES) NO	Data is correct and can be updated in the data store

Assign a Pretranslation group to Speed Call list

Prompt	Response	Comment
REQ	aaa	Request (REQ responses begin on page 331)
TYPE	PRE	Type of data block = Pretranslation calling group assignment
CUST	0-99	Customer number
XLAT	0-254 0-8191	Pretranslation list (Calling group to Speed Call list correlation)
	0-254 8191	If list number 8191 is assigned to a group then pretranslation is removed for that group

Configure Enhanced Hot Line lists

Prompt	Response	Comment
REQ	aaa	Request (REQ responses begin on page 331)
TYPE	HTL	Type of data block = Hot Line list
CUST	0-99	Customer number
LSNO	0-8190	List Number for Hotline (one for customer)
NCOS	0-4095	Network Class of Service for HTL
DNSZ	4-(16)-31	Maximum number of DNs allowed for Hot Line list
SIZE	1-1000	Maximum number of DNs in Hot Line list
WRT	(YES) NO	Data is correct and can be updated in the data store
STOR	xxx yyy...y	Entry number (0-999) and the digits stored with it
WRT	(YES) NO	Data is correct and can be updated in the data store

Move from one group or list to another

Prompt	Response	Comment
REQ	MOV	Request = MOV
TYPE	aaa	Group or List Type (aaa = GHT, GRP, SCL, SSC, or SSL)
CUST	0-99	Customer number
LSNO	xxxx	List Number
TOLS	0-254	To List
GRNO	xx	Group Number
TOGR	0-63	To Group

Alphabetical list of prompts

Prompt	Response	Comment
CUST	xx	Customer number associated with this function as defined in LD 15 Prompted when REQ = NEW or CHG and LSNO = <cr>
DNSZ	4-(16)-31	Directory Number Size Maximum length of DN allowed for Speed Call list or Group Hunt list. Range is 4, 8, 12, 16, 20, 24, 28, 31. For Speed Calling the default = 16. Numbers between 1 and 30 are rounded up to the next valid number. Once defined DNSZ should not be changed. Instead, print out the list, remove it with REQ = OUT and rebuild the list with the new DNSZ.
GRNO	0-63	Group Number for group call
GRP	0 - 4095 <CR> X	Ringin Number Pickup Group (RNPG) using this speed call list. Repeat for all groups sharing the same list. To reprompt "LSNO" To remove
GRPC	(YES) NO	Group Call originator does have control Group Call originator does not have control If GRPC = YES in the Group Call List, the originator has control : when the originator goes on hook, the call is terminated. If GRPC = NO and the originator goes on hook, the Group Call acts like a conference call : the call remains active until all members go on hook.
LSNO	0-254 0-4095 0-8190 <cr>	List Number for Speed Call, System Speed Call, Group Hunting and Hotline Range for Release 13 and earlier System Speed Call and Hot Line lists for Release 14 and later A Speed Call list associated with Call Pickup network wide groups. to end Use only when REQ = CHG and TYPE = GHT. List numbers exceeding four digits will have the left most digits truncated, and only the right most digits will be accepted. A Hot Line list uses a System Speed Call list entry, only one Hot Line list is allowed per customer. MSCL must be defined in LD 17.

Prompt	Response	Comment
NCOS	(0)-3 (0)-7 (0)-15 (0)-99	Network Class of Service CDP NFCR or BARS NARS Release 13 and later Prompted when TYPE = SSC or HTL.
NOLS	1-8191	Number of lists to be added. Prompted if REQ = COMP
REQ		Request
	CHG	Change existing data block
	COMP	Compute memory and disk requirements for new Speed Call, System Speed Call or Hot Line lists for Release 17.
	CPY xxx	Copy speed call data. Where: xxx = 1-100. For Release 19 and later, the ability to copy multiple Speed Call and System Speed Call lists is supported.
	END	Exit overlay program
	MOV	Move data block from one group or list to another.
	NEW xxx	Add new data block. Where: xxx = 1-100. Release 19 and later support the ability to create multiple speed Call and System Speed Call lists.
	OUT	Remove data block.
SIZE	1-1000 1-96	Maximum number of DN's in Speed Call or Hot Line lists Maximum number of DN's in Group Hunt list Once defined, SIZE should not be changed. Instead, print out the list in LD 20, remove it with REQ = OUT and rebuild the list with the new SIZE. SIZE is not prompted for TYPE = GRP or PRE.
STOR	xxx yyy ... y	Store For TYPE = SCL, SSC, or HTL the input format is entry number and digits stored against it. Where: <ul style="list-style-type: none"> • xxx = list entry number from 000 to 999 • yyy ... y = digits stored with each list entry number xxx

LD 18

Prompt	Response	Comment
	xx yyyy	For TYPE = GRP the input format is member number and member DN. Where: <ul style="list-style-type: none">• xx = member number (00-19)• yyyy = member DN If the Directory Number Expansion (DNXP) package is equipped, up to seven digits are allowed; otherwise, only four digits can be entered.
	xx yy	For TYPE = GHT the input format is Group Hunt entry and digits stored against it. Where: <ul style="list-style-type: none">• xx = GHT entry number from 00 to 95• yyyy = digits stored
	<cr>	Stop STOR prompt For Speed Call, System Speed Call or Hot Line the member number must conform with SIZE and the number of digits must conform to prompt DNSZ. Digits may include “*” and “#” if the Outpulsing, asterisk and octothorpe (OPAO) package 104 is equipped.
	xxx <space> <cr>	Remove entry
TOGR	0-63	To Group New group call group number.
TOLS	0-254	To List New speed call list number.
	0-8190	Release 13 and later
TYPE		Type of data block
	CPNW	Call Pickup Network Wide data
	GRP	Group call data block
	HTL	Hot Line data block
	PRE	Pretranslation data block
	SCL	Speed Call List or pretranslation data block
	SSC	System Speed Call data block

Prompt	Response	Comment
WRT	(YES) NO	<p>Write Data is correct and can be updated in data store.</p> <p>The Prompt WRT follows prompts SIZE and STOR asking you to confirm the correctness of the data just entered. If data is correct, enter "YES" or <cr>.</p> <p>A response of "NO" causes the data just entered to be ignored and SCH3213 is output.</p> <p>A response of "*****" aborts the program. Only the last STOR value is lost. All previous values to which WRT was "YES" or <cr> are saved.</p> <p>Release 17 and later, the following information is output with the WRT prompt:</p> <p>ADDs: MEM: xxxxx DISK: yy.y</p> <p>Where:</p> <ul style="list-style-type: none"> • xxxxx = the amount of protected memory • yy.y = the number of disks records required for the new Speed Call list <p>Check the "MEM AVAIL" and "DISK RECS AVAIL" output values before the REQ prompt. See also "System memory and disk space" at the beginning of this document.</p>
XLAT	xxx yyyy	<ul style="list-style-type: none"> • Calling group number to translation Speed Call list number correlation, where:xxx = Pretranslation group number, 0-254 • xxx = Group 0 is used for trunks. • xxx = Group 1 is used for attendant consoles. • xxx = Groups 2-254 can be used for other calling groups. • yyyy = List number to be used for Pretranslation, 0-8191. 8191 is used to remove the group from pretranslation.
	<cr>	End the prompt group.

LD 18

Page 334 of 848 Alphabetical list of prompts

LD 19—Code Restriction

Overlay program 19 allows data for code restrictions to be created or modified.

Code Restriction is used to control the digits that can be dialed on a COT or FEX trunk route by a Toll Denied (TLD), Conditionally Toll Denied (CTD) or Conditionally Unrestricted (CUN) Class of Service telephone. See also New Flexible Code Restriction in LD 49.

Prompts and responses

Table of Contents

Section	Page
<i>Prompts and responses by data block:</i>	
ANI: Automatic Number Identification data block	page 336
CRB: Code Restriction data block	page 337

ANI: Automatic Number Identification data block

Prompt	Response	Comment
REQ	aaa	Request
TYPE	ANI	Type of data block = ANI (Automatic Number Identification)
ANII	0-31	ANI Data Block Index
ANIT	xxx	Invalid ANI treatment
NPA	200- 999	First 3 ANI digits in NPA format
3ANI	xxx	3 Digit ANI (denied) allowed
SLV3	NXX	Number of digits for screening
NXX	xxx yyy	Range of end-office numbers
SLV6	xxx	Number of digits for screening
- SUB	xxxx yyyy	Range of subscriber numbers

CRB: Code Restriction data block

Prompt	Response	Comment
REQ	aaa	Request
TYPE	CRB	Type of data block = CRB (Code Restriction)
NCOS	0-99	NCOS value for subscribers
CUST	xx	Customer number associated with this data block
ROUT	0-511	Route number
TORT	0-511	To Route
CLR	aaaa	Codes (aaaa = DENY or ALLOW)
ALLOW	200-999 ... 200-999	NXX, NPA codes allowed
DENY	200-999 ... 200-999	NXX, NPA codes denied

Alphabetical list of prompts

Prompt	Response	Comment
3ANI	(DENY) NCOS xx	3 Digit ANI denied Apply invalid ANI treatment 3 Digit ANI allowed Use this NCOS value (0-99)
ADFT	(OVF) RAN nnn DN nnn . . . nnn	Intercept Treatment for Invalid Address format
ALLOW	200-999 ... 200-999 <cr>	NXX, NPA codes Allowed Proceed to next prompt Prompted when CLR = DENY or <cr>.
ANII	0-31	ANI Data Block Index When ANII = 0, there is no ANI screening; 1-31 is the ANI block index number.
ANIT	(OVF) RAN xxx DN xxxx NCOS xx	Invalid ANI treatment Overflow tone RAN route (0-511) Internal or external DN (1-16 digits) Network Class of Service value (0-99)
CCAN	aaa (YES) aaa NO	Call Categories on calls to Carrier, and ANI screening provided. Call Categories on calls to Carrier, and ANI screening not provided.
		aaa can be any of the following:
	NAM	1 + (inside World Zone 1)
	NA0	0 + (inside World Zone 1)* (see note below)
	INT	1 + (outside World Zone 1)
	IN0	0 + (outside World Zone 1)* (see note below)
	OPR	0 - calls
	SAM	1 + (Embodied SAC)
	SAX	1 + (External SAC)
	SA0	0 + (External SAC)* (see note below)
	CUT	Cut-Through

Prompt	Response	Comment
	(ALL)	All call types (Default when REQ = NEW) Note: aaa entries marked with the symbol * use zero; not the letter O. If the letter is entered in place of the number zero, no error appears. However, NAM and SAM will be overridden.
CCLS	IC INC CONS	Inter-Exchange Carrier Class International Carrier Class Consolidated Carrier Class
CDAN	(NO) YES	ANI Digits in CDR Records
CIC	0000-9999	Carrier ID. Response must be three or four digits.
CLR	DENY	Denied codes. If CLR = DENY all NPA/NXX codes are denied except those entered in response to prompt ALLOW (only ALLOW is prompted).
	ALLOW	Allowed codes. If CLR = ALLOW all NPA/NXX codes are allowed except those entered in response to prompt DENY (only DENY is prompted).
	<cr>	Proceed to next prompt when REQ = CHG When changing a CRB, if CLR = <cr> then both ALLOW and DENY are prompted. For a new CRB, CLR must = ALLOW or DENY.
CPAR	(NO) YES	Call Processing Parameters
CUST	xx	Customer number associated with this data block as defined in LD 15
DENY	200-999 ... 200-999 <cr>	NXX, NPA codes Denied Proceed to next prompt Prompted when CLR = ALLOW or <cr>.
DGTO	128-(640)-5000	Interdigits timeout The maximum time between two digits within the same field, in multiples of 128 milliseconds. 5000 rounds down to 4992.
ENBL	1-(12)-30	Long Enbloc dialing timeout Before initial string is complete on outgoing calls.

LD 19

Prompt	Response	Comment
ENBS	1-(5)-30	Short Enbloc dialing timeout After initial string is complete on outgoing calls.
FGNO	0-127	Feature Group D block number The system automatically assigns FGNO numbers in sequential order when REQ = NEW.
IFTO	2-(120)-254	Inter-field FGD Timeout in increments of 2 seconds The maximum time between two fields on incoming calls (in seconds).
IIT	(OVF) RAN nnn DN nnn . . . nnn	Intercept Treatment for Invalid IIs. Where: <ul style="list-style-type: none">• OVF = Overflow tone• RAN nnn = RAN route• DN nnn . . . nnn = Network or local DN
IITP	xx yyyy zz	Valid II, II Type, and NCOS for ANI screening bypass. Where: xx = II in range 00-99 yyyy = one of the following II types: <ul style="list-style-type: none">• REGU = Regular• 4A8P = 4 or 8 party• HOTL = Hotel/Motel• CLES = Coinless• TST3 = Test 3• AIOD = Automatic Identification of Outward Dialing• COIN = Coin• TST7 = Test 7 zz = optional NCOS number defining ANI screening bypass (00-99)

Prompt	Response	Comment																											
		When ITP = <CR> and REQ = NEW, the following shows the default arrangement. International codes (12-19) are left undefined.																											
		<table> <tr> <td><u>xx</u></td><td><u>yyy</u></td><td><u>zz</u></td></tr> <tr> <td>00</td><td>REGU</td><td>no</td></tr> <tr> <td>01</td><td>4A8P</td><td>no</td></tr> <tr> <td>06</td><td>HOTL</td><td>no</td></tr> <tr> <td>07</td><td>CLES</td><td>no</td></tr> <tr> <td>10</td><td>TST3</td><td>no</td></tr> <tr> <td>20</td><td>AIOD</td><td>no</td></tr> <tr> <td>27</td><td>COIN</td><td>no</td></tr> <tr> <td>95</td><td>ST7</td><td>no</td></tr> </table>	<u>xx</u>	<u>yyy</u>	<u>zz</u>	00	REGU	no	01	4A8P	no	06	HOTL	no	07	CLES	no	10	TST3	no	20	AIOD	no	27	COIN	no	95	ST7	no
<u>xx</u>	<u>yyy</u>	<u>zz</u>																											
00	REGU	no																											
01	4A8P	no																											
06	HOTL	no																											
07	CLES	no																											
10	TST3	no																											
20	AIOD	no																											
27	COIN	no																											
95	ST7	no																											
INIT	(NO) YES	Length of Initial String																											
INTR	(NO) YES	Intercept Treatment																											
LAAC	AC1, AC2	Local Area Access Code Prompted with Network Alternate Route Selection (NARS) package 58.																											
LDAC	AC1, AC2	Long Distance Access Code Prompted with Network Alternate Route Selection (NARS) package 58.																											
MONT	0-(256)-2048	Minimum On-hook Time The minimum amount of time between acknowledgment wink and answer off-hook signal, in multiples of 128 milliseconds.																											
NCOS	0-99	NCOS value for subscribers Reprompts current level NPA, NXX, or SUB.																											
NPA	100-999 200-999	First 3 ANI digits in NPA format; prior to Release 19 First 3 ANI digits in NPA format; Release 19 and later. Only 3 digits are allowed, even when using 1+ dialing.																											
		NPA accepts only 3 digits for NPA even if 1 + dialing is in use.																											
	<cr>	Return to REQ																											

LD 19

Prompt	Response	Comment
NXX	xxx yyy	Range of end office numbers Prompted if SLV3 = NXX. Where: <ul style="list-style-type: none">• xxx = starting or only NXX• yyy = ending NXX (optional)
	<cr>	Reprompts NPA
OPER	DN nnn. . . nnn RAN nnn	Treatment for 0+, 0- calls. Where: <ul style="list-style-type: none">• DN nnn . . . nnn = 1-16 digit network or local DN• RAN nnn = RAN route (0-511)
OVLP	(YES) NO	Overlapped outpulsing by Local Exchange Carrier (LEC)
PRES	(YES) NO	Presubscription
PRTD	(NO) ALL REJ	Printout Control for Invalid II or ANI Digits No printout Printout for all invalid ANI and II digits Printout all invalid II digits. Printout invalid ANI when not mapped to NCOS.
REQ		Request
	CHG END MOV NEW OUT PRT	Change the existing data block Exit overlay program Move data block to a new route Add new data block to the system Remove the data block Print FGD or ANI data block
ROUT	0-511	Route number
SAC	xxx xxx xxx . . . xxx	Service Access Codes. Default codes: 700, 800, 900, 601.
SHAN	(NO) YES	Show ANI Digits on Terminal Displays
SLV3	NXX NCOS xx	Number of digits for screening 6 or 10 digit screening. NXX prompt follows. NCOS xx = 3 digit screening (0-99), all NPA map to NCOS value, NPA is reprompted.

Prompt	Response	Comment
SLV6	SUB	10 digit screening level, SUB prompt appears next. Not allowed if an ending NXX level (yyy) was entered at NXX prompt.
	NCOS xx	6 digit screening level, reprompts NXX. All XXXX numbers under the NPA map to NCOS value (0-99)
SUB	xxxx yyyy	Range of subscriber numbers. Where: <ul style="list-style-type: none"> • xxxx = starting or only subscriber number • yyyy = ending subscriber number (optional)
TORT	0-511	To Route New route number TORT is prompted when REQ = MOV.
TYPE	ANI CRB FDGB	Type of data block ANI screening data block (for Feature Group D) Code Restriction data Block Feature Group D data Block

LD 19

Page 344 of 848 Alphabetical list of prompts

LD 20 to 22—Print Reports Guide

This module documents only those print reports which can be obtained in LDs 20, 21, and 22. In the Alphabetical list of many other Administration Overlays, you can find print options at the REQ and TYPE prompts.

To obtain a list of telephones which have particular features, refer to LD 81. Consult LD 93 to print data for Attendant Console groups. Consult LD 95 to print information for the Call Party Name Display (CPND) data block.

Print Report	LD	Page
<u>Alarm and Exception Filter (ALARM) data</u>	22	<u>388</u>
<u>Application Module Link (AML) data</u>	21	<u>375</u>
<u>Analog set (500 & PBX) data</u>	20	<u>352</u>
<u>Attendant Console (ATT) data from LD 15</u>	21	<u>375</u>
<u>Attendant console (2250) data from LD 12</u>	20	<u>352</u>
<u>Audit trail (AUDT) data</u>	22	<u>388</u>
<u>Automatic Number Identification (ANI) data</u>	21	<u>375</u>
<u>Business Communicaton Set (BCS) data</u>	20	<u>353</u>
<u>Call Detail Recording (CDR) data</u>	21	<u>375</u>
<u>Call Pickup Network Wide (CPNW) data</u>	20	<u>353</u>
<u>Call Redirection (RDR) data</u>	21	<u>376</u>
(Part 1 of 4)		

Print Report	LD	Page
Code Restriction (CRB) data	21	376
Common Equipment (CEQU) data	22	388
Configuration Record (CFN) data	22	388
Controlled Class of Service (CCS) data	21	376
Customer data block (CDB)	21	376
Dial Intercom Group (DIG) data	20	354
Digital set (2000 series, 3000, & Aries) data	20	354
Digitone Receiver (DTR) data	20	355
Directory number (DNB) data	20	355
Directory number (DNB) range data	20	356
Flexible Code Restriction (FCR) data	21	377
Flexible Feature Codes (FFC) data	21	377
Generic version and issue of software (Pre Release 19)	22	394
Group Call (GRP) data	20	356
History File (AHST & PHST) data	22	389
History File (VHST) data	22	389
Hot Line List (HTL) data	20	356
Hunting (HNT & EHT) data	20	357
Integrated Message Service (IMS) data	21	377
Input/output device (ADAN) data	22	390
Integrated Message Service (IMA) data	22	390
ISDN Signaling Link (ISLL) data	21	377
Issue and Release (ISS)	22	390
(Part 2 of 4)		

Print Report	LD	Page
Listed Directory Numbers (LDN) data	21	378
Meridian Modular Telephone (ATRN) data	22	390
Multi-Party Operations (MPO) data	21	378
Networking (NET) data	21	378
Night Service (NIT) data	21	378
Off Hook Alarm Security (OAS) data	21	378
Out of Service unit (OOSLT & OOSMLT) data	20	357
Overlay area (OVLY) data	22	391
Package (PKG) information	22	391
Password (PWD) data	21	379
Password (PWD) data	22	391
Password (PWD) data	22	391
Peripheral Software Version (PSWV) data	22	391
Power (PWR) data	20	357
Pretranslation (PRE) data	20	358
System Limits (SLT) data	22	392
Recorded Overflow Announcement (ROA) data	21	379
Route Data Block (RDB)	21	379
Set Relocation (SRDT) data	21	379
Speed call lists (SCL) data	20	358
System Limits (SLT) data	22	392
System Loop Limits	22	392
System Patch (ISSP) data	22	392
(Part 3 of 4)		

LD 20-22

Print Report	LD	Page
Tandem Connection (TCON) data	20	358
Tape ID (TID) data	22	392
Template (TEM) data	20	359
Terminal Number Block (TNB) data for telephones and trunks	20	359
Terminal Number Block (TNB) range data	20	360
Test lines (TST) data	21	380
Timers (TIM) data	21	380
Trunk data: All Trunks	20	360
Trunk Members (LTM) data	21	380
Trunk data: Specific Trunk types	20	361
Unused Card (LUC) data	20	361
Unused Directory Number (LUDN) data	20	356
Unused Units (LUU) data	20	362
Unused Voice or Data unit (LUVU or LUDU) data	20	362
Value Added Server (VAS) data	22	392
Voice Mailbox (VMB) data	20	363
(Part 4 of 4)		

Ldf 20—Print Routine 1

Overlay program 20 allows data to be printed for the following blocks:

- all hunting
- group calls
- speed calls
- template data blocks
- terminal numbers
- pre-translation

Templates

Templates store telephone information in system memory. Telephones with the same configuration of keys and Class of Service share the same template. This makes efficient use of Protected Data Store. Template Audit (LD 1) is used to remove unused templates.

When printing the TN block, “MARF” is output next to a DN appearance if it is the MARF TN for that DN. When printing the DN block, “MARF” is output prior to the DES if it is the MARF TN. Refer to the features and services for an explanation of the MARF feature.

The security password may be required to print telephone and TN information. The password (SPWD) is required if the Station Security Authcode package (229) is equipped and the password is defined.

LDs 10, 11, 20 and 32 are linked thus eliminating the need to exit one Overlay and enter another. Once one of the above Overlays has been loaded it is possible to add, print and get the status of a set without having to exit one Overlay and load another. The input processing has also been enhanced. Prompts ending with a colon (:) allow the user to enter either:

- 1 a question mark (?) followed by a carriage return (<cr>) to get a list of valid responses to that prompt, or
 - 2 an abbreviated response, the system then responds with the nearest match. If there is more than one possible match the system responds with SCH0099 and the input followed by a question mark and a list of possible responses. The user can then enter the valid response.
-

Prompts and responses

Prompt	Response	Comment
REQ:	a...a	Request (REQ responses begin on page 367)
TYPE:	a...a	Type of data block (Type responses begin on page 369)
TN	c u	Terminal Number (c u ranges are defined on page 368)
CDEN	aa	Card Density (aa = SD, DD, 4D, or 8D)
CUST	xx xx	Customer number
SPWD	xxxx	Security Password
DN	x...x	Directory Number
DATE	dd mmm yyyy	Date
PAGE	(NO) YES	Data printed on a per-page basis
- ADJUST PAPER THEN <cr>		
		Adjust Paper so that printing starts at top of sheet
DES	d...d	Designator
NACT	(NO) YES	Next Activity
AACS	NO YES	Application acquired set
SCNO	0-8190	Speed Call list Number
LSNO	0-8190	Speed Call or System Speed Call List Number
RNGE	xxxx yyyy	Range of list entries to be printed, inclusive from first entry number to last entry number.
HTNO	xxxx	Hunt Number
DGRP	0-2045	Dial Intercom Group
DMEM	0-99	Dial Intercom Group (DIG) Member number
FOR	a...a	For telephone type (a...a = 500, 2xxx, or SL1)
GRNO	0-63	Group Call Group Number
INFO	aaa	Information for templates (aaa = FRM, USE, USS, or DEF)
TEM	x...x	Template
EHNO	x...x	External Hunt DN

Alphabetical list of print reports

Analog set (500 & PBX) data

Prompt	Response	Comment
REQ:	PRT	Print
TYPE:	500	500/2500 type analog sets
	PBX	Private branch exchange sets
TN	c u	Terminal Number (card, unit)
CDEN	SD, DD, 4D, 8D	Single, Double, Quad or Octal Density
CUST	0	Customer number
DATE	dd mmm yyyy	Print data from date specified
	ACT	Print data from last activity
PAGE	(NO) YES	Data printed on a per page basis
DES	d...d	Print all units with DES "d...d"
	d+	Print all units starting with "d"
	<cr>	Disregard DES

Attendant console (2250) data from LD 12

Prompt	Response	Comment
REQ:	PRT	Print
TYPE:	2250	M2250 Console
TN	c uc u	Terminal Number (card, unit)
CDEN	SD, DD, 4D, 8D	Single, Double, Quad or Octal Density
CUST	0	Customer number
DATE	dd mmm yyyy	Print data from date specified
	ACT	Print data from last activity
PAGE	(NO) YES	Data printed on a per page basis

Business Communicaton Set (BCS) data

Prompt	Response	Comment
REQ:	PRT	Print
TYPE:	BCS	Business Communication Sets
TN	c u	Terminal Number (card, unit)
CDEN	SD, DD, 4D, 8D	Single, Double, Quad or Octal Density
CUST	0	Customer number
DATE	dd mmm yyyy	Print data from date specified
	ACT	Print data from last activity
PAGE	(NO) YES	Data printed on a per page basis
DES	d...d	Print all units with DES "d...d"
	d+	Print all units starting with "d"
	<cr>	Disregard DES

Call Pickup Network Wide (CPNW) data

Prompt	Response	Comment
REQ:	PRT	Print
TYPE:	CPNW	Call Pickup Network Wide data
CUST	0	Customer number

Dial Intercom Group (DIG) data

Prompt	Response	Comment
REQ:	PRT	Print
TYPE:	DIG	Dial Intercom Group
CUST	0	Customer number
DGRP	0-2045	Dial Intercom Group
DMEM	0-99	Dial Intercom Group Member number

Digital set (2000 series, 3000, & Aries) data

Prompt	Response	Comment
REQ:	PRT	Print
TYPE:	2xxx	Meridian 1 proprietary sets. You may enter: 2000, 2003, 2006, 2008, 2009, 2016, 2018, 2112, 2216 or 2616.
	ARIE	Aries (M2006, M2008, M2016S, M2216, or M2616) sets and Meridian Communications Unit (MCU) data blocks
	BCS	Business Communication Set
TN	c u	Terminal Number (card, unit)
CDEN	SD, DD, 4D, 8D	Single, Double, Quad or Octal Density
CUST	0	Customer number
DATE	dd mmm yyyy	Print data from date specified
	ACT	Print data from last activity
PAGE	(NO) YES	Data printed on a per page basis

Digitone Receiver (DTR) data

Prompt	Response	Comment
REQ:	PRT	Print
TYPE:	DTR	Digitone Receiver data
TN	c u	Terminal Number (card, unit)
CDEN	SD, DD, 4D, 8D	Single, Double, Quad or Octal Density
DATE	dd mmm yyyy	Print data from date specified
	ACT	Print data from last activity

Directory number (DNB) data

Prompt	Response	Comment
REQ:	PRT	Print
TYPE:	DNB	Directory number data block
CUST	0	Customer number
DN	x...x	Print for Directory Number
DATE	dd mmm yyyy	Print data from the date specified
	ACT	Print data from the last Activity
PAGE	(NO) YES	Data printed on a per-page basis
DES	d...d	Print all units with DES "d...d"
	d+	Print all units starting with "d"
	+	Print units with no DES assignment
	<cr>	Disregard DES
ADJUST PAPER THEN <cr>		
	<cr>	Adjust paper so that printing starts at top of sheet

Directory number (DNB) range data

Prompt	Response	Comment
REQ:	PRT	Print
TYPE:	DNB	Directory Number block
CUST	0	Customer number
DN	xxxx...xxxx	Up to 8 DNs can be entered
DATE	dd mmm yyyy	Print data from the date specified
	ACT	Print data from the last Activity
PAGE	(NO) YES	Data printed on a per-page basis
DES	d...d	Print all units with DES "d...d"
	d+	Print all units starting with "d"
	+	Print units with no DES assignment
	<cr>	Disregard DES
ADJUST PAPER THEN <cr>		
	<cr>	Adjust paper so that printing starts at top of sheet

Group Call (GRP) data

Prompt	Response	Comment
REQ:	PRT	Print
TYPE:	GRP	Group Call
GRNO	0-63	Group Call Group Number

Hot Line List (HTL) data

Prompt	Response	Comment
REQ:	PRT	Print
TYPE:	HTL	Hot Line List
CUST	0	Customer number
RNGE	xxxx...xxxx	Range of Hot Line list entries (0-1000) to be printed for this customer
	<cr>	Print all entries in the Hot Line list

Hunting (HNT & EHT) data

Prompt	Response	Comment
REQ:	PRT	Print
TYPE:	HNT	Hunting
	EHT	External Hunting
CUST	0	Customer number
HTNO	x...x	Hunt Directory Number
EHNO	x...x	External Hunt Directory Number

Out of Service unit (OOSLT & OOSMLT) data

Prompt	Response	Comment
REQ:	PRT	Print
TYPE:	OOSLT	Single line TNs that are Out-of-Service
	OOSMLT	Multi-line TNs that are Out-of-Service
TN	c u	Terminal Number associated with the unit

Power (PWR) data

Prompt	Response	Comment
REQ:	PRT	Print
TYPE:	PWR	Power data block
TN	c u	Terminal Number (card, unit)
CDEN	SD, DD, 4D, 8D	Single, Double, Quad or Octal Density
DATE	dd mmm yyyy	Print data from date specified
	ACT	Print data from last activity
PAGE	(NO) YES	Data printed on a per page basis

Pretranslation (PRE) data

Prompt	Response	Comment
REQ:	PRT	Print
TYPE:	PRE	Pretranslation
CUST	0	Customer number

Speed call lists (SCL) data

Prompt	Response	Comment
REQ:	PRT	Print
TYPE:	SCL	Regular and System Speed Call Lists
LSNO	0-8190	List Number for Speed Call or System Speed Call
	<cr>	Print for all lists
RNGE	xxxx xxxx	Range of Speed Call entries (0-1000) to be printed
	<cr>	Print all entries

Tandem Connection (TCON) data

Prompt	Response	Comment
REQ:	PRT	Print
TYPE:	TCON	Tandem Connection for Meridian Packet Handler and PRI connections

Template (TEM) data

Prompt	Response	Comment
REQ:	PRT	Print
TYPE:	TEM	Templates
FOR	aaa	Print template information for telephone type
INFO	FRM	Print key/feature assignment template
	USE	Print number of users of the template
	USS	Print TN using the template
	DEF	Print number of templates defined and the number of templates allowed
TEMP	xxxx	Telephone template number
	<cr>	Print all templates

Terminal Number Block (TNB) data for telephones and trunks

Prompt	Response	Comment
REQ:	PRT	Print
TYPE:	TNB	Terminal Number Block
TN	c u,...	Terminal Number (Up to 6 TNs can be entered)
CDEN	SD, DD, 4D, 8D	Card Density
CUST	xx xx	Customer number
SPWD	xxxx	Security Password
TEN	0, 1-511	Tenant
DATE	dd mmm yyyy	Print data from date specified
PAGE	(NO) YES	Date printed on a per page basis
DES	d...d, d+, +	Designator
NACT	(NO) YES, END	Next Activity
AACS	a...a	Application acquired set (a...a = (NO), AGTH, or AGT)
ASID	x...x	Application Service ID
SMCB	1-17	Print set message control bitmap
SMOO	(NO) YES	(Do not set) Set message optimize option

Terminal Number Block (TNB) range data

Prompt	Response	Comment
REQ:	PRT	Print
TYPE:	TNB	Terminal Number Block
TN	c u-c u	Terminal Number Range

Trunk data: All Trunks

Prompt	Response	Comment
REQ:	PRT	Print
TYPE:	TRK	Trunk data block
TN	c u	Terminal Number (card, unit)
CDEN	SD, DD, 4D, 8D	Single, Double, Quad or Octal Density
CUST	0	Customer number
DATE	dd mmm yyyy	Print data from date specified
	ACT	Print data from last activity
PAGE	(NO) YES	Data printed on a per page basis

Trunk data: Specific Trunk types

Prompt	Response	Comment
REQ:	PRT	Print
TYPE:	ADM	Add-on Data Module
	CAA	Common Control Switching Arrangement
	CAM	CAMA trunks
	COT	Central Office trunks
	CSA	Common control switching arrangement access line
	DIC	Dictation trunks
	DID	Direct inward dial trunks
	FEX	Foreign Exchange trunks
	ISA	Integrated services access trunks (ISDN)
	MCU	Meridian Communications Unit
	MDM	Modem/Data Module
	MUS	Music trunks
	CBCT	NI-2 CBC trunk
	PAG	Paging trunks
	RAN	Recorded announcement trunks
	RCD	Recorder trunks
	TIE	TIE trunks
	WAT	Wide Area Telephone service trunks
TN	c u	Terminal Number (card, unit)
CDEN	SD, DD, 4D, 8D	Single, Double, Quad or Octal Density
...		

Unused Card (LUC) data

Prompt	Response	Comment
REQ:	LUC	List Unused Card slots
TN	l s c	Terminal Number (loop, shelf, card)
	l ch	DTI/PRI loop and channel

Unused Directory Number (LUDN) data

Prompt	Response	Comment
REQ:	PRT	Print
TYPE:	LUDN	List Unused Directory Numbers
CUST	0	Customer number
DN	xxxx-xxxx	DN range

Unused Units (LUU) data

Prompt	Response	Comment
REQ:	LUU	List Unused Units
TYPE:		Peripheral equipment requiring TNs:
	500	Single line or analog sets
	2000	Digital sets and M2250 consoles
	DTR	Digitone Receiver
	MCU	Meridian Communications Unit
	TRK	All trunks
	a...a	Any specific trunk type (e.g., COT, DID, FEX, WAT, etc.)
TN	c u	Terminal Number

Unused Voice or Data unit (LUVU or LUDU) data

Prompt	Response	Comment
REQ:	LUVU	List Unused Voice Units
	LUDU	List Unused Data Units
TYPE:		Peripheral equipment requiring TNs:
	500	Single line or analog sets
	2000	Digital sets and M2250 consoles
	DTR	Digitone Receiver
	MCU	Meridian Communications Unit
	TRK	All trunks
	a...a	Any specific trunk type (e.g., COT, DID, FEX, WAT, etc.)
TN	xx...xxxx	Terminal Number

Voice Mailbox (VMB) data

Prompt	Response	Comment
REQ:	PRT	Print
TYPE:	VMB	Voice Mailbox information
CUST	<cr>	Customer number automatically appears. No entry is needed.
DN	xxxx	Print for Directory Number
VMB_STATE	nnnn	Print based on Voice Mailbox State

Alphabetical list of prompts

Prompt	Response	Comment
AACS	NO YES	Application acquired set The TN is not acquired by an application The TN is acquired by an application
ADJUST PAPER THEN <cr>	<cr>	Adjust paper then <cr> to start printing Start printing
ASID	x...x	Application Service ID from which the acquired request originated The ASID is used for sending the monitor/control messages to the application. The ASID value is updated based on the applications's Acquire message for the TN. Since the AML over Ethernet (ELAN) is used to communicate between the Meridian 1 and the application(s), the value of the existing VSID might be used to uniquely identify the application that has acquired this device. ASID is printed if AACS = YES.
CALB	1 2 ...	Call Filter Bitmap CALB applies to messages such as PCI, DN update, etc. This bitmap is downloaded by the application which is used to control the sending of messages on behalf of the acquired TN. A numeric value would only be printed if the corresponding set message is enabled. CALB is printed if AACS = YES.
CDEN	SD DD 4D 8D <cr>	Single Card Density Double Card Density Quadruple Card Density Octal Card Density For all card densities
CUST	xx xx	Customer number Print data range from first to last customer. Not prompted when: <ol style="list-style-type: none"> 1. REQ = LUU or LUC 2. TYPE = SCL, DIG or TEM 3. a complete TN is entered

Prompt	Response	Comment
	<cr>	Print data blocks for all customers
DATE	dd mmm yyyy	Print data from date specified. Where: <ul style="list-style-type: none"> • dd = 1-31 • mmm = JAN-DEC • yyyy = year (e.g. 1993)
	<cr>	DATE is prompted for TN related data.
	ACT	Print data and show last activity date. Print data from last activity date.
DES	d...d	Designator
	d+	Print all units with ODAS designator d...d
	+	Print units starting with ODAS designator d
	<cr>	Print units with no ODAS designator assigned
	<cr>	Disregard ODAS designator
		DES is prompted on TN related data The printing of data is subject to restrictions imposed by responses to TN and DATE.
DGRP	0-254	Dial Intercom Group
	0-2045	DIG numbers per customer (Release 13 and earlier)
	<cr>	Release 14 and later
		Print all Dial Intercom Groups for customer
		DGRP is prompted when TYPE = DIG
DMEM	0	Dial Intercom Group (DIG) Member number
	<cr>	Print all DIG member numbers
DN		Directory Number
	xxxx	Print data block for DN
	<cr>	Print data blocks for all DN
	xxxx <space>	If a space is entered after the Directory Number the system will reprompt for DN. A maximum of six DNs can be stacked and printed at one time.
		With Release 19 and later the following responses are valid for DN:
	x<cr>	All DNs starting with first digit x (X000-X999)
	xx<cr>	All DNs starting with first two digits xx (XX00-XX99)
	xxx<cr>	All DNs starting with first three digits xxx (XXX0-XXX9)

Prompt	Response	Comment
	x-<cr>	All DNs between X000-9999
	x-y<cr>	All DNs between DN X000 through Y999
	xx-yyy<cr>	All DNs between DN XX00 through YYYY9
	xxxx xxxx	Two specific DNs. Up to a maximum of 8 DNs.
	xxxx-yyy	All DNs between XXXX and YYYY
EHNO	xxxx	External HUNT DN Up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. EHNO is prompted when TYPE = EHT
FOR	500 2xxx SL1	Print template information for telephone type Print data for 500/2500 telephones. Print data for 2000 type telephones (specify type). Print data for SL-1 telephones.
GRNO	0-63 <cr>	Group Call Group Number. Prompted when TYPE = GRP. Print all group call groups.
HTNO	x...x	Hunt Directory Number Up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. Prompted when TYPE = HNT.
INFO	FRM USE USS DEF	Information for Templates Print key/feature assignment template Print number of users of template Print TN using the template Print number of templates defined and number allowed Prompted when TYPE = TEM
LSNO	0-253 0-4095 0-8190	Speed Call or System Speed Call List Number prior to Release 14 System Speed Call Lists Release 14 and later Speed Call Lists Release 14 and later When inputting list number for printout, non-DN input exceeding 4 digits may be truncated. Only the 4 right-most digits will be accepted, and printed for Release 14 and later.
NACT	(NO) YES END	Next Activity Return to REQ prompt Print current system data and end overlay End overlay activity

Prompt	Response	Comment
PAGE	(NO) YES	Data printed on a per-page basis Prompted only on TN related data
REQ:		Request
	END	Exit overlay program
	LTN	List TN of TYPE specified
	LUC	Print Unused Card data blocks of TYPE specified
	LUDU	List Unused Data Units
	LUU	Print Unused Unit data blocks of TYPE specified
	LUVU	List Unused Voice Units
	PRT	Print data block for the TYPE specified.
		LD 32: CDSP CMIN CONV CPWD DISC DISI DISL DISN DISS DISU DSCT DSPS DSXP ENCT ENLC ENLG ENLL ENLN ENLS ENLU ENPS ENXP IDC IDCS IDU LBSY LDIS LIDL LMNT PBXT SDLC STAT SUPL TRK XNTT XPCT XPEC
		LD 10 or 11: CHG CPY MOV NEW OUT
RNGE	xxxx yyyy	Range of list entries to be printed, inclusive from first entry number to last entry number.
	<cr>	Print All members of a specified SCL or SSC list.
SCNO	0-253	Speed Call list Number
	0-8190	Speed Call list Number - Release 13 and later
	<cr>	Print all lists. Prompted when TYPE = SCL
SFNB	1 2 ...	Set Feature Notification Bitmap SFNB is used for messages such as: SFN (login), SFN (logout), ... This bitmap is downloaded by the application which is used to control the sending of SFN messages on behalf of the acquired TN. A numeric value is printed only if the corresponding message is enabled. SFNB is printed if AACS = YES.

LD 20

Prompt	Response	Comment
SFRB	1 2 ...	Set Feature Route Bitmap SFRB is used for messages such as: SFR (login), SFR (logout), ... This bitmap is downloaded by the application which is used to control the sending of SFR messages on behalf of the acquired TN. A numeric value is printed only if the corresponding message is enabled. SFRB is printed if AACS = YES.
SPWD	xxxx	Security Password. This prompt appears when: 1. the Station Specific Authcode package (229) is equipped 2. the security password is defined in LDs 10 and 11.
TEM	xxxx xxxxxxx <cr>	Template number Template number - Release 13 and later Print data for all templates. Prompted when TYPE = TEM
TEMP	xxxx	Telephone template number. Enter <cr> to print all templates.
TN		Terminal Number
	c u	Print data of the specified TYPE for this card, unit.
	l ch	Print data of the specified TYPE for this loop and channel (format for Digital Trunk and Primary Rate Interfaces).
	<cr>	Print data for all TNs of the specified TYPE.
	c u, c u	List of TNs (up to 6)
	c u, l ch	A TN and a trunk loop/channel can be entered on the same line
	c, c	All units within the specified starting and ending cards
	c u	All units, including the specified starting card and ending TN
	c u cu	All TNs starting with the specified TN and ending with the last TN Not prompted when TYPE = SCL, HNT, DIG, TEM, or GRP

Prompt	Response	Comment
TYPE:		Type of data block
		Note: This load is linked with LDs 10, 11 and 32. LD 20 permits you to enter LD 10 or 11 responses to the TYPE prompt or a command listed in LD 32.
500		500/2500 telephone
2006		M2006 Digital telephone
2008		M2008 Digital telephone
2009		M2009 Digital telephone
2016		M2016 Digital telephone
2018		M2018 Digital telephone
2112		M2112 Digital telephone
2216		M2216 Digital telephone (ACD terminal)
2250		M2250 Console
2616		M2616 Digital telephone
ADM		Add-on Data Module Data port interfacing with a data line card
ARIE		Aries (M2006, M2008, M2016S, M2216 and M2616) sets and Meridian Communications Unit (MCU) data blocks
CAA		Common Control Switching Arrangement (CCSA) Automatic Number Identification (ANI) trunk data block
CAM		CAMA trunk data block
CBCT		NI-2 Call by call trunk data block
COT		Central Office Trunk (PSTN) data block
CPNW		Call Pickup Network Wide data
CSA		Common Control Switching Arrangement access line

LD 20

Prompt	Response	Comment
	DIC	Dictation trunk data block
	DID	Direct Inward Dialing trunk data block
	DIG	Dial Intercom Group
	DNB	Directory Number Block
	DTR	Digitone Receiver
	EHT	External Hunting
	FEX	Foreign Exchange trunk
	GRP	Group call
	HNT	Hunting
	HTL	Hot Line
	LUDN	List Unused Directory Numbers.
	MCA	Meridian Communications Adapter
	MCU	Meridian Communications Unit
	MDM	Modem/Data Module. Data port interfacing with 500/2500 type card
	MUS	Music trunk
	OOSMLT	Out-of-Service Multi-Line Terminal
	OOSSLT	Out-of-Service Single Line Terminal
	PWR	Power data block
	R422	NT7D16 Data Access Card (Release 16 and later) (DAC) port in RS-422 mode data block
	RAN	Recorded Announcement trunk
	RCD	Recorder trunk

Prompt	Response	Comment
	SCL	Regular and System Speed Call Lists
	TEM	Template
	TIE	TIE trunk
	TNB	Terminal Number
	TRK	Trunk data block
	VMB	Voice Mailbox information
	WAT	Wide Area Telephone Service trunk
	<cr>	Print all
USFB	1 2 ...	<p>Unsolicited Status Message (USM) Filter Bitmap</p> <p>USFB applies to messages such as:</p> <ul style="list-style-type: none"> Onhook, Offhook, Ringing, Active, Disconnect, Unringing, Hold, Restore, Ready, Not Ready, Walkaway, Walkaway Return, Reserved, Unreserved, ... <p>This bitmap is downloaded by the application which is used to control the sending of USM messages on behalf of the acquired TN. A numeric value would only be printed if the corresponding message set is enabled.</p> <p>USFB is printed if AACS = YES.</p>
VMB_STATE	nnnn	Print based on Voice Mailbox State

LD 21—Print Routine 2

Overlay program 21 allows data to be printed for the following:

- customer data blocks
- code restriction data blocks
- route data blocks
- trunks within a route
- associated TN

Set Relocation data

This prints the sets which have “relocated out”, but have not “relocated back in”. With Automatic Set Relocation the set's serial number, NT code, color code, and release are also printed.

Prompts ending with a colon (:) allow the user to enter either

- 1 a question mark (?) followed by a carriage return (<cr>) to get a list of valid responses to that prompt, or
- 2 an abbreviated response, the system then responds with the nearest match. If there is more than one possible match the system responds with SCH0099 and the input followed by a question mark and a list of possible responses. The user can then enter the valid response.

Prompts and responses

Prompt	Response	Comment
REQ	aaa	Request (aaa = END, LTM, or PRT)
TYPE	a...a	Type of data block (TYPE responses begin on page 380)
CUST	xx	Customer number associated with this data block
SIZE	0-4000	CLID entry size
RNGE	aa ... aa	CLID entry or entries to be printed
HOURL	0-23	All routes tested by ATM for this hour
OPR	(NO) YES	Outpulsing Route
ROUT	0-511	Route number
ACOD	x...x	Access Code for route
AACR	(NO) YES	The route (is not)/is acquired by the application
ASID	x...x	Application Service ID from which the aquired request originated

Alphabetical list of print reports

Application Module Link (AML) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	AML	Application Module Link
CUST	0-99	Customer number

Attendant Console (ATT) data from LD 15

Prompt	Response	Comment
REQ	PRT	Print
TYPE	ATT	Attendant consoles
CUST	0	Customer number

Automatic Number Identification (ANI) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	ANI	Automatic Number Identification
CUST	0-99	Customer number

Call Detail Recording (CDR) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	CDR	CDR and Charge Account
CUST	0	Customer number

Call Redirection (RDR) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	RDR	Call Redirection options
CUST	0	Customer number

Code Restriction (CRB) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	CRB	Code Restriction data
CUST	0	Customer number
ROUT	0-511	Route number to be printed

Controlled Class of Service (CCS) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	CCS	Controlled Class of Service
CUST	0	Customer number

Customer data block (CDB)

Prompt	Response	Comment
REQ	PRT	Print
TYPE	CDB	Customer data block
		Note: If you need information regarding System Passwords, print PWD_DATA field by itself. PWD_data will not be provided by printing CDB.
CUST	0	Customer number

Features and options (FTR) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	FTR	Features and Options
CUST	0	Customer number

Flexible Code Restriction (FCR) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	FCR	New Flexible Code restrictions
CUST	0	Customer number

Flexible Feature Codes (FFC) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	FFC	Flexible Feature Code
CUST	0	Customer number

Integrated Message Service (IMS) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	IMS	Integrated Message Service
CUST	0	Customer number

ISDN Signaling Link (ISLL) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	ISLL	ISDN Signaling Link trunk TN

Listed Directory Numbers (LDN) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	LDN	Departmental Listed Directory Numbers
CUST	0	Customer number

Multi-Party Operations (MPO) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	MPO	Multi-party options
CUST	0	Customer number

Networking (NET) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	NET	ISDN and ESN networking options
CUST	0	Customer number

Night Service (NIT) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	NIT	Night Service
CUST	0	Customer number

Off Hook Alarm Security (OAS) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	OAS	Off-Hook Alarm Security
CUST	0	Customer number

Password (PWD) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	PWD	Customer Related Passwords
CUST	0	Customer number

Recorded Overflow Announcement (ROA) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	ROA	Recorded Overflow Announcement options
CUST	0	Customer number

Route Data Block (RDB)

Prompt	Response	Comment
REQ	PRT	Print
TYPE	RDB	Route Data Block
CUST	0	Customer number
ROUT	0-511	Route number to be printed
	<cr>	Print data for all routes
ACOD	xxxx	Route access code

Set Relocation (SRDT) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	SRDT	Recent Set Relocation activity

Test lines (TST) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	TST	Test lines
CUST	0	Customer number

Timers (TIM) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	TIM	Timer options
CUST	0	Customer number

Trunk Members (LTM) data

Prompt	Response	Comment
REQ	LTM	List Trunk members
CUST	0	Customer number
ROUT	0-511	Route number to be printed
ACOD	xxxx	Route Access Code

Alphabetical list of prompts

Prompt	Response	Comment
AACR	(NO) YES	The route is not acquired by the application The route is acquired by the application
ACOD	x...x <cr>	Access Code for route Up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. Print data for all route access codes This prompt appears when ROUT = <cr>
ASID	x...x	Application Service ID from which the acquired request originated ASID is used for sending route status messages. The ASID value is updated based on the application's Acquire message for the route. Since the AML over Ethernet (ELAN) is used to communicate between the Meridian 1 and other applications, the VSID value might be used to uniquely identify the application which has acquired that device.
CALB	1 2 ...	Call Filter Bitmap CALB applies to messages such as PCI, DN update, etc. This bitmap is downloaded by the application which is used to control the sending of messages on behalf of the acquired TN. A numeric value would only be printed if the corresponding set message is enabled. CALB is printed if AACR = YES.
CUST	xx xx <cr>	Customer number Print data range from first to last customer Not prompted when: <ul style="list-style-type: none"> • REQ = LUU or LUC • TYPE = SCL, DIG or TEM • a complete TN is entered Print data blocks for all customers
HOURL	0-23 <cr>	All routes tested by ATM for this hour Print routes tested by ATM for all hours
OPR	(NO) YES	Outpulsing Route

LD 21

Prompt	Response	Comment
		This prompt appears when OPOA is equipped. Prompted on TN related data
REQ	END LTM PRT	Request Exit overlay program Print trunk route by TN and member number Print data block for the TYPE specified.
RNGE	aa ... aa	CLID entry to be printed You may print one CLID entry or several CLID entries. If you want to print several CLID entries, separate each entry with a comma. Each CLID entry must be between 0 and the number entered for the prompt SIZE in LD 15.
ROUT	0-127 0-511 <cr>	Route number For machine types NT, RT, XN, XT and system Options 51, 61, and 71 (Release 14 and later). Print data for all routes This prompt appears when TYPE = CRB or RDB
SFNB	1 2 ...	Set Feature Notification Bitmap SFNB is used for messages such as: SFN (login), SFN (logout), ... This bitmap is downloaded by the application which is used to control the sending of SFN messages on behalf of the acquired TN. A numeric value is printed only if the corresponding message is enabled. SFNB is printed if AACR = YES.
SIZE	- - -	CLID entry size. The SIZE prompt and the SIZE value print out automatically after the CUST prompt.
TYPE		Type of data block
	AML_DATA	Application Module Link
	ANI_DATA	Automatic Number Identification numbers
	ATT_DATA	Attendant Data
	CCS_DATA	Controlled Class of Service options

Prompt	Response	Comment
	CDB	Customer Data Block Note: If you need information regarding System Passwords, print PWD_DATA field by itself. PWD_data will not be provided by printing CDB.
	CDR_DATA	Call Detail Recording
	CLID	Calling Line Identification entry data
	CRB	Code Restriction data block
	FCR_DATA	New Flexible Feature code options
	FFC_DATA	Flexible Feature Codes
	FTR_DATA	Feature
	IMS_DATA	Integrated Messaging System
	INT_DATA	Alarm ring for Internal calls
	ISLL	IASL ISDN Signaling Link data block. This prompt appears when REQ = PRT.
	LDN_DATA	Listed Directory Number
	MPO_DATA	Multi-party options
	NET_DATA	ISDN and ESN networking options
	NIT_DATA	Night Service options
	NPID	Numbering Plan Digit or Information Digit table
	OAS_DATA	Off-Hook Alarm Security options
	PWD_DATA	Print the system Passwords (Release 19 and later)
	RDB	Route Data Block A printout of a route with the Night Key for DID Digit Manipulation (NKDM) active will show * opposite the value for DCNO or NDNO.
	RDR_DATA	Call Redirection

Prompt	Response	Comment
	ROA_DATA	Recorded Overflow Announcement
	SRDT	Set Relocation Data block
	TIM_DATA	System Speed Call
	TST_DATA	Loop Test trunk data
USFB	1 2 ...	<p>Unsolicited Status Message (USM) Filter Bitmap</p> <p>USFB applies to messages such as:</p> <ul style="list-style-type: none">• Onhook, Offhook, Ringing, Active, Disconnect, Unringing, Hold, Restore, Ready, Not Ready, Walkaway, Walkaway Return, Reserved, Unreserved, ... <p>This bitmap is downloaded by the application which is used to control the sending of USM messages on behalf of the acquired TN. A numeric value would only be printed if the corresponding message set is enabled.</p> <p>USFB is printed if AACR = YES.</p>

LD 22—Print Routine 3

Overlay program 22 allows data to be printed for the following:

- Configuration Record
- DN to TN Matrix
- System Password number
- System Loop Limits
- software version
- tape ID
- issue number
- equipped feature packages
- System Incremental Software Management (ISM) parameters

Audit trail for Limited Access to Overlays (LAPW)

You must be logged in with the PWD1 or PWD2 password in order to print the Audit Trail. Printing of the Audit Trail deletes the Audit Trail information and resets the buffer.

Packages equipped

This prompt sequence prints the equipped software packages. The packages are printed in numerical order by package number, accompanied by the mnemonic. In addition, you can get the status of an individual package.

Issue and release

If the system has a “patch”, then a “+” is printed next to the issue number.

Read Only Memory (ROM)

This print option only applies to SL-1 ST and Option 21 systems.
UNKNOWN is output for all other systems.

System limits for Incremental Software Management (ISM)

This prints the ISM limits for TNs, ACD Positions, ACD DNs, AST sets, Application Module Links (AML), D-channels (DCH), ISDN BRI Digital Subscriber Loops (DSL) and LTID.

The output is as follows:

```
ACDN xxxx LEFT xxxx USED xxxx
AGNT xxxx LEFT xxxx USED xxxx
AML xxxx LEFT xxxx USED xxxx
AST xxxx LEFT xxxx USED xxxx
DCH xxxx LEFT xxxx USED xxxx
DSL xxxx LEFT xxxx USED xxxx
LTID xxxx LEFT xxxx USED xxxx
TNS xxxx LEFT xxxx USED xxxx
```

Prompts and responses

Prompt	Response	Comment
REQ	a...a	Request (a..a = END, ISS, ISSP, PRT, PWD, ROM, SLL, SLT, or TLD)
TYPE	a...a	Type of data block (TYPE responses begin on page 395)
PWD2	xxxx	Password 2
CUST	xx	Customer number associated with this data block
DN	xxxx	Print for Directory Number
CUST	xx	Customer number associated with this data block
DN	xxxx	Print for Directory Number
DATE	dd mmm yy	ACT Date
PAGE	(NO) YES	Data printed on a per-page basis
- ADJUST PAPER THEN	<cr>	Adjust paper so that printing starts at top of sheet.
DES	d...d	Designator
NACT	(NO) YES	Next Activity
- VHST	aaa	View History File (aaa = (%ON) or %OFF)

Alphabetical list of print reports

Alarm and Exception Filter (ALARM) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	ALARM	Print Filter and Exception tables. Must have Alarm Filtering (AFTR) package 243.

Audit trail (AUDT) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	AUDT	Audit trail. Must be logged in with the PWD1 or PWD2 password. Printing of the Audit trail deletes the Audit trail information and resets the buffer.

Common Equipment (CEQU) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	CEQU	Common Equipment data

Configuration Record (CFN) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	CFN	Configuration record

History File (AHST & PHST) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	AHST	Print all of the History File
	PHST	Print the previous History File

History File (VHST) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	VHST	View the History File
VHST	(%ON)	Turn ON display features
	%OFF	Turn OFF display features
	BFIND aaa	Search backward in the History File
	BFIND	Repeats the previous backward search
	DOWN BOT	Moves to the top of the file
	DOWN	Move forward 6 lines in the History File
	FIND aaaa	Search Forward in the history file
	FIND	Repeats the previous forward search
	HELP	List valid responses
	NEXT BOT	Moves to the end of the file
	NEXT x	Move forward x lines in the History File, display all lines in between
	PREV TOP	Moves to the top of the file
	PREV x	Move backward x lines in the History File, display all lines in between
	TRF	View the system traffic log file
	TTYLOG n	View the log file for TTY port n
	UP TOP	Moves to the top of the file
	UP	Move backward 6 lines in the history file

Input/output device (ADAN) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	ADAN	All I/O devices
	ADAN AML	Application Modules
	ADAN DCH	D-channel and backup D-channels
	ADAN HST	History Files
	ADAN PRT	System Ports
	ADAN TTY	System Terminals

Integrated Message Service (IMA) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	IMA	IMS Message Attendant
CUST	0-99	Customer number

Issue and Release (ISS)

Prompt	Response	Comment
REQ	ISS	Print Issue and Release

Meridian Modular Telephone (ATRN) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	ATRN	Meridian Modular Telephone transmission parameters

Overlay area (OVLY) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	OVLY	Overlay area information

Package (PKG) information

Prompt	Response	Comment
REQ	PRT	Print
TYPE	PKG	Software Packages
	PKG xxx	Check equipped/restricted status of package number xxx

Password (PWD) data

Prompt	Response	Comment
REQ	PWD	Action Request
PWD2	xxxx	Level 2 Password
	<cr>	Limited Access to Overlays

Password (PWD) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	PWD	Print System Passwords

Peripheral Software Version (PSWV) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	PSWV	Peripheral Software Versions

System Limits (SLT) data

Prompt	Response	Comment
REQ	SLT	Print System Limits

System Parameters (PARM) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	PARM	System Parameters

System Patch (ISSP) data

Prompt	Response	Comment
REQ	ISSP	Print System and Patch Information

Tape ID (TID) data

Prompt	Response	Comment
REQ	TID	Print Tape ID

Value Added Server (VAS) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	VAS	Print Value Added Server data

Alphabetical list of prompts

Prompt	Response	Comment
ADJUST PAPER THEN	<cr>	Adjust paper then <cr> to start printing
	<cr>	Start printing
CUST	xx	Customer number Not prompted when: <ol style="list-style-type: none"> 1. REQ = LUU or LUC 2. TYPE = SCL, DIG or TEM 3. a complete TN is entered
	<cr>	Print data blocks for all customers
DATE	dd mmm yyyy	Print data from date specified. Where: <ul style="list-style-type: none"> • dd = 1-31 • mmm = JAN-DEC • yyyy = year e.g. 1993 DATE is prompted for TN related data
	<cr>	Print data and show last activity date
	ACT	Print data from last activity date
DES		Designator DES is prompted on TN related data The printing of data is subject to restrictions imposed by responses to TN and DATE.
	d...d	Print all units with ODAS designator dddddd
	d+	Print units starting with ODAS designator d
	+	Print units with no ODAS designator assigned
	<cr>	Disregard ODAS designator

Prompt	Response	Comment
DN	xxxx <cr> xxxx <space>	Directory Number Print data block for DN Print data blocks for all DN If a space is entered after the Directory Number the system will reprompt for DN. A maximum of six DN's can be stacked and printed at one time. With Release 19 and later the following responses are valid for DN:
	x<cr> xx<cr> xxx<cr>	All DN's starting with first digit x (X000-X999) All DN's starting with first two digits xx (XX00-XX99) All DN's starting with first three digits xxx (XXX0-XXX9)
	x-<cr> x-y<cr> xx-yyy<cr>	All DN's between X000-9999 All DN's between DN X000 through Y999 All DN's between DN XX00 through YYY9
	xxxx xxxx xxxx-yyy	Two specific DN's. Up to a maximum of 8 DN's. All DN's between XXXX and YYYY
NACT	(NO) YES END	Next Activity Return to REQ prompt Print current system data and end overlay End overlay activity
PAGE	(NO) YES	Data printed on a per-page basis Prompted only on TN related data
PWD2	x...x <cr>	Enter second level administration password (Password 2) to print information relating to all passwords. Valid characters are 0-9, A-Z, a-z. Length is 4-16 characters. To print only the information regarding the Limited Access to Overlay password used to login. PWD2 is prompted when REQ = PWD or TYPE = PWD.
REQ	END ISS ISSP PRT PWD SLT	Request Exit overlay program Print generic version and Issue (Rel 18 & earlier) Print System and Patch Information (Rel 19 & later) Print data block for TYPE specified Print the system Passwords Print System Limits : Incremental Software Management

Prompt	Response	Comment
TYPE	TID	Print the Tape ID.
		Type of data block
	ADAN	All I/O devices
	ADAN AML	Application Modules
	ADAN DCH	D-channel and backup D-channels
	ADAN HST	History Files
	ADAN PRT	System Ports
	ADAN TTY	System Terminals
	ADM	Add-on Data Module (Release 5 and later) Data port interfacing with a data line card
	AHST	All History File
	ALARM	Print Filter and expection tables
	ATRN	Print Meridian Modular Telephone Transmission parameters
	AUDT	Audit Trail buffer Only system Administrators are allowed to print the Audit Trail. They must first respond to PWD2 in LD 17 to define the password.
	CEQU	Common Equipment
	CFN	Configuration record data block
	CHID	Channel ID for ISDN Signaling Link (ISL)
	IMA	IMS Message Attendant
	IADN	Individual Attendant Directory Number
	ISS	Generic version and Issue (Release 18 and earlier)
	ISSP	System and Patch Information (Release 19 and later)
	OVLY	Print Overlay area information

Prompt	Response	Comment
	PARM	System Parameters
	PHST	Previous History File All History File records since last request
	PKG	Packages equipped. For a list of packages, refer to pages 21 or 25.
	PKG xxx	Check equipped/restricted status of package number xxx
	PSWV	Peripheral Software Version(s)
	PWD	Print the system Passwords (Release 19 and later)
	VAS	Value Added Server data
	VHST	View History File
VHST		View the History File
	(%ON)	Turn ON display features
	% OFF	Turn OFF display features
		This command is used to enable or disable the following three display features: <ul style="list-style-type: none"> • brackets to surround the current index ([]) • percent symbol (%) preceding each History File line • relative location within the History File (in percentage) VHST accepts abbreviated responses.
	BFIND aaaa	Search backward in the History File
		This command can be used to search backward, starting at the current index location, for the string "aaaa." If necessary, the file will wrap until it returns to the same location.
		The text string can be up to 12 characters. Special characters like space, slash (/), and colon (:) are accepted. Leading or trailing spaces are ignored unless enclosed in double quotes. For example, the spaces denoted here are ignored: <SP><SP>INI<SP>. The spaces in this string, however, are included in the search: "<SP><SP>INI<SP>".

Prompt	Response	Comment
		When the string is found, the system displays the current index location. Five text lines are shown, with the middle line containing the sought string. The VHST prompt is re-displayed to allow more command use. If the string is not found, VHST is reprompted to allow more command use.
BFIND		Repeats the previous backward search
DOWN BOT		Moves to the top of the file
DOWN		Move forward 6 lines in the History File This command can be used to move forward in the History File, toward the end. If x exceeds the end of the file, the end will be shown. When the move is complete, VHST is reprompted to allow more command use.
FIND aaaa		Search Forward in the History File This command can be used to search forward, starting at the current index location, for the string "aaaa." If necessary, the file will wrap until it returns to the same location. The text string can be up to 12 characters. Special characters like space, slash (/), and colon (:) are accepted. Leading or trailing spaces are ignored unless enclosed in double quotes. For example, the spaces denoted here are ignored: <SP><SP>INI<SP>. The spaces in this string, however, are included in the search: "<SP><SP>INI<SP>". When the string is found, the system displays the current index location. Five text line are shown, with the middle line containing the sought string. The VHST prompt is re-displayed to allow more command use. If the string is not found, VHST is reprompted to allow more command use.
FIND		Repeats the previous forward search
HELP		List valid responses
NEXT BOT		Moves to the end of the file

Prompt	Response	Comment
	NEXT x	<p>Move forward x lines in the History File, display all lines in between.</p> <p>This command can be used to view lines forward, toward the end of the file. The lines between the current index location, and the new one (x lines down) are displayed.</p> <p>If you enter only NEXT, the default of 20 lines is used for the move. When the move is complete, VHST is reprompted to allow more command use.</p>
	PREV TOP	Moves to the top of the file
	PREV x	<p>Move backward x lines in the History File, display all lines in between</p> <p>This command can be used to view lines backward, toward the top of the file. The lines between the current index location, and the new one (x lines up) are displayed.</p> <p>If you enter only PREV, the default of 20 lines is used for the move. When the move is complete, VHST is reprompted to allow more command use.</p>
	TRF	View the system traffic log file
	TTYLOG n	View the log file for TTY port n
	UP TOP	Moves to the top of the file
	UP	<p>Move backward 6 lines in the History File</p> <p>This command can be used to move backward in the History File, toward the top. If x exceeds the top of the file, the top will be shown. When the move is complete, VHST is reprompted to allow more command use.</p>

LD 23—Automatic Call Distribution, Management Reports, Message Center

Overlay program 23 allows Automatic Call Distribution (ACD) data, schedules for management reports and Message Center data to be created, modified, or printed.

ACD groups are also used for Meridian Mail and various server applications. When this overlay is loaded the available system memory and disk records are output in a header. Refer to the introduction of this document for details.

Incremental Software Management (ISM) also provides a header to indicate system configuration limits. For LD 23, the header appears as follows:

ACD DNS AVAIL: xxxxx USED: xxxxx TOT: xxxxx

To prevent Virtual Agent information from appearing on ACD-D reports, do not make changes to Virtual Agents. If a change to a Virtual Agent is required, out the agent and rebuild it with REQ = NEW.

Prompts and responses

Table of Contents

Section	Page
Prompts and responses	page 400
<i>Prompts and responses by data block:</i>	
ACD or SCB: Automatic Call Distribution (ACD-D) or Schedule data block	page 403
ADS: Auxillary data system data block (includes Multiple Queue Assignment prompts)	page 404

Prompts and responses

Prompt	Response	Comment
REQ	aaa	Request
TYPE	a...a	Type of data block (a...a = ACD, ADS, CDN, NACD, or SCB)
CUST	xx	Customer number associated with this data block
ACDN	x...x	ACD Directory Number
MWC	(NO) YES	Message Waiting Center
- IMS	(NO) YES	Integrated Messaging Service
- - CMS	(NO) YES	Command and Status link
- - IMA	(NO) YES	Integrated Messaging Allowed
- - IVMS	(NO) YES	Integrated Voice Messaging System
- - DNIS	(NO) YES	Dialed Number Identification Service
- - VSID	0-15	Value Added Server ID
- - EES	(NO) YES	End-to-End Signaling
- - APL	0-15	Auxiliary Processor Link number
- - UST	(NO) YES	User Status update
- - VSID	0-15	VAS ID of VAS providing VMS

-- APL	0-15	Auxiliary Processor Link number
-- UMG	(NO) YES	User-to-User Messaging
-- RAN	0-511	RAN route number
-- UMT	2-(6)-15	Update Message Time
AST	(NO) YES	Associated set
DSAC	(NO) YES	Data Services Access Code
- PRIM	(NO) YES	Primary DSAC
- VSID	0-15	Value Added Server ID
MAXP	xxxx	Maximum Positions
SDNB	(NO) YES	Secondary DN Blocking
BSCW	(NO) YES	Block Secondary DN Calls on Walkaway
ISAP	(NO) YES	Integrated Services Application Protocol
ASID	16-31 or (00)	Application service identity from which the acquired message originated
AACQ	(NO) YES	Applicaton Acquired Queue
- VSID	0-15	Value Added Server ID
ALOG	(NO) YES	Automatic Log In
RGAI	(NO) YES	Ring Again for Internal calls
ACAA	(NO) YES	ACD Agent while IDN on-hold Allowed
FRRT	0-511	First RAN route number for ACD
- FRT	0-2044	First RAN Time
SRRT	0-511	Second RAN route number for ACD
- SRT	0-2044	Second RAN Time
NRRT	0-127	Night RAN Route
FROA	(NO) YES	First RAN On Arrival
NCFW	x...x	Night Call Forward
FNCF	(NO) YES	Force Night Call Forward to busy ACD DN
FORC	(NO) YES	Force
- FCFT	0-(2)-30	Flexible Call Force Timer
SPCP	(NO) YES	Separate Post Call Processing
OBTN	aaa	Observation Tone (aaa = (NO), AGT, or ALL)
HSID	0-15	Host ID
CWTH	0-(1)-2047	Calls Waiting Threshold
NCWL	(NO) YES	New Call Waiting Lamp options

- CWLF	(0)-2047	Call Waiting Lamp Flash threshold
- CWLW	(0)-2047	Call Waiting Lamp Wink (fast flash) threshold
BYTH	(0)-204	Busy Threshold
OVTH	0-(2047)	Overflow Threshold
TOFT	2-1800	Timed Overflow Threshold in seconds
HPQ	(NO) YES	High Priority Queue
- OCN	(NO) YES	Oldest Call in Network
OVDN	x...x x...x x...x	Overflow Directory Number(s)
IFDN	x...x	Interflow Directory Number
- BUSY	aaa bbb ccc ddd	Busy treatment
- AENI	(NO) YES	Automatically Enable Interflow
EMRT	0-511	Emergency Route
MURT	0-511	Music Route
RTPC	(NO) YES	Real Time Processing
STIO	0, 1, 2, ...15	Status Input/Output devices
TSFT	0-(20)-510	Telephone Service Factor Threshold in seconds
HOML	(YES) NO	Headset Or MSB key Log Out
RDNA	(NO) YES	Restricted DN Access
ACNT	xxxx	Account
DAL	(NO) YES	Data Agent Log In with the MSB key allowed
RPRT	(YES) NO	Management reporting and status display
RAGT	2-(4)-30	Reserve Agent
DURT	15-(30)-45	Duration Timer in minutes
RSND	(4)-16	Resend timer
FCTH	10-(20)-100	Flow Control Threshold
CRQS	0-(100)-255	Call Request Queue Size
DNRT	(NO) YES	Delay Night RAN Treatment
IVR	(NO) YES	Interactive Voice Response queue
- TRDN	xxxx	Treatment DN for IVR queue
CWNT	l s c u	Call Waiting Notification TN
CWNC	NO YES	Call Waiting Notification TN control

Prompts and responses by data block

ACD or SCB: Automatic Call Distribution (ACD-D) or Schedule data block

Prompt	Response	Comment
REQ	aaa	Request
TYPE	aaa	Type of data block = ACD or SCB (Automatic Call Distribution or Schedule data block for ACD management reports)
CUST	xx	Customer number associated with this data block
CPRD	dd mm dd mm	Collection Period
SHR	0-23	Start Hour
EHR	0-23	Hour of day that data reporting ends
DOW	1-7	Days of Week for data collection
RFRQ	0-7	Frequency that Reports are to be generated
SFRQ	x	Status display update Frequency (1 or 2)
ROPT	1-4	Report Options
PRI0	0-15	Printer(s) for Output
PAGE	(NO) YES	Start at the top of a new page for each report
AID	(NO) YES	Agent ID mode
- IDLB	(1)-9999	Agent ID Lower Boundary
- IDUB	/DLB-(9999)	Agent ID Upper Boundary
- LOG	(0)-999	Maximum number of agents that can be logged in at any one time
SRPT	(NO) YES	Short Report option for report 4 (Agent position)
TOT4	(NO) YES	Totals on report 4

ADS: Auxillary data system data block (includes Multiple Queue Assignment prompts)

Prompt	Response	Comment
REQ	aaa	Request
TYPE	ADS	Type of data block = ADS (Auxiliary Data System)
CUST	xx	Customer number associated with this data block
AID	(NO) YES	Agent ID mode
- IDLB	(1)-9999	Agent ID Lower Boundary
- IDUB	<i>IDLB</i> -(9999)	Agent ID Upper Boundary
- MQA	(NO) YES	(Don't allow)/Allow agents to use MQA functionality
- - MQAS	(NO) YES	(Don't allow)/Allow agents to specify a Supervisor ID during login
- - MQAP	(NO) YES	(Don't allow)/Allow agents to specify Priorities during login
- - MQCF	(NO) YES	(Don't allow)/Allow automatic Call Forwarding of Phantom TNs to agent sets at login
- - MCFD	x	Number of digits prepended to Agent IDs to find Phantom TNs to Call Forward to agents (x = (0), 1, 2, or 3)

Alphabetical list of prompts

Prompt	Response	Comment
AACQ	(NO) YES	Applicaton Acquired Queue The ACD DN is not acquired by the application The ACD DN is acquired by the application
ACAA	(NO) YES	Allow ACD calls to an agent on an Individual DN (IDN) Call On Hold The agent cannot place an IDN Call On Hold, and return to the idle queue. The agent can put an active IDN Call On Hold and press the in-calls to return to the idle agent queue.
ACDN	x...x	ACD Directory Number Up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150
ACNT	x...x	Account (Default activity code) Maximum 4 digits (0 through 9). The # and * are not allowed. Prompted if the ADS data block is built, and CNTL = YES.
AENI	(NO) YES	Automatically Enable Interflow Prompted when IFDN is defined.
AID	(NO) YES	Customer will operate in Position ID mode. Customer will operate in Agent ID mode.
ALOG	(NO) YES	Provide Automatic Log In for agents on this DN. Set to YES for Meridian Mail applications. ALOG applies only to Command and Status Link (CMS) and Data Service Access Codes (DSAC). Prompted if IMS or ISAP = YES.
APL	0-15	Auxiliary Processor Link number Prompted if IMA = YES. The APL is defined in LD 17.
ASID	16-31 or (00)	Application service identity from which the acquired message originated

LD 23

Prompt	Response	Comment
AST	(NO) YES	Associated set Release 16 and earlier. Release 17 and later, the Associate Set assignments is performed in LD 10 and LD 11 for each ACD telephone. In Release 16 and earlier, the AST is assigned automatically to each telephone for an ACD DN with AST = YES.
BSCW	(NO) YES	Block Calls to the Secondary DN on Walkaway The caller to the source DN hears busy tone. Release 13 and later.
BUSY	aaa bbb ccc ddd	Interflow Busy Treatment for different originators Prompted if IFDN is defined. The possible options are: <ul style="list-style-type: none">• BSY = caller hears busy tone• SRC = caller is re-linked to source queue Enter BSY or SRC for each of the four different originators: <ul style="list-style-type: none">• aaa = Stations• bbb = Attendants• ccc = CO, FEX and WATS trunks• ddd = all other trunk types Defaults if the IFDN is an ACD DN, internal or external DN are: <ul style="list-style-type: none">• BSY BSY SRC BSY (3rd entry cannot be changed) Default if the IFDN is an attendant console: <ul style="list-style-type: none">• BSY SRC SRC BSY (only the 4th entry can be changed)
BYTH	(0)-2047	Busy Threshold at which the Calls Waiting lamp flashes and this queue ceases to accept overflowed calls. When BYTH = 0, overflow calls are not accepted by this target queue unless an agent is available. To delete existing entry, precede entry with X.

Prompt	Response	Comment
CALB	1 2 ...	<p>Call Filter Bitmap</p> <p>CALB applies to messages such as PCI, DN update, etc.</p> <p>This bitmap is downloaded by the application which is used to control the sending of messages on behalf of the acquired TN. A numeric value would only be printed if the corresponding set message is enabled.</p> <p>CALB is printed if AACR = YES.</p>
CDN	x...x	<p>Control DN</p> <p>Up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150.</p>
CEIL	0-(2047)	<p>CDN Ceiling value</p> <p>CEIL limits the number of unanswered calls a CDN can have at its default ACD DN at a time. New calls receive a busy signal once the ceiling is reached (CO trunks do not receive busy).</p>
CMS	(NO) YES	<p>Command and Status link</p> <p>If this ACD DN is to use the CSL, enter YES. Set to YES for Meridian Mail applications.</p>
CNTL	(NO) YES	<p>Control DN is in control.</p> <p>When CNTL = NO, CDN calls are sent to the Default ACD DN (DFDN).</p>
CPRD	sm sd em ed	<p>Collection Period: Month and day data collection is to start and end. Where:</p> <ul style="list-style-type: none"> • sm = start month (1-12) • sd = start day of month(1-31) • em = end month (1-12) • ed = end day of month(1-31)

LD 23

Prompt	Response	Comment
CRQS	0-(100)-255	<p>Call Request Queue Size</p> <p>It is recommended that CRQS be approximately 20% higher than the number of trunks available for networking. If the customer selects the OCN option, set this value at 5% over trunking capacity. This avoids reserving agents for calls on the network when trunking facilities are unavailable. Flow Control (FCTH) is typically set at 25% of the call request queue size.</p> <p>The CRQS must be defined for each ACD DN in the network. CRQS must be greater than FCTH. CRQS = 0 closes the queue.</p>
CUST	xx	<p>Customer number associated with this data block as defined in LD 15.</p>
CWLF	(0)-2047	<p>Call Waiting Lamp Flash threshold</p> <p>Prompted if NCWL = YES. CWLF must be greater than or equal to Cwth</p>
CWLW	(0)-2047	<p>Call Waiting Lamp Wink (fast flash) threshold</p> <p>Prompted if NCWL = YES. CWLW must be greater than or equal to CWLF</p>
CWNC	NO YES	<p>Alert rings for all calls</p> <p>Alert rings for only priority calls</p> <p>CWNC appears when a TN has been entered for CWNT. There is no default.</p>
CWNT	I s c u	<p>Call Waiting Notification TN</p>
CWTH	0-(1)-2047 0 X	<p>Calls Waiting Threshold: The number of Calls Waiting in queue that triggers the "calls waiting" indication.</p> <p>To disable</p> <p>To delete existing entry.</p>
DAL	(NO) YES	<p>Data Agent Log In with the MSB key allowed</p> <p>The data agent must be defined with a DTA Class of Service in LD 11. DAL is not prompted when IVMS or DSAC are set to "YES".</p> <p>Release 14 and later. Prompted if TYPE = SCB or ADS.</p>

Prompt	Response	Comment
DFDN	x...x	Local default ACD DN Up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. Calls to the CDN are directed to this ACD DN. RAN and Music, if provided, are as defined for the CDN. Any other ACD treatment, such as Night, is applied as if the caller directly dialed the ACD DN.
DNIS	(NO) YES	Dialed Number Identification Service Send (do not send) ACD/DNIS information across the link. Not prompted for Virtual Agents.
DNRT	(NO) YES	Delay Night RAN Treatment When DNRT = YES for an ACD DN there is a delay in routing calls to the night RAN. The call is delayed until the call has reached the end of the Night table and there are no outstanding call requests for the call. Prompted if a NACD Night table and a RAN route have been defined.
DOW	1-7	Days of Week for data collection Where: 1 = Sunday and 7 = Saturday
DSAC	(NO) YES	ACD DN is not an IS/Data Service Access Code ACD DN is an IS/Data Service Access Code Prompted when MWC = NO
DURT	15-(30)-45	Duration Timer (in minutes) DURT indicates how long a Target node honors a call request from the Source node. If the timer expires, the call is removed from the call request queue. If this timer is too large, the network call request queues may become overcrowded. If the timer is too small, waiting customers may be cut off from receiving services. This timer must be defined only for Target queues.
EES	YES (NO)	IVMS uses End-to-End Signaling to send tone. IVMS (does not use) End-to-End Signaling to send tone. Prompted when IMA = YES.
EHR	0-23	Hour of day that data reporting ends
EMRT	0-511	Emergency Recorder Trunk Route. The route and at least one trunk must exist before defining EMRT. Enter X to remove.

LD 23

Prompt	Response	Comment
FCFT	0-(2)-30	Flexible Call Force Timer (the time in seconds before Flexible Call Force is enforced)
FCTH	10-(20)-100	<p>Flow Control Threshold to allow additional calls into the call request queue</p> <p>The Flow Control option opens and closes the ACD DN for network calls. Once the number of Call Requests received over the network meets the call request queue size defined in LD 23, the queue is shut down (INACTIVE) for network calls. For the queue to open for network calls, the pending queue request size must drop to a value equal to the flow calls control.</p> <p>For example, a call request queue size of 50 with a flow control of 10 allows the queue to become inactive after 50 call requests are pending. After 10 calls or 10 Call Requests have been answered or removed, leaving 40 remaining in queue, the queue will reopen.</p>
FNCF	(NO) YES	Force Night Call Forward to busy ACD DN
FORC	(NO) YES	<p>Force</p> <p>Calls are forced to arrive in answered state. When FORC = Yes, the call arrives on Key 0 (in-calls key) in an answered state. Headsets are recommended for this option.</p>
FROA	(NO) YES	<p>First RAN On Arrival (the 1st RAN to be given to incoming calls immediately; FRT time ignored)</p> <p>If FROA = NO, the call is forced to wait FRT time. Recorded Announcement is only given if an idle agent is not found.</p>
FRRT	0-511	<p>First RAN Route number for ACD</p> <p>The route and at least one trunk must exist before defining FRRT. Enter X to remove.</p>
FRT	0-2044	<p>First RAN Time (the time in seconds allowed before unanswered incoming ACD calls are connected to the first RAN)</p> <p>Prompted if FRRT is defined. If a value is not entered FRT defaults to blank and there is no connection to the RAN.</p>
HMSB	(NO) YES	<p>Agent cannot activate Make Set Busy if an ACD call is on-hold</p> <p>Agent can activate Make Set Busy if ACD call is on-hold</p>

Prompt	Response	Comment
HOML		Handset Removal or Make Set Busy key (MSB key) log out. The HOML option allows an agent to log out by removing the headset or going on hook without using the Make Set Busy (MSB) key. Logout while on Agent Reserve causes a cancellation message.
	(NO)	Log out with only the Make Set Busy key
	YES	Log out with either handset removal or Make Set Busy key activation HOML is prompted if an Auxiliary Data System (ADS) or Schedule Block (SCB) exists.
HPQ		High Priority Queue (preference given to High Priority trunk calls)
	(NO)	Calls from the source queue's high priority trunks are presented after another queue's Timed Overflow queue (TOFQ) calls.
	YES	Calls from the source queue's high priority trunks are presented before another queue's Timed Overflow queue (TOFQ) calls. In an NACD environment, HPQ must be denied to receive the OCN prompt. (HPQ = No)
HSID	0-15	VAS ID for the Host Application Module Link. When the CCR and ML applications are both running, this HSID is the VSID assigned to the AML for Meridian Link in LD 17. The VSID prompt in this CDN configuration will match the VSID for the CCR AML port configured in LD 17.
IDLB	(1)-9999	Agent ID Lower Boundary With Release 19 and later, this prompt is used with the IDUB prompt to determine the maximum number of agents allowed by the system. The number must be within the parameters set by the IDLB and IDUB prompts. Prompted if TYPE = ADS or SCB and AID = YES
IDUB	<i>IDLB</i> -(9999)	Agent ID Upper Boundary With Release 19 and later, this prompt is used with the IDLB prompt to determine the maximum number of agents allowed by the system. The number must be within the parameters set by the IDLB and IDUB prompts. Prompted if TYPE = ADS or SCB and AID = YES

LD 23

Prompt	Response	Comment
IFDN	x...x	<p>Interflow Directory Number</p> <p>The Interflow Directory Number serves as the DN to which calls interflow. Prior to Release 22, IFDN can be up to 23 digits. For Release 22, IFDN can be up to 31 digits.</p> <p>Calls diverted to the IFDN are not routed by NACD. Network calls diverted to an IFDN lose all the network information, so that information cannot be displayed on the terminating telephone.</p> <p>A group hunt pilot DN can be entered. If the OPAO package is equipped, then # can be used in this DN.</p>
	X	<p>To delete existing entry.</p> <p>IFDN and NFCR are affected by the Outpulsing feature for Japan. Refer to the Feature Description in X11 Features and Services for details.</p> <p>Typing four asterisks (****) at the IFDN prompt will not let the user exit Overlay 23.</p>
IMA	(NO) YES	Integrated Messaging Allowed (ACD DN assigned to IMS) Set to YES for Meridian Mail applications.
IMS	(NO) YES	Integrated Messaging Service Set to YES for Meridian Mail applications. IMA must be set to Yes in LD 15.
ISAP	(NO) YES	Integrated Services Application Protocol (ACD messages sent across the ISDN/AP link) Set to YES for Meridian Mail applications.
IVMS	(NO) YES	Integrated Voice Messaging System Set to YES for Meridian Mail applications.
IVR	(NO) YES	<p>Interactive Voice Response queue</p> <p>An ACD queue must be defined as an IVR queue before the Treatment Request for IVR command can be used in Customer Controlled Routing (CCR) applications.</p>
	(0)-999	<p>Login maximum (the maximum number of agents that can be logged in at any one time)</p> <p>LOG cannot exceed MAGT value defined in LD 17.</p>

Prompt	Response	Comment
LOG	(0)-999	Login maximum (the maximum number of agents that can be logged in at any one time) LOG cannot exceed the MAGT value defined in LD 17
MAXP		Maximum Number of Agent Positions. The value of the MAXP can be increased to the allowed maximum or decreased to the current number agents.
	1-70	For M, S and MS
	1-120	For LE, N and ST
	1-240	For XN, RT, VLE, XL and Option 21
	1-500	For NT and Options 51 and 61
	1-1000	For XT
	1-1200	For Option 71 and 81
MCFD		Multiple Queue Assignment (MQA) Call Forwarding Digits MCFD is prompted if MQCF = YES.
	(0)	(0) digits prepended to Agent IDs to find Phantom TNs to Call Forward to agents.
	1	1 digit prepended to Agent IDs to find Phantom TNs to Call Forward to agents.
	2	2 digits prepended to Agent IDs to find Phantom TNs to Call Forward to agents.
	3	3 digits prepended to Agent IDs to find Phantom TNs to Call Forward to agents.
MQA		Multiple Queue Assignment
	(NO)	Don't allow agents to use MQA functionality
	YES	Allow agents to use MQA functionality MQA is prompted if AID = YES and MQA package 297 is equipped. Warning: The HSL link must be disabled before you configure or change MQA.
MQAP		MQA Priority option
	(NO)	Don't allow agents to specify Priorities during login
	YES	Allow agents to specify Priorities during login Prompted if MQA = YES and Priority Agent package 116 is equipped.
MQAS		MQA Supervisor option
	(NO)	Don't allow agents to specify a Supervisor ID during login
	YES	Allow agents to specify a Supervisor ID during login Prompted if MQA = YES.

Prompt	Response	Comment
MQCF	(NO)	MQA Call Forward option Don't allow automatic Call Forwarding of Phantom TNs to agent sets at login
	YES	Allow automatic Call Forwarding of Phantom TNs to agent sets at login Prompted if MQA = YES and Phantom TN package 254 is equipped.
MURT	0-511	Music Route number The route and at least one trunk must exist before defining MURT. Enter X to remove.
MWC	(NO) YES	Message Waiting Center (ACD DN is a message center DN) MWC is set to YES for Meridian Mail applications. Prompted if Message Waiting Center (MWC) package 46 is equipped.
NCFW	x...x	Night Call Forward DN for ACD calls (up to 23 digits) and Operator Revert DN for Meridian Mail (IMS, IVMS). NCFW is tracked on reports as interflow. Prior to Release 22, NCFW can be up to 23 digits. For Release 22, NCFW can be up to 31 digits. Precede NCFW entry with X to delete. Typing four asterisks (****) at the NCFW prompt will not let the user exit Overlay 23.
NCWL	(NO) YES	New Call Waiting Lamp options When NCWL = YES, the Busy Threshold and Overflow Threshold apply only to Overflow by Number and Interflow conditions, but do not change the lamp states. Calls in the Call Request and Local Flow-in queues are included when adding up the calls in queue for lamp state updates.
NRRT	0-511	Night RAN Route number assigned as night announcement for ACD calls. If NRRT and NCFW are both defined, then NRRT course first. The route and at least one trunk must exist before defining NRRT. Enter X to remove.
OBTN	(NO)	No Observation Tone given
	AGT ALL	Audible Observe Tone to Agent only (post Release 14) Audible Observe Tone to all parties (post Release 14) Prior to Release 14, options are YES (NO); YES is equivalent to the AGT option in Release 14 and later

Prompt	Response	Comment
OCN	(NO) YES	<p>Accept Oldest Call in Network</p> <p>This feature determines if the oldest call in the network is answered ahead of calls to the Source location. Use caution with this feature. Because agents are reserved for network calls, agents may remain idle while calls wait in the local queue.</p> <p>To avoid reserving all the agents for network calls, split the ACD group into two areas: one area for all calls and the second area for a group of agents equal to the number of tie lines between the network locations. This solution allows local calls to overflow by time into the area for all calls.</p> <p>The OCN option must be defined only for Target queues.</p> <p>When OCN = YES and HPQ = NO, the system compares calls from queues for that target ACD DN. The highest priority call that has waited the longest is the call presented to the next available agent.</p> <p>When OCN = NO and HPQ = NO, the system selects the oldest call from the ACD DN's own Timed Overflow (TOF) queue. If there are no calls in the Source Timed Overflow queue, the system looks at calls in the Call Request queue and Source Timed Local Flow-in queue.</p> <p>When OCN = NO and HPQ = YES, the system presents calls from the agent's own TOF queue and High-Priority queues before presenting calls from Source TOF queues and Call Request queues.</p> <p>OCN is prompted if Network Automatic Call Distribution (NACD) package 207 equipped.</p>
OUTS	xxxx xxxx	<p>Routing Table entries to be removed</p> <p>Up to 20 entries at a time can be removed from the Enhanced Overflow (EOVF) or Network ACD (NACD) routing tables. Only 5 entries can be entered at OUTS at a time. OUTS is prompted until just <cr> is entered.</p> <p>Prompted if REQ = CHG. Remove routing tables by list entry number, not by ACD DN. Print the NACD data to see the ACD DN associated with each entry number.</p>

Prompt	Response	Comment
OVBU	aaa bbb ccc ddd	<p>Overflow Busy treatment for specific call originator types when IFDN not defined.</p> <p>Enter the required treatment for Overflow calls:</p> <ul style="list-style-type: none"> • LNK = caller is re-linked to source queue (the default value) • BSY = caller hears busy tone <p>Enter all four entries at the same appearance. Enter LNK or BSY for each of the four different originators:</p> <ul style="list-style-type: none"> • aaa = Internal calls • bbb = Attendant calls • ccc = CO, FEX and WATS trunks (only LNK allowed in Release 17 and later) • ddd = DID and TIE trunks <p>If busy tone is configured for CO trunk calls, the calling or called party will be billed for the duration of the call, which is from the time the PBX returns answer supervision until the time the calling party disconnects.</p> <p>In Release 17 and later, BSY is not allowed for CO trunks. Prompted if there is no entry for IFDN.</p>
OVDN	x...x x...x x...x	<p>Overflow ACD Directory Number(s) (maximum of three responses) Up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150.</p>
	X	To remove ALL OVDNs for the ACD DN
	Xxxxx	To delete a specific DN.
		Any new entry replaces the old data. The Overflow DN cannot be a CDN.
OVFL		Overflow Tone
	(NO)	Busy tone will be given to call
	YES	Force overflow tone will be given to call by Mobility switch
		OVFL is prompted when a call arrives at a Controlled DN in default mode and when that call has exceeded the CDN-to-a-default-ACD-DN ceiling threshold.

Prompt	Response	Comment
OVTH	0-(2047)	<p>Overflow Threshold</p> <p>OVTH represents the value at which the Calls Waiting lamp winks (Fast flashes), causing calls which are entering the queue to overflow.</p> <p>When OVTH = 0 overflow is attempted when all agents are busy. Enter X to delete existing entry.</p>
PAGE	(NO) YES	Start at the top of a new page for each report
PRIM	(NO) YES	Primary DSAC
PRIO	0-15	<p>Printer(s) for Output (establish the number(s) of devices used for output of reports)</p> <p>These output devices must have been defined in LD 17 as ACD printers. Precede with X to remove a device number.</p>
RAGT	2-(4)-30	<p>Number of seconds an agent in a remote target is reserved for an overflow call.</p> <p>The Reserve Agent Timer keeps the agent reserved until call presentation or timeout. The timer also prevents a situation where an agent may be reserved indefinitely.</p> <p>When an agent is reserved with Countdown Allowed (CNTA) CLS as defined in LD 11, the RAGT countdown is shown on the agent's Digit Display.</p> <p>The agent being reserved has a Reserve Agent Timer with countdown display. The countdown display starts when the Reserve Agent Timer (RAGT) starts, and counts down by increments of 2 seconds, to zero. If the call is not presented to the Target agent before the Reserve Agent Timer (RAGT) expires, that call remains at the originating Source queue. The Target agent is returned to the idle agent queue.</p> <p>If the Reserve Agent Timer is set too high, the agent is reserved waiting for calls. If the Reserve Agent Timer is set too low, the agent may be freed before the network facility can set up the call. Different timer settings can be tried through Load Management. Subsequent calls are presented to agents only after the Reserve Agent Timer has expired.</p> <p>The RAGT must be defined only for Target queues.</p>
RAN	0-511	Recorded Announcement Trunk Route Number for calls entering message queue (default NO RAN)

LD 23

Prompt	Response	Comment
RDNA	(NO) YES	Restricted DN Access Enter NO if use of DN keys is to be allowed without logging in. Enter YES to restrict agents from making outgoing calls when not logged in. Prompted if an Auxiliary Data System (ADS) or Schedule Block (SCB) exists.
REQ		Request
	CHG	Change existing data Select OUT followed by NEW, instead of CHG when switching resources between virtual and actual ACD DN to avoid unwanted information on ACD-D reports.
	END	Exit Overlay program
	LST	List ACD DN (This includes ACD DN, CDN and NACD DN)
	NEW	Add new data to the system
	OUT	Remove data block When removing an ACD DN from the Meridian 1 which is monitored by ACD-MAX, the DN is not automatically deleted from the ACD-MAX configuration.
	PRT	Print the specified data
RFRQ		Report Frequency. See also ROPT prompt for Report Options.
	0	No reports
	1	All reports hourly on the hour
	2	All reports hourly on the half-hour
	3	All reports half-hourly
	4	Report 3 every quarter-hour, no other reports.
	5	Report 3 every quarter-hour, other reports hourly on the hour.
	6	Report 3 every quarter-hour, other reports hourly on the half-hour.
	7	Report 3 every quarter-hour, other reports every half-hour

Prompt	Response	Comment
RGAI	(NO) YES	<p>Ring Again for Internal calls</p> <p>When internal caller dials a queue with no available agents, fast ringback is provided. If RGA I = YES, the caller can activate Ring Again to be presented to the next available agent.</p> <p>Enter YES for Data Service Access Code. (DSAC). RGA I must = YES for DSAC.</p>
ROPT	1 2 3 4	<p>Report Options</p> <p>Agent group</p> <p>Queue</p> <p>Trunk routes</p> <p>Agent position</p> <p>Precede with X to disable a report. More than one option allowed.</p> <p>Any new entry replaces the old data.</p>
RPRT	(YES) NO	<p>Information about this ACD-DN (or CDN) will be included in management reports and status displays</p> <p>Information about this ACD-DN (or CDN) will be excluded in management reports and status displays.</p> <p>RPRT is prompted only if a SCB or an ADS block exists for this customer.</p>
RSND	(4)-16	<p>Message Resend timer (in seconds)</p> <p>This is the length of time the Source node waits for a response from the Target node after sending a Call Request message.</p> <p>When the Resend Timer expires, another message is sent. If the second Call Request message expires without a response, the Call Request is removed from the network queue. The Resend Timer should be changed only if the network uses multiple hops and ISL with lower baud rates.</p> <p>A single hop typically requires 100 ms of real time to set up the call. When the Resend Timer is too large, the control function of the timer to limit traffic to busy nodes is lost. If the Resend Timer is too small, the access of calls to nodes may be limited unnecessarily.</p> <p>The Resend Timer must be defined for the Source node and the Target nodes.</p>
RTPC	(NO) YES	<p>Real Time Processing</p> <p>The SAGP Load Management command does not take effect in real time.</p> <p>The SAGP Load Management command takes effect in real time.</p>

Prompt	Response	Comment
SDNB	(NO) YES	Secondary DN Blocking Block calls to the Secondary DN while busy on ACD call.
SFNB	1 2 ...	Set Feature Notification Bitmap SFNB is used for messages such as: SFN (login), SFN (logout), ... This bitmap is downloaded by the application which is used to control the sending of SFN messages on behalf of the acquired TN. A numeric value is printed only if the corresponding message is enabled. SFNB is printed if AACR = YES.
SFRQ	1 2	Frequency of Status Display updates 30 seconds 60 seconds
SHR	0-23	Start Hour Hour of day that data reporting starts
SPCP	(NO) YES	Separate Post Call Processing (to enable separate DCP/PCP indication) When SPCP = YES, agents in Post Call Processing (PCP) are separated from agents in Direct Call Processing (DCP). Changing the SPCP option for an ACD DN changes all ACD DNs in the same customer group. Agent (AGT) key lamp states and display (DAG) field on supervisor telephones are affected by SPCP as follows: AGT key lamp steady: <ul style="list-style-type: none"> • SPCP = YES; agent is on an ACD call • SPCP = NO; agent is on an ACD call or not ready (NRD) AGT key lamp fast flash: <ul style="list-style-type: none"> • SPCP = YES; agent is on non-ACD call or NRD • SPCP = NO; agent is on non-ACD call

Prompt	Response	Comment
		<p>DAG Display ACD DN:</p> <ul style="list-style-type: none"> • SPCP = YES; displays # of agents on ACD calls • SPCP = NO; displays # of agents on ACD calls or NRD <p>DAG Display non-ACD DN:</p> <ul style="list-style-type: none"> • SPCP = YES; displays # of agents on non-ACD calls or NRD • SPCP = NO; displays # of agents on non-ACD calls <p>The SPCP option is a customer-wide option. A change to SPCP for any ACD queues affects all ACD queues for that customer.</p>
SRPT	(NO) YES	<p>Short Report option for report 4 (Agent position)</p> <p>Use the short report when more than one agent, each with a unique agent ID, logs into the same position ID during a report period.</p>
SRRT	0-511	<p>Second RAN Route number for ACD</p> <p>The route and at least one trunk must exist before defining SRRT. Enter X to remove.</p>
SRT	0-2044	<p>Second RAN Time</p> <p>Time in seconds before second RAN is connected to ACD calls. Prompted if SRRT is defined. There is no default for SRT.</p>
STIO	0, 1, 2,...15	<p>Status Input/Output devices</p> <p>Enter all Input/Output devices assigned for status displays. The device must be first defined in LD 17. Prompted if a Schedule Block (SCB) exists. Enter X to remove.</p>
TABL	x	<p>Table. Where: x = D (Day Table) or N (Night Table)</p> <p>The Day Table is mutually exclusive with TOFT. The Night Table is mutually exclusive with NCFW.</p>
TDNS	(NO) YES	<p>DNIS number is not an original Called Party of a defined CDN queue.</p> <p>DNIS number is an original Called Party of a defined CDN queue.</p> <p>TDNS = YES is recommended if a CDN is defined for the Mobility Control Point (MCP) application to control a Personal Communication Service (PCS) call.</p>

Prompt	Response	Comment
TOFT	2-1800	<p>Timed Overflow Threshold (in seconds)</p> <p>In Release 14 and earlier, the TOFT range is 10 - 1800.</p> <p>Before defining the TOFT value, first delete that OVDN from its Source ACD DN. Then, enter the time, in seconds, that you want a call to wait in queue before it overflows to an OVDN.</p> <p>When REQ = CHG, and the OVDNs are answering TOF calls, an error message is output indicating the affected Target ACD DNs.</p> <p>Enter X to disable the feature. If no value is entered, NONE is printed.</p>
TOT4	(NO) YES	<p>Totals on report 4</p> <p>Averages are output on report 4 (Agent position)</p> <p>Totals are output on report 4 (Agent position)</p> <p>Prompted if ROPT = 4. If TOT4 = YES, HDCP column is output on report 1 and 4. Must have ACD-C enabled.</p>
TRDN	xxxx	<p>Treatment DN for IVR queue</p> <p>A treatment DN does not have to be a valid DN in the switch. If Meridian Mail is to be used for both Voice Messaging and IVR, a Treatment DN should not be the same as any Meridian Mail voice box. Enter X to remove.</p>
TRGT	xxxx tttt	<p>Target. Where:</p> <ul style="list-style-type: none"> • xxxx = Target ACD DN • tttt = time (0-1800) in seconds <p>Up to 20 target ACD DNs can be defined. For each target, tttt is the total time from the call entering the ACD queue until a call request is sent to the target. TRGT rounds up to an even number.</p>
TSFT	0-(20)-510	<p>Telephone Service Factor Threshold (in seconds)</p> <p>Prompted if a Schedule Block (SCB) exits.</p>
TYPE		Type of data block
	ACD	<p>Automatic Call Distribution data block</p> <p>Requires Basic Automatic Call Distribution (BACD) package 40.</p>
	ADS	<p>Auxiliary Data System data block</p> <p>Requires Automatic Call Distribution Package C (ACDC) package 50.</p> <p>Not valid when REQ = PRT.</p>

Prompt	Response	Comment
	CDN	Control Directory Number data block This is a special DN created to specify a destination ACD DN to which incoming calls are directed. Multiple CDNs can direct calls to the same ACD DN providing different treatments based on the CDN parameters. Requires Enhanced ACD Routing (EAR) package 214.
	NACD	Network ACD data block Requires Network Automatic Call Distribution (NACD) package 207.
	SCB	Schedule data Block for ACD Management Reports Requires Automatic Call Distribution, Package C (ACDC) package 42.
UMG	(NO) YES	User to User Messaging
UMT	2-(6)-15	Update Message Time Silence interval in seconds after message queue alert tone.
USFB	1 2 ...	Unsolicited Status Message (USM) Filter Bitmap USFB applies to messages such as: <ul style="list-style-type: none"> Onhook, Offhook, Ringing, Active, Disconnect, Unringing, Hold, Restore, Ready, Not Ready, Walkaway, Walkaway Return, Reserved, Unreserved, ... This bitmap is downloaded by the application which is used to control the sending of USM messages on behalf of the acquired TN. A numeric value would only be printed if the corresponding message set is enabled. USFB is printed if AACR = YES.
UST	(NO) YES	User Status update
VSID	0-15	Value Added Server ID of VAS providing VMS VASs are external server equipment facilities such as Meridian Mail. Prompted if IMS or ISAP = YES. Must be defined in LD 17.

LD 23

Page 424 of 848 Alphabetical list of prompts

LD 26—Group Do Not Disturb

Overlay program 26 allows Do Not Disturb groups to be created, modified, and printed.

Prompts and responses

Prompt	Response	Comment
REQ	aaa	Request
TYPE	DND	Type of data block = DND (Do Not Disturb Group)
CUST	xx	Customer number associated with this data block
GPNO	0-99	Group Number or new Group Number to be formed
TOGP	0-99	Move to Group number
GRPx	0-99	Number of next Group to be moved
STOR	x...x	DN to be Stored
RMOV	x...x	Remove DN

Alphabetical list of prompts

Prompt	Response	Comment
CUST	xx	Customer number associated with this data block as defined in LD 15.
GPNO	0-99 <cr>	Group Number or new Group Number to be formed Print all Group Numbers. Prompted when REQ = PRT.
GRPx	0-99 <cr>	Number of next Group to be moved Proceed to next prompt.
REQ	CHG END MOV MRG NEW OUT PRT REM	Action Request Change existing data block. Exit Overlay program. Move a DN from one DND Group data block to another Group data block. Merge existing Group data blocks into a new Group (the old groups will still exist) data block. Create a New data block. Remove data block. Print DND Group data block. Remove an entry from a Group data block.
RMOV	x...x G0-G99	Remove DN Up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. Remove Group number
STOR	x...x G0-G99	DN to be stored Up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. Group number to be stored. Numbers may be added when REQ is CHG.
TOGP	0-99	Move To Group number
TYPE	DND	DND Group data block type

LD 28—Route Selection for Automatic Number Identification

Overlay program 28 allows data for Route Selection for Automatic Number Identification (RS-ANI) to be created, modified, and printed.

Prompts and responses

Prompt	Response	Comment
REQ	aaa	Request
TYPE	RSA	Type of data block = RSA (Route Selection ANI)
CUST	xx	Customer number associated with this function
RSAC	xxxx	RS-ANI Access Code digits
0-RT	x...x	0- calls, Route access code (calls to Public Network Operator)
0+RT	x...x	0+ calls, Route access code
1RT	x...x	1+ or IDDD (International Direct Distance Dial) calls Route access code
CORT	x...x	Central Office (local calls) Route access code

Alphabetical list of prompts

Prompt	Response	Comment
0+RT	x...x	0+ calls Route access code (for toll calls that require Public Network Operator assistance) Up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150
0-RT	x...x	0- calls, Route access code (calls to Public Network Operator) Up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150
1RT	x...x	1+ or IDDD (International Direct Distance Dial) calls, Route access code Up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150
CORT	x...x	Central Office (local calls) Route access code Up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150
CUST	xx	Customer number associated with this function as defined in LD 15
REQ	CHG END NEW OUT PRT	Request Change an existing data block Exit Overlay program Create a New data block Remove data block Print RSA data
RSAC	xxxx	RS-ANI Access Code digits
TYPE	RSA	Route Selection ANI data block

LD 30—Network and Signaling Diagnostic

This program is used to maintain Network loops. It may be run in background, loaded during the daily routines or loaded manually to enter commands.

Program operation

When invoked automatically by the system, the program performs the following tests:

- network memory of each enabled network card
- continuity of the speech path to each PE shelf (for enabled loops only)
- signaling channel to each line or trunk card (on enabled loops only)
- signaling channel through each Integrated Services digital line card to each Digital telephone or data TN
- clock controllers are switched (if either DTI2 or PRI2 are used when LD 30 is run in midnight mode, clock controllers will not be switched)

For the Integrated Voice Messaging System (IVMS), the program does not test Automatic Call Distribution (ACD) positions when the positions belong to IVMS-DN groups.

Digital telephones that pass the signaling test have their date and time updated to match the system clock.

Any SL-1 telephone or card that fails the signaling test may be disabled by this program. Use LD 32 to re-enable them.

If two or more PE cards are disabled on a loop, an NWS101 message is printed without the associated NWS301 messages to indicate card failures. However, the shelves that failed are known from the NWS201 messages. Therefore, the state of the individual cards can be determined by manually retesting using the SHLF command.

If NWS301 indicates a failure of the Peripheral Buffer or Controller card, the message may not be correct. Therefore the card should be retested using the SHLF command.

This program does not test attendant consoles or Automatically Identified Outward Dialing (AIOD) trunks. Equipment which has been disabled due either to overload or manual request is not tested.

How to use LD 30

When invoked manually, the Overlay may be used to:

- conduct a complete test, as when the program is invoked automatically, except for switching the clocks
- conduct a test on a specific PE shelf
- get the enable/disable status of network loops
- enable or disable network loops
- clear alarm indications and the maintenance display
- download peripheral software on superloops
- clear contents of the Controller maintenance display
- read contents of the Controller maintenance display

Basic commands

CDSP	Clear the maintenance display on active CPU to 00 or blank
CMAJ	Clear major alarm and reset power fail transfer
CMIN c	Clear minor alarm indication on attendant consoles for customer c
CMIN ALL	Clear minor alarm indication on all attendant consoles
DISL loop	Disable loop
DISL sl	Disable specified superloop.
END	Abort current test
ENLL loop	Enable network loop
ENLL sl	Enable specified superloop.
LDIS	List disabled loops
LENL	List enabled loops
LOOP loop, ALL	Test network memory on one or all loops
SHLF l s	Test loop l, shelf s
STAT	Get status of all network loops
STAT (loop)	Get status of specified loops
TTSM loop x y z	Test Time Switch Memory (TSM) of a loop
TTWI loop x y z	Test TSM when the timeslot junctor is idle

Superloop commands

The following commands are used with Controllers (NT8D01) and Network Cards (NT8D04 or NT8D18).

CPED I s	Clear contents of Controller maintenance display on loop I shelf s
DISL loop	Disable loop
END	Abort current test
ENLL loop (v)	Enable superloop, download peripheral software version v
LDIS	List disabled loops
LENL	List enabled loops
LOOP loop, ALL	Test network memory on one or all loops
RPED I s	Read contents of the Controller maintenance display
SHLF I s	Test loop I, shelf s
STAT	Get status of all network loops
STAT (loop)	Get status of specified loop
UNTT I s c (u)	Do a signaling test on specified card or unit

Alphabetical list of commands

Command	Description	Pack/Rel
CDSP	Clear the maintenance display on active CPU to 00 or blank.	basic-1
CMAJ	Clear major alarm, reset power fail transfer and clear power fault alarm.	basic-1
CMIN ALL	Clear minor alarm indication on all attendant consoles.	basic-1
CMIN c	Clear minor alarm indication on attendant consoles for customer c.	basic-1
CPED l s	Clear contents of Controller maintenance display on loop l shelf s. This also clears the buffer printed with the command RPED.	xpe-15
DISL loop	Disable loop. All calls in progress on this loop are disconnected. Peripheral cards remain software enabled and no LEDs are lit.	basic-1
DISL sl	Disable specified superloop. Active calls on the superloop specified will be disconnected and line transfer will occur at the remote end.	basic-21
END	Abort current test. If no test is in progress, message NWS002 is output.	basic-1
ENLL loop	Enable network loop. This enables the network, performs a network memory test and tests continuity and signaling to all shelves on the loop. If it passes the test, OK is output. This does not re-enable any disabled cards on the loop. Use LD 32 ENLS or ENXP commands or enable each card individually. When enabling a network loop serving ISDL cards, the ISDL cards must be individually disabled, then re-enabled to ensure that service is restored to digital telephones. Service may also be restored to digital telephones by disconnecting and then reconnecting the telephone's line cord.	basic-1

ENLL loop (v)	<p>Enable superloop, download peripheral software version v.</p> <p>If version v is not specified, the software downloaded is current (c) or latest (l) version as defined in LD 97.</p>	xpe-15
ENLL sl	<p>Enable specified superloop.</p> <p>OK is output if superloop has been enabled. Establishing service of individual voice-and-data-capable carriers is dependant on the F/W state of that carrier.</p>	basic-21
LDIS	<p>List disabled loops. Response is:</p> <p>11, 12, 1n: loop is a disabled loop, or NONE: if no cards are disabled.</p>	basic-1
LENL	<p>List enabled loops. Response is:</p> <p>11, 12, 1n: l is an enabled loop, or NONE: if no cards are enabled.</p>	basic-1
LOOP loop, ALL	<p>Test network memory on one or all loops.</p> <p>Performs a network memory test, continuity test and signaling test on the specified loop, which can be either a value from 0 to 159 or ALL. If ALL is specified, every loop currently enabled is tested. All shelves on each loop are tested (except for attendant consoles). If no errors are detected, OK is output.</p> <p>With X11 Release 20 and later, this command is used for XOPS cards. Out-of-Service units are not tested when this command is used. The range for units is 0-31, but only 0-7 are allowed on the XOPS card.</p>	basic- 20
RPED l s	<p>Read contents of the Controller maintenance display.</p> <p>This command lists the current and last 15 clock tracking states of the NT8D01 Controller. The tracking is indicated on the Controller maintenance display. The possible tracking modes are:</p> <p>C0 = Controller is tracking to the network connected to port 0. C1 = Controller is tracking to the network connected to port 1. C2 = Controller is tracking to the network connected to port 2. C3 = Controller is tracking to the network connected to port 3. CF = Controller is not tracking any network.</p> <p>See HEX messages for the interpretation of Controller maintenance display codes.</p>	xpe-15

SHLF l s	<p>Test loop l, shelf s.</p> <p>Performs a network memory test, continuity test and signaling test only on loop l shelf s. All line cards, idle trunk cards (except AIOD trunks) and idle SL-1 telephones are tested. If no errors are detected, OK is output.</p> <p>With X11 Release 20 and later, this command is used for XOPS cards. Out-of-service units are not tested when this command is used.</p>	basic- 20
SLFT l s c	<p>Invoke self-test for ISDN BRI line card. The card must be disabled.</p>	bri-18
SLFT l s c type	<p>Self-test ISDN BRI line card. The card must be disabled. Response is: NWS637 selftest passed, or NWS632 selftest failed, where:</p> <p>l = loop s = shelf c = card type = self-test type (Long or Short)</p>	rsc/bri-19
SLFT loop type	<p>Invoke self-test for MISP card.</p> <p>The comprehensive test is run automatically when the MISP is enabled. The card must be disabled. Response is:</p> <p>NWS632 self-test failed or NWS637 self-test passed</p> <p>type = 1 (comprehensive), or type = 2 (power-on-reset)</p>	bri-18
STAT	<p>Gives status of network loops (circuits), indicating how many are enabled and how many are disabled.</p> <p>Response is: x ENBL, y DSBL</p>	basic-1

STAT loop	<p>Get status of a network loop.</p> <p>Response is one of the following:</p> <ol style="list-style-type: none"> 1. UNEQ = loop is unequipped. 2. DSBL: RESPONDING = loop is disabled and the Network card is responding. The loop may have been disabled because of: <ol style="list-style-type: none"> a DISL command b associated Peripheral Signaling (PS) card is disabled c overload condition on associated loop. In this case an OVD message is output. An attempt to enable the loop may result in a recurrence of the overload. 3. DSBL: NOT RESPONDING = loop is disabled and the Network card is not responding. The card is missing, disabled by the faceplate switch or is faulty. 4. x BUSY, y DSBL = loop is enabled with x channels busy, y channels disabled. 5. CTYF 11, 12... = loop specified in the STAT command cannot receive speech from one or more loops (I1, I2). This usually indicates the LD 30 continuity test failed. Probable fault is the network card. 	basic-1
STEI l s c d	<p>Query the Terminal Endpoint Identifiers, and their corresponding USIDs</p> <p>This command queries the TEIs, and their corresponding USIDs on the specified DSL with an established D-channel data link layer with the MISP. Output looks like:</p> <pre> MISP 111 TEI USID --- ---- nnn nnnn </pre>	brsc-19
TEIT l s c d	<p>Perform TEI check on Digital Subscriber Loop d (0-7).</p> <p>This test is carried out on a single specified DSL interface. It checks the existence of the defined TEIs and any possible duplication of TEIs. Duplicate TEIs are removed by the layer 2 task on the MISP.</p>	bri-18

TTSM loop x y z basic-1

Test Time Switch Memory (TSM) of a loop.

Tests the Time Switch Memory (TSM) of the network card.

Where:

loop = the network loop that may have a faulty TSM.

x = the network loop of the transmitting party.

y = the junctor used on the transmitting side of the call. Its value has a range of 0 to 7, unless the two loops are in the same group, in which case the junctor value to be entered is 15.

z = the timeslot used on the transmitting side of the call. Its value has a range of 2 to 31.

The values normally used in this command are the same values that appeared in the ERR3036 or ERR3037 message during call processing.

TTWI loop x y z basic-1

Test TSM when the timeslot junctors are idle. The command is usually used if error message NWS800 is output in response to TTSM.

Where:

loop = the network loop that may have a faulty TSM.

x = the loop ID (range 0 to 159) of the transmitting party.

y = the junctor used on the transmitting side of the call. Its value has a range of 0 to 7, unless the two loops are in the same group, in which case the junctor value to be entered is 15.

z = the timeslot (2-31) used on the transmitting side of the call.

This command waits for the timeslot z and junctor y to become available and will then execute the command.

UNTT l s c (u) xpe- 20

Do a signaling test on specified card or unit. This command applies only to superloops.

With X11 Release 20 and later, this command is used for XOPS cards. Out-of-service units are not tested when this command is used. The range for units is 0-31, but only 0-7 are allowed on the XOPS card.

LD 31—Telephone and Attendant Console Diagnostic

This program tests the keys and lamps of telephone sets and attendant consoles. The tests consist of pressing keys on a telephone and checking for the correct response. This diagnostic cannot be used for testing the DISPLAYPHONE 1200, or M3000.

After loading the program, any telephone in the system may invoke the test by dialing SPRE 92, (SPRE is the Special Service Prefix Code for the customer). No further inputs from the TTY are needed. If commands are input, the system responds with TRM001 indicating an invalid command.

To start the test:

- 1 Load program 31.
- 2 Dial SPRE 92 from the telephone to be tested.
- 3 Perform the steps given in the appropriate Table. The expected responses for LCD lamps, displays and tones are given. Each key need only be operated momentarily.

The volume keys (VOL UP and VOL DOWN) have eight levels. The level is adjusted by operating a key once for a change in one level. These keys control the audible level for ring volume, buzz volume and speech/tone volume.

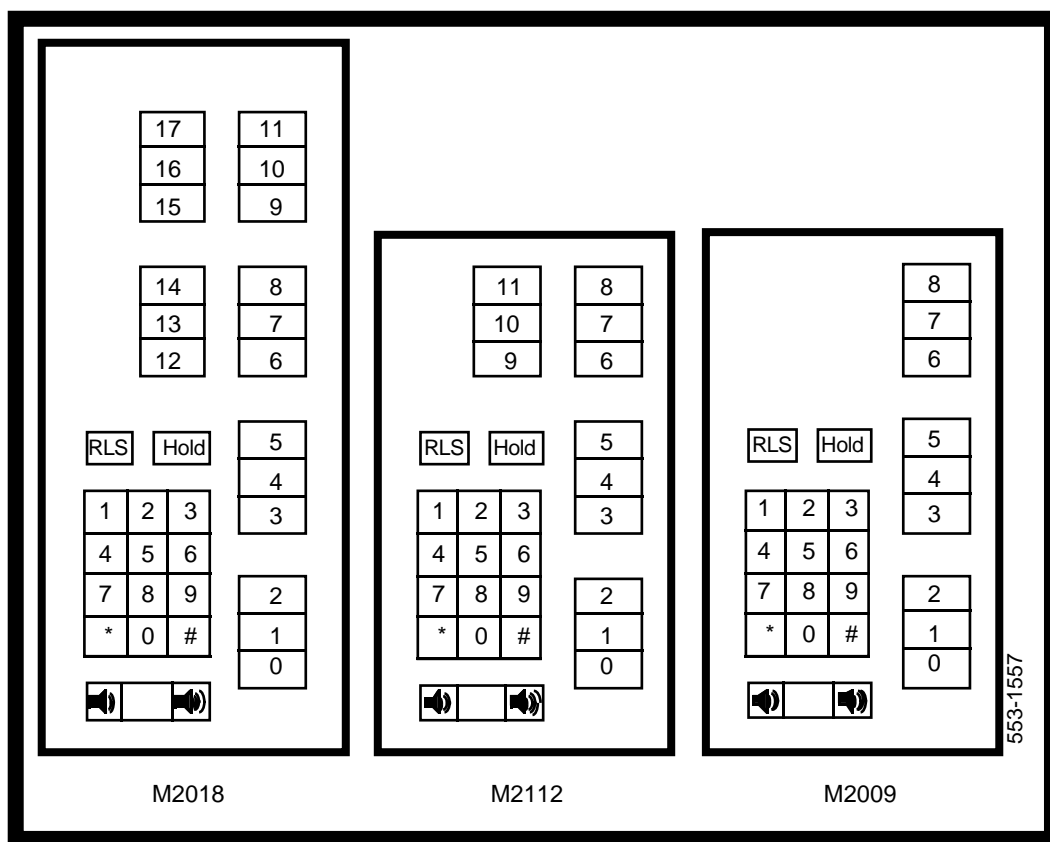
Note 1: When enabling a network loop with ISDL packs, the ISDL packs must be individually disabled and then re-enabled to restore service to digital telephones. Service may also be restored to digital telephones by disconnecting then reconnecting the telephone's line cord.

Note 2: Terminal diagnostics are provided by the M3000 itself. Refer to Meridian M3000 Description, Installation, Operation & Maintenance (553-2201-115).

M2009, M2018 and M2112 Telephone test

The M2000 key and lamp layout is shown in [Figure 1](#). The test is provided in [Table 5](#).

Figure 1
M2000 Series Digital Telephone Key and LCD Layout



M2009, M2018, and M2112 Telephone test

After dialing the SPRE code 92, the M2009 telephone shows all LEDs lit and the display shows all 8's. For the M2018 and M2112, press the "*" key first.

Table 5
M2009, M2018, and M2112 Telephone test

Step	Key operated	LCD location and response	Display and Tones
1	Handset off-hook	All LCDs flash	blank display
2	Handset on-hook	All LCDs fast flash	blank display
3	Handset off-hook	All LCDs lit	blank display
4	Handset on-hook	All LCDs off	blank display
5	Dial Pad key 1	LCD 0 lit	1
6	Dial Pad key 2	LCD 1 lit	12
7	Dial Pad key 3	LCD 2 lit	123
8	Dial Pad key 4	LCD 3 lit	1234
9	Dial Pad key 5	LCD 4 lit	12345
10	Dial Pad key 6	LCD 5 lit	123456
11	Dial Pad key 7	LCD 6 lit	1234567
12	Dial Pad key 8	LCD 7 lit	12345678
13	Dial Pad key 9	LCDs 0 & 7 lit	123456789
14	Dial Pad key 0	LCDs 1 & 7 lit	1234567890
15	Dial Pad key *	All LCDs lit (except M2112) LCD 6 lit (M2112)	8888888888888888
16	Dial Pad key # Dial Pad key *	All LCDs off (except M2112) LCD 7 lit (M2112)?	blank display
17	Fixed key 0	LCD 0 lit	
18	Fixed key 1	LCD 1 lit	
19	Fixed key 2	LCD 2 lit	
20	Fixed key 3	LCD 3 lit	
21	Fixed key 4	LCD 4 lit	

Table 5
M2009, M2018, and M2112 Telephone test

Step	Key operated	LCD location and response	Display and Tones
22	Fixed key 5	LCD 5 lit	
23	Fixed key 6	LCD 6 lit	
24	Fixed key 7	LCD 7 lit	
25	Fixed key 8	LCD 8 lit	
26	Fixed key 9	LCD 9 lit	
27	Fixed key 10	LCD 10 lit	
28	Fixed key 11	LCD 11 lit	
29	Fixed key 12	LCD 12 lit	
30	Fixed key 13	LCD 13 lit	
31	Fixed key 14	LCD 14 lit	
32	Fixed key 15	LCD 15 lit	
33	Fixed key 16	LCD 16 lit	
34	Fixed key 17	LCD 17 lit	
35	HLD key	LCDs 0 to 4 lit	Dial tone
36	Handset off-hook	all LCDs flash	Dial tone from handset only
37	Handset on-hook	all LCDs fast flash	Dial tone from speaker
38	Handsfree key	LCD 0 to 2 lit	

M2006 and M2008 Telephone test

The M2006 and M2008 faceplate is shown in [Figure 2](#). The M2006 test is provided in [Table 6](#). The M2008 test is provided in [Table 7](#).

Figure 2
Meridian M2006 and M2008 set

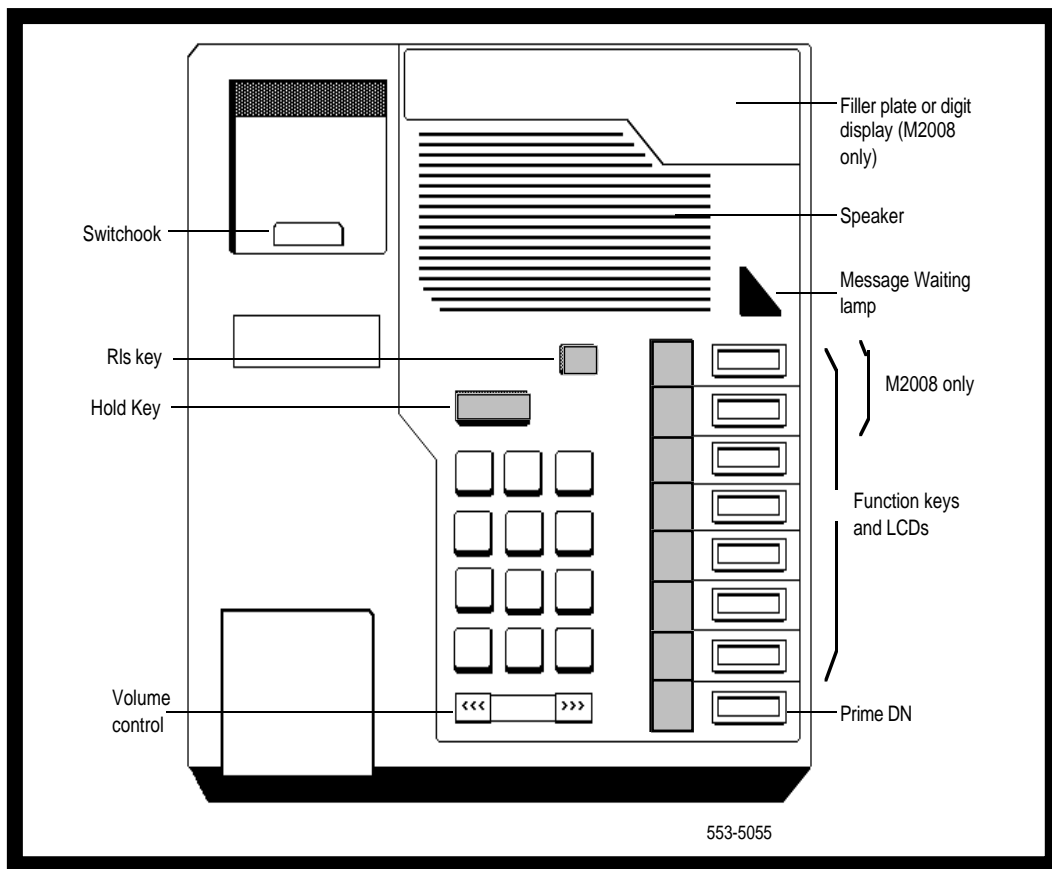


Table 6
Meridian M2006 Telephone test

Step	Key operated	LCD location and response	Display and Tones
Feature keys:			
1	Key 0	LCD 0 lit	
2	Key 1	LCD 1 lit	
3	Key 2	LCD 2 lit	
4	Key 3	LCD 3 lit	turn on Message Waiting LED
5	Key 4	LCD 4 lit	turn off Message Waiting LED
6	Key 5	LCD 5 lit, (if key 5 is not a Program key for data option)	
Keypad keys:			
7	Key 1	LCD 0 lit	
8	Key 2	LCD 1 lit	
9	Key 3	LCD 2 lit	
10	Key 4	LCD 3 lit	
11	Key 5	LCD 4 lit	
12	Key 6	LCD 0 and 4 lit	
13	Key 7	LCD 1 and 4 lit	
14	Key 8	LCD 2 and 4 lit	
15	Key 9	LCD 3 and 4 lit	
16	Key 0	LCD 1 and 4 lit	
17	Key *	all LCDs lit	
18	Key #	all LCDs off	
Fixed keys:			
19	HLD	LCD 0 to 4 lit	dial tone
20	Release	all LCDs off	
21	Off-hook	all LCDs flash	dial tone from handset only
22	On-hook	all LCDs fast flash	dial tone form speaker

LD 31

Table 6
Meridian M2006 Telephone test

Step	Key operated	LCD location and response	Display and Tones
23	Off-hook	all LCDs lit	
24	On-hook	all LCDs off	
25	HLD	LCD 0 to 4 lit	buzzer
26	HLD	end of test	

Table 7
Meridian M2008 Telephone test

Step	Key operated	LCD location and response	Display and Tones
Feature keys:			
1	Key 0	LCD 0 lit	display upper case letters
2	Key 1	LCD 1 lit	display lower case letters
3	Key 2	LCD 2 lit	display clear
4	Key 3	LCD 3 lit	display darkens
5	Key 4	LCD 4 lit	top line of display darkens
6	Key 5	LCD 5 lit	turn Message Waiting LED on
7	Key 6	LCD 6 lit	turn Message Waiting LED off
8	Key 7	LCD 7 lit	
Keypad keys:			
9	Key 1	LCD 0 lit	1 on display
10	Key 2	LCD 1 lit	2 on display
11	Key 3	LCD 2 lit	3 on display
12	Key 4	LCD 3 lit	4 on display
13	Key 5	LCD 4 lit	5 on display
14	Key 6	LCD 5 lit	6 on display
15	Key 7	LCD 6 lit	7 on display
16	Key 8	LCD 0 and 6 lit	8 on display
17	Key 9	LCD 1 and 6 lit	9 on display
18	Key 0	LCD 2 and 6 lit	0 on display
19	Key *	all LCDs lit	bottom line of display darkens
20	Key #	all LCDs off	display clear

LD 31

Table 7
Meridian M2008 Telephone test

Step	Key operated	LCD location and response	Display and Tones
Fixed keys:			
21	HLD	LCD 0 to 4 lit	
22	Release	all LCDs off	display clear
23	Off-hook	all LCDs flash	dial tone from handset only
24	On-hook	all LCDs fast flash	dial tone form speaker
25	Off-hook	all LCDs lit	display darkens
26	On-hook	all LCDs off	display clear
27	HLD	LCD 0 to 4 lit	buzzer
28	HLD	end of test	

M2216, M2016S and M2616 Telephone test

The set faceplate is shown in [Figure 3](#). The M2216 test is provided in [Table 8](#).
The M2016S and M2616 set test is provided in [Table 9](#).

Figure 3
M2216, M2016S and M2616 set

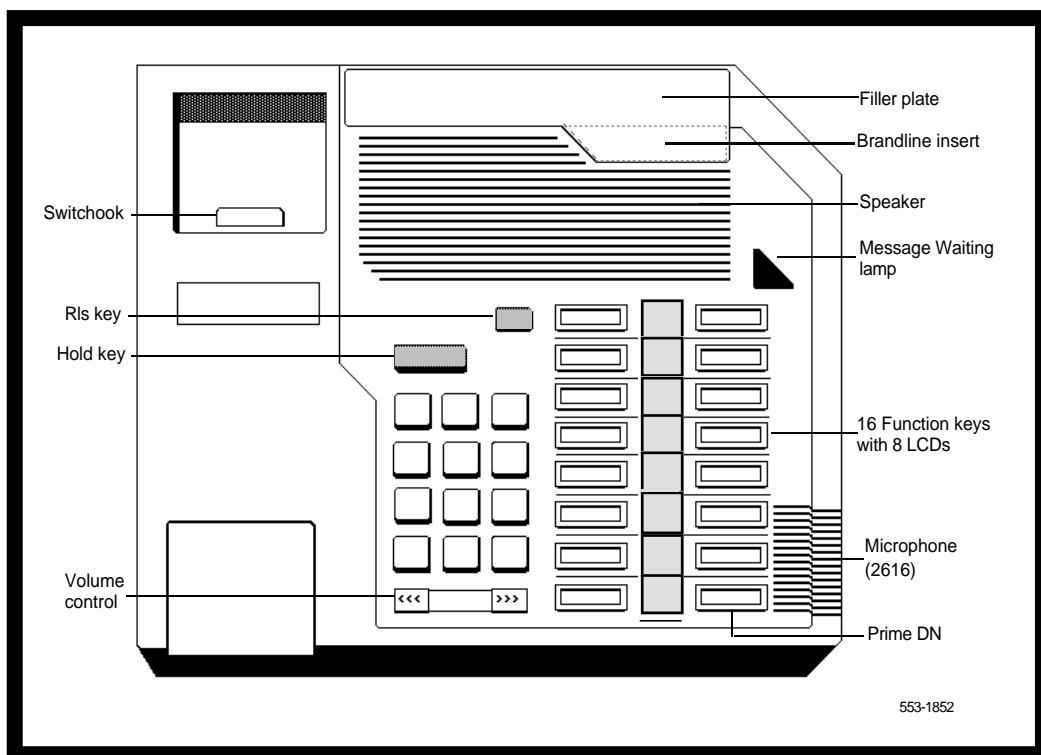


Table 8
M2216 Telephone test

Step	Key operated	LCD location and response	Display and Tones
Note: Do not test key 7			
Feature keys:			
1	Key 0	LCD 0 lit	display upper case letters
2	Key 1	LCD 1 lit	display lower case letters
3	Key 2	LCD 2 lit	display clear
4	Key 3	LCD 3 lit	display darkens
5	Key 4	LCD 4 lit	top line of display darkens
6	Key 5	LCD 5 lit	turn Message Waiting LED on
7	Key 6	LCD 6 lit	turn Message Waiting LED off
8	Key n>7	LCD n lit	
Keypad keys:			
9	Key 1	LCD 0 lit	1 on display
10	Key 2	LCD 1 lit	2 on display
11	Key 3	LCD 2 lit	3 on display
12	Key 4	LCD 3 lit	4 on display
13	Key 5	LCD 4 lit	5 on display
14	Key 6	LCD 5 lit	6 on display
15	Key 7	LCD 6 lit	7 on display
16	Key 8	LCD 0 and 6 lit	78 on display
17	Key 9	LCD 1 and 6 lit	9 on display
18	Key 0	LCD 2 and 6 lit	0 on display
19	Key *	all LCDs lit	bottom line of display darkens
20	Key #	all LCDs off	display clear
Fixed keys:			
21	HLD	LCD 0 to 4 lit	dial tone
22	HLD	LCD 0 to 4 lit	buzzer
23	HLD	end of test	

Table 9
M2016S and M2616 Telephone test

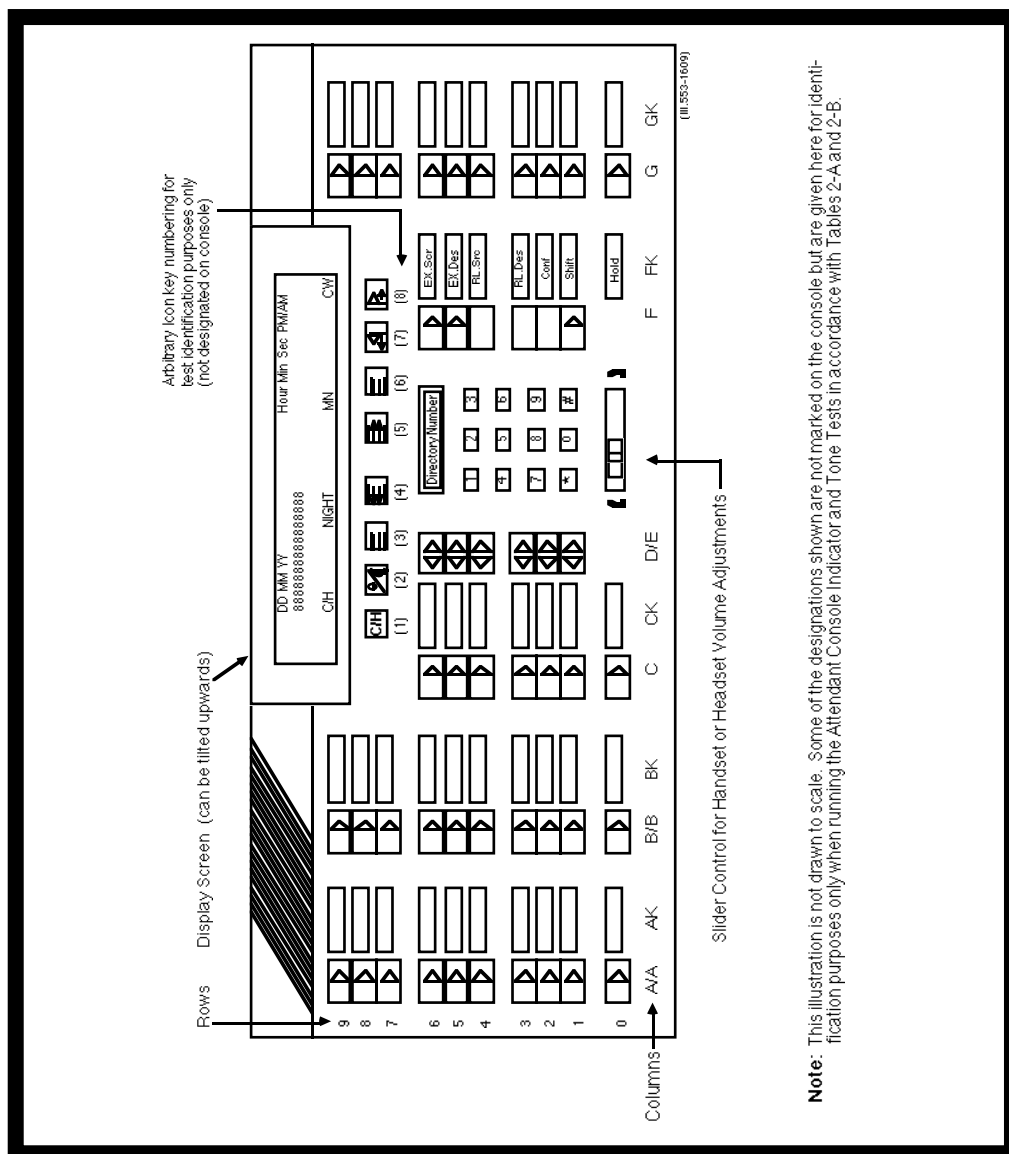
Step	Key operated	LCD location and response	Display and Tones
Note: Do not test key 7			
Feature keys:			
1	Key 0	LCD 0 lit	display upper case letters
2	Key 1	LCD 1 lit	display lower case letters
3	Key 2	LCD 2 lit	display clear
4	Key 3	LCD 3 lit	display darkens
5	Key 4	LCD 4 lit	top line of display darkens
6	Key 5	LCD 5 lit	turn Message Waiting LED on
7	Key 6	LCD 6 lit	turn Message Waiting LED off
8	Key n>7	LCD n lit	
Keypad keys:			
9	Key 1	LCD 0 lit	1 on display
10	Key 2	LCD 1 lit	2 on display
11	Key 3	LCD 2 lit	3 on display
12	Key 4	LCD 3 lit	4 on display
13	Key 5	LCD 4 lit	5 on display
14	Key 6	LCD 5 lit	6 on display
15	Key 7	LCD 6 lit	7 on display
16	Key 8	LCD 0 and 6 lit	8 on display
17	Key 9	LCD 1 and 6 lit	9 on display
18	Key 0	LCD 2 and 6 lit	0 on display
19	Key *	all LCDs lit	top line of display darkens
20	Key #	all LCDs off	display clear
Fixed keys:			
21	Handsfree	LCD 15 lit (with no display) LCD 0-2 lit (with display)	
22	Release	all LCDs off	

LD 31

Table 9
M2016S and M2616 Telephone test

Step	Key operated	LCD location and response	Display and Tones
23	HLD	LCD 0 to 4 lit	dial tone from speaker
24	Off-hook	all LCDs flash	dial tone from handset
25	On-hook	all LCDs fast flash	dial tone from speaker
26	Off-hook	all LCDs lit	display darkens
27	On-hook	all LCDs off	display clear
28	HLD	LCD 0 to 4 lit	buzzer
29	HLD	end of test	

Figure 4
M2250 Console — Key and LCD Layout



Note: This illustration is not drawn to scale. Some of the designations shown are not marked on the console but are given here for identification purposes only when running the Attendant Console Indicator and Tone Tests in accordance with Tables 2-A and 2-B.

M2250 Console

Table 10

M2250 Console

Step	Key operated	LCD location and response	Display and Tones
1	Select idle loop key		
2	Enter SPRE code 92	All LCDs lit except F1	888888888888888888. . . 888888888888888888. . .
3	Press dial pad #	All off	Active
4	Press dial key 1	D1 lit	1
5	Press dial key 2	E1 lit	12
6	Press dial key 3	D2 lit	123
7	Press dial key 4	E2 lit	1234
8	Press dial key 5	D3 lit	12345
9	Press dial key 6	E3 lit	123456
10	Press dial key 7	D4 lit	1234567
11	Press dial key 8	E4 lit	12345678
12	Press dial key 9	D5 lit	123456789
13	Press dial key 0	E5 lit	1234567890
14	Repeat step 4 until both lines of the display are full		12345678901234567. . . 12345678901234567. . .
15	Press dial pad *	All LCDs lit except F1	888888888888888888. . . 888888888888888888. . .
16	Press dial pad #	All LCD blank	ACTIVE
17	Press AK key 0	A0 lit	ABCDEFGHIJKLMNOPQRSTUVWXYZ. . . NOPQRSTUVWXYZAB. . .
18	Press AK key 1	A1 lit	abcdefghijklmnopqrstuv wnopqrstuvwxyzabcdefg
19	Press AK key 2	A2 lit	Display shows series of dark squares
20	Press AK key 3	A3 lit	ACTIVE
21	Press AK key 4	A4 lit	ACTIVE

Table 10
M2250 Console

Step	Key operated	LCD location and response	Display and Tones
22	Press AK key 5	A5 lit	ACTIVE
23	Press AK key 6	A6 lit	ACTIVE
24	Press AK key 7	A7 lit	ACTIVE
25	Press AK key 8	A8 lit	ACTIVE
26	Press AK key 9	A9 lit	ACTIVE
27	Press BK key 0	B0 lit	ACTIVE
28	Press BK key 1	B1 lit	ACTIVE
29	Press BK key 2	B2 lit	ACTIVE
30	Press BK key 3	B3 lit	ACTIVE
31	Press BK key 4	B4 lit	ACTIVE
32	Press BK key 5	B5 lit	ACTIVE
33	Press BK key 6	B6 lit	ACTIVE
34	Press BK key 7	B7 lit	ACTIVE
35	Press BK key 8	B8 lit	ACTIVE
36	Press BK key 9	B9 lit	ACTIVE
37	Press CK key 0	C0 lit	IDLE
38	Press CK key 1	C1 lit	ACTIVE
39	Press CK key 2	C2 lit	ACTIVE
40	Press CK key 3	C3 lit	ACTIVE
41	Press CK key 4	C4 lit	ACTIVE
42	Press CK key 5	C5 lit	ACTIVE
43	Press CK key 6	C6 lit	ACTIVE
44	Press Icon key 1		C/H and ACTIVE
45	Press Icon key 2		BUSY
46	Press CK key 0	C1 lit	IDLE
47	Press GK key 0	GO lit	ACTIVE

Table 10
M2250 Console

Step	Key operated	LCD location and response	Display and Tones
48	Press GK key 1	G1 lit	ACTIVE
49	Press GK key 2	G2 lit	ACTIVE
50	Press GK key 3	G3 lit	ACTIVE
51	Press GK key 4	G4 lit	ACTIVE
52	Press GK key 5	G5 lit	ACTIVE
53	Press GK key 6	G6 lit	ACTIVE
54	Press GK key 7	G7 lit	ACTIVE
55	Press GK key 8	G8 lit	ACTIVE
56	Press GK key 9	G9 lit	ACTIVE
57	Press FK key 1	G9 and F1 lit	[S] ACTIVE
58	Press AK key 0	A0 and F1 lit	[S] ACTIVE
59	Press AK key 1	A1 and F1 lit	[S] ACTIVE
60	Press AK key 2	A2 and F1 lit	[S] ACTIVE
61	Press AK key 3	A3 and F1 lit	[S] ACTIVE
62	Press AK key 4	A4 and F1 lit	[S] ACTIVE
63	Press AK key 5	A5 and F1 lit	[S] ACTIVE
64	Press AK key 6	A6 and F1 lit	[S] ACTIVE
65	Press AK key 7	A7 and F1 lit	[S] ACTIVE
66	Press AK key 8	A8 and F1 lit	[S] ACTIVE
67	Press AK key 9	A9 and F1 lit	[S] ACTIVE
68	Press GK key 0	G1 and F1 lit	[S] ACTIVE
69	Press GK key 1	G2 and F1 lit	[S] ACTIVE
70	Press GK key 2	G3 and F1 lit	[S] ACTIVE
71	Press GK key 3	G4 and F1 lit	[S] ACTIVE
72	Press GK key 4	G4 and F1 lit	[S] ACTIVE
73	Press GK key 5	G5 and F1 lit	[S] ACTIVE

Table 10
M2250 Console

Step	Key operated	LCD location and response	Display and Tones
74	Press GK key 6	G6 and F1 lit	[S] ACTIVE
75	Press GK key 7	G7 and F1 lit	[S] ACTIVE
76	Press GK key 8	G8 and F1 lit	[S] ACTIVE
77	Press GK key 9	G9 and F1 lit	[S] ACTIVE
78	Press Hold key	F1 and B0-4 lit	[S] Busy tone in handset
79	Press Hold key	F1 and B0-4 lit	[S] Buzz in speaker
80	Press Hold key	F1 and C0 lit	[S] NIGHT or BUSY
81	Press CK key 1	F1 and C1 lit	[S] NIGHT or BUSY
82	Dial SPRE 92	All LCDs lit	888888888888888888. . . 888888888888888888. . .
83	Press dialpad #	F1 lit	[S] ACTIVE
84	Press FK key 1		ACTIVE
85	Press FK key 2	All LCDs lit except F1	888888888888888888. . . 888888888888888888. . .
86	Press FK key 2	LCDs Flash at 120 ipm	Flash ACTIVE/NIGHT
87	Press FK key 2	LCDs Flash at 60 ipm	Flash ACTIVE/NIGHT
88	Press FK key 2	LCDs Flash at 30 ipm	Flash ACTIVE/NIGHT
89	Press Icon key 8	All LCDs off	ACTIVE
90	Press Icon key 7	B0-4 lit	ACTIVE, dial tone
91	Press FK key 5	All LCDs off	ACTIVE, dial tone
92	Press Icon key 7	B0-4 lit	ACTIVE
93	Press FK key 5	All LCDs off	ACTIVE
94	Press FK key 6	B0-4 lit	ACTIVE
95	Press FK key 6	All LCDs off	ACTIVE
96	Handset out	All LCDs off	ACTIVE
97	Handset in	B0-4 lit	ACTIVE
98	Handset out	All LCDs off	ACTIVE

Table 10
M2250 Console

Step	Key operated	LCD location and response	Display and Tones
99	Handset in other side of console	B0-4 lit	ACTIVE
100	Press Hold key	B0-4 lit	ACTIVE, busy tone
101	Press Hold key	B0-4 lit	ACTIVE, Buzz in speaker
102	Press Hold key	C0 lit	NIGHT
103	End of test		

LD 32—Network and Peripheral Equipment Diagnostic

LD 32 performs checks and maintenance functions on network and Peripheral Signaling equipment. LD 32 will allow commands to be used for XTD cards. The STAT command will produce an output which has XTD, LDC or LGD appended where required.

this program is used to:

- get the status of Peripheral Signaling (PS), Controller and network cards
- get the status of PE shelves cards and units
- disable and enable PS, Controller and network cards
- disable and enable PE shelves, cards and units
- test message waiting lamps on 500/2500 sets
- test Message Waiting Lamps (MWL) on 2500 sets during midnight routines
- print set and card IDs on superloops
- convert packed TNs in hex to the loop, shelf, card, unit format

Note 1: Disabled DID trunks are placed in the answer state while disabled.

Note 2: If Recorded Telephone Dictation (RTDT) cards are to be software enabled or disabled, the Out-of-Service (OS) lead should be connected to ground. On completion of the task, ground can be removed.

Note 3: Card ID information is presented as follows:

CCCCCCCC-RRSSSS

Where:

Note 4: CCCCCCCC = is the order code

RR = is the release number

SSSS = is the serial number After making any changes to the route data block, IPE TRUNK CARDS MUST BE DOWNLOADED by issuing the ENLC l s c command.

Note 5: When getting the status of a card relating to a trunk error (STAT), the term RVSD may appear with the trunk information. RVSD indicates that the software detected a reversed wired trunk for that unit.

Overlay 32 Linkage

Overlay programs 10, 11, 20 and 32 are linked, thus eliminating the need to exit one Overlay and enter another. Once one of the aforementioned Overlays has been loaded, it is possible to add, print and obtain the status of a set without having to exit one Overlay and load another.

Input processing has also been enhanced. Prompts ending with a colon (:) allow the user to enter either:

- 1 a question mark (?) followed by a carriage return (<cr>
This entry will present you with a list of valid responses to that prompt.
- 2 An abbreviated response
The system responds to this entry with the nearest match. If there is more than one possible match, the system responds with SCH0099, the input followed by a question mark, and a list of possible responses. The user can then enter a valid response.

Using Enable/Disable commands

All units on a loop go into maintenance busy mode when disabled using the DISL command. The shelves on a loop must be individually re-enabled via the ENLS command. Any telephones that were in lockout mode show as idle, then go into lockout mode again 30 seconds after any unit on the shelf requests dial tone.

When enabling a network loop serving ISDLN cards, the ISDLN cards must be individually disabled then re-enabled to ensure that service is restored to digital telephones. Service may also be restored to digital telephones by disconnecting, and then reconnecting the telephone's line cord.

Basic commands

Table of contents

Section	Page
Basic commands	470
Superloop commands	472

Basic commands

CDSP	Clear the maintenance display on active CPU to 00 or blank
CMIN	Clear the minor lamp on a system basis
CMIN ALL	Clear minor alarm indication on all attendant consoles
CONV tn	Convert packed TN (in hex) to loop, shelf, card and unit format
CONV l s c u	Convert loop, shelf, card and unit format to packed TN (in hex)
DISC l s c	Disable specified DTR/MFR card
DISI l s c	Disable specified card when it is idle
DISL loop	Disable network loop
DISR l s c u	Disable specified DTR/MFR card or unit
DISN loop	Disable network card containing specified loop
DISS l s	Disable specified shelf
DISU l s c u	Disable specified unit
DSCT l	Disable automatic background continuity tests for superloop
DSNW loop	Disable network card containing specified loop
DSPS x	Disable Peripheral Signaling card x
DSXP x	Disable controller x and all connected cards
END	Abort current test
ENLC l s c	Enable and reset specified DTR/MFR card
LBSY l s	List TNs of all busy units on specified shelf
LDIS l s	List TNs of all disabled units on specified shelf
LIDL l s	List TNs of all idle units on specified shelf

LLBD l s	List TNs of 500/2500 sets with defective MWLs
LMNT l s	List TNs of all maintenance busy units on specified shelf
MFR l s c u	Test specified MFR card or unit.
MFR l	Test all MFR units on loop l.
MFR <cr>	Test all MFR units
PBXH	Message Waiting lamp maintenance
PBXT ALL	Test all Message Waiting lamps
PBXT l (s c u)	Test Message Waiting lamps on loop (or shelf or card or unit)
SDLC l s c	Get status of specified ISDLC card
SDTR l s c u	List status of specified DTR/MFR card or unit.
SDTR <cr>	List the TN of all disabled DTR/MFR units
STAT	Get status of all configured loops in system
STAT (loop)	Give status of one or all loops
TRK l s c u	Seize specified trunk for outpulsing

Superloop commands

DISL sl	Disable specified superloop
DSCT sl	Disable automatic background continuity tests for a superloop
DSXP x	Disable Controller x and all associated PE cards
IDC l s c	Print card ID for PE card
IDCS x	Print card ID for all cards on shelf controlled by Controller x
IDUc u	Print set ID
LBSY l s	List TNs of all busy units on specified shelf
LDIS l s	List TNs of all disabled units on specified shelf
LIDL l s	List TNs of all idle units on specified shelf
STAT sl	Get status of superloop and separate carriers on that superloop
SUPL (sl)	Print data for one or all superloops

Alphabetical list of commands

Command	Description
CDSP	Clear the maintenance display on active CPU to 00 or blank.
CMIN	Clear the minor lamp on a system basis.
CMIN ALL	Clear minor alarm indication on all attendant consoles.
CMIN c	Clear minor alarm indication on attendant consoles for customer c.
CONV tn, CONV I s c u	<p>Convert packed TN (in hex) to I s c u, or vice versa. The command format is:</p> <p>CONV tn - convert packed TN</p> <p>CONV I s c u - convert unpacked TN</p>
CPWD I s c u	<p>Clear directory password for M3000 set.</p> <p>Allows the M3000 Directory password of the specified M3000 set to be cleared. This allows a user to access the M3000 Directory if the password has been forgotten or if the user wants to change the current password.</p>
DIS AUTO I s c u	Disable automatic link recovery option of a DSL.
DISC (BASE) I s c	<p>Disable specified BRSC card. This command is also used to disable the ISDN Basic Rate Interface Signaling Concentrator (BRSC) card.</p> <p>Where:</p> <p>BASE = Disable only the basecode. If not specified, both the basecode and application are disabled. The application is disabled first unless BASE is entered.</p> <p>I = loop</p> <p>s = shelf</p> <p>c = card</p> <p>The card faceplate LED is turned on to indicate the card is disabled, and the IPC channel is eliminated. The "." prompt is given when the process is complete.</p>

- DISC BRI l s c** Disable the BRSC ISDN BRI application. Where:
- BRI = the BRSC ISDN BRI application
 - l = loop
 - s = shelf
 - c = card
- All active and transient ISDN BRI calls are dropped, and all signaling and packet channels are torn down. The DSL software state remains the same, but the ISDN BRI line cards receive a disable message.
- DISC l s c** Disable specified DTR/MFR card.
- If BRI reference clock source is configured on this SILC the user will be prompted with:
- CLOCK SOURCE ON DSL #, PROCEED? ,
- where # = unit 0-7
- DISI l s c** Disable specified card when it is idle.
- If BRI reference clock source is configured on this SILC the user will be prompted with:
- CLOCK SOURCE ON DSL #, PROCEED? ,
- where # = unit 0-7
- DISL (appl) loop** Disable application on MISP loop. Where appl =
- BRIL (Basic Rate Interface Line), or
 - BRIT (Basic Rate Interface Trunk)
- DISL (appl) loop 1** Disable MISP loop.
- Where: appl =BRIL (Basic Rate Interface Line), BRIT (Basic Rate Interface Trunk), or BRIE (UIPE Basic Rate Interface Trunk).
- DISL (appl) loop (FDL)**
- Disable MISP application and loop. Where:
- appl = optional application name (BRIL)
 - loop = loop number
 - FDL = force download the application
- Entering 1 rather than FDL force downloads the application.

DISL loop	Disable network loop. See “Using the Enable/Disable commands” in the introduction. This command is also used for superloops and MISPs.
DISL sl	Disable specified superloop. Active calls on the superloop will be disconnected and line transfer will occur at the remote end.
DISN loop	Disable network card containing specified loop, where “loop” is the number of the even or odd loop. Not applicable to superloops.
DISR l s c u	Disable specified DTR/MFR card or unit. The LED should be lit on the XMFR card in response to this command.
DISS l s	Disables specified shelf. See “Using the Enable/Disable commands” in the introduction.
DISU BRI l s c	Disable ISDN BRI BRSC card.
DISU l s c d	Disable specified Digital Subscriber Loop 0-7. If BRI reference clock source is configured on the DSL the user will be prompted with: CLOCK SOURCE ON THIS DSL, PROCEED?
DISU l s c u	Disable specified unit. See “Using the Enable/Disable commands” in the introduction.

DLIF loop x	<p>Download an UIPE BRI trunk interface data file to a MISP loop. The MISP specified must have the BRIT UIPE loadware application. Where x may be:</p> <p>(0) = UIPE SL1 1 = ETSI QSIG 2 = ISO QSIG . . 28 = ETSI QSIG GF 29 = ISO QSIG GF</p> <p>To achieve a successful download:</p> <ol style="list-style-type: none"> 1. the MISP basecode must be enabled 2. the specified MISP must have the UIPE BRI trunk loadware configured 3. the interface must be inactive (interpret this to mean that either the UIPE BRI trunk application must be disabled or no DSL of this interface type can be enabled)
DSCT loop	Disable automatic background continuity tests for a superloop.
DSIF L PDL2 I s c	Disables the SAPI 16 interface number for BRSC on I s c for the MPH on loop L.
DSIF L PDL2 L1	Disables SAPI 16 interface number for BRIL on Loop L1 for MPH on loop L.
DSIF I s c DSL BCH x	<p>Disables the link interface for B-channel x for DSL I s c bch. Where: x = 1–2</p>
DSIF I s c DSL DCH x	<p>Disables the link interface number for USID x for the DSL on I s c dch.</p>
DSIF loop PDNI Y	Disable the link interface number Y for PDNI on Loop Y (1-3)
DSNW loop	Disable network card containing specified loop, where “loop” is the number of the even or odd loop. Not applicable to superloops.

DSPS x Disables Peripheral Signaling (PS) card x and loops serviced by the card. Disabling PS card 0 interrupts service on loops 0 to 15. To re-enable the card, use the ENPS x command.

If this fails, a system initialization may be required. Use the disable command with discretion. Disabling a PS card disables up to 16 loops.

The following lists the group/PS/loop relationship:

<u>Group</u>	<u>PS</u>	<u>Loops</u>
0	0	0 to 15
0	1	16 to 31
1	2	32 to 47
1	3	48 to 63
2	4	64 to 79
2	5	80 to 95
3	6	96 to 111
3	7	112 to 127
4	8	128 to 143
4	9	144 to 159

DSRB l s c d Disable Remote Loop Back for specified BRI Trunk DSL

DSTS l s c d Disable Remote Loop Back test mode for specified BRI Trunk DSL

DSXP x Disable Controller x and all connected cards.

ENCT loop Enable automatic background continuity tests for loop.

END Abort current test. Stops outputting. Stops current test.

ENIF L PDL2 l s c Enables the SAPI 16 interface number for BRSC on l s c for MPH on loop L.

ENIF l s c DSL BCH x
Enables the link interface for B-channel x for DSL l s c bch.
Where: x = 1–2

ENIF l s c DSL DCH x
Enables the link interface number for USID x for the DSL on l s c dch.

ENIF loop PDNI Y Enables the link interface number Y for PDNI on Loop Y (1-3).

ENL AUTO I s c u Enable automatic link recovery option of a DSL.

ENLC (BASE) I s c (FDL/NST)

Enable specified card.

If the card resides on a disabled shelf, the status is output and enable is not performed. If card has been disabled by overload, the overload status entry is cleared.

Used to enable the ISDN Basic Rate Interface Signaling Concentrator (BRSC) card. The command format is shown here. ENLC (BASE) I s c u (FDL/NST)

Where:

BASE = enable only the BRSC basecode. If not specified, both the basecode and the application will be enabled.

I = loop

s = shelf

c = card

FDL = force download the basecode

NST = No self-test

The card faceplate is turned off to indicate the card is enabled, and the IPC channel is built.

ENLC BRI I s c (FDL)

Enable the BRSC ISDN BRI application. Where:

BRI = the BRSC ISDN BRI application

I = loop

s = shelf

c = card

FDL = force download the application

The application is force downloaded if:

- FDL is entered, or
- No application currently exists on the BRSC card, or
- There is a version number mismatch between the applications in the software and on the card.

ENLC l s c	<p>Enable and reset specified DTR/MFR card.</p> <p>If the card resides on a disabled shelf, the status is output and enable is not performed. If card has been disabled by overload, the overload status entry is cleared.</p> <p>This command causes the pack to perform a self test. If the pack self test passes, the LED will blink 3 times. If it fails, the LED will be lit solidly. A XMI message will be issued to indicate that the XMFR pack has powered up. This command can be used to enable a XMFR card.</p> <p>This command is also used for the S/T-Interface (SILC) and U-Interface (UILC) line cards.</p>
ENLG x	<p>Enable group x. Equivalent to two ENPS commands. Refer to DSPS command for the relationships of groups, PS cards and loops.</p>
ENLL (appl) loop (FDL)	<p>Enable MISP application, and loop. Where:</p> <p>appl = optional application name (BRIL)</p> <p>loop = loop number</p> <p>FDL = force download the application</p> <p>Entering 1 rather than FDL force downloads the application.</p>
ENLL (appl) loop 1	<p>Enable MISP loop. Where:</p> <p>appl = optional application name (BRIL)</p> <p>1 = force downloads the application</p>
ENLL loop	<p>Enable network loop.</p> <p>See "Using the Enable/Disable commands" in the introduction. This command is also used for Multi-purpose ISDN Signaling Processors (MISP).</p>
ENLL loop (v)	<p>Enable superloop, download peripheral software version v. If version v is not specified, the software downloaded is current (c) or latest (l) version as defined in LD 97.</p>
ENLL sl	<p>Enable specified Superloop. OK is output if the operation is successful.</p>

ENLN loop	Enable network card with specified loop, where loop is the even or odd numbered loop on the network card. Not applicable to superloops.
ENLR l s c u	Enable the specified DTR/MFR card. Meridian 1 software will issue a message to request XMFR to perform an echo test only when ENLR is issued to enable the XMFR card.
ENLS l s	Enable specified shelf. Where: l = loop and s = shelf. If the shelf is disabled by overload, the overload status entry is cleared.
ENLU l s c d	Enable Digital Subscriber Loop (0-7).
ENLU l s c u	Enable specified unit. If the unit resides on a disabled shelf or card, the status is output and enable is not performed. If the unit to be enabled is a 500/2500 message waiting telephone, test the unit prior to enabling.
ENNW loop	Enable network card with specified loop, where loop is the even or odd numbered loop on the network card. Not applicable to superloops.
ENPS x	Enables PS card x and all loops that were enabled at time of last DSPS command. Refer to DSPS command to find the relationships of groups, PS cards and loops.
ENRB l s c d	Enable Remote Loop Back for specified BRI Trunk DSL.
ENTS l s c d	Enable Remote Loop Back test mode for specified BRI Trunk DSL.
ENXP x (v)	Enable Controller x and associated PE cards, download software version v. Enable all PE cards connected to Controller x and the Controller itself. If version v is not specified, the software downloaded to the Controller is current (c) or latest (l) version as defined in LD 97.

ENXP XPC x (v) Enable Controller x, do not enable the associated PE cards, download software version v.

The cards connected to the Controller are not enabled by this command. If version v is not specified, the software downloaded to the Controller is current (c) or latest (l) version as defined in LD 97.

ESTU l s c d Establish D-channel link for the specified Digital Subscriber Loop (0-7).

FDIS NCAL <c DSL#> <conn_id>

Force disconnect the specified call-independent connection (as defined by its connection ID number)

Note that the command format for an Option 11C is:

STAT NCAL <c 0 0 DSL#><conn_id#>

FDIS NCAL <l s c DSL#> <conn_id>

Force disconnect the specified call-independent connection (as defined by its connection ID number)

IDC l s c Print BRSC card and loadware version.

This command queries the BRSC card ID, the basecode, and the application version number. Where: l = loop, s = shelf, and c = card.

Output example:

```
BOOTCODE  VERSION  xx . . . x
BASECODE  VERSION  xx . . . x
BRI APPL   VERSION  xx . . . x
```

IDC l s c Print MISP or XPE card ID.

The MISP card ID output format is:

```
CARDID: xxx. . . x
BASECODE VERSION: xxx. . . x
BRI LINE/TRUNK VERSION: xxx. . . x
BOOTCODE VERSION: xxx. . . x
```

The XPE card ID output format is:

=> XXXX CCCCCC-RRSSS

Where:

XXXX = card type (i.e., XDTR, XUT, etc.)

CCCCCCCC = order code

RR = release number

SSSS = is the serial number

IDC l s c d Print ID of Digital Subscriber Loop 0-7.

IDC sl

Print card ID of optical packets and main boards for Fibre superloop and associated Controller(s)

The output format for the superloop card ID including optical packets is:

```
FNET VERS => xxx
```

```
FW IS SANE
```

```
aaaaaaaaaaaaa
```

```
PRIM: pppppppp
```

```
SEC: ssssssss
```

```
XPEC VERS => xxx
```

```
FW IS SANE
```

```
aaaaaaaaaaaaa
```

```
PRIM: pppppppp
```

```
SEC: ssssssss
```

Where:

1. xxx = loadware version
2. aaaaaaaaaaaaa = contents of ID EEPROM (FNET or FPEC)
3. PRIM: pppppppp = contents of ID EEPROM primary packet (if present)
4. SEC: ssssssss = contents of ID EEPROM secondary packet (if present)

IDC l s c Print card ID for PE card. The format is:

IDC l s c — print ID of specified line card

The format of the card ID is CCCCCCCC-RRSSSS, where:

CCCCCCCC = order code

RR = release number

SSSS = serial number

For example, a Network Card (NT8D04AA) with a release of 01 and serial number of 00001 will have a card ID with:
NT8D04AA-010001

For BRI MISP cards, the output is:

```
CARDID: xxx...x
BASECODE VERSION: xxx...x
BRI LINE/TRUNK VERSION: xxx...x
BOOTCODE VERSION: xxx...x
```

IDCS x Print card ID for all cards on shelf controlled by Controller x. The card ID for all cards in shelf controlled by Controller x is output. The XPE card ID output format is:

=> XXXX CCCCCCCC-RRSSSS

Where:

```
XXXX = card type (i.e., XDTR, XUT, etc.)
CCCCCCCC = order code
RR = release number
SSSS = is the serial number
```

IDU l s c d Print set ID for Digital Subscriber Loop d (0-7)

IDU l s c u Print set ID. Print ID applies to the following set types: M2006, M2008, M2016, M2216 and M2616.

The output format of the set ID (M2008 for example) is:

```
ARIES TN: l s c u
TN ID CODE: M2008
NT CODE: NT2K08WC
COLOR CODE: xx
RLS CODE: xx
SER NUM xxxxxxxx
```

The color codes are:

- 03 is black
- 35 is chameleon ash
- 93 is dolphin grey

LBSY l s List TNs of all busy units on specified shelf.

LDIS l s List TNs of all disabled units on specified shelf.

LIDL l s List TNs of all idle units on specified shelf.

LMNT I s	List TNs of all maintenance busy units on specified shelf.
MFR I s c u	Test specified MFR card or unit. During the MFR test, faulty MFR/XMFR packs are disabled and MFRxxx error messages are output.
MFR I	Test all MFR units on loop I During the MFR test, faulty MFR/XMFR packs are disabled and MFRxxx error messages are output.
MFR <cr>	Test all MFR units During the MFR test, faulty MFR/XMFR packs are disabled and MFRxxx error messages are output.
PBXH	Message Waiting lamp maintenance.
PBXT ALL	Test all Message Waiting lamps.
PBXT I (s c u)	Tests 500/2500 Message Waiting lamp on specified loop, shelf, card or unit. This is required after failed lamp is fixed.
PCON I s c d	Upload and print configuration and LAPD parameters for specified DSL. This command requires the specified DSL to be configured for the BRI Trunk Application. See example below: PCON 6 0 0 6 .DSL: 6 0 0 6 LINL PARAM CONFIRM TIME: 0:02:10 INTERFACE: SL-1 OPER MODE: USR T200: 2 T203: 20 N200: 3 N201: 260 K: 1 PROT #: 1
PERR loop	Upload and print Layer 2 error log for specified MISP.

PERR l s c

Upload and print Layer 2 error log for specified SILC or UILC. This command requires the specified MISP or line card to be configured for the BRIT Application.

If error log is requested for a line card the error log for each DSL is printed. If error log is requested for a MISP the application global log is also printed.

Interpretation of error logs:

1st byte is DSL number or "80" for Application log.

2nd byte is number of non-zero logs.

If errors were logged the subsequent information is printed for each error type:

3rd byte is counter type code

4th byte is "HIGH" byte of count

5th byte is "LOW" byte of count

Examples follow :

PERR 6

.DSL: 6 0 0 6 ERR LOG CONFIRM TIME: 0:02:10

00 00 01 00 06 00 07 00

^ ^ ^ ^

DSL 0 DSL 1 DSL 6 DSL 7 (no errors for all DSLs)

PERR 3

.DSL: 5 0 0 2 ERR LOG CONFIRM TIME: 0:02:10

80 01 4D 00 09

Where:

1st byte - 80 - indicates Application global log

2nd byte - 01 - is number of error logs

3rd byte - 4D - is counter type code

4th byte - 00 - is "HIGH" byte count

5th byte - 09 - is "LOW" byte counts for all DSLs

PLOG l s c d Upload and print protocol log for specified BRI Trunk DSL. The protocol log keeps record of up to 32 protocol types. Only non-zero counters are uploaded and printed.

This command requires the specified MISP or line card to be configured for the BRIT Application. See example below:

```
PLOG 6 0 0 6
.DSL: 6 0 0 6 PROTOCOL CONFIRM TIME: 0:02:10
17 117 <--Counter 17 shows 117 SABME frames
received with incorrect C/R bit
18 141 <--Counter 18 shows 141 supervisory frames
received with F=1
19 84 <--Counter 19 shows 84 unsolicited DM
responses with F=1
```

PMES l s c d Upload and print Layer 3 message log for specified DSL. This command requires the specified DSL to be configured for the BRI Trunk Application.

Each time a valid Layer 3 message is received by the MISP, a counter for that particular message is incremented. The log keeps track of up to 20 message types.

Only non-zero items are uploaded and printed. Making trunk calls will create a printable log. In the following example, 2 calls were made:

```
PMES 6 0 0 6
.DSL: 6 0 0 6 MSG LOG CONFIRM TIME: 0:02:10
ALERT: 2
PROC: 2
CONNECT: 2
DISCONN: 2
REL COP: 2
```

PTAB l s c d Upload and print Layer 3 Message configuration IE table for specified BRI trunk DSL. PTAB uploads what was downloaded when the Application was enabled.

PTAB l s c d <tbl #>

Upload and print specified Layer 3 Message configuration IE table for specified BRI trunk DSL. PTAB uploads what was downloaded when the Application was enabled.

Where: <tbl #> = table number.

PTRF I s c d Upload and print traffic report for specified BRI Trunk DSL. This command requires the specified DSL to be configured for the BRI Trunk Application. See example below:

```
PTRF 6 0 0 6
```

```
.DSL: 6 0 0 6 TRAFFIC CONFIRM TIME: 0:02:10
```

PEAK_I_US: 0 <-- Peak link usage (over a 5 second period) for incoming traffic since the last time the traffic data was uploaded. An integer 0 - 100 which represents the percentage of the link capacity used.

AVRG_I_US: 0 <-- Average link usage for incoming traffic since the traffic was last uploaded.

PEAK_O_US: 0 <-- Peak link usage (over a 5 second period) for outgoing traffic since the last time the traffic data was uploaded. An integer 0 - 100 which represents the percentage of the link capacity used.

AVRG_O_US: 0 <-- Average link usage for outgoing traffic since the traffic was last uploaded.

TIME: 0 <-- time since last traffic upload query **CONNECTED CALL:** 2 <-- number of successfully connected trunk calls

RLBT I s c d Perform Remote Loop Back Test on specified BRI Trunk DSL.

RLSU I s c d Release D-channel link for specified Digital Subscriber Loop (0-7).

RMIF L PDL2 I s c Disables and removes the SAPI 16 interface number for BRSC on I s c for MPH on loop L.

RMIF L PDL2 L1 Disables and removes the SAPI 16 interface number for BRIL on Loop L1 for MPH on loop L.

RMIF I s c DSL BCH x
Disables and removes the link interface for B-channel x for DSL I s c bch; where: x = 1-2

RMIF loop PDNI Y Disables and removes the link interface number Y for PDNI on Loop Y (1-3)

SDLC I s c Get status of specified ISDL card.

SDTR l s c u	List status of specified DTR/MFR card or unit.
SDTR <cr>	List status of all disabled DTR/MFR units
STAT	Get status of all configured loops in system
STAT (appl) loop	<p>Get status of MISP loop and application.</p> <p>If appl = BRIL, the status of the BRI Line application is output. If appl = BRIT, the status of the BRI Trunk application is output.</p> <p>Typical response is:</p> <pre>loop = MISP loopmm DSBL nn BUSY MISP lll : ENBL ACTIVATED timestamp BRIL : ENBL BRIT : ENBL</pre> <p>If the card has been manually disabled, the response is:</p> <pre>loop = MISP loopDISABLED RESPONDING MAN DSBL</pre> <p>If the card has been disabled by the system, the response is:</p> <pre>loop = MISP loop DISABLED RESPONDING SYS DSBL - aaa...a</pre> <p>Where aaa...a is the reason as follows:</p> <ul style="list-style-type: none">a BOOTLOADING = basecode is being downloaded to the MISPb FATAL ERROR = MISP has a serious problemc OVERLOAD = MISP overload (card inoperable)d RESET THRESHOLD = too many resets (card inoperable)e SELF TESTING = card is performing self-testf SELFTEST FAILED = self-test failedg SELFTEST PASSED = successfully completed self-testh SHARED RAM TEST FAILED = MISP memory problem (card inoperable)i STUCK INTERRUPT = MISP hardware failure (replace card)

With the STAT BRIL or STAT BRIT option, the response is one of the following:

1. APPLICATION ENBL
2. APPLICATION NOT CONFIGURED
3. APPLICATION NOT RESPONDING
4. APPLICATION MAN DSBL (manually disabled)
5. APPLICATION SYS DSBL - aaa...a (system disabled)

Where: aaa...a is the reason as follows:

- a** CLOSED = application is closed by basecode on the card
- b** CLOSED ERR = error in closing the application
- c** CORRUPTED = application is corrupted on the card
- d** DOWNLOADING = application is being downloaded
- e** ENABLED = application is in active state
- f** INACTIVE = application is in inactive state
- g** MNT BUSY = application is in maintenance busy state
- h** WAIT DSBL = application is in process of being disabled
- i** WAIT ENABLE = application is in process of being enabled
- j** WAIT ERASE = application is being erased from the card
- k** WAIT REMOVE = application is being removed from the card

STAT (loop)

Give status of one or all loops. Response is one of the following:

1. x BUSY, y DSBL = loop enabled with x channels busy and y channels disabled.
2. UNEQ = loop unequipped.
3. CTYF: l1 l2 = loop specified in STAT command is unable to receive data from loops l1, l2, etc. (i.e., continuity test failed in most recent LD 45 loop test). Probable fault in network card.
4. DSBL: NOT RESPONDING = loop disabled. Network card not responding. Card missing, disabled by switch or faulty.

5. DSBL: RESPONDING = loop disabled but the network card responds. loop may have been disabled due to:
 - a manual request (DISL)
 - b associated Peripheral Signaling card being disabled
 - c overload condition on associated loop

Note 1: Overload conditions are indicated by OVD messages. An attempt to enable a loop which was disabled due to overload may result in a recurrence of the overload condition: the system's service may be impaired for about 2 minutes.

Note 2: For MISP loops see STAT (appl) loop command.

STAT I s Get idle, busy or disabled status of units on specified shelf. Displays number of units idle, busy, disabled and maintenance busy for the specified shelf.

STAT I s c Get status of any specified PE/IPE card. (e.g., digital line, analog, DTR, etc.)

When getting the status of a card relating to a trunk error (STAT), the term RVSD may appear with the trunk information. RVSD indicates that the software has detected a reversed wired trunk for that unit.

When getting the status of a card where ACD sets are defined, the printout will include MSB LOG OUT, MSB LOG IN, LOG IN, OR LOG OUT, according to the ACD set state.

The output format for either a *S/T-Interface line card (SILC)* or an *U-Interface line card (UILC)* is:

For BRI trunks:

l1 = UNIT II = DSL/UNIT number on the card =

```
swstate type L2_state L1_state dch_state clk
(mode)
```

For BRI lines:

l1 = UNIT II = DSL/UNIT number on the card =

```
swstate type L2_state L1_state
```

If you are analyzing a *SILC* or an *UILC* card, [Table 11](#) on [page 492](#) lists and defines output fields and field responses. An output example can be found [page 491](#).

The output format for an *ISDN BRI card* is:

```
loop = UNIT sw_state DSL misp_state LC_state
```

With *ISDN BRI BRSC* cards, the basecode and application status are output.

APPLICATION TIME	MAIN STATE	SUB STATE/ACTIVATION
BASECODE	ENABLED	xx/xx/xx x:xx
BRI	ENABLED	xx/xx/xx x:xx
IDLE 0	BUSY 0	DISABLED 8
MSBY 0		
TOTAL DSLs CONFIGURED 8		

If you are analyzing an *ISDN BRI card*, see “STAT l s c d” command for a list of possible states.

Output Example:

```
00 = UNIT 00 = IDLE LINE   ESTA UP
01 = UNIT 01 = IDLE TRNK  ESTA UP           ESTA SREF (TE)
02 = UNIT 02 = IDLE LINE   ESTA DOWN
03 = UNIT 03 = UNEQ
04 = UNIT 04 = UNEQ
05 = UNIT 05 = UNEQ
06 = UNIT 06 = DSBL TRNK DSBL UNEQ RLS      (NT)
07 = UNIT 07 = DSBL TRNK DSBL UNEQ RLS      (TE)
```

Table 11: STAT I s c Field and Response Definitions

Field	Field Definition	Response	Response Definition
swstate	state of DSL/UNIT in software	IDLE BUSY UNEQ MBSY	no active call active with a call unequipped maintenance busy
type	DSL type	LINE TRNK	BRI line BRI trunk
L2_state	Layer 2 state of DSL/UNIT in MISP loadware	UNEQ IDLE BUSY MBSY DSBL ESTA RLSU TEST RLBT APDB MPDB MPNR UTSM	unequipped no active call active with a call maintenance busy disabled D-channel link is established D-channel link is released test mode remote loop back application disabled associated MISP disabled associated MISP not responding unable to send message to MISP
L1_state	Layer 1 state of line card	UNEQ DOWN LCNR UP UNDN XPDB UTSM	unequipped Layer 1 is down line card not responding Layer 1 is up undefined DSL state Associated XPEC is disabled unable to send message to MISP
dch_state	State of D-channel link in software	ESTA RLSU TEST-IDLE TEST-RLBT	D-channel link is established D-channel link is released test mode idle test mode remote loop back
clk	Clock mode	DSBL PREF SREF	disabled primary reference secondary reference
mode	Layer 1 mode of DSL	NT TE	Network Termination Terminal Equipment

STAT I s c d Get status of specified Digital Subscriber Loop (0-7). bri-18

When getting the status of an unit where ACD sets are defined, the printout will *not* include MSB LOG OUT, MSB LOG IN, LOG IN, OR LOG OUT, according to the ACD set state.

The output format is:

```
DSL sw_state misp_state lc_state B1 status
B2 status
```

[Table 12](#) defines output fields. [Table 13](#) on [page 494](#) lists and defines possible responses.

Table 12
STAT I s c d Field Definitions

Field	Definition
sw_state	DSL software state
misp_state	DSL state on the MISP card
lc_state	DSL state on the BRI line card
swstate	State of DSL/UNIT in software
L2_state	Layer 2 state of DSL/UNIT in MISP loadware
L1_state	Layer 1 state of line card
dch_state*	State of D-channel link in software
clk*	Clock mode
b1_state	State of first B-channel
b2_state	State of second B-channel
* these fields are output only for BRI trunks	

Table 13
STAT I s c d Response Definitions

Response	Definition
APDB	MISP call application is disabled
BUSY	Call is active
DOWN	Link layer is not established
DSBL	DSL is disabled
ESTA	Link layer is established
IDLE	No active calls
LCNR	Line card is not responding
MBSY	DSL is in maintenance busy mode
MPDB	MISP is disabled
MPNR	MISP not responding or message is lost
NTAN	DSL is not assigned to a MISP
RLS	Link layer is not established
UNDN	DSL is in an undefined state
UNEQ	Unequipped
UP	Link layer is established
UTSM	CPU is unable to send message to MISP or line card
XTDB	Superloop is disabled
XPDB	Controller is disabled

STAT I s c u Get status of specified unit. basic-1

[Table 14](#) lists and defines possible responses to STAT Iscu.
The response may be normal, abnormal, or caused by an invalid equipment choice.

Table 14
STAT Iscu Responses

Type	Response	Definition
Normal	IDLE	Idle
	MBSY	Maintenance busy
	DSBL	Disabled
	DSBL	Virtual terminal on Meridian 1 / Meridian SL-1 disabled by Server
	BUSY	In use by call processing
	BUSY BARRED	Barring is applied to trunk with BARA Class of Service
	UNEQ	Terminal not defined in software
	L500	Line is 500/2500 type
	MBCS	Maintenance set
	BCS	Normal SL-1 telephone
	TRK	Trunk
	ATTN	Attendant console
	DTR	Digitone Receiver
	PWR	Console power unit
Abnormal	CARD x DSBL (OVD)	Card x disabled due to overload
	DND xxx xxx	Do Not Disturb feature is active
	SHELF DSBL (OVD)	Shelf disabled due to overload
	SIG FAULT	Outgoing signal circuitry fault detected on PS card under examination.
Responses caused by invalid equipment choice:	WARNING: CRPTR	TN's data is corrupted. Check BUG messages relating to the TN.
	NOT IN RANGE	
	EXT DSBL	Extender disabled
	LOOP NOT TERM	Loop is not a terminal loop
	LOOP UNEQ	Loop is unequipped
	SHELF UNEQ	Shelf is unequipped
	SHELF UNEQ W/PBX	No 500 cards on shelf
	CARDS	
	CARD UNEQ	Card is unequipped
	CARD NOT PBX	Card is not a PBX card
	UNIT UNEQ FOR MW	Unequipped for Message Waiting
	PER UNEQ	PS card is unequipped
	UNIT UNEQ	Unit is unequipped

STAT NCAL <c DSL#>

qsig gf-22

List all current call-independent connections on a given BRIT DSL. (Option 11)

The response format is as follows:

NCALL CONN ID: a number in the range of 1-9999 that identifies the call independent connection on a given DSL
CREF: call reference number in HEX identifying independent connection
STATE: current state of all call-independent connections (IDLE, CONN_REQ, CONN_EST)
TIME: year month day hour:minute:second (the time when call independent connection request is made)
APPL: applications using the call-independent connection (e.g., NACD, NMS,...)
ORIG: originator
DEST: destination

Note that the command format for an Option 11C is:

STAT NCAL <c 0 0 DSL#>

To enter this command, QsigGF package 305 is required.

STAT NCAL <l s c DSL#>

qsig gf-22

List all current call-independent connections on a given BRIT DSL.

The response format is as follows:

NCALL CONN ID: a number in the range of 1-9999 that identifies the call independent connection on a given DSL
CREF: call reference number in HEX identifying independent connection
STATE: current state of all call-independent connections (IDLE, CONN_REQ, CONN_EST)
TIME: year month day hour:minute:second (the time when call independent connection request is made)
APPL: applications using the call-independent connection (e.g., NACD, NMS,...)
ORIG: originator
DEST: destination

To enter this command, QsigGF package 305 is required.

STAT NCAL <l s c DSL#> <conn_ID>	qsig gf-22
List information pertaining to a specific call-independent connection (as defined by its connection ID)	
The response format is as follows:	
NCALL CONN ID: a number in the range of 1-9999 that identifies the call independent connection on a given DSL CREF: call reference number in HEX identifying independent connection STATE: current state of all call-independent connections (IDLE, CONN_REQ, CONN_EST) TIME: year month day hour:minute:second (the time when call independent connection request is made) APPL: applications using the call-independent connection (e.g., NACD, NMS,...) ORIG: originator DEST: destination	
To enter this command, QsigGF package 305 is required.	
STAT NWK loop	basic-1
Check status of network card with specified loop, where loop is the even or odd numbered loop on the network card.	
STAT PER x	basic-1
Get status of PS card x.	
If the PS card is disabled, the response is changed from DSBL to either:	
1. DSBL: NOT RESPONDING = PS card x is either missing, faulty or disabled via the faceplate switch. <ul style="list-style-type: none"> • If there is a fault in the extender pair for the network shelf, the status of the PS card will also be: DSBL: NOT RESPONDING. 	
2. DSBL: RESPONDING = The PS card is disabled and responding to the CPU. The PS may have been disabled by manual request (DSPS) or the associated extender pair may have been manually disabled.	
If neither of these conditions exists, the card may have been disabled because of an overload condition on the associated shelf. Check for OVD messages appearing in previous TTY output.	

An attempt to enable a PS card which was disabled because of an overload may result in a recurrence of the overload condition: the system's service may be impaired for approximately 2 minutes.

STAT sl	Get current status of superloop and separate carriers on that superloop, based on data previously sent by the Carrier Interface F/W (LCIM).	rem_ipe-21
	For each carrier, the following fields will be displayed: S/W State, SPARE Status, NND Status, TSA (Time Slot Availability) and CALS. TTSA = Number of Traffic Timeslots currently available for voice and data calls out of a possible: 21 for T-1 and 27 for T-E. SPARE Status indicates whether the carrier is spared and which carrier it is spared in. NND Status indicates whether new data calls are disallowed on the timeslots being transmitted by the carrier.	
STIF L PDL2 l s c	Displays link status for SAPI 16 interface of BRSC l s c for MPH on loop L.	bri-19
STIF L PDL2 L1	Displays the link status for SAPI 16 interface of BRIL L1 for MPH on loop L.	bri-19
STIF l PDNI y	Displays the link status for interface Y for PDNI. Where: Loop Y = 1-3	bri-19
STIF l s c DSL DCH x	Displays the link status for B-channel X for the DSL l s c D. Where: BCH stands for B-channel and X = 1-2.	bri-19
SUPL (loop)	Print data for all or specified superloop(s).	xpe-15
TRK l s c u	Seize specified trunk for outpulsing. Command is valid at a maintenance telephone only. The specified trunk is connected to the maintenance telephone and a test call may be performed on the trunk. When the test call is completed, access sequence SPRE 91 must be redialed to use the maintenance telephone to input more commands.	basic-1

XNTT loop	Do self-test of Network card for specified superloop. The Network card must be disabled before the self-test.	xpe-15
XPCT x	Do self-test on Controller x. The NT8D01 Controller must be disabled before the self-test.	xpe-15
XPEC (x)	Print data for all or specified Controller(s).	xpe-15

LD 34—Tone and Digit Switch and Digitone Receiver Diagnostic

This program tests circuit cards used in generating and detecting tones. If loaded automatically in background or as part of the daily routines, it tests the hardware and performs fault detection and isolation. If invoked manually, commands can be issued to conduct the entire test or only certain parts of the test and to change card status.

The program tests the following circuit cards:

- Tone and Digit Switch (TDS)
- Flexible Tone and Digit Switch
- Digitone Receiver (DTR)

TDS circuit card outputters and channels are checked for timing errors, memory faults and Digitone frequency accuracy. Digitone receivers are checked for response to all Digitone frequencies. Tones and outputters are tested from a maintenance set.

Basic commands

CDSP	Clear the maintenance display on active CPU to 00 or blank
CMAJ	Clear major alarm and reset power fail transfer
CMIN ALL	Clear minor alarm indication on all attendant consoles
CMIN c	Clear minor alarm indication on attendant consoles for customer c
DISR l s c (u)	Disable specified DTR/MFR card or unit. Applies to DTR or XTD packs.
DISX l	Disable Conf/TDS/MFS card on loop l and l + 1
DTR l s c (u)	Test specified Digitone receiver card or unit. Applies to DTR and XTD packs.
END	Stop execution of current command
ENLL loop	Enable tone and digit loop
ENLR l s c (u)	Enable the DTR/MFR card or unit. Applies to DTR and XTD packs.
ENLX l	Enable Conf/TDS/MFS card on loop l and l + 1
MFR	Test all Automatic Number Identification Feature Group D Multifrequency receiver units
MFR c (u)	Test Automatic Number Identification Feature Group D Multifrequency card or unit
SDTR l s c (u)	Get status of specified DTR/MFR or XTD card or unit.
STAT	List TNs of all disabled DTRs and MFRs
STAT loop	Get status TDS loop
TDS loop	Test outpulsers and channels on specified loop

Maintenance telephone commands

The following commands are used from a Maintenance telephone to test and hear the various tones. Both the command and the dial pad equivalents (in parantheses) are shown.

ANNx#loop## (266x#loop##)

Provides signals coming through source number x of KAPSCH Digital Announcer or Music Interface. Where loop = Tone and Digit Switch loop number)

BSY#loop## (279#loop##)

Provide busy tone from tone and digit loop.

C## (2##)

Remove any active tone.

CMP#loop## (267#loop##)

Provide Camp-On tone from loop.

CUST#xx## (2878#xx##)

Test outpulsing for customer XX.

CWG#loop## (294#loop##)

Give call waiting tone from loop.

DIA#loop## (342#loop##)

Provide dial tone from tone and digit loop.

DRNG#loop## (3764#loop##)

Provide distinctive ringing from loop.

ITN#loop## (486#loop##)

Provide intrusion tone from loop.

JDRG#loop## (5374#loop##)

Provide distinctive ringing from loop.

JIDT#loop## (5438#loop##)

Provide interrupted dial tone from loop.

OPS#loop#x## (677#loop#x##)

Test outpulsing from Meridian 1/Meridian SL-1 to idle trunk.

ORD#loop## (673#loop##)

Provide override tone from loop.

OVF#loop## (683#loop##)

Provide overflow tone from loop.

PCRT#loop## (7278#loop##)

Test the Paid Call Restriction (PCR) tone after the TABL command.

RBK#loop## (725#loop##)

Provide ringback tone from loop.

RNG#loop## (764#loop##)

Provide ring tone from loop.

SDL#loop## (735#loop##)

Give special dial tone from loop.

TABL#xx## (8225#xx##)

Select table number xx. If this command is not issued before any tone request command, then table 0 is assumed (Generic X11 with supplementary features).

TLP#loop## (857#loop##)

Provide tone to last party from the tone and digit loop.

TST#loop## (878#loop##)

Provide test tone from loop.

XCTT#loop#t#c## (9288#loop#t#c##)

Test tone and cadence number on Conference/TDS/MFS card.

Alphabetical list of commands

Command	Description	Pack/Rel
ANNx#loop## (266x#loop##)	Provides signals coming through source number x of KAPSCH Digital Announcer or Music Interface. Where: loop = Tone and Digit Switch loop number.	basic-6
BSY#L## (279#L##)	Provide busy tone from tone and digit loop L.	basic-1
C## (2##)	Remove any active tone.	basic-1
CDSP	Clear the maintenance display on active CPU to 00 or blank.	basic-1
CMAJ	Clear major alarm, reset power fail transfer and clear power fault alarm.	basic-1
CMIN ALL	Clear minor alarm indication on all attendant consoles.	basic-1
CMIN c	Clear minor alarm indication on attendant consoles for customer c.	basic-1
CMP#loop## (267#loop##)	Provide Camp-On tone from loop.	basic-1
CUST#xx## (2878#xx##)	Test outpulsing for customer XX.	basic-1
CWG#loop## (294#loop##)	Give call waiting tone from loop.	basic-1
DIA#L## (342#L##)	Provide dial tone from tone and digit loop L.	basic-1
DISD I s c	Disable the specified Meridian 1/Meridian SL-1 Tone Detector card. Disables both units and lights the LED.	basic-1
DISD I s c u	Disable specified Dial Tone Detector. If both units on the card are disabled, the LED lights.	basic-1

LD 34

DISL loop	Disable tone and digit loop. For Conference/TDS/MFS cards see note with ENLL command.	basic-1
DISR l s c (u)	Disable specified DTR/MFR or XTD card or unit.	xtd-8
DISX l	Disable Conf/TDS/MFS card on loop l and l + 1. Disables the entire combined Conference, Tone and Digit Switch, and MF Sender (NT8D17) card. Both the even numbered TDS/MFS loop and adjacent conference loop are disabled. loop = 0, 2, 4, . . . 158 The DISL and ENLL commands can be used on the even number loop for the TDS/MFS functions. However, this only prevents the loop from being used by software and does not affect the hardware status of the card. The DISX and ENLX commands are recommended. The ENLX command must be used if the DISX command was used to disable the card. This command can be used in LD 34, LD 38 and LD 46.	xct-15
DRNG#loop## (3764#loop##)	Provide distinctive ringing from loop.	basic-1
DTD l s c u	Test specified Dial Tone Detector unit. Applies to DTD and XTD packs. The Dial Tone Detector Test (DTDT) parameters must be configured in the configuration record (LD 17). Faulty DTD packs are disabled. Only 50% of all Dial Tone Detectors in the system may be disabled.	xtd-8
DTR l s c (u)	Test specified unit on Digitone receiver card or unit . This test may be performed while the card is enabled or disabled. If a disabled card passes the test, it is enabled automatically. This command also applies to the XTD.	xtd-8
END	Stop execution of current command.	basic-1
ENLD l s c (u)	Enable Tone Detector on specified card or unit.	basic-1

ENLL I	<p>Enable tone and digit switch loop I.</p> <p>For Conference/TDS/MFS cards the DISX and ENLX commands must be used whenever the faceplate switch of the card has been toggled. ENLL will software enable the card but the card will not be properly reset.</p>	basic-1
ENLR I s c (u)	<p>Enable the DTR/MFR or XTD card or specified unit.</p>	xtd-8
ENLX I	<p>Enable Conf/TDS/MFS card on loop I and I + 1.</p> <p>This command can be used in LD 34, LD 38 and LD 46.</p> <p>Enables the entire combined Conference, Tone and Digit Switch, and MF Sender (NT8D17) card. Both the even numbered TDS/MFS loop and adjacent conference loop are enabled. (loop = 0, 2, 4, . . . 158) The Conf/TDS card is not enabled automatically when it is inserted.</p> <p>Both loops must have been previously disabled. This command initiates card tests and the download of software.</p> <p>The DISL and ENLL commands can be used on the even number loop for the TDS/MFS functions. However, this only prevents the loop from being used by software and does not affect the hardware status of the card. The DISX and ENLX commands are recommended. The ENLX command must be used if the DISX command was used to disable the card.</p> <p>Enabling more than 16 conference loops may cause the system to lock-up.</p>	xct-15
ITN#loop## (486#loop##)	<p>Provide intrusion tone from loop.</p>	basic-1
JDRG#loop## (5374#loop##)	<p>Provide distinctive ringing from loop.</p>	basic-8
JIDT#loop## (5438#loop##)	<p>Provide interrupted dial tone from loop.</p>	basic-8
MFR	<p>Test all Automatic Number Identification (ANI) Multifrequency receiver units.</p>	fgd-17
MFR loop	<p>Test all Automatic Number Identification (ANI) Multifrequency receivers on this loop.</p>	fgd-17

LD 34

MFR I s c (u)	Test Automatic Number Identification (ANI) Multifrequency receiver card or unit.	fgd-17
OPS#L#xx## (677 #L #xx##)	Test outpulsing from Meridian 1/Meridian SL-1 to idle trunk. Outpulses from tone and digit loop I using the 10 or 20 pps outpulser to any idle trunk. This command connects the Meridian 1/Meridian SL-1 maintenance telephone to the trunk, permitting a test call on the trunk to be made using the outpulsers selected. Where : xx = 10 or 20 representing the trunk class of service (LD 14 CLS = P10 or P20). When the test call is completed, LD 34 must be reloaded by dialing SPRE + 91 before entering another command.	basic-1
ORD#loop## (673#loop##)	Provide override tone from loop.	basic-1
OVF#L## (683#L##)	Provide overflow tone from loop L.	basic-1
PCRT#loop## (7278#loop##)	Test the Paid Call Restriction (PCR) tone after the TABL command.	pcr-7
RBK#L## (725#L##)	Provide ringback tone from loop L.	basic-1
RNG#L## (764#L##)	Provide ring tone from loop L.	basic-1
SDL#loop## (735#loop##)	Give special dial tone from loop.	basic-1
SDTR	List the TNs of all disabled DTR/MFR or XTD units	xtd-8
SDTR	List all disabled DTR units	basic-1

SDTR l s c (u)	Get status of specified DTR/MFR or XTD card or unit. If no parameters are entered, a list of all DTR/MFR TNs is output. If l s c is input, the status of the DTR/MFR units on the specified card are output. If l s c u is input, the status of the specified unit is output. Applies to DTR and XTD packs.	basic-1
STAD	List all disabled Tone Detector units.	basic-1
STAD l s c (u)	Get status of Tone Detector card or unit. The status is either idle, busy, maintenance busy or not equipped.	basic-1
STAT	List TNs of all disabled Digitone Receivers. NONE is output if there are no disabled Digitone Receivers.	basic-1
STAT loop	Get status TDS loop. The response may include OPS DSBL, indicating that the outpulsing function of the TDS card has been disabled.	basic-1
TABL#xx## (8225#xx##)	Select table number xx. If this command is not issued before any tone request command, then table 0 is assumed (Generic X11 with supplementary features).	basic-1
TDET l s c (u)	Perform self-test and tone detection on specified card or unit. Performs the self-test and basic tone detection functions of the Meridian 1/Meridian SL-1 Tone Detector card or unit. This test may be performed while the card is enabled or disabled. If a disabled card passes the test, it is enabled automatically.	basic-1
TDS loop	Test outpulsers and channels on specified loop. Tests the outpulsers and channels of the tone and digit switch at loop. Outpulsers and tones are tested with a maintenance telephone (see commands from maintenance telephone).	basic-1
TLP#loop## (857#loop##)	Provide tone to last party from the tone and digit loop.	basic-4
TST#loop## (878#loop##)	Provide test tone from loop.	basic-1

LD 34

XCTT# L#t#c## (9288# L#t#c##)

xct-15

Test tone and cadence number on Conference/TDS/MFS card.

Where:

L = loop number of Conference/TDS/MFS (NT8D17) card

t = tone number

c = cadence number

Refer to Flexible Tone and Digit Switch cards (553-2711-180)
for the Conference/TDS tone and cadence numbers.

LD 36—Trunk Diagnostic

This program allows trunks to be tested either from on-site or from a remote test center.

When testing from on- site, individual trunks can be seized and a test call can be performed on the trunk in the normal manner.

When testing from a remote test center, a speech path must be set up to monitor the testing. This is accomplished by having the Option 11C Compact call a directory number (DN) at the test center. This allows for dial tone, outpulsing and test tones to be monitored as tests are performed on other trunks by inputting commands at the TTY.

When a trunk is seized, the system prompts DN? for a DN. When the DN is input, the system calls that number automatically. When the call is answered a pure tone indicates the validity of the speech path. New trunks can be tested in the same manner with the maintenance telephone.

When to use LD 36

- clear minor alarms and the maintenance display
- query threshold overflows for specific customers and routes
- reset thresholds for specific trunks
- query number of days since an incoming call was received for a specific customer and route or trunk
- query the trunk with the most number of idle days for a specific customer and route

- query trunks for which no disconnect supervision was received
- test Automatic Number Identification (ANI) trunks.

Note: When defined as a midnight routine, this program searches for trunks not used during the day and updates the total number of days the trunks have been idle.

- enable, disable and request the status of Trunk circuit cards. (Disabled DID trunks are placed in the answer state)

Note: LD 36 can only be used for analog trunks, LD 60 must be used for diagnostics on digital trunks.

Trunk Error Thresholds

Resident programs monitor all calls and note apparent errors. The errors are accumulated and, if they occur consistently (exceed a threshold) on any trunk, a diagnostic message which identifies the trunk is output to the TTY or printer. The trunk should be suspected of trouble and a manual test should be performed on the trunk.

A record is kept in memory for each threshold violation error message. At any time, all trunks which have been identified by such a message may be listed by entering the command LOVF for any trunk route. Once an identifying message has been printed, it will not be repeated for that trunk until the RSET command is entered for that trunk or an initialization has occurred.

Potentially, a trunk may fail by not detecting incoming calls. The Meridian 1/Meridian SL-1 threshold mechanism cannot be used to detect such failures so the Meridian 1/Meridian SL-1 maintains for each trunk a count of the number of days since an incoming call was received on each trunk.

Thus, customer reports that indicate incoming calls are not being processed can initiate a check for the trunk which has been without an incoming call for the longest interval via the LMAX command. This trunk should be tested first.

It is possible to determine for each trunk the number of days since an incoming call was processed via the LDIC command. Subsequent trunk tests should be performed on those trunks showing the highest counts until the trouble is located.

Basic commands (LD 36)

CALL	Set up monitor link with test center
CALL c u	Set monitor link with test center on this trunk
CDSP	Clear the maintenance display on active CPU to 00 or blank
CMIN	Clear the minor lamp on a system basis
CMIN ALL	Clear minor alarm indication on all attendant consoles
CMIN c	Clear minor alarm indication on attendant consoles for customer c (not applicable for Release 22)
DISC c	Disable specified card for replacement
DISU c u	Disable specified unit
END	Terminate test in progress
ENLC c	Enable specified card
ENLU c u	Enable specified unit
LDIC c r	List number of days since last incoming call for specified customer and route
LDIC c u	List number of days since last incoming call on specified trunk
LMAX c r	List trunk with maximum idle days for specified customer and route
LND5 c r	List trunks with no disconnect supervision for specified customer and route
LOVF c r	List threshold overflows for specified customer and route
RAN c r	Test recorded announcement device for specified customer and route
RLS	Release trunk being tested
RSET c u	Reset thresholds for specified trunk
STAT c	Check card's software status
TRK c u	Seize trunk for testing
TPPM c u	Test the specified PPM trunk

Note: If a trunk unit is controlled by APNSS, the STAT command will display the status of the D-channel.

Alphabetical list of commands

Command	Description
CALL	<p>Set up monitor link with test center.</p> <p>Same as the CALL c command except any PTRS trunk in the system can be selected. The CALL command must be terminated using the * command.</p>
CALL c u	<p>This command sets up a monitor link (call) between the system and the test center on the trunk specified.</p> <p>The system prompts "DN?" for the directory number. When the PTRS directory number is entered, the system calls up that number automatically. When the call is answered, a pure tone indicates the validity of the link.</p> <p>This sequence can take up to 14 seconds on a trunk without answer supervision. The END command disconnects the call.</p> <p>The CALL c u command is not allowed when the diagnostic program is being run from a maintenance telephone. During the CALL command, On-Hook and Off-Hook signals from the maintenance telephone may initiate BUG105.</p> <p>When the monitor is enabled, a failed trunk is displayed as BUSY. The enable/disable command does not enable or disable the failed trunk unit (it stays in the BUSY state).</p>
CDSP	Clear the maintenance display on active CPU to 00 or blank.
CMIN	Clear the minor lamp on a system basis.
CMIN ALL	Clear minor alarm indication on all attendant consoles.
CMIN c	Clear minor alarm indication on attendant consoles for customer c. (not applicable for Release 22)
DISC c	Disable specified card for replacement.
DISU c u	Disable specified unit.
END	Terminate test in progress

LD 36

ENLC c	Enable specified card. If the card resides on a disabled shelf, its status is output and the enable is not performed. If the card has been disabled by an overload, the overload status is cleared.
ENLU c u	Enable specified unit. If unit resides on a disabled shelf or card, then status is output and enable is not performed.
LDIC c r	List number of days since last incoming call for specified customer (c) and route (r).
LDIC c u	List number of days since last incoming call on specified trunk.
LMAX c r	List trunk with maximum idle days for specified customer and route
LNDS c r	List trunks with no disconnect supervision for specified customer and route. (trunks for which no disconnect supervision was received, i.e., terminating party not going On-Hook after a call)
LOVF c r	List threshold overflows for specified customer and route. The overflows are set when the resident trunk monitor outputs a diagnostic
RAN c r	Test recorded announcement device for specified customer and route.
RSET c u	Reset thresholds for specified trunk.
STAT c	Check card's software status.
TPPM c u	Test the specified PPM trunk. This command is not applicable when the Meridian 1/Meridian SL-1 is connected to 1 TR 6 international ISDN PRA.

TRK c u	<p>Seize trunk for testing.</p> <p>Seizes the specified trunk for outpulsing and testing. If the command is issued from a maintenance telephone, dial tone is heard followed by outpulsing when the directory number is entered.</p> <p>If a trunk is to be seized for outpulsing and testing from a remote test center (not a maintenance telephone), a monitor link must first be set up using the CALL c u command. This must not be over the trunk to be tested.</p> <p>With the monitor link set up, the TRK c u command is input to select the trunk to be tested. The system then prompts with "DN?" and the directory number is input via the TTY. Normal speech path connections are made between the monitor link and the trunk being tested.</p> <p>Disconnect by entering END, by going On-Hook if an SL-1 telephone is used or by entering *. END also disconnects the monitor link.</p> <p>This command cannot be used to seize an ISL trunk.</p>
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LD 37—Input/Output Diagnostic

This program is used to diagnose faults with disk units, tape units, Teletypewriter (TTY) or Serial Data Interface (SDI) cards. It provides enable, disable, status and test functions on these devices. Problems are indicated in IOD messages.

Only some of the commands in this Overlay are supported. Refer to LD 137 for core commands.

Refer to LD 48 for I/O ports used with the following applications.

- Command and Status Links (CSL)
- Meridian Link
- Automatic Call Distribution (ACD)
- Integrated System Messaging Link
- Enhanced Serial Data Interface (ESDI) ports

Intelligent links (APL, HSL, LSL, and CMAC)

A warning message is generated each time an intelligent link is accessed (enable, disable, test). The message is generated for the following types of links:

APL
ACD-D (HSL/LSL)
CMAC (CMC)

The message allows the access to be aborted prior to performing the enable, test, etc. The warning appears in the following format:

DIS TTY N (link type) LINK (status) (y/n)

A response of y disables the hardware of the TTY regardless of the software status of the link. The status field provides the software status of the link.

Valid status entries are:

BAD = software status is invalid

DOWN = link is down

MAINT = link is up and in maintenance mode

FULL = link is full

EMPTY = link is empty

NOT EMPTY= link still contains data

Basic commands

CDSP	Clear the maintenance display on active CPU to 00 or blank
CMIN	Clear the minor lamp on a system basis
CMIN ALL	Clear minor alarm indication on all attendant consoles
DIS MSG	Disable incoming message monitoring for the primary PMSI port.
DIS MSGO	Disable outgoing message monitoring for the primary PMSI port.
DIS PRT x	Disable printer x
DIS TTY x	Disable TTY x.
END	Clear all test activity
ENL MSGI	Enable incoming message monitoring for the primary PMSI port.
ENL MSGO	Enable outgoing message monitoring for the primary PMSI port.
ENL PRT x	Enable printer x
ENL TTY x	Enable TTY x
PRT x	Test printer x
SET MON 0	Set the monitoring display to be in alphanumeric format. This applies to the primary PMSI port.
SET MON 1	Set the monitoring display to be in hexadecimal format. This applies to the primary PMSI port.
STAT	Provide status of all input/output devices in system
STAT MON	Get the monitoring status for the primary PMSI port. This command displays the status of the message monitoring for the primary port. For example, if MSGI, MSGO, and SET MON 0 are enabled, the display would be as follows. MSGI:ON MSGO: ON ALPH
STAT PRT	Provide status of all printers in system
STAT PRT x	Provide status of printer x
STAT TTY	Provide status of all TTY devices in system This command enables you to get the status of the primary PMSI I/O port, and the Single Terminal Access (STA) administration terminal.
STAT TTY x	Provide status of TTY x This command also provides the status of the primary PMSI port.
STAT XSM	Provide status of the system monitor
TTY x	Test TTY x

T1 Multipurpose Serial Digital Interface (TMDI) commands

The TMDI provides 1 port for ISDN Primary Rate D-channel (DCH) and 1 port for 1.5Mb/s Digital Trunk Interface (DTI).

The TMDI commands are listed below, **x** is the TMDI card number (defined by prompt DLOP in LD 17). These commands are provided in Link Diagnostic (LD 48) and D-channel Diagnostic (LD 96) and LD 42.

DIS TMDI x (ALL)	Disable TMDI card x (card)
ENL TMDI x (ALL, FDL)	Enable TMDI card x (card, Forced Download)
RST TMDI x	Reset TMDI card x
SLFT TMDI x	Invoke self-test for TMDI card x
STAT TMDI (x) (FULL)	Get status of TMDI card (x) (additional information)

Note: See “Alphabetical List of commands” in LD 48 for a complete description of these commands.

Alphabetical list of commands

Command	Description
CDSP	Clear the maintenance display on active CPU to 00 or blank.
CMIN	Clear the minor lamp on a system basis.
CMIN ALL	Clear minor alarm indication on all attendant consoles.
CMIN c	Clear minor alarm indication on attendant consoles for customer c. (not applicable for Release 22)
DIS MSG	Disable incoming message monitoring for the primary PMSI port.
DIS MSGO	Disable outgoing message monitoring for the primary PMSI port.
DIS MSI x	Disable Mass Storage Interface card x.
DIS PRT x	Disable printer x.
DIS TAPE x	Disable tape unit x.
DIS TTY x	Disable TTY x.
END	Clear all test activity.
ENL MSGI	Enable incoming message monitoring for the primary PMSI port.
ENL MSGO	Enable outgoing message monitoring for the primary PMSI port.
ENL MSI x	Enable Mass Storage Interface card x.
ENL PRT x	Enable printer x.
ENL TAPE x	Enable tape unit x.
ENL TTY x	Enable TTY x.

MSI x	Test Mass Storage unit x. This command runs the MSI DATA, MSI RW x and MSI SELF x tests.
MSI DATA	Test data validity in primary and backup device.
MSI RW x	Test READ/WRITE ability of Mass Storage unit x.
MSI SELF x	Perform self-test on MSI card and report result.
PRT x	Test printer x. Same as TTY test except that no keyboard input is expected and END command is not required. Where: * denotes that the printer is not yet available
SET MON 0	Set the monitoring display to be in alphanumeric format. This applies to the primary PMSI port.
SET MON 1	Set the monitoring display to be in hexadecimal format. This applies to the primary PMSI port.
STAT	Provide status of all input/output devices in system.
STAT LINK	Provide status of all CDR links.
STAT LINK x	Provide status of CDR data link x.
STAT MON	Get the monitoring status for the primary PMSI port. This command displays the status of the message monitoring for the primary port. For example, if MSGI, MSGO, and SET MON 0 are enabled, the display would be as follows. MSGI: ON MSGO: ON ALPH
STAT MSI	Provide status of all MSI cards.
STAT MSI x	Provide status of MSI card x associated with the active CPU.
STAT PRT	Provide status of all printers in system.
STAT PRT x	Provide status of printer x.
STAT TAPE	Provide status of all magnetic tape devices.

STAT TTY	<p>Provide status of all TTY devices in system.</p> <p>Release 19 and later, this command enables you to get the status of the primary PMSI I/O port, and the Single Terminal Access (STA) administration terminal.</p>
STAT TTY x	<p>Provide status of TTY x. Release 19 and later, this command also provides the status of the primary PMSI port.</p>
STAT XSM	<p>Provide status of the system monitor. If there are no error conditions, PWR000 is output. Otherwise, the appropriate PWR messages are output.</p>
TAPE x	<p>Test magnetic tape device x. This command combines the TAPE CTRL x, TAPE MOTN x, TAPE RW x and TAPE DATA tests.</p>
TAPE CTRL x	<p>Test control electronics on tape device x.</p>
TAPE DATA	<p>Test data on all 4 tracks.</p>
TAPE MOTN x	<p>Test motion and timing on tape device x.</p>
TAPE RW x	<p>Test READ/WRITE ability of tape device x.</p>
TTY x	<p>Test TTY x. Response is:</p> <pre> ABCDEFGHIJKLMNOPQRSTUVWXYZ 0123456789"#\$%*!&(<>-.: , . ? READY FOR INPUT </pre> <p>Anything entered on the keyboard will be echoed until END is input.</p>

LD 38—Conference Circuit Diagnostic

This program is used to detect and isolate circuit faults on the conference equipment in the system.

LD 38 can detect problems on the conference circuit such as:

- channel faults on the network card which interfaces a conference card to the system
- channel faults on the conference card
- conference faults associated with conferee group numbers
- switching faults controlling the attenuation feature.

The program is used to

- enable a specific conference card
- disable a specific conference card
- check status of channels and conferee groups
- clear alarms and displays

The program allows complete manual control in establishing a test conference, thus allowing the user to listen for noise and distortion. This includes:

- selection of a specific conference card
- selection of a specific conferee group
- stepping through all free channels and groups with special test conference.

Basic commands

CDSP	Clears the maintenance display on active CPU to 00 or blank
CMIN ALL	Clear minor alarm indication on all attendant consoles
CMIN c	Clear minor alarm indication on attendant consoles for customer c
CNFC loop	Test conference loop
CNFC MAN loop g	Set up for manual conference on conference group g
CNFC STEP	Ready TTY for testing conferee groups
DISL loop	Disable conference loop
DISX loop	Disable Conf/TDS/MFS card on loop and loop - 1
END	Abort all current test activity
ENLL loop	Enable conference loop
ENLX loop	Enable Conf/TDS/MFS card on loop and loop - 1
LCNF loop	List busy and disabled conferee groups on specified loop
STAT loop	Provide status of conference card loop
STAT l s c u	List conference card and group used by specified TN.

Alphabetical list of commands

Command	Description	Pack/Rel
CDSP	Clears the maintenance display on active CPU to 00 or blank.	basic-1
CMIN ALL	Clear minor alarm indication on all attendant consoles.	basic-1
CMIN c	Clear minor alarm indication on attendant consoles for customer c.	basic-1
CNFC loop	<p>Test conference loop.</p> <p>Tests conference loop for channel, group and switching faults.</p> <p>Note: Both the conference loop and the adjacent TDS/MFS loop must be enabled to run the conference test.</p>	basic-1
CNFC MAN loop g	<p>Set up for manual conference on conference group g.</p> <p>Only one manual conference is be allowed at a time. The conference group range is 1-15. After this command, any telephone dialing SPRE 93 enters the conference, where SPRE is the special service prefix for the system.</p> <p>Going on-hook from that telephone takes it out of the conference. If going On-Hook causes the conference to go from a three-party to a two-party call processing may remove all conference equipment and establish the remaining two parties as a normal call.</p> <p>The END command, which normally removes all telephones in the manual conference, will no longer affect these two telephones, as they are no longer using the conference card.</p> <p>If the CNFC MAN command is entered from a maintenance set, the telephone automatically becomes part of the manual conference.</p>	basic-1
CNFC STEP	<p>Ready TTY for testing conferee groups.</p> <p>Readies the TTY into a special command mode for testing various channels and conferee groups audibly, using two telephones: one to monitor and one to act as a signal source. The CNFC MAN command should have been used previously to set up the two-party conference.</p> <p>Entering C on the command input device will step the conference on to the next available channel.</p>	basic-1

LD 38

Entering G will step to the next available conferee group.
Entering an asterisk (*) will revert back to the normal command mode.

Entering "END" or aborting LD 38 releases the manual conference.

DISL loop	Disable conference loop. For NT8D17 Conference/TDS/MFS cards, see ENLL command.	basic-1
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DISX loop	Disable NT8D17 Conf/TDS/MFS card.	xct-15
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Disables the entire combined Conference, Tone and Digit Switch, and MF Sender (XCT) card. Both the even numbered and adjacent loop are disabled.

Where: loop = 1, 3, 5,... 159

The DISL and ENLL commands can be used on the even number loop for the conference function. However, this only prevents the loop from being used by software and does not affect the hardware status of the card. The DISX and ENLX commands are recommended. The ENLX command must be used if the DISX command was used to disable the card.

This command can be used in LD 34, LD 38 and LD 46.

END	Abort all current test activity. There will be a 30 second time-out dial tone for phones still off-hook.	basic-1
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ENLL loop	Enable conference loop.	basic-1
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For NT8D17 Conference/TDS/MFS cards the DISX and ENLX commands must be used whenever the faceplate switch of the card has been toggled. ENLL will software enable the card but the card will not be properly reset.

Enabling more than 16 conference loops may cause system to lock-up.

ENLX loop	Enable NT8D17 Conf/TDS/MFS card on loop and loop - 1.	xct-15
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Enables all functions on the NT8D17 Conference/TDS card. Both the even numbered TDS/MFS loop and adjacent conference loop are enabled.

Where: loop = 1, 3, 5... 159

If one of the loops is already enabled, it is disabled and then both loops are enabled. The Conf/TDS card is not enabled automatically when it is inserted.

This command initiates card tests, downloads software and can be used in LD 34, LD 38 and LD 46.

The DISL and ENLL commands can be used on the even number loop for the conference function. However, this only prevents the loop from being used by software and does not affect the hardware status of the card. The DISX and ENLX commands are recommended.

Enabling more than 16 conference loops may cause the system to lock-up.

LCNF loop	List busy and disabled conferee groups on specified loop.	basic-1
STAT loop	Provide status of conference card loop. Output format is: <ol style="list-style-type: none"> 1. CNFC N DSBL N BUSY = number of conferee groups disabled and busy 2. CHAN N DSBL N BUSY = number of channels disabled and busy 3. UNEQ = card is not equipped in the system 4. DSBL = card is disabled in software 	basic-1
STAT I s c u	Lists which conference card and conferee group is being used by the specified terminal number.	basic-1

LD 40, 42—Call Detail Recording Diagnostic

The Call Detail Recording (CDR) feature outputs call records to a single or multi-port tape drive storage system. The tapes are processed to produce billing reports.

The Pseudo TTY (PTY) and Call Processor (CP) cards do not support the CDR link maintenance commands (CDL, CTY) used in this Overlay. When using the STAT command in this LD, the output includes all the ports: CP and PTY.

Automatic diagnostic routines

LD 40 is run in background, during the daily routines, or automatically in response to CDR faults. It performs the following:

- CDR Link test.
- CDR Controller status report.
- CDR data transmission/loss summary.

Fault indications reported by LD 40 are cleared after their corresponding CDM message is output. Faults in a multi-port CDR Tape Controller are reported to all Meridian 1/Meridian SL-1 systems connected to the controller. The fault records kept for each Meridian 1/Meridian SL-1 are maintained and cleared independently of each other by the controller.

Loading LD 40 manually runs the automatic fault-clearing routines. Also, similarly to LD 42, the “CDMA loaded today” flag which prevents LD 40 from being automatically loaded more than once a day are cleared. Thus, manually loading LD 40 or 42 allows faults detected in the afternoon to be reported, even though previous faults may have been detected and cleared in the morning.

To run CDMA in background, you must reload LD 40 after a trouble has been cleared using LD 42. CDM117 X 3 is printed after LD 40 has been reloaded, where X is the Meridian 1/Meridian SL-1 link or port number. This reload is required so that the Meridian 1/Meridian SL-1 can react again as soon as another error is detected.

CDR maintenance mode and commands

Use LD 42 to:

- enable/disable/give status of CDR links and TTY
- perform diagnostic tests on CDR machines
- perform manual tape functions on CDR machines
- clear alarms and the maintenance display
- clear the maintenance display of CDR machines
- clear “CDMA loaded today” flags

The CDR storage system is put into maintenance mode to test the tape drive. While in maintenance mode, call records are saved in tape buffers. When all the buffer space is used up, incoming call records are lost. An 8K CDR machine can buffer about 600 call records; a 32K CDR can retain about 2500. Use the BUFF command to write the buffer contents to tape or output it to the I/O device.

Enter maintenance mode

- 1 Load CDM (LD 42).
- 2 Issue the PORT command to specify the CDR port.
- 3 Issue the GET command to put the CDR into maintenance mode.

GET sends the “Request Maintmode” message to CDR and waits for CDR to grant MAINTMODE, which CDR will not do until it is finished its current activity on the drive.

When CDR grants Maintenance Mode, it also makes available a tape buffer for the use of the read/write and RBC functions. This buffer may be loaded with data by using the LOAD command and the contents can be output onto the TTY by using the BUFF command without indicating which buffer to output (it defaults to the active maintenance buffer).

Exit maintenance mode

To ensure that CDR does not stay in maintenance mode forever, CDR starts a 30 second timer whenever it receives a request for maintenance mode. If this timer expires, CDR resets maintenance mode. To prevent this, CDM sends a message every 5 seconds to keep the CDR in maintenance mode.

If CDM does not send the message in time, CDR will reset maintenance mode and a CDM017 message will appear to indicate that maintenance mode has been lost. Pressing the UNLOAD button on CDR will also cancel maintenance mode.

The CDR may also be released from maintenance mode using the FREE command. When CDR leaves maintenance mode it returns to the state it was in before it entered maintenance mode. That is, if it was in a state in which it would not attempt to write on the drive, it will still not try to use the drive.

However, if it was using the drive before it entered the maintenance mode, it will use one of two methods to return to using the drive:

- If it left maintenance mode because of a time-out, it will rewind to LP and search for the first tape mark to locate the place where it should begin writing.
- If the FREE command was used to release it from maintenance mode, it will begin writing on the tape wherever the tape is. Thus, the tape should be left at the same point it was before maintenance mode was entered.

Ensure tape integrity

The following procedure is recommended to ensure tape integrity if manual tasks are to be performed on the drive using CDM:

- 1 UNLOAD the call recording tape from the drive.
- 2 Mount a scratch tape and put the drive on line but do not use any of the CDR pushbuttons. Call records are now being stored in tape buffers so this should only be done at low traffic periods.
- 3 Use CDM to issue the PORT and GET commands.
- 4 Perform tests using manual functions.
- 5 Issue the FREE command.
- 6 UNLOAD the scratch tape.
- 7 Remount the call-recording tape and press RESTORE to get the tape to the proper position for writing. If the tape is nearly full, a new call recording tape might be loaded instead to save time.

Verify proper recording

To verify that call records are being properly recorded on tape, the following procedure may be used:

- 1 Issue the PORT and GET commands to go into maintenance mode.
- 2 Issue the FUNC BKSP 1 command to position the tape just before the most recently written block.
- 3 Issue the FUNC READ command to read the most recently written block.
- 4 Issue the BUFF command to output the contents of the maintenance buffer on your I/O device.
- 5 Issue FREE to release the drive from maintenance mode.

This procedure may be modified easily to allow the checking of tape blocks older than the most recent. Extreme caution is advised, however, as it is easy to lose track of where the tape is positioned.

If it is suspected that the tape may not be positioned just after the last data block on tape when the FREE command is about to be issued, simply abort the program (****). This will cause the CDR machine to time out from maintenance mode after 30s, after which CDR will automatically restore tape position so that data recording can continue normally.

Basic commands

BLOC	Output hexadecimal contents of CDR tape block
BUFF	Output contents of CDR maintenance mode buffer
BUFF x	Output contents of tape buffer x
CCDS x	Clear maintenance display of CDR on link x
CDSP	Clear the maintenance display on active CPU to 00 or blank
CMIN AL	Clear minor alarm indication on all attendant consoles
CMIN c	Clear minor alarm indication on attendant consoles for customer c
DIS LINK x	Disable device on link x
DIS SL1 x	Disable CDR device x
DIS TTY x	Disable device x
DISP pg addr cnt	Display CDR storage
ECHO x y	Perform echo test on link x, y times
END	Terminate command in progress
ENL LINK x	Enable link x
ENL SL1 x	Enable SL-1 machine connected to CDR link x
ENL TTY x	Enable TTY x
FREE	Release CDR from maintenance mode
FUNC function	Initiate specified tape drive function
GET	Put CDR tape unit into maintenance mode
LOAD xxxx	Set buffer for a WRITE
PORT	Reset port
PORT x	Set up links for commands to follow
STAT x	Get status of SDI x
STAT SL1 ALL, x	Get status of one or all CDR ports
STOR pg addr	Alter CDR storage information
TEST x	Write x sets of test records to tape

Alphabetical list of commands

Command	Description	Pack/Rel
BLOC	Output hexadecimal contents of CDR tape block.	clnk-1
BUFF	Output contents of CDR maintenance mode buffer.	clnk-1
BUFF x	Output contents of tape buffer x. For a single port CDR machine, $0 < x < 6$. For a 32K machine, $0 < x < 29$. The contents of the buffer may change while it is being output.	clnk-1
CCDS x	Clear maintenance display of CDR on link x.	clnk-1
CDSP	Clear the maintenance display on active CPU to 00 or blank.	clnk-1
CMIN ALL	Clear minor alarm indication on all attendant consoles.	clnk-1
CMIN c	Clear minor alarm indication on attendant consoles for customer c.	clnk-1
DIS LINK x	Disable device on link x.	clnk-1
DIS SL1 x	Disable CDR device x. This command should be issued before disconnecting another SL-1 machine from a multi-port CDR machine. DIS SL-1 x is the inverse of ENL SL-1 x. The commands may NOT be used to disable the SDI port currently being used by the CDM program; i.e., "you can't disable yourself." The enabled/disabled status of a SL-1 port in a multi-port CDR machine is maintained by the CDR machine only. If the CDR machine initializes for any reason - such as a power failure - then the enabled/disabled status of each SL-1 port is set according to whether the physical SDI device responds. For this reason, the enabled/disabled status of a SL-1 port in a multi-port CDR machine should not be considered trustworthy over extended periods of time.	clnk-1

LD 40, 42

Note also that disabling a SDI port in the CDR using the DIS SL-1 x command causes the report "SL1 x DSBL <type> SOFT" to be given by STAT SL1 x. This status indication remains even after the SDI pack has been physically pulled out, until the next CDR initialization.

DIS TTY x Disable device x. You may not disable the TTY you are logged into. clnk-1

DISP pg addr cnt Display CDR storage. Where: clnk-1

pg = memory page 0, 2 or 3.

cnt = the number of words to output. If cnt is not entered, one word will be output. No checking is performed on the validity of the address. If an invalid address is provided, the CDR machine will trap with a response time-out.

This command can be used to continue printing buffer contents, if time-out or transmission error occurs using the BUFF x command, rather than reissuing BUFF x and starting from the beginning again. In this case, the command is: DISP O addr 100

addr = given by the last 4-digit hexadecimal code preceding the colon in the last printed line.

ECHO x y Perform echo test on link x, y times. clnk-1

A test pattern is sent to the CDR machine and the machine echoes it back. OK is output if a successful response indicates a fault-free link. If y is not provided, the test is performed once only.

END Terminate command in progress. This command may be output at any time. clnk-1

ENL LINK x Enable link x. The specified link is checked for response and stuck interrupt. OK is output and the link enabled if the tests are passed. clnk-1

ENL SL1 x Enable SL-1 machine connected to CDR link x. clnk-1

This command is only valid for multi-port CDR machines. It enables new SL-1 machines connected to the CDR machine to communicate with the CDR, without interruption of service to existing SL-1 machines.

ENL TTY x	<p>Enable TTY x.</p> <p>The specified TTY is checked for response and stuck interrupt. OK is output and the TTY is enabled once the tests are passed.</p>	clnk-1
FREE	<p>Release CDR from maintenance mode.</p> <p>If the CDR tape drive is enabled, then the next tape block that CDR has to write will be written wherever the tape was left. Thus, if the FUNC command was used on a tape which is to contain valid CDR data, it is imperative that the user reposition the tape to the same position that CDR had it before the FUNC command was used.</p>	clnk-1
FUNC function	<p>Initiate specified tape drive function. Initiates the specified function on the tape drive.</p> <p>“Function” may be one of:</p> <ol style="list-style-type: none"> 1. STAT = status function 2. WID = write ID burst function 3. WTM = write tape mark 4. WFB = write contents of the maintenance tape buffer 5. READ = read block into maintenance buffer 6. RBC = perform read back check into maintenance buffer 7. SKIP x = skip x blocks in hexadecimal number 8. ERG = erase gap 9. ERAS = erase to end of tape 10. BKSP x = backspace x blocks in hexadecimal number 11. REW = rewind 12. UNL = unload 13. TERM = terminate <p>These commands correspond to the primitive tape functions supported by the CDR tape handler firmware. The FUNC STAT command causes the tape status to be printed at the TTY.</p> <p>The tape status is the first word printed in response to the BLOC command and is the “status” field of a CDM122 error message. If the “unexpected interrupt” bit in the tape status is ON, a word corresponding to the “unexpected” field in a CDM122 message is printed.</p>	clnk-1

LD 40, 42

GET	<p>Put CDR tape unit into maintenance mode.</p> <p>When CDR is in this mode, it will not initiate any tape functions of its own. A tape buffer will be allocated for CDM to use for tape functions. Only one SL-1 system may put the CDR into maintenance mode at one time. See the description of maintenance mode.</p>	clnk-1
LOAD xxxx	<p>Set buffer for a WRITE.</p> <p>The hexadecimal digits xxxx are propagated through the tape buffer allocated for maintenance mode. The command is used to set the buffer for a WRITE.</p>	clnk-1
PORT	<p>Reset port.</p> <p>Resets the port so that no port is active. Enter the following commands only after a PORT command, and only from a TTY:</p> <p>DISP STOR BLOC TEST x BUFF (continued on next page) BUFF x GET LOAD xxxx FUNC FREE ENL SL-1 x DIS SL-1 x STAT SL-1 x</p>	clnk-1

PORT x	<p>Sets the links to which the following commands will apply. This command may only be entered from a TTY. Take care when using the following commands with PORT or PORT x, as the CDR may trap data or write erroneous data to tape.</p> <p>DISP STOR BLOC TEST x BUFF BUFF x GET LOAD xxx FUNC FREE ENL SL-1 x DIS SL-1 x STAT SL-1 x</p>	clnk-1
STAT	<p>Lists all SDI packs and specifies whether they are dedicated to data links or TTY; enabled or disabled. Output is:</p> <p>SDI x <tty/link> <enbl/dsbl><messages> <naks> <time-outs> <lost></p> <p>If the device is an enabled link, then the number of messages sent, the number of transmission errors and the number of lost call records are also output. See error code CDM121 for a description of the <> fields.</p>	clnk-1
STAT SL1 ALL, x	<p>Get status of one or all CDR ports. This command is used to output the status of ports in multiport CDR machines.</p> <p>The format of the output is: <code>status type mode</code></p> <p>Where:</p> <p><code>status</code> = UNEQ (unequipped), DSBL (Disabled) or ENBL (enabled)</p> <p><code>type</code> = SNGL (single-port SDI) or DUAL (dual-port SDI)</p> <p><code>mode</code> = May be IDLE (normal idle), BUSY (normal busy), SOF (software-disabled), NOIS (disabled for too many interrupts), STUC (disabled for stuck interrupt condition) or EIA (disabled for having EIA device not ready)</p>	clnk-1

LD 40, 42

STAT x	<p>Get status of SDI x. Output is:</p> <p><tty/link> <enbl/dsbl/uneq> <messages> <naks> <time-outs> <lost></p> <p>See error code CDM121 for a description of the <> fields.</p>	clnk-1
STOR pg addr	<p>Alter CDR storage information.</p> <p>The old contents of the location is output and the user is prompted for the new contents. After entering the new contents, enter a space or carriage return.</p> <p>If a carriage return is entered, the command ends. If a space is entered, the contents of the next location are output and the user is prompted for input. If only the carriage return or space is entered (i.e., the new contents are not input), then the current word is not modified. If an invalid address is provided, CDR will response time-out.</p>	clnk-1
TEST x	<p>Write x sets of test records to tape.</p> <p>Before using this command, refer to the description of the maintenance mode prior to this table. If x is not given, the default is 1.</p> <p>As this command writes to tape, a scratch tape should be mounted before the command is executed. PORT and GET commands must be issued before this command can be used.</p> <p>Twenty blocks of data are written to the tape, then the tape is rewound and read to check the data. The number of errors found is output using a CDM035 message.</p>	clnk-1

LD 43—Equipment Datadump

This program is used to keep data on the system storage device up to date. When the datadump program is invoked, data in the read/write memory (including any that has been changed or added) is written to the storage device at the location reserved for it.

The program can be invoked daily as part of the daily routines or loaded manually. An incremental datadump occurs during the daily routines if database changes have been made.

When the datadump fails

In the event of an unsuccessful initial dump, the office data on the tape or disk is suspect. Another datadump with spool option should be done on the same tape or disk; if successful, a transient error is indicated and normal procedures can be resumed. If this second attempt also fails, DO NOT attempt another datadump until the fault is isolated and corrected.

If the storage medium is not proved faulty and the storage device appears serviceable, datadumping to an OLD device, if available, may help to pinpoint the problem.

Except during the troubleshooting phase, storage medium which has failed to datadump successfully must not be left in the storage device. Should a SYSLOAD occur with such a storage medium, the load may terminate abnormally with unpredictable results.

Low memory warning

Unprotected data store equal in size to the length of the records being written (i.e., 512 words) must be available to the datadump program.

A low memory warning message (SCH603) is issued when spare unprotected data store falls below a given threshold. Once this warning message has been issued, it is not possible to perform a datadump as the system requires spare unprotected data store equivalent to the size of a record on the storage medium (i.e., 512 words).

Users should ensure that these amounts of spare unprotected data store are available before attempting to perform a datadump.

Basic commands

BKO	Copy data from primary to backup device
DAT	Print the data issue and creation date of the primary and backup database
EDD	Invoke datadump program
EDD CLR	Clear datadump inhibit flag
EDD CN	Save CND names (use prior to datadump)
EDD HM	Save AWU, RMS and MR data (prior to dump)
EDD NBK	Inhibit database backup
EDD SA	Complete data dump and bypass software audit
PBX CF6 (ALLOWED)	Bit dumped with PBX data block
RES	Copy entire contents of backup to primary device
SWP	Swap (exchange) main and “.bak” data files on the primary flash drive

Alphabetical list of commands

Command	Description
BKO	Copy data base from primary device (Winchester disk) to backup device (floppy disk). BKO is applicable to systems with hard disk storage.
DAT	Print the creation date of the main, secondary, or backup database.
EDD	Invoke datadump program
EDD CLR	Clear datadump inhibit flag This flag is set because SYSLOAD or the conversion programs detect incomplete or inconsistent equipment data. Exercise caution since the use of this option may result in incorrect data being written.
EDD CN	Save CND names. EDD CN saves the names associated with DNs for Caller's Name Display. Use Prior to datadump.
EDD DP xx xx xx...	Dump patch Customer data and the specified patches (xx xx...xx) are dumped onto disk. If no patch numbers are specified, then only customer data is dumped.
EDD GP	Get patches
EDD IWC	Inhibits write check. Caution: for Emergency Use Only. Inhibits write check. This command is useful when the standard commands for datadump fail and end-of-file cannot be found. It writes an end-of-file on tape and allows other commands to be invoked.
EDD NBK	Inhibit database backup. Indicates that a database backup should not be done after a datadump. (Applicable to hard disk storage with floppy disk backup). This command invokes a data dump and writes entered data to primary and internal backup drives.

EDD NS	<p>Inhibit tape far-end spool.</p> <p>Tape will not spool to the far-end and will not perform write test. Default option is SP. Overlay program cannot be aborted until writing has either been completed or has failed.</p> <p>This command applies to systems equipped with tape units.</p>
EDD NX	<p>Writes tape data records consistent in size with predefined system values. Default option is NX.</p>
EDD SA	<p>This command is used to complete the data dump and bypass the software audit of Peripheral Controller and superloop data.</p>
EDD SP	<p>Spool tape to far-end. This command applies to systems equipped with tape units.</p> <p>Spools tape to the far-end in order to even the tension on the tape. Also writes a test record after the end of existing data to check for any write problems. If errors occur during test, data should remain intact.</p>
PBX CF6 (ALLOWED)	<p>Bit dumped with PBX data block.</p>
RES	<p>Copy entire contents of backup device to primary device.</p> <p>The RES command may be entered to restore files to the primary device from the external backup device.</p>
SWP	<p>Exchange (swap) main and secondary database files. A sysload is required for the swap to take effect.</p>

LD 44—Software Audit

The audit program (LD 44) monitors system operation and provides an indication of the general state of system operation. The program is concerned mostly with the system software. When a software problem is encountered, the program outputs an AUD message and attempts to clear the problem automatically.

Running software audit

The Audit program is enabled as a Background Program or Daily Routine in the configuration record. See prompts BKGD and DROL in LD 17. To load the Audit program manually, enter:

LD 44

R **x**

Where, **x** is the number of audit passes required.

Enter 0 for continuous auditing. R and **x** must be separated by a space or the system responds with:

```
AUD REQ ERR.  
AUDIT
```

The Meridian Mail MP data base audit (co-administration) is run during Audit if a data base mismatch is known by the system, or if it is being run manually.

LD 44

Page 552 of 848 LD 44—Software Audit

LD 46—Multifrequency Sender Diagnostic for ANI

This program is used to maintain the Multifrequency Sender card. The Multifrequency Sender pack provides multifrequency signals of Automatic Number Identification (ANI) digits over Centralized Automatic Message Accounting (CAMA) trunks to a toll switching CAMA, Traffic Operator Position System (TOPS) or Traffic Service Position System (TSPS).

The MFS diagnostic program can be run in background, during the daily routines, or manually to enter commands. It performs the following tests:

- checks that the MF Sender pack responds to system I/O functions
- tests the 30-channel memory locations, the 480 (30 x 16) digit buffer memory locations and the 64 First-in, First-out locations
- exercises all 15-digit codes with digit strings from 2 to 16 digits long and verifies both the 68 ms pulse width and whether each string outpulses to completion

No check is possible on MFS frequencies used in each tone burst due to the lack of receivers in the system. Also, no check can be made as to whether the correct digits are being outpulsed.

Basic commands

CDSP	Clear the maintenance display on active CPU to 00 or blank
CMAJ	Clear major alarm and reset power fail transfer
CMIN	Clear the minor lamp on a system basis
CMIN ALL	Clear minor alarm indication on all attendant consoles
CMIN c	Clear minor alarm indication on attendant consoles for customer c (not applicable for Release 22)
DISL loop	Disable MFS loop
DISX loop	Disable Conf/TDS/MFS card on loop and loop + 1
END	Stop all current testing
ENLL loop	Enable loop
ENLX loop	Enable Conf/TDS/MFS card on loop and loop + 1
MFS loop	Test and enable MFS loop
STAT loop	Get status of MFS loop
TONE loop	Enter input mode to provide MF tone bursts
TONE loop ALL	Provide MF tone bursts for all digits on specified loop

Alphabetical list of commands

Command	Description	Pack/Rel
CDSP	Clear the maintenance display on active CPU to 00 or blank.	basic-1
CMAJ	Clear major alarm, reset power fail transfer and clear power fault alarm.	basic-1
CMIN	Clear the minor lamp on a system basis.	alarm_filter-22
CMIN ALL	Clear minor alarm indication on all attendant consoles.	basic-1
CMIN c	Clear minor alarm indication on attendant consoles for customer c. (not applicable for Release 22)	basic-1
DISL loop	Disable MFS loop. For NT8D17 Conference/TDS/MFS cards, see ENLL command.	basic-1
DISX loop	<p>Disable NT8D17 Conference/TDS/MFS card on loop and loop + 1.</p> <p>Disables the entire combined Conference, Tone and Digit Switch, and MF Sender (XCT) card. Both the even numbered TDS/MFS loop and adjacent conference loop are disabled.</p> <p>Where: loop = 0, 2, 4, . . . 158</p> <p>The DISL and ENLL commands can be used on the even number loop for the TDS/MFS functions. However, this only prevents the loop from being used by software and does not affect the hardware status of the card.</p> <p>The ENLX and DISX commands are recommended. The ENLX command must be used if the DISX command was used to disable the card.</p> <p>This command can be used in LD 34, LD 38 and LD 46.</p>	xct-15
END	Stop all current testing.	basic-1
ENLL loop	<p>Enable loop.</p> <p>For NT8D17 Conference/TDS/MFS cards the DISX and ENLX commands must be used whenever the faceplate switch of the card has been toggled. ENLL will software enable the card but the card will not be properly reset.</p>	basic-1

LD 46

ENLX loop	<p>Enable NT8D17 Conference/TDS/MFS card on loop and loop + 1.</p> <p>Enables all functions on the NT8D17 Conference/TDS card. Both the even numbered TDS/MFS loop and adjacent conference loop are enabled. Where: loop = 0, 2, 4 . . . 158</p> <p>If one of the loops is already enabled, it is disabled and then both loops are enabled. Enabling more than 16 conference loops may cause system to lock-up.</p> <p>This command initiates card tests, downloads software and can be used in LD 34, LD 38 and LD 46.</p> <p>The DISL and ENLL commands can be used on the even number loop for the TDS/MFS functions. However, this only prevents the loop from being used by software and does not affect the hardware status of the card. The ENLX and DISX commands are recommended.</p> <p>The Conf/TDS card is not enabled automatically when it is inserted.</p>	xct-15
MFS loop	Test and enable MFS loop.	basic-1
STAT loop	<p>Get status of MFS loop. Response is:</p> <p>LOOP UNEQ—loop is unequipped</p> <p>LOOP DSBL—loop is disabled</p> <p>CHAN yy—number of channels busy</p> <p>xx DSBL yy BUSY—number of channels disabled & busy</p> <p>NOT MFS—loop is not an MFS loop</p>	basic-1
TONE loop	Enter input mode to provide MF tone bursts.	basic-1
TONE loop ALL	<p>Provide MF tone bursts for all digits on specified loop (1 to 9, 0, 11 to 15, in that order).</p>	basic-1

LD 48—Link Diagnostic

The Link Diagnostic program is used to maintain data links used with various special features and auxiliary data links. A maintenance telephone cannot use LD 48.

Automatic Call Distribution Links

When equipped with the Automatic Call Distribution (ACD) feature, the Meridian 1/Meridian SL-1 is supplemented with an Auxiliary Data Store (ADS) minicomputer system. The auxiliary data processor is located external to the Meridian 1/Meridian SL-1 and is connected via a high-speed link and a low-speed link.

The high-speed link is used for transmission of ACD-related messages between the Meridian 1/Meridian SL-1 and the auxiliary processor; the low-speed link is used for transmission of maintenance/error messages between the maintenance TTY (connected to the Meridian 1/Meridian SL-1) and the auxiliary processor.

Note: When enabling a high-speed link (using the command “ENL HSL” or “ENL SDI HIGH” in LD 48), the craftsperson must log out of the TTY to receive a message from the switch which confirms that the high-speed link (HSL) has been enabled.

Each Auxiliary Processor Link (APL) consists of a single Serial Data Interface (SDI) port connected via an interface cable to an interface port on the auxiliary processor.

ACD High speed and low speed link monitor

The ACD monitor diagnoses messages which flow across the link. This tool is useful to someone experienced with message formats and protocols.

APL monitor

The APL monitor is a tool used to diagnose the messages flowing across the link. This is only useful for someone experienced with the message formats and protocols.

Integrated Messaging System Links

The link maintenance capabilities provided for Integrated Messaging System (IMS) and Integrated Voice Messaging System (IVMS) links allow the link to be disabled/enabled and put into the maintenance mode.

The link software/hardware status can also be displayed. The program allows the craftsman to request that the printouts of all packed and/or unpacked messages be sent over a specified APL link.

Using print options (packed/unpacked messages) and observing the patterns of messages sent over the link, the most probable fault location (AUX, Meridian 1/Meridian SL-1 or SDI cable) can be determined.

Command and Status Links (CSL)

The Command and Status Link is an application protocol used for communication between the Meridian 1/Meridian SL-1 CPU and an external Value Added Server such as the Meridian Mail MP. The CSL runs on an Enhanced Serial Data Interface (ESDI) card.

In addition to the tests in LD 48, resident firmware diagnostics for the CSLs and ESDIs can output CSA, ESDA, ESDI error messages.

T1 Multipurpose Serial Digital Interface (TMDI) commands

The TMDI provides 1 port for ISDN Primary Rate D-channel (DCH) and 1 port for 1.5Mb/s Digital Trunk Interface (DTI).

The TMDI commands are listed below, **x** is the TMDI card number (defined by prompt DLOP in LD 17). These commands are provided in Link Diagnostic (LD 48) and D-channel Diagnostic (LD 96) and LD 42.

DIS TMDI x (ALL)	Disable TMDI card x (card)
DIS TMDI x u	Disable TMDI card x unit u
ENL TMDI x (ALL, FDL)	Enable TMDI card x (card, Forced Download)
ENL TMDI x u	Enable TMDI card x unit u
RST TMDI x	Reset TMDI card x
SLFT TMDI x	Invoke self-test for TMDI card x
STAT TMDI (x) (FULL)	Get status of TMDI card (x) (additional information)

Application Module Link (AML)

An Application Module Link (AML) provides a connection to applications such as Meridian Link. The AML is configured on an Enhanced Serial Data Interface (ESDI).

AML/CSL monitor

The AML monitor is a tool used to diagnose the messages flowing across the link. This is only useful for someone experienced with the message formats and protocols.

Voice Mailbox Administration (VMBA)

Voice Mailbox Administration (VMBA) and Meridian Mail 9. It allows for Integrated Voice Mailbox Administration.

Basic commands

Table of contents

Section	Page
Basic commands	page 561
ACD High speed and low speed link commands	page 564
ACD High speed and low speed link monitor commands	page 564
AML commands	page 565
AML over Ethernet (ELAN) commands	page 565
AML/CSL monitor commands	page 566
Auxiliary Processor Link (APL) commands	page 568
APL monitor commands	page 568
Voice Mailbox Administration (VMBA) commands	page 570

Basic commands

ACMS x	Automatic set-up for Command and Status link x
CMIN ALL	Clear minor alarm indication on all attendant consoles
CMIN c	Clear minor alarm indication on attendant consoles for customer c
CON ESDI x	Set up link layer of HDLC protocol
DIS AML x	Disable AML x
DIS AML x AUTO	Disable AUTO recovery on AML x (MSDL only)
DIS AML x LYR2	Disable layer two on AML x
DIS AML x LYR7	Disable layer seven on AML x
DIS AML x MDL	Disable MDL error reporting on AML x (MSDL only)
DIS AML x MON	Disable monitor on AML x (MSDL only)
DIS APL x	Put software AUX link x in maintenance mode
DIS CMS x	Disable Command and Status link x
DIS ESDI x	Disable ESDI x
DIS HSL	Disable the high-speed link
DIS ISDI x	Disable hardware AUX link SDI x
DIS MON	Disable the monitor-bit of high-speed link data
DIS MSDL x (ALL)	Disable MSDL device x
DIS MSGI x	Disable the MSGI option
DIS MSGO x	Disable the MSGO option
DIS PACI x	Disable the PACI option
DIS PACO x	Disable the PACO option
DIS PPRT x	Disable packet message print option on link x
DIS PRNT	Disable the print-bit of high-speed link data
DIS SDI HIGH	Disable the SDI port for high-speed link
DIS SDI LOW	Disable the SDI port for low-speed link
DIS STA x	Disable the STA application.
DIS UPRT x	Disable unpack message print on AUX link x
DSC ESDI x	Disconnect the link
ENL AML x	Enable AML x
ENL AML x ACMS	Enable automatic set-up on AML x (ESDI only)
ENL AML x AUTO	Enable AUTO recovery on AML x (MSDL only)
ENL AML x FDL	Force download loadware to the MSDL card and enable AML x
ENL AML x LYR2	Enable layer two on AML x
ENL AML x LYR7	Enable layer seven on AML x
ENL AML x MDL	Enable MDL error reporting on AML x (MSDL only)

ENL AML x MON	Enable monitor on AML x (MSDL only)
EST AML x	Establish layer two on AML x
ENL APL x	Put software AUX link x in non-maintenance mode
ENL CMS x	Enable CSL x
ENL ESDI x	Enable ESDI x
ENL HSL	Enable the high-speed link
ENL ISDI x	Enable AUX link SDI x
ENL MON	Print software information at maintenance TTY
ENL MSDL x (ALL, FDL)	Enable MSDL device x
ENL MSGI x	Print incoming messages from link x
ENL MSGO x	Print outgoing messages from link x
ENL PACI x	Print incoming messages from link x
ENL PACO x	Print outgoing messages from link x
ENL PPRT x	Enable packet message print option on link x
ENL PRNT	Connect high-speed link to TTY
ENL SDI HIGH	Enable SDI port for high-speed link
ENL SDI LOW	Enable SDI port for low-speed link
ENL UPRT x	Enable unpacked message print on link x
ENLX MSGI x p	Output incoming priority p messages from link x
ENLX MSGO x p	Output outgoing priority p messages from link x
ENL STA x (FDL)	Enable STA application. The MSDL card must be enabled to implement this command.
MAP AML (x)	Get physical address and card name of one or all AMLs
MAP STA x	Get information relating to the STA application.
RLS AML x	Release layer two on AML x
RSET ALL	Stop printing all messages on a line card
RSET BRIM	Stop printing of messages on SILC/UILC, MISP or digital line card
RSET IFx 1 PDL2 1	Stop printing SAPI 16 interface messages.
RSET IFx 1 PDNI n	Stop printing network interface messages.
RSET IFx l s c u BCH x	Stop printing B-channel terminal interface messages.
RSET IFx l s c u DCHx	Stop printing D-channel terminal interface messages.
RESET IMSG l s c dsl	Disable monitoring on incoming
RSET MISP loop AMO	Stop MISP printing of audit messages on MISP card
RSET MISP loop DGB	Exit MISP debug
RSET MISP loop MNT	Stop MISP printing of status messages on MISP card
RSET MISP loop MON	Stop printing of input/output messages on MISP card
RSET MPH M	Stop all Meridian Packet Handler message monitoring.
RSET OMSG l s c dsl	Disable monitoring on outgoing

RSET TNx	Stop printing messages on an ISDN BRI line card
RST MSDL x	Reset MSDL device x
SET IMSG l s c dsl MON x	Set monitor on incoming msg
SET OMSG l s c dsl MON x	Set monitor on outgoing msg
SETM BRIM xxxx	Set printing of messages on SILC/UILC, MISP or digital line card
SETM IFx 1 PDL2 1	Set printing of SAPI 16 interface messages
SETM IFx 1 PDNI n	Set printing of network interface messages.
SETM IFx l s c u BCHx	Set printing of B-channel terminal interface messages.
SETM IFx l s c u DCHx	Set printing of D-channel terminal interface messages.
SETM MISP loop AMO	Set printing of audit messages on MISP card
SETM MISP loop DBG	Set debug option on MISP card
SETM MISP loop MNT	Set printing of status messages on MISP card
SETM MISP loop MON	Set printing of input/output messages on MISP card
SETM MPHx xxxx	Set printing of Meridian Packet Handler messages. Where: xxxx = the MPHs to be monitored
SETM TNx l s c u, 31	Set printing messages on a digital line card unit (u) or ISDN BRI line card (31)
SETM TNx l s c u, dsl	Set printing messages on a unit
SLFT AML x	Invoke self-test for AML x
SLFT ESDI x	Invoke ESDI and run self-test
SLFT MSDL x	Invoke self-test for MSDL device x
STAT AML (x)	Get AML status
STAT APL x	Display status of AUX link x
STAT CMS x	Get status of Command and Status link x
STAT CNFG	Get status of link monitor/simulator configuration
STAT CSDI x	Get status of SDI port x
STAT DSP LNK x	Get status of all Displays on link x
STAT ESDI x	Get status of ESDI x
STAT HSL	Get high-speed link status
STAT ISDI x	Get status of hardware AUX link SDI x
STAT LSL	Get low-speed link status
STAT MON (x)	Get status of one or all message monitors
STAT MSDL (x [FULL])	Get MSDL status
STAT SDI HIGH	Get status of high-speed link port
STAT SDI LOW	Get status of low-speed link port
STAT STA x	Get status of STA application.
SWCH AML x y	Switch active (x) and standby (y) AML
SWCH CMS x y	Switch active (x) and standby (y) CSL
UPLD AML x TBL x	Upload parameter Table 1 to 4 from AML x (MSDL only)

ACD High speed and low speed link commands

The following commands are used to enable, disable, test and check the status of an APL link.

Note: When enabling a high-speed link (using the command “ENL HSL” or “ENL SDI HIGH” in LD 48), the craftsperson must log out of the TTY to receive a message from the switch which confirms that the high-speed link (HSL) has been enabled.

DIS HSL	Disable the high-speed link
DIS SDI HIGH	Disable the SDI port for high-speed link
DIS SDI LOW	Disable the SDI port for low-speed link
ENL HSL	Enable the high-speed link
ENL SDI HIGH	Enable SDI port for high-speed link
ENL SDI LOW	Enable SDI port for low-speed link
STAT HSL	Get high-speed link status
STAT LSL	Get low-speed link status
STAT SDI HIGH	Get status of high-speed link port
STAT SDI LOW	Get status of low-speed link port

ACD High speed and low speed link monitor commands

The monitor is a tool used to diagnose the messages flowing across the link. This is only useful for someone experienced with the message formats and protocols.

DIS MON	Disable the monitor-bit of high-speed link data
DIS PRNT	Disable the print-bit of high-speed link data
ENL MON	Print software information at maintenance TTY
ENL PRNT	Connect high-speed link to TTY
STAT MON (x)	Get status of one or all message monitors

AML commands

The AML commands are listed below, where **x** is the AML logical device number (defined by prompt ADAN in LD 17). Some of these commands only apply to AMLs on an MSDL card.

DIS AML x	Disable AML x
DIS AML x AUTO	Disable AUTO recovery on AML x (MSDL only)
DIS AML x LYR2	Disable layer two on AML x
DIS AML x LYR7	Disable layer seven on AML x
DIS AML x MDL	Disable MDL error reporting on AML x (MSDL only)
DIS AML x MON	Disable monitor on AML x (MSDL only)
ENL AML x	Enable AML x
ENL AML x ACMS	Enable automatic set-up on AML x (ESDI only)
ENL AML x AUTO	Enable AUTO recovery on AML x (MSDL only)
ENL AML x FDL	Force download loadware to the MSDL card and enable AML x
ENL AML x LYR2	Enable layer two on AML x
ENL AML x LYR7	Enable layer seven on AML x
ENL AML x MDL	Enable MDL error reporting on AML x (MSDL only)
ENL AML x MON	Enable monitor on AML x (MSDL only)
EST AML x	Establish layer two on AML x
MAP AML (x)	Get physical address and card name of one or all AMLs
RLS AML x	Release layer two on AML x
SLFT AML x	Invoke self-test for AML x
STAT AML (x)	Get AML status
SWCH AML x y	Switch active (x) and standby (y) AML
UPLD AML x TBL x	Upload parameter table 1 to 4 from AML x (MSDL only)

AML over Ethernet (ELAN) commands

DIS ELAN	Disable ELAN (server task)
DIS ELAN x	Disable ELAN link number x (client task)
ENL ELAN	Enable ELAN (server task)
STAT ELAN	Check status of all configured ELANs
STAT ELAN	Check status of ELAN x

AML/CSL monitor commands

The AML monitor is a tool used to diagnose the messages flowing across the link. This is only useful for someone experienced with the message formats and protocols. These commands apply to CSLs or AMLs on ESDI cards and AMLs on MSDL cards.

DIS MSGI x	Disable output of incoming layer seven messages on AML x
DIS MSGO x	Disable output of outgoing layer seven messages on AML x
DIS PACI x	Disable output of incoming layer two messages on AML x
DIS PACO x	Disable output of outgoing layer two messages on AML x
DISM MSGI <link#><msg1><msg2>...	Disable message input/output monitoring excluding those specified incoming messages
DISM MSGO <link#><msg1><msg2>...	Disable message input/output monitoring excluding those specified outgoing messages
DSIM MSGI <link#>	Disable inclusive incoming message monitoring
DSIM MSGO <link#>	Disable inclusive outgoing message monitoring
DSIP MSGI <link#><pri><pri>...	Disable monitoring of inclusive priorities on incoming messages
DSIP MSGO <link#><pri><pri>...	Disable monitoring of inclusive priorities on outgoing messages
DSIT MSGI <link#><l><s><c><u>	Disable inclusive TN incoming message monitoring
DSIT MSGO <link#><l><s><c><u>	Disable inclusive TN outgoing message monitoring
DSXP MSGI <link#><pri><pri>...	Disable monitoring of exclusive priorities on incoming messages
DSXP MSGO <link#><pri><pri>...	Disable monitoring of exclusive priorities on outgoing messages
DSXT MSGI <link#><l><s><c><u>	Disable exclusive TN incoming message monitoring
DSXT MSGO <link#><l><s><c><u>	Disable exclusive TN outgoing message monitoring
ENIM MSGI <link#><msg1><msg2>...	Enable inclusive input/output message monitoring of only those specified incoming messages
ENIM MSGO <link#><msg1><msg2>...	Enable inclusive input/output message monitoring of only those specified outgoing messages
ENIP MSGI <link#><pri><pri>...	Enable inclusive input/output monitoring of incoming messages with specified priorities

ENIP MSGO <link#><pri><pri>...	Enable inclusive input/output monitoring of outgoing messages with specified priorities
ENIT MSGI <link#><l><s><c><u>	Enable inclusive input/output monitoring of incoming messages with specified TN
ENIT MSGO <link#><l><s><c><u>	Enable inclusive input/output monitoring of outgoing messages with specified TN
ENL MSGI x	Enable output of incoming layer seven messages on AML x
ENL MSGO x	Enable output of outgoing layer seven messages on AML x
ENL PACI x	Enable output of incoming layer two messages on AML x
ENL PACO x	Enable output of incoming layer two messages on AML x
ENXM MSGI <link#><msg1><msg2>...	Enable message input/output monitoring excluding those specified incoming messages
ENXM MSGO <link#><msg1><msg2>...	Enable message input/output monitoring excluding those specified outgoing messages
ENXP MSGI <link#><pri><pri>...	Enable input/output incoming message monitoring excluding messages with specified priorities
ENXP MSGO <link#><pri><pri>...	Enable input/output outgoing message monitoring excluding messages with specified priorities
ENXT MSGI <link#><l><s><c><u>	Enable input/output message monitoring excluding incoming messages with specified TN
ENXT MSGO <link#><l><s><c><u>	Enable input/output message monitoring excluding outgoing messages with specified TN
FLSH	Disable monitor and flash buffers
STAT MON (x)	Get status of one or all message monitors

Auxiliary Processor Link (APL) commands

The following commands are used to enable, disable, test and check the status of an APL link.

DIS APL x	Put software AUX link x in maintenance mode
DIS ISDI x	Disable hardware AUX link SDI x
ENL APL x	Put software AUX link x in non-maintenance mode
ENL ISDI x	Enable AUX link SDI x
STAT APL x	Display status of AUX link x
STAT DSP LNK x	Get status of all Displays on link x
STAT ISDI x	Get status of hardware AUX link SDI x

APL monitor commands

The APL monitor is a tool used to diagnose the messages flowing across the link. This is only useful for someone experienced with the message formats and protocols.

DIS PPRT x	Disable packet message print option on link x
DIS UPRT x	Disable unpacket message print on AUX link x
ENL PPRT x	Enable packet message print option on link x
ENL UPRT x	Enable unpacked message print on link x
ENLX MSGI x p	Output incoming priority p messages from link x
ENLX MSGO x p	Output outgoing priority p messages from link x
STAT CNFG	Get status of link monitor/simulator configuration
STAT CSDI x	Get status of SDI port x
STAT DSP LNK x	Get status of all Displays on link x

T1 Multipurpose Serial Digital Interface (TMDI) commands

The TMDI provides 1 port for ISDN Primary Rate D-channel (DCH) and 1 port for 1.5Mb/s Digital Trunk Interface (DTI).

The TMDI commands are listed below, **x** is the TMDI card number (defined by prompt DLOP in LD 17). These commands are provided in Link Diagnostic (LD 48) and D-channel Diagnostic (LD 96) and LD 42.

DIS TMDI x (ALL)	Disable TMDI card x (card)
DIS TMDI x u	Disable TMDI card x unit u
ENL TMDI x (ALL, FDL)	Enable TMDI card x (card, Forced Download)
ENL TMDI x u	Enable TMDI card x unit u
RST TMDI x	Reset TMDI card x
SLFT TMDI x	Invoke self-test for TMDI card x
STAT TMDI (x) (FULL)	Get status of TMDI card (x) (additional information)

Voice Mailbox Administration (VMBA) commands

Voice Mailbox Administration (VMBA) allows for Integrated Voice Mailbox Administration. Refer to the *Features and services* NTP for complete details.

DIS VMBA <vsid>	Disable the Voice Mailbox Administration application
DIS VMBA <vsid> AUDT	Disable the mailbox database audit
DIS VMBA <vsid> UPLD	Disable the mailbox database upload
ENL VMBA <vsid>	Enable the Voice Mailbox Administration application
ENL VMBA <vsid> AUDT	Enable the mailbox database audit
ENL VMBA <vsid> UPLD	Enable the mailbox database upload
STAT VMBA <vsid>	Get the status for the Voice Mailbox Administration application
STAT VMBA <vsid> AUDT	Get the status for the Voice Mailbox database audit
STAT VMBA <vsid> UPLD	Get the status for the Voice Mailbox database upload

Alphabetical list of commands

Command	Description
CMIN ALL	Clear minor alarm indication on all attendant consoles.
CMIN c	Clear minor alarm indication on attendant consoles for customer c.
DIS AML x	<p>Disable AML x.</p> <p>Whenever the third parameter (LYR2, LYR7, etc.) is not typed, the overlay defaults the third parameter of the DIS command to LYR2. Therefore, this command is equivalent to DIS AML x LYR2. Refer to DIS AML x LYR2 command definition, for more information.</p>
DIS AML x AUTO	Disable AUTO recovery on AML x (MSDL only). This command is not available for an ESDI AML.
DIS AML x LYR2	<p>Disable layer two on AML x.</p> <p>MSDL Requirement: The MSDL card must be enabled. The AML link state can be any state other than the disabled state, and should not be in the process of self-test. Example: ENL MSDL x followed by ENL AML x LYR2 must have been executed at an earlier time.</p> <p>MSDL Action: The AML link state is changed to the disable state. The MSDL port on which the AML is configured is disabled.</p> <p>ESDI: The ESDI port is disabled. The port must be idle.</p>
DIS AML x LYR7	<p>Disable layer seven on AML x.</p> <p>The MSDL or ESDI card must be enabled. The AML layer two must be enabled and established, and AML layer seven must also be enabled.</p> <p>Example: ENL MSDL x followed by ENL AML x LYR2 followed by EST AML x followed by ENL AML x LYR7 must have been executed at an earlier time.</p> <p>Action: A request to disable the AML layer seven is issued. SL-1 will stop sending polling messages to the far-end.</p>

DIS AML x MDL	<p>Disable MDL error reporting on AML x (MSDL only).</p> <p>MSDL Requirement: The MSDL card must be enabled. The AML layer two must be enabled.</p> <p>Example: ENL MSDL x followed by ENL AML x LYR2 must have been executed at an earlier time.</p> <p>MSDL Action: The MSDL AML loadware command to disable the debug monitor is sent to the MSDL card.</p> <p>This command is not available for ESDI AML.</p>
DIS AML x MON	<p>Disable monitor on AML x (MSDL only).</p> <p>MSDL Requirement: The MSDL card must be enabled. The AML layer two must be enabled.</p> <p>Example: ENL MSDL x followed by ENL AML x LYR2 must have been executed at an earlier time.</p> <p>MSDL Action: The MSDL AML loadware command to disable the debug monitor is sent to the MSDL card.</p> <p>This command is not available for ESDI AML.</p>
DIS APL x	<p>Put software AUX link x in maintenance mode.</p>
DIS ELAN	<p>Disable the ELAN (server task)</p>
DIS ELAN x	<p>Disable ELAN link number x (client task)</p> <p>If the application ELAN client task cannot be established from the Meridian 1, the Meridian 1 can disable the client task with this command.</p>
DIS HSL	<p>Disable the high-speed link.</p>
DIS ISDI x	<p>Disable hardware AUX link SDI x.</p>
DIS MON	<p>Disable the monitor-bit of high-speed link data.</p>

DIS MSDL x (ALL)

Disable MSDL device.

When entered without the optional parameter, the disable MSDL command attempts to disable the MSDL card. Disabling the card via this command is permitted from either the Enabled (ENBL) state or the System Disabled (SYS DSBL) state.

When attempted on an MSDL that does not have any ports enabled, this command will succeed. The only exception to this is when the disable card message needs to be sent to the card, and there is no buffer currently available for building the message (MSDL015 is output to the TTY). In this unusual situation, attempting the command again will most likely result in success.

Application Overlays are not erased when the MSDL is disabled.

If there are any ports that are still running in the MSDL card, the 'ALL' option must be used to force disable the active ports. As an alternative to this command, the craftsperson can use the commands provided by the applications to disable the ports (D-channels or AML) individually, and then use the 'DIS MSDL x' command.

The command 'DIS MSDL x ALL' is not allowed if the active TTY (the terminal from which the command was entered) is supported on the MSDL card in question.

Software disable the logical channel prior to disabling the physical DNUM port.

DIS MSGI x	Disable printing of messages on link x at input queue level. Disable output of incoming layer seven messages on AML x.
DIS MSGO x	Disable printing of messages on link x at output queue level. Disable output of outgoing layer seven messages on AML x.
DIS PACI x	Disable printing of input messages on link x at input buffer level. (disable output of incoming layer two messages on AML x)
DIS PACO x	Disable printing of output messages on link x at output buffer level. (disable output of outgoing layer two messages on AML x)

DIS PPRT x	Disable packet message print option on link x.
DIS PRNT	Disable the print-bit of high-speed link data.
DIS SDI HIGH	Disable the SDI port for high-speed link.
DIS SDI LOW	Disable the SDI port for low-speed link.
DIS STA x	Disable the STA application. This command disables the application, the administration port, and any other additional ports. The associated ports must be disabled before using this command. x = the logical ID number identifying the STA application.

DIS UPRT x Disable unpacket message print on AUX link x.

DIS VMBA <vsid>

Disable the Voice Mailbox Administration application. This command is used to disable the Voice Mailbox Application. Enter the command in the following format:

```
DIS VMBA <vsid> <NNNN>
```

Where:

vsid = The VAS ID number associated with VMBA.

NNNN = AUDT or UPLD for the database audit or upload.

AUDT and UPLD are optional entries. The VAS ID must be entered.

The Voice Mailbox audit and upload functions are aborted when the application is disabled. Be sure to get the status of those functions before disabling the application.

DIS VMBA <vsid> AUDT

Disable the mailbox database audit. This command aborts the audit function whether it was invoked manually or automatically.

DIS VMBA <vsid> UPLD

Disable the mailbox database upload. This command aborts the audit function whether it was invoked manually or automatically.

-
- DISM MSGI <link#><msg1><msg2>...
Disable message input/output monitoring excluding those specified incoming messages
- DISM MSGO <link#><msg1><msg2>...
Disable message input/output monitoring excluding those specified outgoing messages
- DSIM MSGI <link#>
Disable inclusive incoming message monitoring
- DSIM MSGO <link#>
Disable inclusive outgoing message monitoring
- DSIP MSGI <link#><pri><pri>...
Disable monitoring of inclusive priorities on incoming messages
- DSIP MSGO <link#><pri><pri>...
Disable monitoring of inclusive priorities on outgoing messages
- DSIT MSGI <link#><l><s><c><u>
Disable inclusive TN incoming message monitoring
- DSIT MSGO <link#><l><s><c><u>
Disable inclusive TN outgoing message monitoring
- DSXP MSGI <link#><pri><pri>...
Disable monitoring of exclusive priorities on incoming messages
- DSXP MSGO <link#><pri><pri>...
Disable monitoring of exclusive priorities on outgoing messages
- DSXT MSGI <link#><l><s><c><u>
Disable exclusive TN incoming message monitoring
- DSXT MSGO <link#><l><s><c><u>
Disable exclusive TN outgoing message monitoring
- ENIM MSGI <link#><msg1><msg2>...

Enable inclusive input/output message monitoring of only those specified incoming messages

ENIM MSGO <link#><msg1><msg2>...

Enable inclusive input/output message monitoring of only those specified outgoing messages

ENIP MSGI <link#><pri><pri>...

Enable inclusive input/output monitoring of incoming messages with specified priorities

ENIP MSGO <link#><pri><pri>...

Enable inclusive input/output monitoring of outgoing messages with specified priorities

ENIT MSGI <link#><l><s><c><u>

Enable inclusive input/output monitoring of incoming messages with specified TN

ENIT MSGO <link#><l><s><c><u>

Enable inclusive input/output monitoring of outgoing messages with specified TN

ENL AML x Enable AML x.

For MSDL: If AUTO recovery is off, then this command is the same as the ENL AML x LYR2 command. If AUTO recovery is on, an attempt is made to establish the link (layer two) and the application (layer seven).

For ESDI: This is the same as the ENL AML x LYR2 command.

ENL AML x ACMS

Enable automatic set-up on AML x (ESDI only). This command is valid only for ESDI AML and is not available on the MSDL AML. It is equivalent to ACMS x command.

ENL AML x AUTO

Enable AUTO recovery on AML x (MSDL only). This command is not available for ESDI AML links.

- ENL AML x FDL** Force download loadware to the MSDL card and enable AML x.
- MSDL Requirement: The MSDL card must be enabled. The AML link state must be in the disable state. All other MSDL AML links configured on the same MSDL card must be in the disable state. Example: ENL MSDL x must have been executed at an earlier time.
- MSDL Action: The MSDL AML loadware is downloaded to the MSDL card. While download is in progress a series of dots are output. Once the command is executed successfully the ENL AML x LYR2 command is executed automatically.
- ENL AML x LYR2** Enable layer two on AML x.
- MSDL Requirement: The MSDL card must be enabled. The AML link state must be in the disable state. Example: ENL MSDL x must have been executed at an earlier time.
- MSDL Action: The AML link state is changed to the release state. The MSDL port on which the AML is configured is enabled. If the ENL AML x command is executed successfully, and MSDL AML auto recovery is in the enable state, then the EST AML x is issued automatically.
- ESDI: The ESDI port is enabled. The ESDI card must first be disabled.
- ENL AML x LYR7** Enable layer seven on AML x.
- MSDL Requirement: The MSDL card must be enabled. The AML link should not be in the simulation mode. The AML layer two must be enabled and established, and AML layer seven must be disabled.
- Example: ENL MSDL x followed by ENL AML x LYR2 followed by EST AML x must have been executed at an earlier time.
- MSDL Action: A request to enable the AML layer seven is issued. Polling messages are sent to the far end.
- ESDI: Layer seven is enabled for the ESDI AML. The ENL AML x (LYR2) command must be completed successfully first.

- ENL AML x MDL Enable MDL error reporting on AML x (MSDL only).
MSDL Requirement: The MSDL card must be enabled. The AML layer two must be enabled.
Example: ENL MSDL x followed by ENL AML x LYR2 must have been executed at an earlier time.
MSDL Action: The MSDL AML loadware command to enable the MDL error reporting is sent to the MSDL card.
This command is not available for ESDI AML links.
- ENL AML x MON Enable monitor on AML x (MSDL only).
MSDL Requirement: The MSDL card must be enabled. The AML layer two must be enabled.
Example: ENL MSDL x followed by ENL AML x LYR2 must have been executed at an earlier time.
MSDL Action: The MSDL AML loadware command to enable the debug monitor is sent to the MSDL card
This command is not available for ESDI AML links.
- ENL APL x Put software AUX link x in non-maintenance mode.
- ENL ELAN Enable ELAN server task
When the application establishes connection to a Meridian 1 via this ELAN, a client process will be spawned for this application. The APP_IP_ID (Port ID and IP address) of each connection will be passed into the Meridian 1.
- ENL HSL Enable the high-speed link.
When enabling a high-speed link, the craftsperson must log out of the TTY to receive a message from the switch which confirms that the high-speed link (HSL) has been enabled.
- ENL IALM <vsid> Enable the integrated alarms application on the specified VAS. A VAS011 message is printed if the application is successfully enabled and a VAS012 if it is not.
- ENL ISDI x Enable AUX link SDI x.

ENL MON	<p>Print software information at maintenance TTY.</p> <p>This command causes software information being sent to the auxiliary processor to be printed at the TTY. This information would include counts of Cumulative Negative Acknowledgments (NAKs), time-outs and many other control characteristics of the link.</p> <p>Use this command only when the ACD is handling light traffic. Otherwise, the TTY will be overloaded from the high volume of messages.</p>
ENL MSDL x (FDL, ALL)	<p>Enable MSDL card.</p> <p>When entered without any of the optional parameters, the enable MSDL command attempts to enable the MSDL card. Enabling the card via this command is only permitted if the card is currently in the Manually Disabled (MAN DSBL) state.</p> <p>The enable card succeeds if:</p> <ol style="list-style-type: none">1. the card is resident in the shelf2. it has passed all the self-tests3. the MSDL base software has been downloaded and is responding <p>If the MSDL base software and any configured application software has not been downloaded, or if the version of the software on the card is different from the version on the system disk, software download occurs. While download is in progress, a series of dots (".") are output.</p> <p>If the FDL (forced download) option is entered, the MSDL base software and all the configured applications will be downloaded regardless if the application already exists on the card. Following the download, the card will be enabled.</p> <p>If the ALL option is entered, the card will be enabled (provided the three conditions mentioned above are met), all the applications will be downloaded if necessary and then an attempt will be made to enable all the links/ports configured on the card.</p> <p>Additionally, the enable command with the ALL option can be entered when the card is already in the enabled state. This allows you to enable any disabled links/ports through one command. It is not possible to use both the ALL and the FDL options in the same command.</p>

ENL MSGI x Print incoming messages from link x. Enable output of incoming layer seven messages on AML x.

This command allows printing of all incoming message received over link x on the maintenance output device. The SSD signaling messages and the program input are not printed. This is typically used to check the validity of incoming messages for the different queues.

ENL MSGO x Print outgoing messages from link x. Enable output of outgoing layer seven messages on AML x.

This command allows printing for all outgoing messages over link x on the maintenance output device. This is typically used to check the validity of outgoing messages sent from the application layer to the output queue.

ENL PACI x Print incoming ESDI messages from link x. Enable output of incoming layer two messages on AML x.

When enabled, all incoming messages received on link x to the ESDI are printed on the maintenance TTY, including SSD signaling messages. Typically this is used to check the correctness of the incoming messages as received from the ESDI in the data block format.

ENL PACO x Print outgoing ESDI messages from link x. Enable output of incoming layer two messages on AML x.

When enabled, all outgoing messages are sent through link x to the ESDI and are printed on the maintenance TTY. The message will be printed in the data block format required by the ESDI.

ENL PPRT x Enable packet message print option on link x. Printouts can be up to 7 lines in length and are of the form:

```
APLO xxx y xxx. . . x
APLI xxx y xxx. . . x
```

Where:

APLO = the message is output from the Meridian 1
APLI = the message is input to Meridian 1 from AUX
xxx = number of the APL link.
y = number from 0 to 6 indicating the printout line number of the message. This field is not used for ACK and NAK messages.

ENL PRNT	<p>Connect high-speed link to TTY.</p> <p>Disconnects the high-speed link from the AUX and connects it instead to an RS-232-C compatible TTY device. This disrupts communication between the Meridian 1 and the auxiliary processor. It enables ACD related messages (which would normally be sent to the auxiliary processor) to be printed at the TTY connected to the high-speed link.</p> <p>Normal communications between the Meridian 1 and the auxiliary processor will not continue if the ENL PRNT command is inputted while the Meridian 1 and auxiliary processor are still connected. A different message format is used between the Meridian 1 and the auxiliary processor. This condition will cause the HSL to go down because the auxiliary processor cannot interpret this other message format.</p>
ENL SDI HIGH	<p>Enable SDI port for high-speed link.</p> <p>When enabling a high-speed link, the craftsperson must log out of the TTY to receive a message from the switch which confirms that the high-speed link (HSL) has been enabled.</p>
ENL SDI LOW	<p>Enable SDI port for low-speed link.</p>
ENL STA x (FDL)	<p>Enable STA application. The MSDL card must be enabled to implement this command, where:</p> <p style="padding-left: 40px;">x = the logical ID number identifying the STA application. FDL = force download the application. If not invoked, the application is downloaded only when needed</p>
ENL UPRT x	<p>Enable unpacked message print on link x. Printouts are of the form: APLMxxx aa b c zzzz. . . z</p> <p>Where:</p> <p style="padding-left: 40px;">APLMxxx = indicates unpacked message over link xxx aa = indicates the message length b = indicates the application type c = indicates the message type zzz = these fields are the message body, depending on the application and message type</p>

ENL VMBA <vsid>

Enable the Voice Mailbox Administration application. Enter the command in the following format:

ENL VMBA <vsid> <NNNN> ALL/xxxx

Where:

vsid = The VAS ID number associated with VMBA.

NNNN = AUDT or UPLD for the mailbox database audit or upload functions.

ALL/xxxx = Enable NNNN for ALLDNs with Voice Mailboxes, or a specific DN (xxxx).

NNNN and ALL/xxxx are optional entries. The VAS ID must be entered to initiate this command.

ENL VMBA <vsid> AUDT

Enable the mailbox database audit. Enter the command in the following format:

ENL VMBA <vsid> AUDT ALL/xxxx

The audit can be implemented for a specific Directory Number by entering the DN following the audit command:

ENL VMBA <vsid> AUDT xxxx

The upload can also be enabled for all DN's eligible for a Voice Mailbox by entering ALL following the audit command:

ENL VMBA <vsid> AUDT ALL

ENL VMBA <vsid> UPLD

Enable the mailbox database upload. Enter the command in the following format:

ENL VMBA <vsid> UPLD ALL/xxxx

The upload can be implemented for a specific Directory Number by entering the DN following the upload command:

ENL VMBA <vsid> UPLD xxxx

The audit can also be enabled for all DN's configured with Voice Mailboxes by entering ALL following the upload command:

ENL VMBA <vsid> UPLD ALL

- ENLX MSGI x p** Output incoming priority p messages from link x.
 When enabled by the user, all incoming messages received on link x are output, excluding the messages with specified priorities, where "p" is the message priority, and where:
- 1 = the system priority
 - 2 = signaling priority
 - 3 = call processing priority
 - 4 = administration priority
- ENLX MSGO x p** Output outgoing priority p messages from link x.
 When enabled by the user, all outgoing messages sent through link x are output, excluding the messages with specified priorities, where "p" is the message priority, and where:
- 1 = the system priority
 - 2 = signaling priority
 - 3 = call processing priority
 - 4 = administration priority.
- EST AML x** Establish layer two on AML x.
 The layer two is established for the AML configured on the given MSDL port. The layer two is connected for the AML configured on the ESDI card.
 MSDL Requirement: The MSDL card must be enabled. The AML layer two must be enabled and released.
 Example: ENL MSDL x followed by ENL AML x LYR2 must have been executed at an earlier time.
 MSDL Action: The MSDL AML link state is changed into the established state. If EST AML x executes successfully, and provided that the MSDL AML AUTO recovery is enabled, next the ENL AML x LYR7 is executed automatically.
 ESDI: Layer two is connected for the ESDI AML. The port must be enabled first.
- ENXM MSGI <link#><msg1><msg2>...**
 Enable message input/output monitoring excluding those specified incoming messages
- ENXM MSGO <link#><msg1><msg2>...**
 Enable message input/output monitoring excluding those specified outgoing messages

ENXP MSGI <link#><pri><pri>...

Enable input/output incoming message monitoring excluding messages with specified priorities

ENXP MSGO <link#><pri><pri>...

Enable input/output outgoing message monitoring excluding messages with specified priorities

ENXT MSGI <link#><l><s><c><u>

Enable input/output message monitoring excluding incoming messages with specified TN

ENXT MSGO <link#><l><s><c><u>

Enable input/output message monitoring excluding outgoing messages with specified TN

FLSH Disable monitor and flash buffers

MAP AML (x) Get physical address and card name of one or all AMLs.

This command outputs the card name and physical card address and ports for one or all AMLs. This information is also output with the STAT AML command. For example:

```
MAP AML
AML: 05      ESDI: 04
AML: 12      MSDL: 07      PORT: 1
```

MAP STA x Get information relating to the STA application.

This command displays the logical, physical, and port allocation information related to the STA application. If the ID number (x) is not specified, the information for all existing STAs is given.

RLS AML x	<p>Release layer two on AML x.</p> <p>The layer two is released for the AML link configured on the given MSDL port. The layer two is disconnected for the AML configured on the ESDI card.</p> <p>MSDL Requirement: The MSDL card must be enabled. The AML layer two must be enabled and established. Example: ENL MSDL x followed by ENL AML x LYR2 followed by EST AML x must have been executed at an earlier time.</p> <p>MSDL Action: Prior to the execution of the RLS AML x, if the MSDL AML layer seven is enabled, the DIS AML x LYR7 is automatically executed. The MSDL AML state is changed to the release state.</p> <p>ESDI: The layer two is disconnected for the ESDI AML port. The port must be in the connected and idle state first.</p>
RSET ALL	Stop printing all messages on a line card.
RSET BRIM	Stop printing of messages on SILC/UILC, MISP or digital line card.
RSET IFx 1 PDL2 1	Stop printing SAPI 16 interface messages.
RSET IFx 1 PDNI n	Stop printing network interface messages.
RSET IFx I s c u BCH x	Stop printing B-channel terminal interface messages.
RSET IFx I s c u DCHx	Stop printing D-channel terminal interface messages.
RSET MSG I s c dsl	Disable monitoring on incoming
RSET MISP x AMO	<p>Stop printing of audit messages on MISP specified.</p> <p>Where: x = loop .</p>
RSET MISP x DGB	Exit MISP debug. Where: x = loop .

RSET MISP loop MNT

Stop printing of status messages on MISP specified.
Where: x = loop.

RSET MISP x MON

Stop printing of input/output messages on MISP specified.
Where: x = loop.

RSET MPH M

Stop all Meridian Packet Handler message monitoring.

RSET OMSG I s c dsl

Disable monitoring on outgoing

RSET TNx

Stop printing messages on an ISDN BRI line card.
Where: x = 0-6 (TN0-TN6).

RST MSDL x

Reset MSDL card.

This command causes a power-on reset on the MSDL, followed by a series of short self-tests. Resetting the card via this command is only permitted if the card is in the Manually Disabled (MAN DSBL) state.

SET IMSG I s c dsl MON x

Set monitor on incoming msg

SET OMSG I s c dsl MON x

Set monitor on outgoing msg

SETM BRIM xxxx

Set printing of messages on SILC/UILC, MISP, or digital line card.

This command is used to select various message types for printing on a given TN (defined by SETM TNx commands). The value of xxxx is a HEX word which determines the message types.

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
				X						X	X	X	X	X	X

Bit 0 = Input SSD message from BRI line cards.

Bit 1 = Output SSD message to BRI line cards.

Bit 2 = Input expedited (high priority) message from BRIL application on MISP.

Bit 3 = Output expedited (high priority) message from BRIL application on MISP.

Bit 4 = Input ring message from BRIL application on MISP.

Bit 5 = Output ring message from BRIL application on MISP.

Bit 11 = Call processing error message.

All other Bits are for future use. Note that the SETM TNx command must have been issued before issuing this command.

Examples:

To print input SSD and expedited messages:

SETM BRIM 0005 (i.e., 0000000000000101)

To print input and output expedited messages:

SETM BRIM 000C (i.e., 0000000000001100)

SETM IFx 1 PDL2 1

Set printing of SAPI 16 interface messages.

SETM IFx 1 PDNI n

Set printing of network interface messages.

SETM IFx l s c u BCHx

Set printing of B-channel terminal interface messages.

SETM IFx l s c u DCHx

Set printing of D-channel terminal interface messages.

SETM MISP x AMO

Set printing of audit messages on MISP specified.

Where: x = loop.

These messages are sent from the MISP handler to the MISP basecode. This command is used to turn these messages back on once they have been turned off because:

- debug or monitor (MON) mode is enabled
- RSET x AMO command has been issued

SETM MISP x DBG

Set debug option on MISP specified. Where: x = loop.

The card must be disabled first. The debug option has the following effect when the MISP is enabled:

- turns off the sanity timer
- stops interface handler audit messages
- no timestamp messages are sent to the MISP card

This command requires a password. The “dot” prompt indicates debug mode is turned on.

SETM MISP x MNT

Set printing of status messages on MISP specified.

Where: x = loop.

These messages indicate:

- error indication messages from the MISP
- state of L1 on SILC/UILC and L2/L3 on MISP

This option setting is lost during an initialization.

SETM MISP x MON

Set printing of input/output messages on MISP card.
Where: x = loop.

Both the expedited and ring input/output messages are printed. This command also sets the debug option and requires a password.

This command turns on all input/output messages. This may use up all system print registers and may cause system initialization. Therefore use this command with caution.

The debug option is turned off by a system initialization. Restarting debug will also restart the input/output monitoring.

DISABLE MISP prior to issuing this command, re-enable MISP after command issued.

SETM MPH M xxxx

Set printing of Meridian Packet Handler messages.
Where: xxxx = the MPHs to be monitored

SETM TNx l s c u, 31

Set printing messages on a digital line card unit (u) or ISDN BRI line card (31). This command is used in conjunction with the SETM BRIM command.

The value x is a tag number (0-6). For ISDN BRI line cards, you must enter "l s c 31" for the address.

SETM TNx l s c u, dsl

Set printing messages on a unit. This command is used in conjunction with the SETM BRIM command. The value x is a tag number (0-6).

SETM TNx y

Set printing messages on a digital line card unit or ISDN BRI line card. Where:

x = tag number 0-6 (TN0-TN6)

y = l s c u (loop, shelf, card, and unit) or l s c dsl (loop, shelf, card, and digital subscriber loop).

If u = 31 when a S/T (SILC) or U (UILC) Interface Line Card is specified for the y parameter, then messages for that line card are printed. This command must be issued before the SET BRIM command.

SLFT AML x	<p>Self-test on AML x.</p> <p>This command runs the local loop back test for MSDL AML, and the ESDI self-test for the ESDI AML.</p> <p>MSDL Requirement: The MSDL card must be enabled. The AML layer two must be disabled.</p> <p>Example: ENL MSDL x must have been executed at an earlier time.</p> <p>MSDL Action: The MSDL AML local loop back test is executed and upon completion of the test the MSDL AML port is set to the disable state.</p>
SLFT MSDL x	<p>Execute a self-test on MSDL card x.</p> <p>This command causes a power-on reset on the MSDL, which will be followed by a complete set of self-tests. This command only executes self-tests if the card is in the Manually Disabled (MAN DSBL) state.</p> <p>If the self-tests pass, a message indicating this and card id is output.</p> <p>If the self-tests fail, a message is output describing which self-test failed. It is useful to note that the first test that fails will abort the self-test sequence, so this command only indicates one test failure, even if multiple tests might fail.</p>
STAT AML (x)	<p>Get AML status.</p> <p>This command outputs the status of layer two and layer seven of one or all configured AMLs. The designation (DES) of the AML is output if it has been defined for the port in LD 17.</p> <p>Examples:</p> <pre>AML: 01 MSDL: 08 PORT: 00 LYR2: DSBL AUTO: OFF LYR7: DOWN DES: MERIDIAN_MAIL AML: 04 ESDI: 10 LYR2: EST AUTO: ON LYR7: ACTIVE</pre>
STAT APL x	<p>Display status of AUX link x.</p>

STAT CNFG	<p>Get status of link monitor/simulator configuration.</p> <p>Display link monitor/simulator configuration status. The system will respond according to the current configuration as follows:</p> <ul style="list-style-type: none"> — *NOT CONFIG - if system is not configured — *CNFG INT/SIM <ul style="list-style-type: none"> CSLAPL x CSLSIM x if the system is in internal maintenance mode; shows link numbers of CSLSIM and CSL application program — *CNFG FLD <ul style="list-style-type: none"> CSL x if the system is in field maintenance mode; shows CSL link number
STAT CSDI x	Get status of SDI port x.
STAT DSP LNK x	Get status of all Displays on link x.
STAT ELAN	Check status of all configured AML over Ethernet (ELAN) links
STAT ELAN x	Check status of specific AML over Ethernet (ELAN) link x
STAT HSL	<p>Get high-speed link status. Response can be either:</p> <ol style="list-style-type: none"> 1. UP 2. DOWN, or 3. NOT READY
STAT ISDI x	Get status of hardware AUX link SDI x.

STAT MON (x) Get status of one or all message monitors.

The system will respond with the status. If all monitors are disabled, the response is:

```
MSGO DIS
MSGI DIS
PACO DIS
PACI DIS
X25I DIS
X25O DIS
```

If the monitor function is enabled, for outgoing messages on two links, the response is: MSGO ENL CSL x

STAT MSDL (x (FULL))

Get MSDL status.

This command outputs the status of MSDL cards. Without any optional parameters (no card number, etc.), the status of all MSDL cards in the system is output.

When a card number alone is provided with the command, the status of the card is output along with additional information regarding the applications configured on the card.

Specifically, for each D-channel or AML configured on the card, the application name, logical number and port status is output.

For example:

```
MSDL x: ENL
AML 11 DIS      PORT 1
DCH 25 OPER PORT 2
AML 03 OPER PORT 3
```

If the FULL option is entered along with the MSDL number, the Meridian 1 outputs all the information output for the 'STAT MSDL x' command along with the following additional information:

- card ID
- bootload firmware version
- basecode version
- basecode state
- when the basecode was activated (if it is active)
- each application version
- each application state
- when each the application was activated (if it is active)

The card status is output on the first line and can be any one of the following:

MSDL x: ENBL - card is enabled

MSDL x: MAN DSBL - card disabled by the DIS MSDL command

MSDL x: SYS DSBL reason - card has been disabled by the system

The system disabled state may be due to any of the following:

1. SYS DSBL- NOT RESPONDING

If the MSDL is in this state, the implication is that the Meridian 1 has attempted to communicate with the MSDL and was not successful. It is possible that the card is not present in the shelf. If it is present, then it is possible that the software on the card is unable to respond to messages from the Meridian 1.

Action: Check to see if the card is properly inserted in its slot. If it is (and has been for more than a few minutes), then check the console output for MSDL or ERR messages and take the appropriate action for the error message.

It may be that the rotary switch setting on the MSDL card is not set properly. To keep the Meridian 1 from continuously attempting recovery of the MSDL, use the 'DIS MSDL x' command to put the card in the Manually Disabled (MAN DSBL) state.

2. SYS DSBL- SELF-TESTING

If the MSDL is in this state, self-tests are in progress.

Action: Wait for self-tests to complete and for the Meridian 1 to examine the results. Under normal circumstances, self-tests take less than one minute to complete. However, when an erasable EPROM on the card has been cleared, self-tests may take between five and six minutes to complete. Therefore, it is prudent not to take any action at this time.

3. SYS DSBL- SELF-TESTS PASSED

This is a transient state. A card in a transient state has successfully completed self-tests and the Meridian 1 either is about to begin downloading the MSDL base software, or has just completed downloading the MSDL base software and is about to attempt to enable the card.

Action: Wait for the Meridian 1 to begin the next step of recovery. If a more immediate recovery is desired, use the 'DIS MSDL x' command followed by the 'ENL MSDL x' command. This causes essentially the same recovery action to be taken. However, it may be faster (since it is being done as a result of input from the craftsperson).

4. SYS DSBL- SELF-TESTS FAILED

If the MSDL is in this state, self-tests have executed and failed on this card.

Action: Use the 'STAT MSDL x' command to determine reason for self-test failure. Disable the MSDL card using the 'DIS MSDL x' command, then use the 'SLFT MSDL x' command to execute the self-tests again.

If the self-tests pass, attempt to enable the card using the 'ENL MSDL x' command. If the card fails the self-tests again, record the results and replace the card.

5. SYS DSBL- SRAM TESTS FAILED

If the MSDL is in this state, self-tests have executed and passed, however when the Meridian 1 attempted to perform read/write tests to the shared RAM on the MSDL, it detected a failure.

Action: Same as for self-test failure. If the attempt to enable the card fails, record the results and replace the card.

6. SYS DSBL- OVERLOAD

The Meridian 1 has received too many messages from the MSDL. This is considered to be unacceptable, in that this much of a demand may interfere with other system functions.

Action: If the MSDL is left in this state, the Meridian 1 will attempt to bring the card back into service within a few minutes. If this is not desired, disable the card using the 'DIS MSDL x' command.

It is also advisable to identify a specific port or application that may be responsible for the overload. The identification can be made by disabling individual links/ports on the MSDL and letting the remaining links/ports operate normally.

7. SYS DSBL- RESET THRESHOLD

If the MSDL is in this state, the Meridian 1 has detected more than four resets within ten minutes. This is considered to be unacceptable, as a normally operating card should not reset so often.

It is possible that the card may be in this state due to a Fatal Error or Self-test failure from which no recovery was successful. (As the recovery from Fatal Errors and Self-test failures begins with resetting the card, repeated attempts at recovery may cause the reset threshold to be reached.)

Action: Disable the card using the 'DIS MSDL x' command and execute the 'SLFT MSDL x' command. If self-tests pass, attempt to enable the card using the 'ENL MSDL x' command. If the problem recurs, try force downloading the software to the MSDL using the 'ENL MSDL x FDL' command.

If the problem continues to recur and resets continue because of a repeated fatal error, attempt to isolate the problem by disabling all links/ports controlled by one application (e.g., all D-channels or all AMLs). If no manual intervention is taken by the craftsperson, the Meridian 1 will attempt to bring the card back into service beginning at midnight.

8. SYS DSBL- FATAL ERROR

If the MSDL is in this state, the card encountered a fatal condition from which it could not recover. In response to the 'STAT' command, the cause of the fatal error will be displayed.

If the 'STAT' command is not entered while the card is in this state, the MSDL302 message printed at the time of the state transition will indicate the cause of the fatal error.

Action: The Meridian 1 will attempt to bring the card back into service automatically. While the card is in this state, it is recommended that the craftsperson do nothing. If the Meridian 1 is unable to recover the card, the system disabled substate will be changed to indicate the reason recovery was not possible. The craftsperson should then take the recommended action for that new substate.

9. SYS DSBL- NO RECOVERY ATTEMPTED UNTIL MIDNIGHT

When this is output after the SYS DSBL message, the Meridian 1 has attempted to recover the card but has repeatedly failed. One example of this condition is when the background recovery mechanism has failed to download the MSDL Base Code five times in a row.

Action: Disable the card using the 'DIS MSDL x' command, test the card using the 'SLFT MSDL x' command, and if self-tests pass, enable the card using the 'ENL MSDL x' command.

If downloading of the MSDL Base Code is necessary, it will be attempted in response to the enable command. If no manual intervention is taken, the Meridian 1 will again attempt recovery beginning at midnight.

STAT SDI HIGH	Get status of high-speed link port. The response can be either ENL (enabled) or DIS (disabled).
STAT SDI LOW	Get status of low-speed link port. The response can be either ENL (enabled) or DIS (disabled).
STAT STA x	<p>Get status of STA application.</p> <p>When x (STA ID number) is specified, the STA state, port number, port type, port state, and system description are displayed.</p> <p>If x is not specified, and the application is enabled, the state and port information is given.</p> <p>If x is not specified, and the application is in any state other than enabled, only the STA status is given. No port or system information is displayed. .</p>

Possible output follows:

1. Application state and Target state:
ENABLED, MANUAL DISABLE, SYSTEM DISABLE,
AWAIT DISABLE, AWAIT APPL ENABLE, AWT CONF
DOWNLOAD
2. Port type: ADM, SYS, TTY
3. Port state:
NO SDI/STA, DISABLED, ENABLED, TESTING,
KEYBOARD TST, AWAIT VT-200, DTR DOWN,
AUTOBAUDING, AWT AUTOBAUD, ABD SCANNING,
DEFAULT ABD, NO MODEM, IN SESSION, AWAIT
ENABLE

System description is entered as part of the port configuration. For the additional port used to shadow the STA application, the system description is SHADOW TTY.

STAT VMBA <vsid>

Get the status for the Voice Mailbox Administration application. Enter the command in the following format:

STAT VMBA <vsid> <NNNN>

Where:

vsid = the VAS ID where the VMBA is configured
NNNN = VMBA audit or upload function. You may enter either AUDT or UPLD, where:

AUDT = mailbox database audit, or

UPLD = mailbox database upload

AUDT and UPLD are optional entries. The VAS ID must be entered. The status output is shown below:

STAT VMBA <vsid>

VMBA <ACTIVE or INACTIVE>

AUDIT <ACTIVE or INACTIVE>

UPLOAD <ACTIVE or INACTIVE>

STAT VMBA <vsid> AUDT

AUDIT INACTIVE, or AUDIT ACTIVE

Where:

n AUDITED

n MISMATCHES FOUND/CORRECTED

n ERRORS

STAT VMBA <vsid> UPLD

UPLOAD INACTIVE, or UPLOAD ACTIVE

Where:

n UPLOADED

n DELETED

n ERRORS

STAT VMBA <vsid> AUDT

Get the status for the Voice Mailbox Database audit. Enter the command in the following format.

STAT VMBA <vsid> AUDT

The status output is shown below:

STAT VMBA <vsid> AUDT

AUDIT INACTIVE, or AUDIT ACTIVE

Where:

n AUDITED

n MISMATCHES FOUND/CORRECTED

n ERRORS

STAT VMBA <vsid> UPLD

Get the status for the Voice Mailbox Database upload. Enter the command in the following format.

STAT VMBA <vsid> UPLD

The status output is shown below:

STAT VMBA <vsid> UPLD

UPLOAD INACTIVE, or UPLOAD ACTIVE

Where:

n UPLOADED

n DELETED

n ERRORS

SWCH AML x y Switch active (x) and standby (y) AML. This is AML switchover, where x is the active AML switching to standby and y is the standby AML to become active.

UPLD AML x TBL y

Upload parameter table 1 to 4 from AML x (MSDL only).

The MSDL AML maintenance error log table, is uploaded from the MSDL card and is displayed on the TTY screen.

The parameter tables are:

TBL1 = AML maintenance error log table

TBL2 = AML downloaded parameter table

TBL3 = AML protocol error log table

TBL4 = AML traffic table

LD 48

MSDL Requirement: The MSDL card must be enabled. The AML layer two must be enabled.

Example: ENL MSDL x followed by ENL AML x LYR2 must have been executed at an earlier time.

Action: MSDL AML table is uploaded and is displayed on the TTY screen.

This command is not available for the ESDI card.

LD 49—New Flexible Code Restriction and Incoming Digit Conversion

Overlay program 49 allows the building, changing, deleting, moving, and printing of code restriction trees and the cancellation of all New Flexible Code Restriction (NFCR) data.

Overlay program 49 also allows the building, changing, deleting, moving, and printing of Incoming DID Digit Conversion (IDC) data.

Prompts and responses

Prompt	Response	Comment
REQ	aaa	Request
TYPE	aaa	Type of data block (aaa = FCR or IDC)
FROM	0-99 0-254	Source customer and tree number
TO	0-99 0-254	Destination customer and tree number
CUST	xx	Customer number
DCNO	0-254	Digit Conversion tree Number
IDGT	0-9999 0-9999	Incoming Digits
CRNO	(0)-254	Code Restriction tree Number
INIT	aaaa	Initial (aaaa = ALLOW or DENY)
- ALLOW	xxxx	Allow
- - UPDT	(YES) NO	Update Tree
- DENY	xxxx	Deny
- - UPDT	(YES) NO	Update Tree
FRCE	(NO) YES	Force
BYPS	xxxx	Bypass
- UPDT	(YES) NO	Update Tree

Alphabetical list of prompts

Prompt	Response	Comment
ALLOW	xxxx xxxx y...y	<p>Allow (Digit sequence to be allowed unconditionally) Prompted when INIT = DENY.</p> <p>Digit sequence to be conditionally allowed and maximum number of digits that can follow</p> <p>A maximum of 50 digits may be analyzed. Enter <cr> to end ALLOW prompt.</p>
BYPSS	xxxx	<p>Bypass (Digit sequence to be bypassed)</p> <p>A maximum of 50 digits may be analyzed. Enter <cr> to end EYPS prompt.</p>
CRNO	(0)-254	<p>Code Restriction tree Number (NFCR tree number) The maximum number of trees allowed for a customer is defined by prompt MAXT in LD 15.</p>
CUST	xx <cr>	<p>Customer number For all customers Prompted when REQ = PRT.</p>
DCNO	0-254	Digit Conversion tree Number (IDC tree number)
DENY	xxxx	<p>Deny (Digit sequence to be denied)</p> <p>A maximum of 50 digits may be analyzed. Prompted when INIT = ALLOW.</p>
FRCE	(NO) YES	<p>Force the storage or release of data.</p> <p>If an entry for ALLOW, DENY or BYPS conflicts with existing data, FRCE is prompted.</p> <p>For example, ALLOW = 7 and the existing ALLOW = 7000. In this case enter "NO" to ignore the data, or "YES" to accept the change. A modification of this type may result in the loss of portions of the tree.</p> <p>If REQ = RLS and FRCE = YES, then all the customer's NFCR data is deleted. Prompt NFCR in LD 15 must be set to NO first.</p>
FROM	0-99 0-254	Source customer and tree number

LD 49

Prompt	Response	Comment
IDGT	0-9999 0-9999	<p>Incoming Digits (DN or range of DNs to be converted)</p> <p>The external DNs to be converted is output and the users enter the internal DN. For example, to convert the external DN 3440 to 510, enter:</p> <p>Prompt: Response</p> <p>IDGT: 3440</p> <p>3440: 510</p> <p>To convert the external DNs in the range 3440 to 3465, enter:</p> <p>Prompt: Response</p> <p>IDGT: 3440 3465</p> <p>3440: 444</p> <p>3441: 445</p> <p>.</p> <p>.</p> <p>3465: 469</p> <p>This is not a prompt. This is the DID directory number which delineates the following prompt.</p>
INIT	ALLOW DENY	<p>Initial</p> <p>To specify digit strings to be denied</p> <p>To specify digit strings to be allowed</p> <p>Entering DNs may be affected by the Outpulsing feature for Japan.</p>
REQ		<p>Request</p>
	CHG END MOV NEW OUT PRT RLS RPL	<p>Change an existing data block</p> <p>Exit Overlay program</p> <p>Move existing data block to a new customer and/or NFCR tree data block</p> <p>Create a new data block</p> <p>Remove a specified NFCR tree data block</p> <p>Print NFCR tree data block</p> <p>Release all NFCR data blocks for a specified customer</p> <p>Replace data in the specified NFCR tree data block with new data</p>
TO	0-99 0-254	<p>Destination customer and tree number</p>

Prompt	Response	Comment
TYPE	FCR IDC	Type of data block NFCR data block Incoming Digit Conversion data block
UPDT	(YES) NO	Update Tree Data is correct and can update the NFCR tree.

LD 50—Call Park and Modular Telephone Relocation

Overlay program 50 allows the implementation and administration of the Call Park and Meridian Modular Telephone Relocation features.

Prompts and responses

Call Park data

Prompt	Response	Comment
REQ	aaa	Request
TYPE	CPK	Type of data block = CPK (Call Park)
CUST	xx	Customer number associated with this function
BLOC	1-5	Call Park block number
CPTM	30-(45)-240	Call Park Timer (in seconds)
RECA	(NO) YES	Recall parked call to attendant
SPDN	(0)-50 xxxx	Number of contiguous system park DN's and first DN
MURT	0-511	Music Route

Meridian Modular Telephone ID change during relocation

The serial number, NT code, color code or release information stored in a Meridian Modular Telephone may be changed during the relocation sequence. This can only be done after the set has “relocated out” and before it is “relocated in” to the new location. An application of this occurs when the terminal is being replaced with one of the same type and requires the same key configuration.

See Set Relocation Data in LD 21, and IDU: Print set ID command in LD 32.

Prompt	Response	Comment
REQ	aaa	Request = CHG or OUT
TYPE	MTRT	Type of data block = MTRT (Meridian Modular Telephone Relocation Table)
TN	l s c u	Terminal Number
SER	xxxxxx	Serial number
NTCD	xxxxxxxx	NT (product) Code
COLR	xx	Color
RLS	xx	Release

Alphabetical list of prompts

Prompt	Response	Comment
BLOC	1-5	Call Park block number Where:1-5 allows the system administrator to define the subsequent prompts. After subsequent prompts have been defined, the administrator is returned to the BLOC prompt until a carriage return (<cr>) is entered. The Primary Call Data Block (block 1) must be defined before any SecondaryCall Park Blocks (2-5) can be added.
	ALL <cr>	Enter ALL when REQ = OUT to remove all Call Park Blocks Enter <cr> to return to the REQ prompt. BLOC is prompted if CPRKNET package 306 is equipped.
COLR	xx	Color of Meridian Modular Telephone. The color codes are: <ul style="list-style-type: none"> • 03 is black • 35 is chameleon ash • 93 is dolphin
CPTM	30-(45)-240 30-(45)-480	Call Park Timer (in seconds) Call Park recall time (in seconds) if CPRK package 33 is equipped The amount of time a call is held in the parked state before recalling the parking set or the attendant.
CUST	xx	Customer number associated with this function as defined in LD 15
MURT	0-511 X	Music Route number for parked calls Remove existing music route.
NTCD	xxxxxxx	New NT (product) Code of Meridian Modular Telephone
RECA	(NO) YES	Recall Attendant Unanswered parked calls recall the parking set Unanswered parked calls recall the attendant
REQ	CHG END NEW OUT PRT	Request Change existing data block Exit Overlay program. Create a new Call Park data block (not applicable if TYPE = MTRT) Remove data block Print call park data block (not applicable if TYPE = MTRT)

LD 50

Prompt	Response	Comment
RLS	xx	New Release of Meridian Modular Telephone
SER	xxxxxx	New Serial Number of Meridian Modular Telephone
SPDN	xx yyyy	System Park DNs Number of contiguous System Park DNs, and first DN Up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. Where: xx = # of contiguous System Park DNs. The range is: <ul style="list-style-type: none">• (0)-100 yyyy = First Call Park DN
TN	I s c u	Terminal Number Old Terminal Number of set in relocation table
TYPE	CPK MTRT	Type of data block Call Park data block Meridian Modular Telephone Relocation Table

LD 56—Flexible Tones and Cadences

Flexible Tones and Cadences (FTC) is an optional feature which is used to customize the tones provided to telephone users. FTC is primarily intended for international markets where tones which are different from the North American defaults are required.

Overlay program 56 allows the implementation and administration of tone and ringing parameters for one or more customers. If the FTC feature (package 125) is not equipped, North American tones and cadences are used.

An FTC table number can be entered for each trunk route at prompt TTBL in LD 16. Table 0 is the default for all trunk routes and contains the defaults for North America.

What are tones and cadences?

Tones are used to provide call status to telephone users. A tone is defined by both the frequency and volume of the sound.

Tones are provided in on and off phases. One or more cycles of on/off cycles make up a tone's cadence. For example, the default cadence for normal North American ringing is 2 seconds on, 4 seconds off, 2 seconds on, 4 seconds off, and so on.

Flexible Tone and Cadence (FTC) Tables

FTC tables define the tones and cadences used for various calling features. Up to 31 FTC tables can be created. Each table can be associated with one or more trunk routes by entering the table number in response to prompt TTBL in LD 16.

Master Cadence Table (MCAD)

The Master Cadence Table (MCAD) defines cadences that are controlled by software. These are used for single line sets (500/2500) and digital sets.

The MCAD can have 256 entries (0-255). Each entry can have up to 10 on/off phases each. Entry 0 is reserved for continuous tone and cannot be changed. Entries 1-15 are reserved for ringing cadences.

Most of the software cadences are continuously repetitive unless it is specified that the tone should end after the last phase. There are four exceptions to this rule: prompts ACBT, AOBT, INTU and OVRD cadences repeat the last 8 phases. This allows a special initial tone burst to be defined. To have the first cycle repeat, it must be defined as both the first and last cycle.

A cadence is defined at the CDNC prompt by entering the time for each on and off phase. The time depends on the settings for the TMRK prompt in LD17 which defines the software cadence increments as 96 or 128 ms. For each phase, enter the closest multiple of 5 ms equal to the multiple of 96 or 128 ms which gives the a time \geq the time required.

The range for the first phase is 1-9999. The range for the second phase is 0-9999. Once an MCAD entry has been created, it can be changed but not removed.

For example, given LD 17 TMRK is set to 128 ms, and a repeating 2 seconds on, 4 seconds off cadence is required.

- 1 Determine the ON phase (2 seconds = 2000 ms)
 $2000/128 = 15.625 = 16$ (always round up)
 $128 \times 16 = 2048$ ms
multiple of 5 closet to 2048 ms = 2050
Entry for prompt CDNC = $2050/5 = 0410$
- 2 Determine the OFF phase (4 seconds = 4000 ms). By using the same calculation, the entry for prompt CDNC = 0820.
- 3 To define the cadence, respond to the prompts as follows:

REQ NEW, CHG
 TYPE MCAD
 WCAD 1-255
 CDNC 0410 0820

To define the cadence: 2 s on, 4 s off, 4 s on, 2 s off, repeat cycle 1 and 2, enter:

CDNC 0410 0820 0820 0410

To define the cadence: 2 s on, then steady off, enter:

CDNC 0410, or
 CDNC 0410 0000

If an odd number of non-zero phases are entered, software ends the tone after the last ON phase. Once a zero phase has been entered, it cannot be followed by non-zero phases. A carriage return at any phase results in zero for the remaining phases.

Once the cadence is defined, it can be entered in response to the CDNC prompt for a given feature. For example, CDNC is output after the Call Waiting tone prompt.

Firmware Cadence Table (FCAD)

The Firmware Cadence Table (FCAD) defines cadences that are controlled by an NT8D17 Conference/TDS/MFS card.

The FCAD can have 256 entries (0-255). Each entry can have up to 10 on/off phases. Entry 0 is reserved for continuous tone and cannot be changed. Entries 1-15 are reserved for ringing cadences. Each phase is in multiples of 5 ms.

FCAD cadences have the following capabilities:

- Each cadence may be defined to end at the “on” phase, the “off” phase, or repeat after a single pass through the defined on/off cycles. Any or all of the five cycles can be repeated.
- Unique tones can be defined for each “on” phase. These tones are permanently held in the Conference/TDS/MFS firmware.

In order to have the same cadences on 500/2500/digital telephones and SL-1 telephones, the MCAD and FCAD entries 0-15 are identical. Changes to MCAD entries 1-15 automatically change FCAD entries 1-15. The FCAD entries 1-15 can only be changed by changing the MCAD entries 1-15.

The Conference/TDS/MFS card must be disabled and then re-enabled to download changed firmware cadences.

Examples of creating firmware cadences:

1 For a cadence of 2 s on, 4 s off, repeat:

```
REQ NEW, CHG, PRT
TYPE FCAD
WCAD 1-255
CDNC 0410 0820
```

END REPT

CYCS 1 (on/off cycles to be repeated)

WTON NO (use default tone for this cadence)

2 For a cadence of 2 s on, 4 s off, 3 s on, 5 s off, repeat:

```
REQ NEW, CHG, PRT
TYPE FCAD
WCAD 1-255
CDNC 0410 0820 0614 0998
```

END REPT

CYCS 1 2 (on/off cycles to be repeated)

WTON NO (use default tone for this cadence)

3 For a cadence of:

0.1 s on at 950 Hz, 19 dB below overload A-law, 0.1 off

0.1 s on at 1400 Hz, 20 dB below overload A-law, 0.1 off

0.1 s on at 1800 Hz, 20 dB below overload A-law, steady off

```
REQ NEW, CHG, PRT
```

```
TYPE FCAD
```

```
WCAD 1-255
```

```
CDNC 0020 0020 0020 0020 0020
```

END OFF

WTON YES (define tones for this cadence)

TONES 134 135 136 (See NT8D17 Conference/TDS tone table)

TDS and NT8D17 Conference/TDS/MFS cards

There are two types of cards providing tones and cadences:

- Tone and Digit Switch (TDS) cards
- NT8D17 Conference, TDS and Multi-Frequency (MF) Sender card

There are a variety of TDS cards. Each card provides a different set of tones and cadences. When a TDS card is used for SL-1 sets, each tone and cadence is identified by a hexadecimal code. The decimal equivalents for these hex codes are entered at the TDSH prompt for each calling feature.

Refer to the the *Flexible Tones and Cadences* NTP for the appropriate codes.

When the NT8D17 Conference/TDS/MFS cards are used, the tones and cadences are defined by the following prompts:

- XCAD = 0-255 - entry in the Firmware Cadence Table (FCAD)
- XTON = 0-255 - tone stored in the card firmware
- CDNC = 0-255 - entry in Master Cadence Table (MCAD)

The ringing cadences for all telephones use the Master Cadence Table (MCAD). MCAD entries 1-15 are downloaded to the Peripheral Controller to provide ringing.

Time interval for Call Forward

For Call Forward No Answer (CFNA), the time interval before a call is forwarded is measured by the time interval for one ring cycle (defined at NCAD prompt) times the number of ring cycles (defined at CFNA prompt in LD 15).

All other types of ringing forward a call after this same time interval regardless of cadence. For example, those with a faster cadence will forward after more rings, those with a slower cadence after fewer rings.

Installing FTC

These steps outline the process to install the FTC feature and change the default tones and cadences for one or more calling features.

To assist in fault clearing, it is recommended that you keep a record of all changes.

- 1 Load Overlay 56
- 2 Define new MCAD cadences
- 3 Define new FCAD tones and cadences
- 4 Create one or more FTC tables (one for each trunk route requiring different tones and cadences)
- 5 Define the non-default tones and cadences for each FTC table
- 6 Enter the FTC table number for each trunk route (LD 16 prompt TTBL)
- 7 If a Conference/TDS/MFS card is equipped, then follow these steps:
 - a set options in LD 97
 - b initialize the system (INIT)
 - c disable and enable each Conf/TDS/MFS card (LD 34)
 - d disable and enable each Controller (LD 32)

Note 1: The Master Cadence Table (MCAD) defines cadences that are controlled by software. These are used for single line sets (500/2500) and digital sets.

MCAD can have up to 256 entries (0-255). Each entry can have up to 10 on/off phases. Entry 0 is reserved for continuous tone and cannot be changed. Entries are reserved for ringing cadences.

To define an MCAD cadence, enter the time for each on and off phase. Phases are in 5 ms increments. For example, enter 200 to have a phase last 1 second ($200 \times 5 \text{ ms} = 1000 \text{ ms} = 1 \text{ second}$).

The range for the first phase is 1-9999. The range for the second phase is 0-9999. Once an MCAD entry has been created, it can be changed but not removed.

Note 2: Prompts with the response i bb c tt are only prompted for systems equipped with Tone and Digit cards.

- i = internal (0) or external (1) source
- bb = burst
- cc = cadence
- tt = frequency/level

Prompts with the response i bb c tt define the Internal/External source, burst, cadence and frequency/level respectively. Enter the decimal equivalent (0-15) of the TDS Hex code (refer to 553-2711-180).

The first field is usually 0. If an external source is used the entry is 1 and the fourth field is 0-7 for the specified channel.

Note 3: The Firmware Cadence Table (FCAD) defines cadences that are controlled by the NT8D17 Conference /TDS/MFS card. These are used for SL-1 sets.

The FCAD can have up to 256 entries (0-255). Each entry can have up to 10 on-off phases. Entry 0 is reserved for continuous tone and cannot be changed.

FCAD cadences have the following capabilities:

- each cadence may be defined to end on the ON phase, OFF phase or repeat after a single pass through all defined on-off cycles. Any or all of the five on-off cycles can be repeated.
- a unique tone can be defined for each on phase. These tones are permanently held in the Conference/TDS/MFS firmware.

In order to have the same cadences for 500/2500 Digital and SL-1 sets, the MCAD and FCAD entries 0 through 15 are identical. Changes to MCAD entries 1 through 15 automatically change MCAD entries 1 through 15. FCAD entries 1 through 15 cannot be changed without changing the MCAD entries.

Note 4: The cadences for Software Controlled Cadence Tones AOBT (Agent Observe Tone), INTU (Intrusion tone) and OVRD (Override tone) do not repeat in the same manner as the other tones. All other tones repeat all on-off cycles from the first up to the fifth if all ten on and off times are programmed. However, these tones reserve cycle 1 for special use, providing a tone burst of a different length if desired, to emphasize the initial iteration of the tone cycle.

Note 5: A cycle of 200 3200 50 3200 will have a 200 millisecond tone followed by 3.2 seconds of silence. After this initial burst, the tone will repeat in a 50 millisecond on, 3.2 seconds off pattern as long as the time remains valid. However, if the pattern is intended to not have an initial burst, the first two entries must be repeated as the last two entries to obtain the correct sequence.

As an example, if the desired tone is repeating sequence of 50 ms on, 100 ms off, 100 ms on, 50 ms off, 50 ms on, 3500 ms off, the entry must be as follows:

50 100 100 50 50 3500 50 100

Prompts and responses

Table of Contents

Section	Page
<i>Prompts and responses by data block :</i>	
<u>FCAD: Firmware Cadence data block</u>	<u>page 620</u>
<u>FTC: Flexible Tones and Cadences data block</u>	<u>page 621</u>
<u>MCAD: Master cadence data block</u>	<u>page 629</u>
<u>RART: Route Access Restriction table data block</u>	<u>page 629</u>
<u>RCDT: Route Category Default Table data block</u>	<u>page 630</u>
<u>TBAR: Trunk Barring data block</u>	<u>page 630</u>
<u>Print a customer defined route's ART course</u>	<u>page 630</u>
<i>Other Information :</i>	
<u>Default Firmware Cadence (FCAD) tables</u>	<u>page 632</u>

FCAD: Firmware Cadence data block

Prompt	Response	Comment
REQ	aaa	Request
TYPE	FCAD	Type of data block = FCAD (Firmware Cadence)
WCAD	0-225	Cadence Number (0 is reserved for continuous tone and cannot be changed)
CDNC	xxxx xxxx ... xxxx	Cadence
END	a...a	End treatment for cadence (a...a = REPT, ON, or OFF)
- CYCS	x x x x	Cycles
- WTON	(NO) YES	Define Tones associated with the cadence
- - TONES	ttt ttt ...	NT8D17 tones (0-255) to be used with each phase of the cadence

FTC: Flexible Tones and Cadences data block

An FTC table number can be entered for each trunk route at prompt TTBL in LD16. Table 0 is the default for all trunk routes and contains the defaults for North America.

Prompt	Response	Comment
REQ	aaa	Request
TYPE	FTC	Type of data block = FTC (Flexible Tones and Cadences)
TABL	0-31	FTC Table number
USER	(NO) YES	Print users of this table and tone table values (tone table value only)
DFLT	0-31	Default to existing FTC tone table
RING	(NO) YES	Change the ringing feature definitions
- NCAD	(1)-255	Normal Cadence
- NBCS		Normal BCS (SL-1 set) ringing
- - TDSH	i bb c tt	TDS Hex (Default is 0032)
- - XTON	0-(2)-255	XCT Tone code
- DCAD	0-(2)-255	Distinctive Cadence
- DBCS		Distinctive BCS (SL-1 set) ringing
- - TDSH	i bb c tt	TDS Hex (Default is 0082)
- - XTON	0-(2)-255	XCT Tone code
- ICAD	0-(5)-255	Intercom Cadence
- IBCS		Intercom ringing for BCS (SL-1)sets
- - TDSH	i bb c tt	TDS Hex (Default is 0012)
- - XTON	0-(2)-255	XCT Tone code
- RCAD	0-(1)-255	Recall Cadence
- RBCS		Recall for BCS (SL-1) sets
- - TDSH	i bb c tt	TDS Hex (Default is 0032)
- - XTON	0-(2)-255	XCT Tone code

- GCAD	0-(1)-255	Group Call Cadence
- GBCS		Group Call for BCS (SL-1) sets
- - TDSH	i bb c tt	TDS Hex (Default is 0082)
- - XTON	0-(2)-255	XCT Tone code
- HCAD	0-(1)-255	Held call reminder Cadence
- HBCS		Held call reminder ringing for BCS (SL-1) sets
- - TDSH	i bb c tt	TDS Hex(Default is 0082)
- - XTON	0-(2)-255	XCT Tone code
- PCAD	0-255	Recall or Misoperation Cadence
- PBCS		Recall or Misoperation ringing for BCS
- - TDSH	i bb c tt	TDS Hex (Default is 0032)
- - XTON	0-(4)-255	XCT Tone code
HCCT	(NO) YES	Hardware Controlled Cadences and Tones
- DIAL		Dial tone
- EEST		End-to-End Signaling Feedback Tone
- - TDSH	i bb c tt	TDS Hex (Default is 0004)
- - XTON	0-(4)-255	XCT Tone code
- - XCAD	(0)-55	For EEST, this value is set to 0 no matter what is entered. XCT Cadence number (FCAD cadence number)
- SPCL		Special dial tone
- - TDSH	0 00 0 tt	TDS Hex (Default is 0004)
- - XTON	0-(4)-255	XCT Tone code
- - XCAD	(0)-255	XCT Cadence number (FCAD Cadence number)
- CDT		Control Dial Tone
- - TDSH	i bb c tt	TDS Hex (Default is 0004)
- - XTON	0-(4)-255	XCT Tone code
- - XCAD	(0)-255	XCT Cadence number
- CFDT		Call Forward Dial Tone
- - TDSH	i bb c tt	TDS Hex (Default is 0004)

-- XTON	0-(4)-255	XCT Tone code
-- XCAD	(0)-255	XCT
- MWDT		Message Waiting Dial Tone
-- TDSH	i bb c tt	TDS Hex (Default is 0024)
-- XTON	0-(4)-255	XCT Tone code
-- XCAD	0-(17)-255	XCT Cadence number
- CFMW		Call Forward Message Waiting tone
-- TDSH	i bb c tt	TDS Hex (Default is 0024)
-- XTON	0-(4)-255	XCT Tone code
-- XCAD	0-(17)-255	XCT Cadence number
- BUSY		Busy tone
-- TDSH	i bb c tt	TDS Hex (Default is 0017)
-- XTON	0-(7)-255	XCT Tone code
-- XCAD	0-(16)-255	XCT Cadence number
- RGBK		Ringback tone
-- TDSH	i bb c tt	TDS Hex (Default is 0035)
-- XTON	0-(5)-255	XCT Tone code
-- XCAD	0-(1)-255	XCT Cadence number
- PREM		Preemption tone
-- TDSH	i bb c tt	TDS Hex (Default is 0006)
-- XTON	0-(6)-255	XCT Tone code
-- XCAD	(0)-255	XCT Cadence number
- PRBK		Precedence Ringback tone
-- TDSH	i bb c tt	TDS Hex (Default is 0008D)
-- XTON	0-(11)-255	XCT Tone code
-- XCAD	0-(2)-255	XCT Cadence number
- ARBK		ACD RGA (Ring Again) Ringback tone
-- TDSH	i bb c tt	TDS Hex (Default is 0008D)
-- XTON	0-(11)-255	XCT Tone code

LD 56

-- XCAD	0-(2)-255	XCT Cadence number
- FFCT		Flexible Feature Code Confirmation Tone
-- TDSH	i bb c tt	TDS Hex (Default is 0004)
-- XTON	0-(4)-255	XCT tone code
-- XCAD	(0)-255	XCT Cadence number
- LIMIT		Log In Mode Tone for 500/2500 ACD sets
-- TDSH	i bb c tt	TDS Hex (Internal/External, burst, cadence and tone)
-- XTON	0-255	XCT Tone code
-- XCAD	0-255	XCT Cadence number
- NRMT		Not Ready (NRDY) Mode Tone for ACD sets
-- TDSH	i bb c tt	TDS Hex (Internal/External, burst, cadence and tone)
-- XTON	0-255	XCT Tone code
-- XCAD	0-255	XCT Cadence number
- AWUT		Automatic Wake Up special error Tone
-- TDSH	i bb c tt	TDS Hex (Default is 0027)
-- XTON	0-(4)-255	XCT Tone code
-- XCAD	(0)-255	XCT Cadence number
- OVFL		Overflow tone
-- TDSH	i bb c tt	TDS Hex (Default is 0027)
-- XTON	0-(7)-255	XCT Tone code
-- XCAD	0-(17)-255	XCT Cadence number
- TEST		Test tone
-- TDSH	0 0 0 tt	TDS Hex (Default is 0008)
-- XTON	0-(8)-255	XCT Tone code
-- XCAD	(0)-255	XCT Cadence number
- ERWT		Expensive Route Warning Tone
-- TDSH	0 0 0 tt	TDS Hex (Default is 0003)
-- XTON	0-(3)-255	XCT Tone code
-- XCAD	(0)-255	XCT Cadence number

- PCWT		Precedence Call Waiting Tone
- - TDSH	0 0 0 tt	TDS Hex (Default is 0003)
- - XTON	0-(3)-255	XCT Tone code
- - XCAD	(0)-255	XCT Cadence number (FCAD Cadence number)
- ACFT		ACD Call Force Tone
- - TDSH	0 0 0 tt	TDS Hex (Default is 0003)
- - XTON	0-(3)-255	XCT Tone code
- - XCAD	(0)-255	XCT Cadence number
- TLP		Tone to Last Party
- - TDSH	i bb c tt	TDS Hex (Default is 0003)
- - XTON	(0)-255	XCT Tone code
- - XCAD	(0)-255	XCT Cadence number
- TLPT	(0)-30	Tone to Last Party Timer in seconds. No tone = 0
- PATI		Patience tone Multi-Party Operations
- - TDSH	i bb c tt	TDS Hex (Default is 0000)
- - XTON	(0)-255	XCT Tone code
- - XCAD	(0)-255	XCT Cadence number
CAB	(NO) YES	M911 Call Abandon on Answer tone
- TDSH	i bb cc tt	TDS external, burst, cadence and tone
- XTON	0-255	NT8D17 TDS Tone code
- XCAD	0-255	NT8D17 Cadence code for FCAD
CAST	(NO) YES	Centralized Attendant Service Tones
- LDN		Listed Directory Number tone
- - TDSH	i bb c tt	TDS Hex (Default is 0346)
- - XTON	(0)-255	XCT Tone code
- - XCAD	0-(24)-255	XCT Cadence number
- - CDNC	0-(16)-255	MCAD software Cadence number

LD 56

- DI0		Dial 0 Recall tone
- - TDSH	i bb c tt	TDS Hex (Default is 0283)
- - XTON	0-(3)-255	XCT Tone code
- - XCAD	0-(22)-255	XCT Cadence number
- - CDNC	0-(16)-255	MCAD software Cadence number
- HLDC		Hold Confirmation tone
- - TDSH	i bb c tt	TDS Hex (Default is 0346)
- - XTON	(0)-255	XCT Tone code
- - XCAD	0-(24)-255	XCT Cadence number
- - CDNC	0-(16)-255	MCAD software Cadence number
- CPNC		Camp-On Confirmation tone
- - TDSH	i bb c tt	TDS Hex (Default is 0243)
- - XTON	0-(3)-255	XCT Tone code
- - XCAD	0-(21)-255	XCT Cadence number
- - CDNC	0-(17)-255	MCAD software Cadence number
SCCT	(NO) YES	Software Controlled Cadences and Tones
ILIN		NXCC pending agent Login tone
ILOU		NXCC pending agent Logout tone
- CAMP		Camp-On tone
- - TDSH	i bb c tt	TDS Hex (Default is 0003)
- - XTON	0-(3)-255	XCT Tone code
- - XCAD	(0)-255	XCT Cadence number
- - CDNC	0-(17)-255	MCAD software cadence number
- AOBT		Agent Observe Tone
- - TDSH	i bb c tt	TDS Hex (Default is 0003)
- - XTON	0-(3)-255	XCT Tone code
- - XCAD	(0)-255	XCT Cadence number
- - CDNC	0-(18)-255	MCAD software cadence number
- INTU		Intrusion tone

-- TDSH	i bb c tt	TDS Hex (Default is 0003)
-- XTON	0-(3)-255	XCT Tone code
-- XCAD	(0)-255	XCT Cadence number
-- CDNC	0-(19)-255	MCAD software cadence number
- CWT		Call Waiting Tone
-- TDSH	i bb c tt	TDS Hex (Default is 0003)
-- XTON	0-(3)-255	XCT Tone code
-- XCAD	(0)-255	XCT Cadence number
-- CDNC	0-(20)-255	MCAD software cadence number
- OBKT		Observe Blocking Tone
-- TDSH	i bb c tt	TDS Hex (Default is 0003)
-- XTON	0-(3)-255	XCT Tone code
-- XCAD	(0)-255	XCT Cadence number
-- CDNC	0-(17)-255	MCAD software cadence number
- OVRD		Override tone
-- TDSH	i bb c tt	TDS Hex (Default is 0003)
-- XTON	0-(3)-255	XCT Tone code
-- XCAD	(0)-255	XCT Cadence number
-- CDNC	0-(18)-255	MCAD software cadence number
- OHQ		Off-Hook Queuing tone
-- TDSH	i bb c tt	TDS Hex (Default is 0003)
-- XTON	0-(3)-255	XCT Tone code
-- XCAD	(0)-255	XCT Cadence number
-- CDNC	0-(3)-255	MCAD software cadence number
- SRT		Set Relocation Tone
-- TDSH	i bb c tt	TDS Hex (Default is 0003)
-- XTON	0-(3)-255	XCT Tone code
-- XCAD	(0)-255	XCT Cadence number
-- CDNC	0-(22)-255	MCAD software cadence number
- TMAT		Telephone Messaging Alert Tone

-- TDSH	i bb c tt	TDS Hex (Default is 0003)
-- XTON	0-(3)-255	XCT Tone code
-- XCAD	(0)-255	XCT Cadence number
-- CDNC	0-(22)-255	MCAD software cadence number

- TMOT		Telephone Messaging OK Tone
-- TDSH	i bb c tt	TDS Hex (Default is 0003)
-- XTON	0-(3)-255	XCT Tone code
-- XCAD	(0)-255	XCT Cadence number
-- CDNC	0-(23)-255	MCAD software cadence number

- TSUT		Telephone Status Update Tone
-- TDSH	i bb c tt	TDS Hex (Default is 0003)
-- XTON	0-(3)-255	XCT Tone code
-- XCAD	(0)-255	XCT Cadence number
-- CDNC	0-(23)-255	MCAD software cadence number

SRC	(NO) YES	Source
-----	----------	--------

- SRC1		Source tone 1
-- TDSH	i bb c tt	TDS Hex (Default is 0000)
-- XTON	(0)-255	XCT Tone code
-- XCAD	(0)-255	XCT Cadence number
- SRC2		Source tone 2
- SRC3		Source tone 3
- SRC4		Source tone 4
- SRC5		Source tone 5
- SRC6		Source tone 6
- SRC7		Source tone 7
- SRC8		Source tone 8

PULS	(NO) YES	Pulse timers are to be changed
------	----------	--------------------------------

- P10	4 (8)	Codes for make/break ratio for 10 pps
- ID1	256-(768)-1024	Inter-Digit 1
- ID2	256-(512)-1024	Inter-Digit 2

- IDD	256-1024	Inter-Digit DTMF
- IDE	256-(384)	EOS interdigital pause in milliseconds

MCAD: Master cadence data block

Prompt	Response	Comment
REQ	aaa	Request
TYPE	MCAD	Type of data block = MCAD (Master cadence)
WACD	0-225	Cadence Number (0 is reserved for continuous tone and cannot be changed)
CDNC	xxxx xxxx ... xxxx	Cadence

RART: Route Access Restriction table data block

Prompt	Response	Comment
REQ	CHG	Request. REQ = NEW or OUT is not accepted for RART.
TYPE	RART	Type of data block = RART (Route Access Restriction table)
CUST	(0)-xx	Customer number
ROUT	(0)-127	Route
ART	1-63	Access Restriction Table

RCDT: Route Category Default Table data block

Prompt	Response	Comment
REQ	CHG	Request. When TYPE = RCDT, you cannot enter NEW or OUT at the REQ prompt.
TYPE	RCDT	Type of data block = RCDT (Route Category Default table)
COT	(0)-63	COT, FEX, WAT. These route types will be assigned the entered ART when the route is created in LD16.
DID	(0)-63	These route types will be assigned the entered ART when the route is created in LD16
TIE	(0)-63	CAA, CAM, CSA, TIE
OTH	(0)-63	Other

TBAR: Trunk Barring data block

Prompt	Response	Comment
REQ	NEW CHG	Request
TYPE	TBAR	Type of data block = TBAR (Trunk Barring)
ART	1-63	Access Restriction Table
DENY	yyy yyy ...	Enter ART number denied to Originating Trunk Connection (OTC)

Print a customer defined route's ART course

Prompt	Response	Comment
REQ	PRT	Request
TYPE	aaa	Type of data block
CUST	(0)-xx	Customer number
ROUT	(0)-127	Route

Default Master Cadence (MCAD) tables

WCAD =	DEFAULT MCAD TABLE (Master Cadence Table)
000	CDNC = 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000
001	CDNC = 0410 0800 0000 0000 0000 0000 0000 0000 0000 0000
002	CDNC = 0308 0076 0308 0076 0000 0000 0000 0000 0000 0000
003	CDNC = 0205 0000 0000 0000 0000 0000 0000 0000 0000 0000
004	CDNC = 0102 0102 0205 0819 0000 0000 0000 0000 0000 0000
005	CDNC = 0100 0100 0000 0000 0000 0000 0000 0000 0000 0000
016	CDNC = 0128 0000 0000 0000 0000 0000 0000 0000 0000 0000
017	CDNC = 0051 0000 0000 0000 0000 0000 0000 0000 0000 0000
018	CDNC = 0205 3072 0051 3072 0000 0000 0000 0000 0000 0000
019	CDNC = 0205 1229 0051 1229 0000 0000 0000 0000 0000 0000
020	CDNC = 0051 0026 0051 2048 0000 0000 0000 0000 0000 0000
021	CDNC = 0410 0000 0000 0000 0000 0000 0000 0000 0000 0000
022	CDNC = 0102 0000 0000 0000 0000 0000 0000 0000 0000 0000
023	CDNC = 0512 0000 0000 0000 0000 0000 0000 0000 0000 0000

Master Cadence (MCAD) table for Japan

001	CDNC = 0050 0050 0050 0450 0000 0000 0000 0000 0000 0000
002	CDNC = 0200 0400 0000 0000 0000 0000 0000 0000 0000 0000

Default Firmware Cadence (FCAD) tables

WCAD = DEFAULT FCAD TABLE (Firmware Cadence Table)	
000	Cadence number in the Master Cadence table (MCAD) CDNC = 0000 0000 0000 0000 0000 0000 0000 0000 0000 END = OFF SPCL = NO
001	Cadence number in the Master Cadence table (MCAD) CDNC = 0410 0800 0000 0000 0000 0000 0000 0000 0000 END = REPT CYCS = 1 SPCL = NO
002	Cadence number in the Master Cadence table (MCAD) CDNC = 0308 0076 0308 0076 0000 0000 0000 0000 0000 END = REPT CYCS = 1 2 SPCL = NO
003	Cadence number in the Master Cadence table (MCAD) CDNC = 0205 0000 0000 0000 0000 0000 0000 0000 0000 END = OFF SPCL = NO
004	Cadence number in the Master Cadence table (MCAD) CDNC = 0102 0102 0205 0819 0000 0000 0000 0000 0000 END = REPT CYCS = 1 2 SPCL = NO
005	Cadence number in the Master Cadence table (MCAD) CDNC = 0100 0100 0000 0000 0000 0000 0000 0000 0000 END = REPT CYCS = 1 SPCL = NO
(Part 1 of 3)	

WCAD = DEFAULT FCAD TABLE (Firmware Cadence Table)	
016	Cadence number in the Master Cadence table (MCAD) CDNC = 0100 0100 0000 0000 0000 0000 0000 0000 0000 0000 END = REPT CYCS = 1 SPCL = NO
017	Cadence number in the Master Cadence table (MCAD) CDNC = 0050 0050 0000 0000 0000 0000 0000 0000 0000 0000 END = REPT CYCS = 1 SPCL = NO
018	Cadence number in the Master Cadence table (MCAD) CDNC = 0010 0010 0000 0000 0000 0000 0000 0000 0000 0000 END = REPT CYCS = 1 SPCL = NO
019	Cadence number in the Master Cadence table (MCAD) CDNC = 0040 0060 0000 0000 0000 0000 0000 0000 0000 0000 END = REPT CYCS = 1 SPCL = NO
020	Cadence number in the Master Cadence table (MCAD) CDNC = 0015 0000 0000 0000 0000 0000 0000 0000 0000 0000 END = OFF SPCL = NO
021	Cadence number in the Master Cadence table (MCAD) CDNC = 0020 0000 0000 0000 0000 0000 0000 0000 0000 0000 END = OFF SPCL = NO
022	Cadence number in the Master Cadence table (MCAD) CDNC = 0020 0020 0020 0000 0000 0000 0000 0000 0000 0000 END = OFF SPCL = NO
(Part 2 of 3)	

WCAD = DEFAULT FCAD TABLE (Firmware Cadence Table)	
023	Cadence number in the Master Cadence table (MCAD) CDNC = 0060 0000 0000 0000 0000 0000 0000 0000 0000 0000 END = OFF SPCL = NO
024	Cadence number in the Master Cadence table (MCAD) CDNC = 0020 0000 0020 0000 0020 0000 0000 0000 0000 0000 END = OFF SPCL = YES
025	Cadence number in the Master Cadence table (MCAD) CDNC = 0200 0000 0000 0000 0000 0000 0000 0000 0000 0000 END = OFF SPCL = NO
026	Cadence number in the Master Cadence table (MCAD) CDNC = 0050 0000 0000 0000 0000 0000 0000 0000 0000 0000 END = OFF SPCL = NO
027	Cadence number in the Master Cadence table (MCAD) CDNC = 0400 0000 0000 0000 0000 0000 0000 0000 0000 0000 END = OFF SPCL = NO
028	Cadence number in the Master Cadence table (MCAD) CDNC = 0125 0000 0000 0000 0000 0000 0000 0000 0000 0000 END = OFF SPCL = NO
029	Cadence number in the Master Cadence table (MCAD) CDNC = 0030 0070 0000 0000 0000 0000 0000 0000 0000 0000 END = REPT CYCS = 1 SPCL = NO
(Part 3 of 3)	

Firmware Cadence (FCAD) table for Japan

WCAD =	DEFAULT FCAD TABLE (Cadence Table for JAPAN TDS)
001	Cadence number in the Master Cadence table (MCAD) CDNC = 0200 0400 0000 0000 0000 0000 0000 0000 0000 0000 END = REPT CYCS = 1 2 SPCL = NO
002	Cadence number in the Master Cadence table (MCAD) CDNC = 0050 0050 0050 0450 0000 0000 0000 0000 0000 0000 END = REPT CYCS = 1 SPCL = NO
017	Cadence number in the Master Cadence table (MCAD) CDNC = 0100 0050 0000 0000 0000 0000 0000 0000 0000 0000 END = REPT CYCS = 1

Alphabetical list of prompts

Prompt	Response	Comment
ACFT		<p>ACD Call Force Tone</p> <p>When defining the hex codes for this tone, only the code for the frequency/level is required as the cadence is provided by software. Enter zero for the other values (e.g., TDSH = 0 0 0 xx, XTON = xxx, XCAD = 000).</p>
AOBT		<p>Agent Observe Tone</p> <p>This cadence repeats the last 8 on/off phases to allow for a special tone burst on the first cycle. For example, a cadence is defined as 3 s on, 3 s off, 1 s on, 3 s off.</p> <p>After the initial burst, the tone repeats in a 1 s on, 3 s off pattern. In order to repeat the initial 3 s burst, it must be entered as the first and last cycle because the first cycle is not repeated. In this case the cadence is defined as: 3 s on, 3 s off, 1 s on, 3 s off, 3 s on 3 s off.</p>
ARBK		ACD RGA (Ring Again) Ringback tone
ART	1-63 <cr>	<p>Access Restriction Table Return to REQ prompt</p> <p>ART remains unchanged Printing of the route category default table occurs</p>
AWUT		Automatic Wake Up special error Tone
BUSY		Busy tone
CAB	(NO) YES	M911 Call Abandon on Answer tone
CAMP		Camp-On tone
CAST	(NO)YES	<p>Centralized Attendant Service Tones</p> <p>Modification to the CAS (Centralized Attendant Service) tone definition.</p> <p>For systems with XCT cards, each feature requires a firmware cadence (XCAD), a software cadence (CNDN) and tone (XTON).</p> <p>Due to the finer resolution of the firmware cadence (5 ms) compared to the software (96/128 ms), you should allow the software cadence to be long enough to cover the full duration of the XCAD.</p>

Prompt	Response	Comment
		<p>For example, to define a cadence of 0.1 s on, 0.1 s off, 0.1 s on, steady off</p> <ul style="list-style-type: none"> • CDNC0020 0020 0020 0000 • END OFF • SPCL <p>The software cadence is then 0.3 s (600 ms). If the software precision is 128 ms, the software cadence is calculated as follows:</p> <ul style="list-style-type: none"> • $600 \text{ ms}/128 = 4.6 = 5$ (rounded up) • $128 \times 5 = 640$ <p>Entry to on phase = $640/5 = 0128$, and to define the cadence enter 0128 to prompt CDNC.</p>
CDNC	xxxx xxxx ... xxxx	<p>On-off phases for Cadence (ten on-off cycles)</p> <p>Entries 1 through 15 are reserved for ringing cadences. When defining the cadences in MCAD each phase entry is in 5 millisecond increments.</p> <p>The range for the first phase is 1-9999 increments. The range for the second phase is 0-9999 increments. The default is 0 0 0 0 0 0 0 0.</p> <p>Table shows the default MCAD Tables.</p>
	0-(16)-255	MCAD software cadence number
	0-(17)-255	MCAD software cadence number
	0-(19)-255	MCAD software cadence number (see <i>Note 5</i>)
	0-(18)-255	MCAD software cadence number (see <i>Note 5</i>)
	0-(20)-255	MCAD software cadence number
	0-(3)-255	MCAD software cadence number
	0-(22)-255	MCAD software cadence number
	0-(23)-255	MCAD software cadence number
CDT		Control Dial Tone

LD 56

Prompt	Response	Comment
CFDT		Call Forward Dial Tone
CFMW		Call Forward Message Waiting tone
COT	(0)-63	COT, FEX, WAT. These route types will be assigned the entered ART when the route is created in LD 16.
CPNC		Camp-On Confirmation tone
CUST	(0)-xx	Customer number
CWT		Call Waiting Tone
CYCS	x x x x	On-off Cycles (1 to 5) to be repeated. Default is no repeats. Prompted when END = REPT
DBCS		Distinctive BCS (SL-1 set) ringing
DCAD	0-(2)-255	Distinctive Cadence 500/2500 and Digital set ringing MCAD cadence number. (See <i>Notes 1 and 3</i>) It is recommended that the cadence used matches the cadence provided for SL-1 sets (prompt DBCS). DCAD is also used for SL-1 sets in systems with XCT cards.
DENY	yyy yyy ... ALL xALL Xyyy Xyyy .. <cr>	Enter ART number denied to Originating Trunk Connection (OTC) Deny all ARTs to OTC All ART numbers are allowed to OTC Enter ART numbers allowed to OTC Return to REQ prompt with no table being stored The ART is removed unless it is used as a default when REQ = OUT. REQ = NEW or OUT is disallowed for RART.
DFLT	0-31 <cr>	Default to existing FTC tone table Create tone table without defaulting Prompted when REQ = NEW
DIAL		Dial tone

Prompt	Response	Comment
DID	(0)-63	These route types will be assigned the entered ART when the route is created in LD 16
EEST		<p>End-to-End Signaling feedback Tone</p> <p>This prompt appears to indicate that the improved EES tone is used. There is actually no cadence.</p> <p>When using the Enhanced Conference/TDS card, the XCAD prompt is not printed, and the cadence is set to 0 no matter what is entered.</p>
END	REPT ON OFF	<p>End treatment for cadence</p> <p>Repeating cycles (defined by the CYCS prompt)</p> <p>End cadence on the "on" phase</p> <p>End cadence on the "off" phase</p>
ERWT		<p>Expensive Route Warning Tone</p> <p>When defining the hex codes for this tone, only the code for the frequency/level is required as the cadence is provided by software.</p> <p>Enter zero for the other values (e.g., TDSH = 0 0 0 xx, XTON = xxx, XCAD = 000).</p>
FFCT		<p>Flexible Feature Code Confirmation Tone</p> <p>This tone allows users of 500/2500 or multi-line telephone sets to receive a confirmation tone after activating/deactivating the following features:</p> <ul style="list-style-type: none"> • Call Forward activate/deactivate • Ring Again deactivate • Store/erase Stored Number Redial • all Automatic Wake Up codes • Speed Call store • any verification code
GBCS		Group Call ringing for BCS (SL-1) sets
GCAD	0-(1)-255	<p>Group Call Cadence</p> <p>500/2500 and Digital set Group Call Ringing Cadence MCAD cadence number</p> <p>It is recommended that the cadence used matches the cadence provided for SL-1 sets (prompt GBCS). GCAD is also used for SL-1 sets in systems with XCT cards.</p>

LD 56

Prompt	Response	Comment
HBCS		Held call ringing for BCS (SL-1) sets
HCAD	0-(1)-255	Held call reminder Cadence 500/2500 and Digital set held call reminder ringing cadence MCAD cadence number It is recommended that the cadence used matches the cadence provided for SL-1 sets (prompt HBCS). HCAD is also used for SL-1 sets in systems with XCT cards.
HCCT	(NO) YES	Hardware Controlled Cadences and Tones Modification of the hardware (TDS card) controlled cadence tone definitions allowed. For systems with XCT cards, each feature requires a firmware cadence (XCAD) and tone (XTON). For other TDS cards, the tone and cadence is defined by prompt TDSH.
HLDC		Hold Confirmation tone
IBCS		Intercom ringing for BCS (SL-1)sets Distinctive Dial Intercom ringing for BCS (SL-1) sets
ICAD	0-(5)-255	Intercom Cadence 500/2500 and Digital set Dial Intercom Distinctive ringing MCAD cadence number It is recommended that the cadence used matches the cadence provided for SL-1 sets (prompt IBCS). ICAD is also used for SL-1 sets in systems with XCT cards.
ID1	256-(768)-1024	Inter-Digit 1(P10 interdigit pause in milliseconds)
ID2	256-(512)-1024	Interdigit 2 (P20 interdigit pause in milliseconds)
IDD	256-1024	Interdigit DTMF pause in milliseconds Default is 512 if 100 is the response to prompt DTRB in LD 17. Otherwise, the default is 384.
IDE	256 - (384)	EOS interdigital pause in ms. Prompted if DDD package is equipped and PULS = YES.

Prompt	Response	Comment
ILIN		Nortel X Call Center (NXCC) pending agent Login tone
ILOU		Nortel X Call Center (NXCC) pending agent Logout tone
INTU		<p>Intrusion tone</p> <p>This cadence repeats the last 8 on/off phases to allow for a special tone burst on the first cycle.</p> <p>For example, a cadence is defined as 3 s on, 3 s off, 1 s on, 3 s off. After the initial burst, the tone repeats in a 1 s on, 3 s off pattern.</p> <p>In order to repeat the initial 3 s burst, it must be entered as the first and last cycle because the first cycle is not repeated. In this case the cadence is defined as: 3 s on, 3 s off, 1 s on, 3 s off, 3 s on 3 s off.</p>
LDN		Listed Directory Number tone
LIMT		<p>Log In Mode Tone for 500/2500 ACD sets</p> <p>This is the tone setting for ACD services to 500/2500 agent sets. You must have Flexible Tones and Cadences (FTC) supported for this feature to function properly.</p>
MWDT		Message Waiting Dial Tone
NBCS		Normal BCS (SL-1 set) ringing
NCAD	(1)-255	<p>Normal Cadence</p> <p>500/2500 and Digital set ringing MCAD cadence number. (<i>Notes 1 and 3</i>)</p> <p>It is recommended that the cadence used matches the cadence provided for SL-1 sets (prompt NBCS). NCAD is also used for SL-1 sets in systems with XCT (NT8D17 Conference/TDS) cards.</p>
NRMT		<p>Not Ready (NRDY) Mode Tone for ACD sets</p> <p>This is the tone setting for the NRDY function within ACD services to 500/2500 agent sets. You must have Flexible Tones and Cadences supported for this feature to function properly.</p>
OBKT		Observe Blocking Tone
OHQ		Off-Hook Queuing tone
OTH	(0)-63	Other (ADM, DIC, MDM, PAG, RCD)

LD 56

Prompt	Response	Comment
	<cr>	These route types will be assigned the entered ART when the route is created in LD 16. Return to REQ prompt.
OVFL		Overflow tone
OVRD		Override tone
		This cadence repeats the last 8 on/off phases to allow for a special tone burst on the first cycle. For example, a cadence is defined as 3 s on, 3 s off, 1 s on, 3 s off. After the initial burst, the tone repeats in a 1 s on, 3 s off pattern. In order to repeat the initial 3 s burst, it must be entered as the first and last cycle because the first cycle is not repeated. In this case the cadence is defined as: 3 s on, 3 s off, 1 s on, 3 s off, 3 s on 3 s off.
P10	4 (8)	Codes for make/break ratio for 10 pps. Other make/break ratio (Prompt S10P in LD97) North American make/break ratio (Prompt S10P in LD97) (See also CLS P10 in LD 14)
PATI		Patience tone multi-party operations
PBCS		Recall or Misoperation ringing for BCS (SL-1) sets (default is SL-1 ringing tone TDS code)
PCAD	0-255	Recall or Misoperation Cadence 500/2500 and Digital set Recall or Misoperation ringing cadence MCAD cadence number It is recommended that the cadence used matches the cadence provided for SL-1 sets (prompt PBCS). PCAD is also used for SL-1 sets in systems with XCT cards.
PCWT		Precedence Call Waiting Tone When defining the TDS hex codes for this tone, only the code for the frequency/level is required as the cadence is provided by software. Enter zero for the other values (e.g., 0 0 0 xx).
PRBK		Precedence Ringback tone
PREM		Preemption tone

Prompt	Response	Comment
PULS	(NO) YES	Pulse timers are to be changed
RBCS		Call Park Recall ringing for BCS (SL-1) sets
RCAD	0-(1)-255	Recall Cadence 500/2500 and digital set Call Park recall ringing cadence MCAD cadence number. RCAD is also used for SL-1 sets in systems with XCT cards.
REQ	CHG END NEW OUT PRT	Request Change existing data block Exit Overlay program Add new data block to the system Remove data block Print data block
RGBK		Ringback tone
RING	(NO) YES	Change the Ringing feature definitions For systems with NT8D17 Conference/TDS cards, all telephones share the same ringing cadence. SL-1 telephones require an NT8D17 tone (XTON).
SCCT	(NO) YES	Software Controlled Cadences and Tones Modification of the Software Controlled Cadence Tone definitions allowed
SPCL		Special dial tone Only the code for the frequency/level is required as the cadence is provided by software. Enter 0 for the other values (e.g., TDSH = 0 0 0 xx, XTON = xxx, XCAD = 000).
SRC	(NO) YES	Source tones (SRC1 through SRC8) are required. Eight intercept Source tones can be defined. These tones are entered in LD 15 in response to the various intercept treatment prompts.
SRC1		Source tone 1 Prompts and default values for TDSH, XTON and XCAD are the same for all SRC1 through SRC8 prompts.
SRC2		Source tone 2

LD 56

Prompt	Response	Comment
SRC3		Source tone 3
SRC4		Source tone 4
SRC5		Source tone 5
SRC6		Source tone 6
SRC7		Source tone 7
SRC8		Source tone 8
SRT		Set Relocation Tone
TABL	0-31 <cr>	FTC Table number To associate a FTC table with a trunk route, enter the table number in response to prompt TTBL in LD 16. Prints all tables
TDSH	i bb c tt	Hexadecimal code for TDS. Internal/External, burst, cadence and tone (See <i>Note 2</i>) The default value of a TDSH prompt changes according to the tone-type prompt (e.g. NBCS, IBCS, HOWL, etc.) which precedes it.
TEST		Test tone
TIE	(0)-63	CAA, CAM, CSA, TIE These route types will be assigned the entered ART when the route is created in LD16.
TLP		Tone to Last Party
TLPT	(0)-30	Tone to Last Party Timer in seconds. No tone = 0.
TMAT		Telephone Messaging Alert Tone
TMOT		Telephone Messaging OK Tone
TONES	ttt ttt ...	NT8D17 tones (0-255) to be used with each phase of the cadence. Default is no tones (0 0 0 0 0). See "Default Firmware Cadence (FCAD) tables" on page 632.
TSUT		Telephone Status Update Tone

Prompt	Response	Comment
TYPE		Type of data block
	FCAD	Firmware Cadence data block
	FTC	Flexible Tones and Cadences data block
	MCAD	Master Cadence data block (Release 14 and later)
	RART	Route Access Restriction Table data block REQ = NEW or OUT is disallowed for RART.
	RCDT	Route Category Default Table data block REQ = NEW or OUT is disallowed for RCDT.
	TBAR	Trunk Barring data block
USER	(NO) YES	Print Users of this table and tone table values (tone table value only) Prompted when REQ = PRT
WCAD	0-225	Cadence number in the Firmware Cadence table (FCAD) Cadence number 0 is reserved for continuous tone and is not changeable.
WTON	(NO) YES	Define tones associated with the cadence. Prompted for systems equipped with Conference /TDS / MF Sender cards.
XCAD		XCT Cadence number (FCAD cadence number) The default range of a XCAD prompt changes according to the tone-type prompt (e.g. DBCS, HOWL, etc.) which precedes it.
XTON	0-255	XCT Tone code

LD 57—Flexible Feature Codes

Overlay program 57 allows the implementation and administration of the Flexible Feature Codes (FFC) software and hardware.

Up to 100 user access codes may be entered at a time for one or more different codes. After entering 100 user access codes, SCH8891 is output.

If the Directory Number Expansion (DNXP) package 150 is equipped, up to 7 digits are allowed for Flexible Feature Codes. Otherwise, a maximum of 4 digits can be entered.

Prompts and responses

Prompt	Response	Comment
REQ	aaa	Request
TYPE	FFC	Type of data block
CUST	xx	Customer number associated with this function
FFCT	(NO) YES	Flexible Feature Confirmation Tone
CEPT	(NO) YES	Conference European Des Postes Tel defaults
- REP*	0-9	Replacement for the * in the CEPT default codes
ALL	(NO) YES	Remove all Flexible Feature Codes
CODE	aaaa	Specific Flexible Feature Code type
- ADMN	ADMN xxxx	Set-based Administration sequence code Enter Flexible Feature Code
- ASRC	ASRC xxxx	Automatic Set Relocation code Enter Flexible Feature Code
- ATDA	ATDA xxxx	Autodial Activated Enter Flexible Feature Code
- ATDD	ATDD xxxx	Autodial Deactivated code Enter Flexible Feature Code
- AUTH	AUTH xxxx	Authorization code Enter Flexible Feature Code
- AWUA	AWUA xxxx	Automatic Wake Up Activate code Enter Flexible Feature Code
- AWUD	AWUD xxxx	Automatic Wake Up Deactivate code Enter Flexible Feature Code
- AWUV	AWUV xxxx	Automatic Wake Up Verify code Enter Flexible Feature Code
- BNRA	BNRA xxxx	Busy Number Redial code Enter Flexible Feature Code
- BNRD	BNRD xxxx	Busy Number Redial Deactivate code Enter Flexible Feature Code

- CCFA	CCFA xxxx	Customer Call Forward code Enter Flexible Feature Code
- CCFD	CCFD xxxx	Customer Call Forward Deactivate code Enter Flexible Feature Code
- CDRC	CDRC xxxx	CDR Charge Account code Enter Flexible Feature Code
- CFDD	CFDD xxxx	Call forward destination deactivation Enter Flexible Feature Code
- CFWA	CFWA xxxx	Call Forward All Calls Activate code Enter Flexible Feature Code
- CFWD	CFWD xxxx	Call Forward All Calls Deactivate code Enter Flexible Feature Code
- CFWV	CFWV xxxx	Call Forward All Calls Verify code Enter Flexible Feature Code
- COND	COND xxxx	Conference Diagnostics code Enter Flexible Feature Code
- CPAC	CPAC xxxx	Call Park Access Code Enter Flexible Feature Code
- CPP	CPP xxxx	Calling Party Privacy code Enter Flexible Feature Code
- CPRK	CPRK xxxx	Call Park code Enter Flexible Feature Code
- CSHF	CSHF xxxx	Centrex Switchhook Flash code Enter Flexible Feature Code
- CWGA	CWGA xxxx	Call Waiting Activated code Enter Flexible Feature Code
- CWGD	CWGD xxxx	Call Waiting Deactivated code Enter Flexible Feature Code

LD 57

- C6DS	C6DS xxxx	Six-Party Conference code Enter Flexible Feature Code
- DEAF	DEAF xxxx	Deactivate Feature code Enter Flexible Feature Code
- DPVS	DPVS xxxx	Data Port Verification code Enter Flexible Feature Code
- ELKA	ELKA xxxx	Electronic Lock Activate code Enter Flexible Feature Code
- ELKD	ELKD xxxx	Electronic Lock Deactivate code Enter Flexible Feature Code
- GRPF	GRPF xxxx	Group Call code Enter Flexible Feature Code
- GRCL	GRCL xxxx	Group Call List number code Enter Flexible Feature Code
- HOLD	HOLD xxxx	Permanent Hold code Enter Flexible Feature Code
- ICFA	ICFA xxxx	Internal Call Forward Activate code Enter Flexible Feature Code
- ICFD	ICFD xxxx	Internal Call Forward Deactivate code Enter Flexible Feature Code
- ICFV	ICFV xxxx	Internal Call Forward Verify code Enter Flexible Feature Code
- INST	INST xxxx	Set based administration Installer code Enter Flexible Feature Code
- IMS	IMS xxxx	Integrated Message System access code Enter Flexible Feature Code
- LILO	LILO xxxx	Log In-Log Out for 500/2500 ACD sets code Enter Flexible Feature Code

- MNTC	MNTC xxxx	Maintenance Access code Enter Flexible Feature Code
- MSBA	MSBA xxxx	Make Set Busy Activated code Enter Flexible Feature Code
- MSBD	MSBD xxxx	Make Set Busy Deactivated code Enter Flexible Feature Code
- MTRC	MTRC xxxx	Malicious Call Trace code Enter Flexible Feature Code
- MWRA	MWRA xxxx	Repeat Multiple Wake Up Activated code Enter Flexible Feature Code
- MWUA	MWUA xxxx	Multiple Wake Up Activated code Enter Flexible Feature Code
- MWUD	MWUD xxxx	Multiple Wake Up Deactivated code Enter Flexible Feature Code
- NRDY	NRDY xxxx	Not Ready Activation/Deactivation for 500/2500 ACD sets code Enter Flexible Feature Code
- OVRD	OVRD xxxx	Override and Priority Override code Enter Flexible Feature Code
- OCBA	OCBA xxxx	Outgoing Call Barring feature code Outgoing Call Barring feature
- OCBD	OCBD xxxx	Outgoing Call Barring Deactivate code Enter Flexible Feature Code
- OCBV	OCBV xxxx	Verify the Outgoing Call Barring feature code Enter Flexible Feature Code
- PUDN	PUDN xxxx	Pick Up DN code Enter Flexible Feature Code
- PUGR	PUGR xxxx	Pick Up Group code Enter Flexible Feature Code

LD 57

- PURN	PURN xxxx	Pick Up Ringing Number code Enter Flexible Feature Code
- RCFA	RCFA xxxx	Remote Call Forward Activate code Enter Flexible Feature Code
- RCFD	RCFD xxxx	Remote Call Forward Deactivate code Enter Flexible Feature Code
- RCFV	RCFV xxxx	Remote Call Forward Verify code Enter Flexible Feature Code
- RDLN	RDLN xxxx	Redial Last Number code Enter Flexible Feature Code
- RDNE	RDNE xxxx	Redial Number Erase code Enter Flexible Feature Code
- RDSN	RDSN xxxx	Redial Saved Number code Enter Flexible Feature Code
- RDST	RDST xxxx	Redial Store code Enter Flexible Feature Code
- RGAA	RGAA xxxx	Ring Again Activate code Enter Flexible Feature Code
- RGAD	RGAD xxxx	Ring Again Deactivate code Enter Flexible Feature Code
- RGAV	RGAV xxxx	Ring Again Verify code Enter Flexible Feature Code
- RMST	RMST xxxx	Room Status code Enter Flexible Feature Code
- RPAN	RPAN xxxx	Radio Paging Answer call code Enter Flexible Feature Code
- RPAX	RPAX xxxx	Radio Paging Access code Enter Flexible Feature Code

- SADS	SADS xxxx	SAR Disable code Enter Flexible Feature Code
- SAEN	SAEN xxxx	SAR Enable code Enter Flexible Feature Code
- SALK	SALK xxxx	SAR Lock code Enter Flexible Feature Code
- SAUN	SAUN xxxx	SAR Unlock code Enter Flexible Feature Code
- SCPC	SCPC xxxx	Station Control Password Change code Enter Flexible Feature Code
- SPCC	SPCC xxxx	Speed Call Controller code Enter Flexible Feature Code
- SPCU	SPCU xxxx	Speed Call User code Enter Flexible Feature Code
- SSPU	SSPU xxxx	System Speed Call User code Enter Flexible Feature Code
- TFAS	TFAS xxxx	Trunk Answer From Any Station code Enter Flexible Feature Code
- TRMD	TRMD xxxx	Terminal Diagnostics code Enter Flexible Feature Code
- TRVS	TRVS xxxx	Trunk Verification code Enter Flexible Feature Code
- USER	USER xxxx	Set based administration User code Enter Flexible Feature Code
- USCR	USCR xxxx	User Selectable Call Redirection code Enter Flexible Feature Code
- USTA	USTA xxxx	User Status code Enter Flexible Feature Code

Alphabetical list of prompts

Prompt	Response	Comment
ALL	(NO) YES	Remove all Flexible Feature Codes Prompted when REQ = OUT
ASRC	xxxx	Automatic Set Relocation Code
ATDA	xxxx	Autodial Activated
ATDD	xxxx	Autodial Deactivated
AUTH	xxxx	Authorization code
AWUA	xxxx	Auto Wake Up Activate code
AWUD	xxxx	Auto Wake Up Deactivate code
AWUV	xxxx	Auto Wake Up Verify
BNRA	xxxx	Activate the Busy Number Redial feature
BNRD	xxxx	Deactivate the Busy Number Redial feature
C6DS	xxxx	Six-Party Conference code
CCFA	xxxx	Activate the Customer Call Forward feature
CCFD	xxxx	Deactivate the Customer Call Forward feature
CDRC	xxxx	CDR Charge Account code
CEPT	(NO) YES	Conference European Des Postes Tel defaults are to be used. CEPT is prompted when REQ = NEW. If CEPT = YES, then all CEPT defaults will be set up. The default value for CPP is *67 if Calling Party Privacy (CPP) package 301 is equipped.
CFDD		Call forward destination deactivation code

Prompt	Response	Comment								
CFHO	xxxx	Call Forward/HUNT Override via FFC								
CFWA	xxxx	Call Forward All Calls Activate code								
CFWD	xxxx	Call Forward All Calls Deactivate code								
CFWV	xxxx	Call Forward All Calls Verify code								
CODE	aaaa	<p>Specific Flexible Feature Code (FFC) type. Where: aaa = FFC type to be changed. (e.g., AUTH, CPP, etc.)</p> <p>Two entries are required to change a specific FFC. First enter the mnemonic of the FFC to be changed and then carriage return <cr>. The switch will then prompt the mnemonic just entered. Respond to this second prompt by entering the numeric value desired for that Flexible Feature Code. See example below.</p> <p>The Flexible Feature Code may be up to 4 digits, or up to 7 digits with Directory Number Expansion (DNXP) package (150). CODE is prompted when ALL = NO.</p> <p>Example: to change the Flexible Feature Code for Call Park to 88, respond to CODE as follows:</p> <table><tr><td><u>Prompt</u></td><td><u>Response</u></td></tr><tr><td>CODE</td><td>CPRK <cr></td></tr><tr><td>CPRK</td><td>88 <cr></td></tr><tr><td>CODE</td><td><cr> (No further prompts, return to REQ)</td></tr></table>	<u>Prompt</u>	<u>Response</u>	CODE	CPRK <cr>	CPRK	88 <cr>	CODE	<cr> (No further prompts, return to REQ)
<u>Prompt</u>	<u>Response</u>									
CODE	CPRK <cr>									
CPRK	88 <cr>									
CODE	<cr> (No further prompts, return to REQ)									
	ALL	All feature mnemonics that may have a Flexible Feature Code will be prompted.								
	<cr>	No further prompts, return to REQ.								
COND	xxxx	Conference Diagnostics code								
CPAC	xxxx	Call Park Access Code								
CPP	xxxx	Calling Party Privacy								
CPRK	xxxx	Call Park code								
CSHF	xxxx	Centrex Switchhook Flash code								

LD 57

Prompt	Response	Comment
CUST	xx	Customer number associated with this function as defined in LD 15
CWGA	xxxx	Call Waiting Activated
CWGD	xxxx	Call Waiting Deactivated
DEAF	xxxx	Deactivate Feature (deactivates RDLN, RGA, CFW, GHD and SNA codes. Same operation as ATDD, CFWD, MSBD, CWGD and RGAD
DPVS	xxxx	Data port verifications code
ELKA	xxxx	Electronic Lock Activate code
ELKD	xxxx	Electronic Lock Deactivate code
EOVR	xxxx	Enhanced Override (manual Forced Camp-On followed by Priority Override)
FFCT	(NO) YES	Flexible Feature Confirmation Tone This tone allows users of 500/2500 or multi-line telephone sets to receive a confirmation tone after activating/deactivating the following features: <ul style="list-style-type: none">• Call Forward activate, deactivate• Ring Again deactivate• Store/erase Stored Number Redial• all Automatic Wake Up codes• Speed Call store• any verification code
GRCL	xxxx	Group Call List number
GRPF	xxxx	Group Call
HOLD	xxxx	Permanent Hold code
ICFA	xxxx	Internal Call Forward Activate code
ICFD	xxxx	Internal Call Forward Deactivate code

Prompt	Response	Comment
ICFV	xxxx	Internal Call Forward Verify code
IMS	xxxx	Integrated Message System Access code
INST	xxxx	Set based administration Installer
LILO	xxxx	Login-Logout for 500/2500 ACD sets Dialing the number programmed here allows an ACD Agent on a 500/2500 telephone set to toggle between Login and Logout. There is no confirmation tone.
MNTC	xxxx	Maintenance Access code
MSBA	xxxx	Make Set Busy Activated.
MSBD	xxxx	Make Set Busy Deactivated.
MTRC	xxxx	Malicious Call Trace code
MWRA	xxxx	Multiple Wake Up Activated Automatic Wake Up (AWU) package 102 must be equipped for the MWU FFC codes to be available.
MWUA	xxxx	Repeat Multiple Wake Up Activated.
MWUD	xxxx	Multiple Wake Up Deactivated
NRDY	xxxx	Not Ready activation/deactivation for 500/2500 ACD sets Dialing the number programmed here allows an ACD Agent on a 500/2500 telephone set to toggle in and out of the Not Ready state like other ACD Agents. There is no confirmation tone returned.
OCBA	xxxx	Activate the Outgoing Call Barring feature
OCBD	xxxx	Deactivate the Outgoing Call Barring feature
OCBV	xxxx	Verify the Outgoing Call Barring feature
OVRD	xxxx	Override and Priority Override

LD 57

Prompt	Response	Comment
PUDN	xxxx	Pick Up DN code.
PUGR	xxxx	Pick Up Group code.
PURN	xxxx	Pick Up Ringing Number code.
RCFA	xxxx	Remote Call Forward Activate code.
RCFD	xxxx	Remote Call Forward Deactivate code.
RCFV	xxxx	Remote Call Forward Verify code.
RDLN	xxxx	Redial Last Number code.
RDNE	xxxx	Redial Number Erase code.
RDSN	xxxx	Redial Saved Number code.
RDST	xxxx	Redial Store code.
REP*	0-9	One digit replacement for the * in the CEPT default codes. The CEPT defaults will be defined again with this digit used in place of the “*”. In addition, the trailing # will be omitted. REP* is prompted only when REQ = NEW and CEPT = YES. Use <cr> to create only CEPT defaults. Note that digit replacement is blocked for CPP defaults.
	<cr>	No change to defaults
REQ	CHG END NEW OUT PRT	Request Change existing data. Exit Overlay program. Create a new data block. Remove Data Block. Print Data Block.
RGAA	xxxx	Ring Again Activate code.
RGAD	xxxx	Ring Again Deactivate code.

Prompt	Response	Comment
RGAV	xxxx	Ring Again Verify code.
RMST	xxxx	Room Status code
RPAN	xxxx	Radio Paging Answer call code
RPAX	xxxx	Radio Paging Access code
SADS	xxxx	SAR Enable code
SAEN	xxxx	SAR Lock code
SALK	xxxx	Ring Again Activate code
SAUN	xxxx	SAR Unlock code
SCPC	xxxx	Station Control Password Change code
SPCC	xxxx	Speed Call Controller code
SPCU	xxxx	Speed Call User code
SSPU	xxxx	System Speed Call User code
TFAS	xxxx	Trunk Answer From Any Station code
TRMD	xxxx	Terminal Diagnostics code
TRVS	xxxx	Trunk Verification code
TYPE	FFC	Flexible Feature Codes data block
USCR	xxxx	User Selectable Call Redirection
USER	xxxx	Set based administration User
USTA	xxxx	User Status code

LD 57

Page 660 of 848 Alphabetical list of prompts

LD 60—Digital Trunk Interface and Primary Rate Interface Diagnostic

The LD 60 diagnostic program can be run in midnight routines or loaded manually to enter commands.

This program is used to maintain the following on other systems:

- 1.5 Mb/s Digital Trunk Interface (DTI)
- Primary Rate Interface (PRI)

Basic Commands

DTI/PRI commands

ATLP (0), 1	Disable (default) or enable midnight auto loop test
CDSP	Clear maintenance display to 00 or blank
CMIN ALL	Clear minor alarm indication on all attendant consoles
CMIN c	Clear minor alarm indication on attendant consoles for customer c
DISI loop	Disable loop when all channels are idle
DISL loop	Disable network and DTI/PRI cards of loop
DLBK loop	Disable remote loop back test per RLBK command
DLBK I ch	Disable remote loop back test per RLBK I ch command
DSCH I ch	Disable channel ch of loop
ENCH loop	Enable all channels on 2.0 Mb/s DTI/PRI
ENCH I ch	Enable channel ch of DTI/PRI loop
ENLL loop	Enable network and DTI/PRI cards of loop
LCNT (loop)	List contents of alarm counters on one or all DTI/PRI loops
LOVF c r	List threshold overflows for customer c (0-99) and route r (0-511)
RCNT	Reset alarm counters of all DTI/PRI loops
RCNT loop	Reset alarm counter of DTI/PRI loop
RMST loop	Perform self-test on loop
RMST I ch	Perform self-test on specified channel (2.0 Mb/s DTI/PRI only)
RLBK loop	Close loop at carrier interface point for testing
RLBK I ch	Close channel ch at carrier interface point
RSET I ch	Reset thresholds for channel ch
SLFT loop	Invoke hardware self-test on loop
SLFT I ch	Invoke partial hardware self-test on channel ch
STAT	Get status of all loops
STAT loop	Get status of DTI/PRI loop
STAT I ch	Get status of channel ch

Clock controller commands

DIS CC x (0)	Disable system clock controller x (0)
DSYL loop	Disable yellow alarm processing for loop
ENCK loop	Enable the clock for loop
ENL CC x (0)	Enable system clock controller x (0)
ENYL loop	Enable yellow alarm processing for loop
SSCK x (0)	Get status of system clock x (0)

Alphabetical list of commands

Command	Description
ATLP (0), 1	<p>Disable (0) or enable (1) daily routine auto loop test. Where:</p> <ul style="list-style-type: none">1 = loop test enable; causes far-end to raise and clear yellow alarm0 = run the partial loop test; there is no interaction for far-end loop (default value) <p>LD 60 is included in the daily (midnight) routines if defined by LD 17 prompt DROL. ATLP is only run if LD 60 is included in the daily routines.</p> <p>If ATLP = 1, and all 24 channels on the loop are idle, then the DTI/PRI card is disabled and a self-test is performed on each channel. All DTI/PRI cards are tested, one at a time. If a D-channel is on the loop, it is temporarily released and reestablished. If one or more channels are busy, the test is not performed on the loop.</p> <p>If ATLP = 0, then an "AUTO TEST DSBL" message is output and only one channel is tested. The channel is randomly selected by software, it cannot be specified.</p>
CDSP	Clear maintenance display to 00 or blank.
CMIN ALL	Clear minor alarm indication on all attendant consoles.
CMIN c	Clear minor alarm indication on attendant consoles for customer c.
DIS CC x (0,1)	<p>Disable system clock controller 0 or 1.</p> <p>CPU 0 must be idle to disable CC 0. CPU 1 must be idle to disable CC 1. To switch CPUs, use the SPCU command in LD 35.</p>
DISI loop	<p>Disable DTI/PRI loop when all channels are idle.</p> <p>The network and DTI/PRI cards are then disabled and status LEDs are lit. Channel status is set to BSY. Enter END to abort. When the PRI is physically connected to a DCHI card, the D-channels must be disabled first using LD 96.</p>

DISL loop	<p>Disable network and DTI/PRI/DTI2/PRI2 cards of loop. (PRI & PRI2 loops cannot be disabled unless associated D-channel is disabled first using LD 96).</p> <p>Active calls are force disconnected by on-hook simulation. All channels are disabled and status LEDs are lit.</p>
DLBK loop	<p>Disable remote loop back test per RLBK command.</p> <p>Loop remains disabled.</p>
DLBK I ch	<p>Disable remote loop back test per RLBK loop ch command.</p> <p>The channel remains disabled.</p>
DSCH I ch	<p>Disable channel ch of loop I.</p>
DSCK loop	<p>Disables the clock for loop, which does not have to be previously defined as the primary or secondary clock source.</p>
DSYL loop	<p>Disable yellow alarm processing for loop.</p>
ENCH loop	<p>Enable all channels on DTI2 loop.</p>
ENCH I ch	<p>Enable channel ch of loop.</p> <p>For TIE trunks with A+B signaling, the channel is set to the same state as the far-end. The far-end refers to the status of the channels as presented by DTI T1 port.</p> <p>With B-channel signaling, channels are placed into the IDLE state and made available for calls.</p>
ENCK loop	<p>Enables the clock for loop, which must be previously defined as a primary or secondary clock source via service change.</p>
END	<p>Aborts the program.</p>
ENL CC x	<p>Enable system clock controller 0 or 1.</p>
ENLL loop	<p>Enable network and DTI/PRI/DTI2/PRI2 cards of loop.</p> <p>For TIE trunks with A+B signaling, the channels are set to the same status as the far-end; otherwise, the channels are set to idle status. The far-end refers to the status of the channels as presented by DTI T1 port. Status LEDs are deactivated.</p> <p>With B-channel signaling, channels are placed into the IDLE state and made available for calls.</p>

ENYL loop	Enable yellow alarm processing for loop.
EREF	Enables automatic switchover of primary and secondary reference clocks. Also enables recovery to primary or secondary clocks when loops associated with these clocks are automatically enabled.
LCNT (loop)	<p>List contents of alarm counters on one or all of the following cases:</p> <p>Case 1 1.5 Mb/s DTI/PRI</p> <p>The counters are:</p> <ul style="list-style-type: none">BPV = bipolar violation counterSLIPD = frame slip deletion counterSLIPR = frame slip repetition countLOSFA = loss of frame alignment counterOS_BPV = 24-hr bipolar violation countera For PRI with D2, D3, or D4 framing format, 24-hr bipolar violation counterb For PRI with Extended Superframe Format, 24-hr Cyclic Redundancy Check (CRC) counterOS_LOSFA = 24-hr loss of frame alignment counterOS_YEL = 24-hr yellow alarm counter <p>Case 2 2.0 Mb/S DTI</p> <p>The counters are:</p> <ul style="list-style-type: none">G1 alarmsBPV = bipolar violation counterFAP = frame alignment threshold counterSLP = maintenance threshold slip counterCRC = cyclic redundancy threshold counterAIS = alarm indication signalAIS64 = 64 Kb/s alarm indication signalFAL = loss of frame alignmentMFAL = loss of multiframe alignmentBIT3 = bit 3 errorBIT6 = bit 6 errorCFAS = loss of crc-4 multiframe alignment

Case 3 2.0 Mb/s PRI

The counters are:

BPV = bipolar violation counter
 CRC = cyclic redundancy threshold counter
 FAP = frame alignment threshold counter
 SLP = maintenance threshold slip counter
 AIS = alarm indication signal
 LFAS = loss of frame alignment signal
 LMAS = loss of multiframe alignment signal
 RAI = remote alarm indication
 LOS = loss of signal

LOVF c r	<p>List threshold overflows for customer c (0-99) and route r (0-511).</p> <p>The overflows are set when the resident trunk monitor outputs a diagnostic message. Defined thresholds are HOLD, ILLR, REPT, SEIZ and SVFL (see LD 16).</p>
MREF	<p>Disable switchover of system clocks.</p> <p>Also disables recovery to primary or secondary reference clocks when loops associated with these clocks are automatically enabled.</p>
RCNT (loop)	<p>Reset alarm counters for all or specified loop only.</p> <p>If the DTI loop was disabled due to an error threshold overflow and the DTI may be enabled automatically when the counter is cleared, then before performing any command, such as test, that requires the DTI to be disabled you should:</p> <ol style="list-style-type: none"> 1. disable the DTI 2. list the counters with the LCNT command 3. reset the counters with the RCNT command 4. do the test commands
RLBK loop	<p>Close loop at carrier interface point for testing.</p> <p>Allows the far-end to perform an external loop back test on the carrier span using the RMST command. This command closes the loop at the carrier interface point of the DTI/PRI. The DTI/PRI loop must be disabled first using the DISI or DISL loop commands.</p>

RLBK l ch	<p>Close channel ch at carrier interface point.</p> <p>Allows the far-end to perform an external loop back test on the carrier span. The loop remains enabled, but closes the specified channel at the carrier interface point of the DTI/PRI. The DTI/PRI channel must be disabled first using the DSCH loop ch command.</p>
RMST loop	<p>Perform remote loop back test on loop. The far-end must be in the remote loop back mode. (RLBK command has been issued at the far-end)</p>
RMST l ch	<p>The far-end channel must be in the remote loop back mode. (RLBK command has been issued at the far-end)</p>
RSET l ch	<p>Reset thresholds for channel ch on loop l.</p>
SLFT loop	<p>Invoke DTI/PRI hardware self-test on loop.</p> <p>This command tests speech path continuity, zero code suppression, remote alarm detection, and A&B bit signaling. The loop must be disabled first using the DISI or DISL loop command.</p>
SLFT l ch	<p>Invoke partial hardware self-test on channel ch. The DTI/PRI channel must be disabled first using the DSCH command.</p>
SSCK x	<p>Get status of system clock 0 or 1. The SSCK command indicates the active controller as well as active primary or secondary reference clock source or free run.</p> <p>Response may be:</p> <ol style="list-style-type: none"> 1. AUTO SWREF CLK - ENBL = automatic switchover of system clocks enabled 2. AUTO SWREF CLK - DSBL = automatic switchover of system clocks disabled 3. CLOCK ACTIVE = the active controller 4. DSBL = clock disabled 5. ENBL = clock enabled 6. REF CLK ERR = possible faulty cable from CC to DTI/PRI, or faulty Clock Controller 7. SYSTEM CLOCK - FREE RUN, PREF or SREF = clock is in free run mode or tracking to the primary (PREF) or secondary (SREF) reference loop 8. VCXO AGING ERROR = the timing crystal is faulty, replace the clock

STAT Get status of all digital loops. The types of loops are:

1. PRI = Primary Rate Interface
2. PRI2 = 2.0 Mb/s Primary Rate Interface
3. DTI = Digital Trunk Interface
4. DTI2 = 2.0 Mb/s Digital Trunk Interface
5. DLI = Digital Link Interface
6. JDMI = Japan Digital Multiplex Interface

STAT loop Get status of digital loop. Sample output:

```
AAA TRK LOOP x - BBBB
SERVICE RESTORE: YES/NO
YEL ALM PROCESS: YES/NO
ALARM STATUS: NO ALARM/RED(local) ALARM
```

Where: **AAA** may be :

1. DTI
2. DTI2
3. PRI
4. PRI2
5. TIE
6. DID
7. DTI LINK (DTI link loop = DLI)

Where: **BBBB** may be:

1. DSBL = Hardware of specified digital loop is disabled
2. ENBL = Hardware of specified digital loop is enabled
3. RLBK = Hardware of specified digital loop is in remote loop back mode
4. DISI PENDING = DSI command is in progress
5. TRACKING = system clock is tracked to this loop
6. IDLE = Hardware of specified digital loop is idle
7. SERVER RCVY = server has not recovered status of DTI LINK loop. Channels will not be allocated for call processing until this status is removed by the server
8. BUSY = Hardware of specified digital loop is busy
9. MSBY = Hardware of specified digital loop is in make busy mode

Where: **SERVICE RESTORE** may be:

1. YES = restore service automatically if alarm is removed
2. NO = loop can only be manually enabled

Where: **YEL ALARM PROCESS** may be:

1. YES = yellow alarm processing is enabled
2. NO = yellow alarm processing is disabled

Where: **ALARM STATUS** may be:

1. NO ALARM = no alarm active
2. RED = red (local) alarm active

Action 1:

1. list alarm counters (LCNT command)
2. check for DTA messages
3. go to the fault clearing section

Where:

YELLOW = yellow (remote) alarm active

WAITING = DTI/PRI card is not responding. The card either did not respond to a status check or did not respond when a red alarm was cleared. Go to Action 2.

Action 2:

1. check DTI/PRI status again
2. disable, then enable the DTI/PRIPRI

STATE OF SERVICE:

OOS = out-of-service

NNC = no new call

NNDC = no new data call

MNT = maintenance

When an alarm is present (group 2 error), it is a **REMOTE ALARM**

REMOTE ALARM:

NS = alarm indication signal

RAI = remote alarm indication

LOCAL ALARM:

LOS = loss of signal

LFAS = loss of frame alignment signal

LMAS = loss of multiframe alignment signal

STAT I ch

Get status of channel ch. Status may be:

1. IDLE = channel is enabled and is idle
2. BUSY = channel is enabled and is call processing busy or channel is in a lockout state (far-end is disabled)
3. MBSY = channel is being used for maintenance busy, the D-channel is down, or far-end channel is disabled
4. DSBL = channel is disabled
5. DSBL (SERVER) = channel is being used for server maintenance and is disabled for the duration (1.5 Mb/s DTI digital link interface only)
6. FE MBSY = near end is idle, far-end is maintenance busy
7. FE DSBL = near end is idle, far-end is disabled
8. FE DSBL = far-end B-channel is disabled
9. FE MBSY = far-end B-channel is in maintenance mode
10. UNEQ = channel is not equipped

When the loop is a Phantom loop, it is possible to receive the status messages: TIE IDLE ISPC, TIE BUSY ISPC, or TIE MSBY ISPC. Interpret these system responses as they are interpreted for the command STAT loop. See the section which outlines BBBB alternatives for the STAT loop command on [page 669](#).

SWCK

Switch system clock from active to standby.

The reference clock source remains unchanged.

TRCK aaa

Set clock controller tracking to primary, secondary or free run. Where aaa is:

PCK = track primary clock

SCLK = track secondary clock

FRUN = free run mode

Track primary clock (PCK) or secondary clock (SCLK) as the reference clock or go to free run (FRUN) mode.

LD 60

Page 672 of 848 Alphabetical list of commands

LD 61—Message Waiting Lamps Reset

The Message Waiting Lamps Reset (MWL) program can be invoked automatically by the system as part of the daily routines or manually from an input device. It is used to deactivate all active Message Waiting lamps on user stations and reset the associated status in the system.

This program cannot be applied to digital sets.

When LD 61 is loaded manually, 'G' must be entered to initiate the task.

G command

Starts resetting the trouble status on all Message Waiting lamps. The program does not reset lamp status unless all message center sets are out-of-service (i.e., message center is closed and attendants are in Night Service).

Before running this program, all Message Center (MC) telephones must be taken out-of-service by “make telephone busy” and if attendants are set up to handle message calls, they must be in night mode.

LD 61

Page 674 of 848 LD 61—Message Waiting Lamps Reset

LD 73—Digital Trunk Interface

Overlay program 73 allows the implementation and administration of the Digital Trunk Interface (DTI) and Primary Rate Interface (PRI) software and hardware.

Prompts and responses

Table of Contents

Section	Page
Prompts and responses by data block: DDB: Digital data block	page 677

DDB: Digital data block

Prompt	Response	Comment
REQ	aaa	Request (aaa = CHG, END, NEW, OUT, or PRT)
TYPE	DDB	Type of data block = DDB (Digital data block)
CLKN	1,3,5	Clock slot number
- PREF	1,3,5	Primary Reference
TRSH	0-15	Threshold set
RALM	1-(3)-128	Remote (yellow) Alarm clear threshold
BIPC	0-(2)-128	Bipolar violation Count threshold
LFAC	0-(3)-128	Loss of Frame Alignment Counter
BIPV	1-(3)-4 1-(2)-4	Bipolar Violation maintenance and out-of-service threshold
SRTK	1-(5)-24 1-(30)-3600	Slip Rate Tracking mode maintenance
SRNT	1-(15)-1024 1-(3)-1024	Slip Rate Non-Tracking
LFAL	1-(17)-10240	Loss of Frame Alignment maintenance and out-of-service thresholds
SRIM	(1)-127	Slip Rate Improvement Monitoring time in minutes
SRMM	1-(2)-127	Slip Rate Maintenance Maximum

Alphabetical list of prompts

Prompt	Response	Comment
BIPC BIPV	0-(2)-128 1-(3)-4 1-(2)-4	<p>Bipolar violation count threshold</p> <p>Bipolar Violation maintenance and Out-of-Service threshold</p> <p>The BIPV values determine the sensitivity of the loop to errors, where BIPV = 1 is the least tolerant to errors, and BIPV = 4 is the most tolerant.</p> <p>The maintenance threshold must be greater than the out-of-service threshold.</p> <p>The method of bit rate monitoring depends on the loop configuration:</p> <ol style="list-style-type: none"> 1. For DTI mode: bipolar violation thresholds 2. For PRI mode with D2, D3, or D4 framing format: bipolar violation thresholds 3. For PRI mode with Extended Superframe Format (ESF): Cyclic Redundancy Check (CRC) thresholds
CLKN	1,3,5	Clock slot number
LFAC	0-(3)-128	<p>Loss-of-Frame-Alignment Counter</p> <p>This is the maximum number of times a DTI/PRI loop can be taken out-of-service in 24 hours. If this threshold is reached the DTI/PRI must be restored to service manually.</p> <p>If "0" is entered, there is no limit on number of times that trunks can be taken out and automatically restored to service.</p>
LFAL	1-(17)-10240 1-(511)-10240	<p>Loss-of-Frame-Alignment maintenance and out-of-service thresholds</p> <p>The maintenance threshold must be greater than the out-of-service threshold.</p>

Prompt	Response	Comment
PREF	1,3,5 <cr>	<p>Primary Reference</p> <p>Source loop for clock controller</p> <p>If REQ = NEW and carriage return is entered, then Primary Reference is free-run mode.</p> <p>If REQ = CHG, then Primary Reference is not changed. The loop or card must already be defined in LD 17 (prompt DLOP). Use <cr> for free-running mode.</p> <p>Precede with X to remove</p>
RALM	1-(3)-128	<p>Remote (yellow) Alarm clear threshold</p> <p>This is the number of "remote alarm clear" signals received in 24 hours. If the threshold is reached the DTI/PRI must be restored to service manually.</p>
REQ	CHG END NEW OUT PRT	<p>Request</p> <p>Change existing data block</p> <p>Exit Overlay program</p> <p>Create a new data block</p> <p>Remove data block</p> <p>Print the specified data block</p>
SRIM	(1)-127	<p>Slip Rate Improvement Monitoring time (the amount of time in minutes before returning trunks either to service or to the SRGT state)</p> <p>After the tracking or non-tracking mode frame slippage out-of-service threshold is exceeded, the slip rate is monitored for improvement.</p> <p>If the non-tracking maintenance threshold exceeds SRMM or fewer times in the duration of this timer, then the trunks are returned to service. Otherwise, this timer is reset and monitoring continues.</p>
SRMM	1-(2)-127	<p>Slip Rate Maintenance Maximum</p> <p>Number of times the Slip Rate exceeds the maintenance limit while waiting for Slip Rate improvement during the time window specified at the SRIM prompt.</p>

LD 73

Prompt	Response	Comment
SRNT	1-(15)-1024 1-(3)-1024	<p>Slip Rate Non-Tracking mode maintenance and out-of-service thresholds</p> <p>These are frame slip rate thresholds for the non-tracking mode.</p> <p>The first value is the maintenance threshold in seconds. The second value is the out-of-service threshold in seconds, the amount of time in which 10 slips occur.</p>
SRTK	1-(5)-24 1-(30)-3600	<p>Slip Rate Tracking mode maintenance (in hours) and out-of-service thresholds (per hour)</p> <p>These are frame slip rate thresholds for the tracking mode.</p> <p>The first value is the maintenance threshold or the elapsed time (in hours) between frame slips. The default is 1 slip in 5 hours. The second value is the out-of-service threshold or the number of slips per hour. The default is 30 slips in 1 hour.</p>
TRSH	0-15	<p>Threshold set</p> <p>Enter this number in LD 17 when defining a DTI/PRI loop. Use X0-15 to remove TRSH.</p> <p>Note: The LD 17 DLOP/TRSH associated with this LD 73 TRSH must be removed first.</p> <p>Precede with X to remove.</p>
TYPE	DDB DTI PRI	<p>Type of data block</p> <p>1.5 Mb/s DTI data block</p> <p>1.5 Mb/s DTI with International 1.5/ 2.0 Mb/S Gateway (GPRI) package 167 data block</p> <p>1.5 Mb/s PRI data block with International 1.5/ 2.0 Mb/s Gateway (GPRI) package 167</p>

LD 77—Manual Print

LD 77 is used to print the signals that come from the peripheral packs to the common equipment.

Note: This Overlay is intended for people experienced with the message formats and protocols.

When to use LD 77

LD 77 can be useful in determining which peripheral pack (line or trunk) is causing a system overload in situations in which the CPU cannot narrow the problem to a specific Terminal Number (TN). Once the program is loaded from a tape, the user may request the system to print all the input messages from a specific area of peripheral equipment.

Manual Print can also be used to continuously send frequency combinations by defining the loop and terminal number of the MFE card, busying the channel, setting the read/write bit to write, defining the message and repeatedly sending it. This channel will not be available for regular signaling until the message sending is stopped and the channel is idled.

When a machine is carrying traffic, there will be a large number of valid messages generated from the peripheral equipment. Thus, the program will be most effective for trouble-shooting when:

- there is little system traffic
- message address range is restricted (i.e., looks only at one card)

This program has capabilities which are used by the software designers during development activities. The user is protected from accidental access to these commands (and resulting potential service degradation) as a password is required. This password is not available to customers.

LD 77 Output Format

All numerical input/output is in hexadecimal format. The output is in the following format:

<loop> <shelf> <card> <terminal> <message> <time-stamp>

The loop, shelf and card fields identify the circuit pack generating the message.

Abbreviations for LD 77

The fields are defined as follows:

b = bypass bit value

cb = continuity bit

ch = chip on a given SSD Peripheral Signaling pack

g = group

l s c u = TN: loop, shelf, card, unit

ln = link

loop = network loop

m = module

p = page

ps = Peripheral Signaling pack

sh = Multigroup shelf

ts = time slot

v = desired lamp state; 0 = lit, 1 = dark

x = Multigroup bit

Some four-letter commands can be abbreviated to a one-letter command when entered from a TTY (but not an SL-1 telephone). The one-letter command is shown in parentheses after the four-letter mnemonic (e. g., ARPS (F) l s 32 can be entered as F l s 32).

LD 77 Input Format

All input is in decimal form, except message data which is in hexadecimal form. Space and carriage return are automatically done by the overlay when the expected number of digits are input. Therefore the number of input digits must be strictly entered for each input parameter. The number of letters specified in each parameter field dictate the number of hex or decimal digits that must be entered.

For example:

Enter for TN 1 0 2 0:

001 0 02 00

Enter for TN 156 1 15 30:

156 1 15 30

Basic commands

Only “P” commands can be used on superloops.

ANWK (B) loop ts	Read/write network card memory
ANWS (C) loop ts	Read/write network card memory (short)
ARPM loop 20	Print contents of timeslots in RPC
ARPM loop ts b s c u	Get contents of timeslot ts, loop
ARPS (F) loop ts	Read Remote Peripheral Switch memory
DENL loop	Get the density of loop
DISC	Call disconnect
DFTM (T) s c u	Define unit to receive signaling messages
DLMP 0/1	Turn on/off lamp audit
DMTN	Monitor input and output SSD messages for 1 to 6 TNs
DRTM (N) l s c u	Stop printing messages
IMSG	Send input SSD messages from PE to Meridian 1 CPU
KALL	Call set up without specifying timeslots
KALS	Call set up with specifying timeslots
KILLx	Reset one or all TN being monitored
N	Stop print
P	Print all messages
P III	Print all messages from specified loop III
P III s	Print all messages from specified shelf III s
P III s cc	Print all messages from specified card III s cc
PRTM (P) III s cc uu	Print messages, as specified III s cc uu
WCTS loop	Print the current unit scan of loop
WMBY l s c u	Write the maintenance bit for the given unit to BUSY
WMUB l s c u	Write the maintenance bit for the given unit to NOT BUSY
XMSG	Send output SSD messages from Meridian 1 CPU to PE
XMII, XMIO	Send input/output XMI messages between the CPU and superloops
XRCL loop	Read contents of RPC control register for loop
XRSH loop	Read and print contents of SHEN register for loop
XRST loop	Read and print contents of STATUS register for loop
XTRP loop	Test remote RPC processor for loop
XTLP loop	Test local RPC processor for loop
XWCS loop xxxx	Writes RPC control/SHEN register for loop

Alphabetical list of commands

Command	Description
ANWK (B) loop ts	<p>Read/write network card memory. Access the specified network card memory to read and print one word. The word format is:</p> <p><cb s c u x ln --></p> <p>Where: cb = continuity bit, s = shelf, c = card, u = unit, x = multigroup bit and ln = link</p> <p>You can write in new data. To change the values, rekey the word after the dashes, substituting new values where appropriate.</p>
ANWS (C) loop ts	<p>Read/write network card memory (short). Access the specified network card memory (short form) to read and print one word. The multigroup bit and continuity field are not used.</p> <p>The word format is: <s c u ln --></p> <p>Where: s = shelf, c = card, u = unit and ln = link.</p> <p>You can write in new data. To change the values, rekey the word after the dashes, substituting new values where appropriate.</p>
ARPM loop 20	Prints contents of 32 timeslots in RPC associated with loop (20 hexadecimal = 32 decimal).
ARPM loop ts b s c u	<p>Get contents of timeslot ts, loop.</p> <p>The system prints data in the form "bscu", where b is the current value of the bypass bit in the Remote Peripheral Equipment Controller (RPC) memory (0 or 1) for that shelf, card and unit.</p> <p>The user can enter a new bypass bit for the RPC memory after the dash.</p>

ARPS (F) loop ts

Read Remote Peripheral Switch memory.

Access the specified Remote Peripheral Switch (RPS) memory to read and print one word.

The word format is: <cb s c u -->

Where: cb = continuity bit, s = shelf, c = card and u = unit.

You can write in new data. To change the values, rekey the word after the dashes, substituting new values where appropriate.

DENL loop

Get the density of loop.

DFTM (T) s c u

Define unit to receive signaling messages.

DISC

Call disconnect. Format is:

DISC

TN1 lll s cc uu

TN2 lll s cc uu

This command disconnects the call specified by the TNs. A scan of the connection memory is done prior to disconnecting the call, if no timeslot can be found for the specified TN, nothing is done. TN1 and TN2 are prompted by the program.

DLMP 0/1

Turn on/off lamp audit. Format is:

DLMP 0 = turn on lamp audit

DLMP 1 = turn off lamp audit

DMTN Monitor input and output SSD messages for 1 to 6 TNs. This command is used to monitor all SSD messages for the specified TN. TN is automatically prompted by the program. Up to 6 TNs can be monitored at the same time.

Enter the DLPM and DMTN commands as follows:

DLMP 2

DMTN

TNx lll s cc uu

Where: x = (1-6), TN index

The output format is: OSSD111 TN MSG TIME

Where:

OSSD111 = header

TN = packed TN

MSG = SSD message content

TIME = real time clock before output when work scheduler gets the input message

DRTM (N) l s c u

Stop printing messages from the loop, shelf, card and unit. Only loop and shelf numbers are required.

IMSG Send input SSD messages from PE to Meridian 1 CPU. This command is used to simulate incoming SSD message from the peripheral equipment. The specified TN must be equipped.

Format is:

IMSG

TN lll s cc uu

NUMBER MESSAGES mm

TIMES TO SEND hhh

MSG DATA xxxx xxxx xxxx xxxx. . .

Where:

mm = number of SSD messages (1-10) to be sent

hhh = number of times (1-999) to simulate the SSD input message

xxxx = SSD message content. Number of message contents depends on input of mm

TN, NUMBER MESSAGES, # TIMES TO SEND, and MSG DATA are prompted by the program.

KALL

Call set up without specifying timeslots.

This command is used to set up a simple call (intra or inter-group). The system finds an available timeslot for the specified TNs. The specified TN must be equipped, enabled and idle.

Format is:

```
KALL
TN1 lll s cc uu,
Loop 0 00 CH for Digital Trunk Cards.
TN2 lll s cc uu,
Loop 0 00 CH for Digital Trunk Cards.
TN1 and TN2 are automatically prompted by the program.
```

If AUDIT is running, call(s) are disconnected, and AUD17, AUD18, AUD19, and/or AUD31, AUD32 is printed.

Call setup command simply finds the available timeslots and sets up the connection memory and/or junctor memory. BUG105, BUG330 may be printed if illegal sequences are carried out.

These commands are designed for lab use only, and should be used cautiously in a live switch.

KALS

Call set up with specifying timeslots.

This command will set up a call specified by the input TNs and the timeslots if both TNs are equipped, enable and idle. The specified timeslots will be used if they are idle, if the specified timeslot are occupied, then the call will not be set up. See Notes with the KALL command.

Format:

```
KALS
TN1 lll s cc uu,
Loop 0 00 CH for Digital Trunk Cards.
TN2 lll s cc uu,
Loop 0 00 CH for Digital Trunk Cards.
TIMESLOTS ts1 ts2
```

Where:

ts1 = specified timeslot of the TN1

ts2 = specified timeslot of the TN2

TN1, TN2, and TIMESLOTS are prompted by the program.

KILLx	Reset one or all TN being monitored. Where: x = the TN index number (1-6) entered with the DMTN command. Enter 7 to reset all the output monitored TNs.
N	Stop print.
P	Print all messages.
P III	Print all messages from specified loop. Enter the exact number of digits. Example: for loop 4, enter 004
P III s	Print all messages from specified shelf. Enter the exact number of digits. Example: for loop 4, enter 004.
P III s cc	Print all messages from specified card. Enter the exact number of digits. Example: for loop 4, enter 004.
PRTM (P) III s cc uu	Print messages, as specified. Only loop and shelf numbers are required. Enter the exact number of digits. (Example: for loop 4, enter 004.)
WCTS loop	Print the current unit scan of specified loop. Outputs shelf, card and unit.
WMBY I s c u	Write the maintenance bit for the given unit to BUSY.
WMUB I s c u	Write the maintenance bit for the given unit to NOT BUSY.
XMII, XMIO	<p>Send input/output XMI messages between the CPU and superloops.</p> <p>Send input/output XMI messages to the Peripheral Controller (NT8D01) or Network card (NT8D04). Use XMII for input messages from the Network card (NT8D04) to the CPU. Use XMIO for messages from the CPU to the Network.</p> <p>This command is used to simulate input/output XMI message. It may not be useful in LD 77, a similar command is available in resident debugger.</p>

Format:

```

XMII or XMIO
LOOP lll
NUMBER MESSAGES m
# TIMES TO SEND hhh
MSG DATA
cccc xxxx xxxxxxxx
cccc xxxx xxxxxxxx
cccc xxxx xxxxxxxx

```

Where:

lll = Loop number
 m = Number of multiple XMI messages (1-6)
 hhh = Number of times to send XMI messages (1-999)
 cccc = Control word; cccc is defined as follows:

r	ss	applic	type
-	--	-----	-----

Where:

r = one bit msg ready flag, always sets to
 ss = two bit sequence status field. ss may be:

- a** B.00 : short message
- b** B.01 : starting a long message (message has 6 or more words of data)
- c** B.10 : continue a long msg
- d** B.11 : end of a long msg

applic = six bit value for msg's intended application. appl may be:

- a** B.000001 : for LD 30
- b** B.000010 : for LD 32
- c** B.000011 : for LD 45
- d** B.000100 : for LD 77
- e** B.000101 : for XPE parameter download
- f** B.000110 : for XNET action request

type = seven bit value of message type
 xxxx = message data

XMSG Send output SSD messages from Meridian 1 CPU to PE.

This command is used to send output SSD message to the peripheral equipment TN. The specified loop of the TN must be enabled and responding.

Format:

```
XMSG
TN lll s cc uu,
TN l s c u, for Option 11 only
Loop 0 00 CH for Digital Trunk Cards.
NUMBER MESSAGES mm
# TIMES TO SEND hhh
MSG DATA xxxx xxxx xxxx. . . .
```

Where:

mm = number of SSD messages to be sent (1-10)
 hhh = number of times to output SSD message (1-999)
 xxxx = SSD message content. Number of message contents depends on the value of mm
 TN, NUMBER MESSAGES, # TIMES TO SEND, and MSG DATA are prompted by the program.

XRCL loop Read contents of RPC control register.

XRSH loop Read and print contents of SHEN register.

XRST loop Read and print contents of STATUS register.

XTLP loop Test local RPC processor for loop.

XTRP loop Test remote RPC processor for loop.

XWCS loop xxxx
 Writes RPC control/SHEN register for loop with data xxxx in hexadecimal format.

LD 80—Call Trace

LD 80 provides a means of tracing a call by looking at a snap shot of the transient data (such as call register contents) associated with the call. The trace commands operate only when this Overlay is active. If LD 80 is aborted (***), the trace functions stop. Note that when using the enhanced trace commands, the Overlay will not automatically abort (according to the defined time-out period) if calls are being traced.

When a system initialization occurs, all trace commands are removed, and the trace operation is stopped.

For Network Call Trace see NCT messages.

Enhanced Trace Commands require Multi-User Login functionality (package 242) to be enabled in LD 17. The enhanced commands are: DALL, DIST, ENTC, ENTD, GOTR, FITR, and STPT. These commands interact with each other only.

The enhanced trace commands can be disabled through a maintenance telephone by dialing the following: nn + 9913 + x + yy

Where:

- nn = customer SPRE access code
- 9913 = feature code to display for message display control
- x = action code (0 to deactivate)
- yy = message monitor code (02 for enhanced trace messages)

A second dial tone indicate that the command was successful. Overflow tone is heard if the command is entered incorrectly. Once this command has been entered, a user entering FITR from the TTY will receive the period (.) prompt.

When to use LD 80

There are three basic commands:

- TRAT for tracing attendant consoles
- TRAC for tracing by customer + DN
- TRAK for tracing sets and trunks
- TRAD for tracing calls through Computer PBX Interface (CPI), Digital Trunk Interface (DTI), Primary Rate Interface, or Digital Link Interface (DLI) loops.

The TRAC command can be used to print the tone detector TN if a tone detector is used at the time of the call trace.

Auxiliary data related to a call can be printed. The auxiliary data consists of information associated with the NARS/BARS/CDP features, if equipped, and the Ring Again (RGA) feature. This additional data can be retrieved by appending DEV to any of the TRAC commands. Example: TRAC L S C U
DEV

Originating and terminating information

The Call Trace originating and terminating party information depends on the types of telephone, console or trunk as shown below.

Single line telephones:

```

ORIG l s c u  cust dn 500
TERM l s c u  cust dn 500

```

Multi-line telephones:

```

ORIG l s c u  key# keytype cust dn settype
TERM l s c u  key# keytype cust dn settype

```

Attendant consoles

```

ORIG l s c u  cust att# lpk#  ATTN consoletype
TERM l s c u  cust att# lpk#  ATTN consoletype

```

Trunks:

```

ORIG l s c u  rtyp RMBR rrr mmm
TERM l s c u  rtyp RMBR rrr mmm

```

Where:

l s c u = TN

consoletype = console type (ATT, 1250, 2250)

cust = customer number

dn = directory number

key# = multi-line telephone key number

keytype = multi-line telephone key type (SCR, MCR, HOT, etc.)

lpk# = console loop key number

rrr mm = trunk route and member number

rtyp = trunk route type (TIE, CO, FX, etc.)

settype = multi-line telephone type (SL1, 2008, 2317, etc.)

Example 1

Trace a call placed to a 500-type set

Configuration: active call from key 0 on an M2008, to 500-type telephone

Customer number: 00

Originator:

telephone type: M2008

TN: 004 00

DN: 5100 on SCR key 0

Terminator:

telephone type: 500

TN: 008 06

DN: 2121

Trace command:

TRAK 4 0 (c u), or

TRAC 0 5100 (customer and DN)

Output:

ACTIVE TN 004 0 00 00

ORIG 04 0 0 00 00 0 SCR 0 5100 2008

TERM 008 0 03 06 0 2121 500

DIAL DN 2121

MAIN PM ESTD

TALKSLOT ORIG 22 TERM 22

QUEUE NONE

Example 2**Trace an outgoing ISDN call**

Configuration: outgoing call from key 0 on an M2616, to 500-type telephone
 Originator:

telephone type: M2616
 TN: 016 00
 DN: 6050 on SCR key 0

Terminator:

Dialed DN: 7873107
 Outgoing PRI TIE trunk: loop 1 channel 16; route 24 member 12

Trace command:

TRAC 0 6050 (customer, DN), or
 TRAC 16 0 2 0 (l s c u)

Output:

```
ACTIVE  TN    016  0  00 00
ORIG     016  0  00 00      0 SCR 0    6050    2317
TERM      001 16      TIE  RMBR  24  12
DIAL DN   7873107
MAIN PM   ESTD
TALKSLOT  ORIG 13      TERM 13
QUEUE    NONE
----- ISDN PRA CALL (TERM) -----
CAL REF # = 16
BEARER CAP = VOICE
CALL STATE = 10      ACTIVE
CALLING NO = 4376050
CALLED NO  = 7873107
```

Example 3

Enhanced Trace command output

The enhanced call trace output includes a time stamp that appears on the first line of the output.

The TN or digital trunk prints out only when there has been a change to the call register. The TN or trunk is printed only once.

Sample output:

```
.14:00:02 12/25/1992

KEY 0 MCR MARP ACTIVE TN 001 0 00 01

ORIG 001 00 00 0 SCR MARP 1 5011 SL1

TERM 001 0 00 03 0 MCR MARP 1 5006 SL1

DIAL DN 5006

MAIN_PM ESTD

TALKSLOT ORIG 19 TERM 21

QUEU NONE

KEY 1 TRN IDLE

KEY 2 AO3 IDLE

.
.
.

KEY 8 RND

KEY 9 RLS

.14:00:04 12/25/1992

IDLE TN 001 04
```

Alphabetical list of Call Trace outputs

This section provides definitions of the data output by the various call trace commands.

A time stamp is printed with Call Trace output. The following information is added below the time stamp as necessary.

- A digital telephone with no active call register shows:
IDLE TN c 00 u
 - A locked out telephone or digital trunk shows:
LOCKOUT TN c 00 u (or l ch)
 - A disabled telephone or digital trunk shows:
DSBL TN c 00 u (or l ch)
 - A telephone or digital trunk that is in maintenance busy state shows:
MSBY TN c u (or l ch)
MSBY TN c u (or l ch) MARP shows if the TN is a MARP TN
- 1** ACTIVE — the call/key is active
 - 2** AUX_NARS — Network Automatic Route Selection (NARS) data to follow
 - 3** AUX_PM — auxiliary progress mark may be any of the following depending on the MAIN_PM:
 - a** ABSORBING = performing digit manipulation on the call
 - b** AWAIT ANI = waiting for Automatic Number Identification information
 - c** AWAITREPLY = CPU is waiting for a response during a dial sequence
 - d** BSYG = busy tone to originator
 - e** CDR-CALLRECORD = CPU is outputting a CDR record
 - f** CDR-TIMING = CPU is computing a CDR record
 - g** COMPLETE = dialing is complete
 - h** DNTRANS = DN translation to TN in progress

- i** FAREND-OFF = Validating farend answer signal
- j** NARS = call is a network call
- k** NOOUTPULS = outpulsing complete, originator receiving ringback
- l** OUTPULSING = outpulsing digits related to the call
- m** OVLF = resources not available, returning overflow to originator
- n** PAUSING = timed pause in a trunk call dialing sequence
- o** SPEEDCALL = performing speed call
- p** TEMPPATH = software timing, occurs when outpulsing digits on trunks
- q** TOLLCHECK = checking access restrictions for the call
- r** USCR = User Selectable Call Redirection programming, receiving dial tone
- s** USCR_DIAL = USCR programming

- 4** AUX_RGAT_PM — Ring Again over trunk information
- 5** BEARER CAP — bearer capability, such as voice, 64K clear, 64K restricted and 56K
- 6** BUSY — unit or DN is busy
- 7** CALL REF # — PRI call reference number assigned by the system
- 8** CALL STATE — specifies the PRI call as active or inactive
- 9** CALLED NO — PRI dialed number
- 10** CALLING NO — PRI home location code and DN of originating party
- 11** CONF — conference call

- 12** COS_ORIG, COS_TERM — class of service restrictions for originating and terminating party. Possible values are:
- a** UNR = Unrestricted
 - b** TLD = Toll Denied
 - c** SRE = Semi-restricted
 - d** FRE = Fully Restricted
 - e** FR1 = Fully Restricted class 1
 - f** FR2 = Fully Restricted class 2
 - g** CUN = Conditionally Unrestricted
 - h** CTD = Conditionally Toll Denied
- 13** CSD — Confree Selectable Display Key
- 14** DARK_CONSOLE — the call is being temporarily released by a console. Also outputs three types of recall:
- a** RLSED = console released the call is getting recall
 - b** FLASH = Flash recall
 - c** CAMP = Camp-On recall
- 15** DIAL DN— the dialed number
- 16** DIAL xxx yy TTR zz — TDS on loop xxx and timeslot yy connected to Digitone Receiver timeslot zz
- 17** DG_MAN xxx FCA_INDEX xxx TOD x — Digit Manipulation Index, Free Area Screening and Time Of Day value
- 18** DIRECT MW_CALL — Message Waiting indication is being given
- 19** DSBL — the unit has been disabled
- 20** DST — console destination information to follow
- 21** EMR100 — ACD emergency conference
- 22** EXP_ROUTE — identifies if an expensive route is being used for an ESN call
- 23** IDLE — TN or key is idle

- 24 HLD — number of calls On-Hold at the console
- 25 HOLD — call is On-Hold
- 26 LOCKOUT — the unit is in lockout state
- 27 LOOP — attendant console LPK key
- 28 MAIN_PM — this is the main progress mark which identifies the state of the call, possible values are listed below: (See also AUX_PM)
 - a BUSY = originator is receiving busy tone
 - b CDR = CPU is processing Call Detail Recording records
 - c DELAY DIAL = CPU is in a timing sequence while establishing a delay dial start trunk call
 - d DIAL = one or more digits have been dialed, system requires more digits
 - e ESTD = call is established between the originating and terminating party
 - f HALFDISC = Trunk with answer supervision has not received a disconnect signal from the far-end during trunk idling
 - g READY = CPU is ready to process a function for the originating TN
 - h REOR = originator is receiving intercept treatment
 - i RING = originator is receiving ringback tone
 - j WAIT = dial tone waiting queue
 - k WINKON = CPU is in a timing sequence while establishing a wink start trunk call
- 29 MARP — indicates the TN is Multiple Appearance Redirection Prime
- 30 MBSY — unit is in maintenance busy state
- 31 NARS_PM — NARS call progress mark
- 32 NEW_RLIST_INDEX NWQ_RLIST_ENTRY — network queue route list index and route list entry
- 33 NCOS_ORIG, NCOS_TERM — Network Class of Service for originating and terminating party

- 34** OHQ/CBQ — call is in the Off-Hook queue or Callback queue
- 35** OSN — On-Site Notification key
- 36** PRIORITY NWQ_EXT_ROUTE — the priority in the queue and extended route queuing
- 37** PTY SLOT — TDS priority timeslot; reserved by the CPU while a user is receiving tones (this timeslot may be required by the CPU to further process the call). Normally PTY SLOT is the same timeslot as SLOT.
- 38** QUEU — a call may be in one of the following CPU timing queues:
 - 128 = 128 ms timing queue
 - 2S = 2 second timing queue
 - CAD = cadence
 - CDR = Call Detail Recording processing queue
 - DIAL = dialing queue
 - IDLE = idle queue
 - NONE = call is not in a timing queue
 - RING = ringing queue
- 39** RCVR xx SET yy — timeslot to the Digitone Receiver (xx) and the telephone (yy)
- 40** RGAT_PM — Ring Again progress mark
- 41** RL_IND xx RL_ENT xx — NARS/BARS route list index and entry number
- 42** SRC — console source information to follow
- 43** SBSY — unit is software busy
- 44** SLOT — the timeslot used by the originator and terminator
- 45** TALKSLOT — identifies the timeslot and junctor (if applicable) used by the originator and terminator
- 46** TDTN — Tone Digit Switch loop and timeslot
- 47** TERM — originating party information, identifies the TN or DN where the call terminates, output depends on type of telephone or console

LD 80

- 48 TGAR_ORIG, TGAR_TERM — Trunk Group Access Restriction for
originating and terminating party
- 49 TTR = Digitone Receiver TN

Basic commands

DALL	Disable all enhanced trace commands.
DIST n	Disable the enhanced trace operation.
ENTC l s c u t	Enable the enhanced trace command for a TN.
ENTD l ch t	Enable the enhanced trace command for a digital trunk.
FITR	Get information about the enhanced trace function.
GOTR	Begin enhanced trace commands. This command starts the trace operation specified with the ENTC and ENTD commands.
STPT	Stop the enhanced trace command.
TRAC c acod	List route number, type and status of each trunk for customer c
TRAC c dn	Trace calls for customer c Directory Number or Local Steering Code dn
TRAC c r m	Trace calls, customer c, route r, member m
TRAK c u	Trace calls associated with this unit
TRAK c u k	Trace calls associated with key k on specified unit
TRAC x yyyy	Trace using customer number as DN
TRAC xx...xx DEV	Print auxiliary data
TRAC zzzz	Trace using TN of the set to be traced
TRAD loop ch	Trace DTI or DLI calls, channel ch of loop
TRAT c a	Trace calls, attendant a of customer c
TRAT c a k	Trace calls associated with key k of attendant console a for customer c
TRAO c u	Trace attendant calls, this unit
TRAO c u k	Trace attendant calls on key k
TRAO xx...xx DEV	Print auxiliary data

Alphabetical list of commands

Command	Description
DALL	<p>Disable all enhanced trace commands.</p> <p>This command disables all trace commands enabled with ENTC or ENTND command. You must stop the trace with the STPT command before disabling all the commands with DALL.</p>
DIST n	<p>Disable the enhanced trace operation.</p> <p>This command disables the trace command enabled with ENTC or ENTND command. This command is used once a trace command is started then stopped.</p> <p>Where: n = the entry number (as seen with the FITR command)</p>
ENTC c 00 u t	<p>Enable the enhanced trace command for a TN.</p> <p>This command enables the trace capability for the TN specified. Note that this command does not start the trace immediately. Use the GOTR command to begin the trace operation.</p> <p>Where: l = loop, s = shelf, c = card, u = unit and t = the length of time the trace command operates.</p> <p>The format for the trace command duration (t) is HHMM, where HH = hours (0-23) and MM = minutes (0-59). For example, for a duration of 5 minutes, t = 0005; for 1 hour, t = 0100</p> <p>The time duration must be at least 1 minute, and no more than 23 hours.</p>
ENTND l ch t	<p>Enable the enhanced trace command for a digital trunk.</p> <p>This command enables the trace capability for the TN specified. Note that this command does not start the trace immediately. Use the GOTR command to begin the trace operation.</p> <p>Where: l = loop, s = shelf, c = card, u = unit and t = the length of time the trace command operates.</p> <p>The format for the trace command duration (t) is HHMM, where HH = hours (0-23) and MM = minutes (0-59). For example, for a duration of 5 minutes, t = 0005; for 1 hour, t = 0100. The time duration must be at least 1 minute, and no more than 23 hours.</p>

FITR

Get information about the enhanced trace function. This command queries the TNs or Digital trunks being traced with the ENTC and ENT D commands.

The output is shown as follows:

ENTRY	TN or TRUNK	TIME	STATUS
1	01 0 00 01	0030	OFF
2	001 04	1200	OFF

For example:

GOTR

Begin enhanced trace commands. This command starts the trace operation specified with the ENTC and ENT D commands.

STPT

Stop the enhanced trace command.

This command stops the enhanced trace operation specified with the ENTC and ENT D commands. This can be used at any time during the trace operation. This does not disable the commands; they can be restarted with the GOTR command. When they are restarted, the duration timer is reset.

For example: the timer is set at 30 minutes, but the trace is stopped after 2 minutes. When the trace is restarted (GOTR) the timer is set to 30 minutes.

TRAC c acod

List route number, type and status of each trunk for customer c.

TRAC c dn

Trace calls for customer c Directory Number or Local Steering Code dn.

TRAC c dn

Trace calls, this dn of customer c.

TRAC c r m

Trace calls, customer c, route r, member m.

TRAK c 00 u

Trace calls associated with this unit. If a trace is performed on a DTR, an error message is output.

TRAK c 00 u k

Trace call associated with key k on specified unit.

TRAC x yyyy

Trace using customer number as DN.

Where : x = customer number of the set to be traced and
yyyy = DN of the key to be traced.

TRAC xx...xx DEV

Print the auxiliary data related to the call for Network Alternate Route Selection (NARS), Basic Alternate Route Selection (BARS), Coordinated Dialing Plan (CDP) or Ring Again (RGA), where equipped, as well as the normal data for command xx...xx. Command xx...xx can be any of the TRAC commands.

When TYP E is output, E = extended route (not expensive).

TRAC zzzz

Trace using TN of the set to be traced.

Where : zzzz = TN of the set to be traced.

TRAD loop ch

Trace DTI or DLI calls, channel ch of specified loop.

TRAT c a

Trace calls for customer c, attendant a.

TRAT c a k

Trace calls associated with key k of attendant console a for customer c.

TRAO c 00 u

Trace attendant calls, this unit.

TRAO c 00 u k

Trace attendant calls on key k.

TRAT xx...xx DEV

Print auxiliary data.

Print the auxiliary data related to the call for Network Alternate Route Selection (NARS), Basic Alternate Route Selection (BARS), Coordinated Dialing Plan (CDP) or Ring Again (RGA), where equipped, as well as the normal data for command xx...xx. Command xx...xx can be one of the TRAT commands.

LD 81—Features and Station Print

Overlay program 81 is used to print a list or count of telephones with selected features. It also allows last service change date information to be printed.

A TN which is the Multiple Appearance Redirection Prime (MARF) is indicated by an “M” following FEAT (when TYPE = MCN, SCN, MCR, or SCR).

Prompts and responses

Prompt	Response	Comment
REQ	aaa	Request (aaa = LST, CNT, or END)
CUST	xx	Customer
DATE	a...a	Print data from activity date specified (You may enter : dd mmm yyyy or ACT)
PAGE	(NO) YES	Data printed on a per page basis
DES	d...d	1-6 alphanumeric character Office Data Administration System
FEAT	aaaa	Features requested (FEAT responses begin on page 711)
RNPG	xx yy	Ringling Number Pick Up Group
LSNO	xx yy	List Number
NCOS	xx yy	Network Class of Service
- ADJUST PAPER THEN <cr>	<cr>	Starts printing
NACT	(NO) YES	Next Activity

Alphabetical list of prompts

Prompt	Response	Comment
ADJUST PAPER THEN	<cr>	Starts printing Prompted when PAGE = YES
CUST	xx xx <cr>	One Customer or a range of Customer numbers All Customers
DATE	dd mmm yyyy	Print data from activity date specified. Where: <ul style="list-style-type: none"> • dd = day (0-31) • mmm = month (JAN-DEC) • yyyy = year
	ACT <cr>	Print data from last Activity date. Disregard date restrictions.
DES	d...d dddd d+ + <cr>	1-6 alphanumeric character Office Data Administration System (ODAS) Station Designator Print data for stations with specific DES. Print data for stations with a DES starting with d. Print data for all stations with no DES. Print data for all stations.
FEAT		Features requested Enter a specific feature mnemonic or one the following for groups of features: ALL, COS, DNK, SETS, SCL, RNP or 500. FEAT is repeated until <cr> is entered.
	2000 500	All M2000 telephones 500/2500 type telephone Print both MNL and DIP telephones. 2500 type telephones are requested by DTN entry.
	AAA AAD	Automatic Answerback Allowed Automatic Answerback Denied
	AAK	Automatic Answerback Key
	ACD	ACD in calls key

LD 81

Prompt	Response	Comment
ACNT		Assignment of activity codes allowed
ADD		Automatic Digit Display equipped
ADL		Autodial key
ADV		Data port Verification allowed
AGN		ACD Agent
AGT		ACD Agent's key
AGTA		ACD services for 500/2500 telephone Allowed
AGTD		ACD services for 500/2500 telephone Denied
ALL		All features When REQ = LST, only the features actually programmed on telephones are listed along with the associated TN. Features not listed are RNPK, DIP and MNL. When REQ = CNT, features available in the system software are listed even if they are not programmed on any telephone. Not listed are RNPK, 500, 2500, SL-1, 2000, and 3000.
AO3		Three-party conference key
AO6		Six-party conference key
ARC		Attendant Recall key
ARHA		Audible Reminder of Held Call Allowed
ARHD		Audible Reminder of Held Call Denied
ASCA		Alarm Security Allowed
ASCD		Alarm Security Denied
AUTD		Authorization Code Denied
AUTR		Authorization Code Restricted
AUTU		Authorization Code Unrestricted
BFS		Busy Forward Status key
C6A		Six-Party Conference Allowed
C6D		Six-Party Conference Denied

Prompt	Response	Comment
	CA	Combined No Hold Conference and Autodial
	CAS	Centralized Attendant Service
	CCOS	Controlled Class of Service key
	CCSA	Controlled Class of Service Allowed
	CCSD	Controlled Class of Service Denied
	CDCA	Conferee Display Count Allowed
	CDCD	Conferee Display Count Denied
	CDMA	Station Activity Records Allowed
	CDMD	Station Activity Records Denied
	CFHA	List/count sets with CFHA CLS
	CFHD	List/count sets with CFHD CLS
	CFTA	Call Forward by Call Type Allowed
	CFTD	Call Forward by Call Type Denied
	CFW	Call Forward key
	CFXA	Call Forward number to External DN Allowed
	CFXD	Call Forward number to External DN Denied
	CHD	Combined No Hold Conference and Direct Hot Line
	CHG	Charge Account key
	CHL	Combined No Hold Conference and Hot Line list
	CLTA	Network Call Trace Allowed
	CLTD	Network Call Trace Denied
	CMSA	Command and Status link Allowed
	CNAA	CLASS Calling Name Multiple Data Format Allowed.
	CNAD	CLASS Calling Name Denied.
	CNIA	Call Number Identification Allowed
	CNID	Call Number Identification Denied
	CNTA	Network ACD Countdown Allowed
	CNTD	Network ACD Countdown Denied

LD 81

Prompt	Response	Comment
	CNUA	CLASS Calling Number Multiple Data Format Allowed.
	CNUD	CLASS Calling Number Denied.
	CNUS	CLASS Calling Number Single Data Format Allowed.
	COS	Print stations with Class of Service restrictions. These are telephones with equipped with C6A, C6D, CMSA, CNDA, CNDD, CTD, CUN, DSI, FRE, FR1, FR2, NCOS, SFA, SFD, SRE, TLD, TTA, TTD, UNR and VMA.
	CPN	Display Calling Party Number key
	CS	Combined No Hold Conference and Speed Call
	CSD	Conferee Selectable Display key
	CTD	Conditionally Toll Denied
	CUN	Conditionally Unrestricted
	CWA	Call Waiting Allowed
	CWD	Call Waiting Denied
	CWT	Call Waiting key
	DAG	ACD Display Agents key
	DCFW	Default call forward for Phantom TNs
	DDGA	DN Display on other set Allowed
	DDGD	DN Display on other set Denied
	DDS	Digit Display allowed
	DDV	Data port Verification denied
	DIG	Dial Intercom Group
	DIP	Dial Pulse telephone (500 type)
	DNDA	Dialed Name Display Allowed
	DNDD	Dialed Name Display Denied
	DNK	Telephones with MCN, MCR, SCN, and SCR keys
	DPU	DN Pickup key

Prompt	Response	Comment
	DPUA	DN Pickup Allowed
	DPUD	DN Pickup Denied
	DRC	DID Route Control
	DRG1	Digital telephone Distinctive Ringing (high/fast)
	DRG2	Digital telephone Distinctive Ringing (high/slow)
	DRG3	Digital telephone Distinctive Ringing (low/fast)
	DRG4	Digital telephone Distinctive Ringing (low/slow)
	DSP	Digit Display key
	DTA	Data set
	DTN	Digitone dial telephone (2500 type)
	DWC	ACD Display Waiting Calls key
	FAXS	Facsimile servers
	FBA	Call Forward Busy Allowed
	FBD	Call Forward Busy Denied
	FITA	Flexible Incoming Tones Allowed
	FITD	Flexible Incoming Tones Denied
	FLXA	Flexible voice/data TN allowed
	FLXD	Flexible voice/data TN denied
	FNA	Call Forward No Answer Allowed
	FND	Call Forward No Answer Denied
	FR1	Fully Restricted class 1
	FR2	Fully Restricted class 2
	FRE	Fully Restricted
	GPU	Group Call Pickup key
	GPUA	Group call Pickup Allowed
	GPUD	Group call Pickup Denied
	GRC	Group Recall key
	HFA	Handsfree Allowed M2616
	HFD	Handsfree Denied M2616

LD 81

Prompt	Response	Comment
	HOTD HOTL	Enhanced Hot Line, Direct entry method Enhanced Hot Line, List entry method
	HPR	High Priority station
	HTA HTD	Hunting Allowed Hunting Denied
	HTL	Hot Line
	ICDA ICDD	Internal CDR Allowed Internal CDR Denied
	ICF	Internal Call Forward key
	IMA	IMS or IVMS Allowed
	IRA IRD	Incoming Ringing line preference Allowed Incoming Ringing line preference Denied
	KLS	Key/lamp Strip
	LDTA LDTD	Line Disconnect Tone allowed Line Disconnect Tone denied
	LLC1 LLC2 LLC3 LLCA LLCN	Line Load Control level 1 Line Load Control level 2 Line Load Control level 3 Line Load Control Allowed Line Load Control off
	LNA LND LNK	Last Number Redial Allowed Last Number Redial Denied Last Number Redial Key
	LOL	Long Line Class of Service
	LPA LPD	Message Waiting lamp Allowed Message Waiting lamp Denied
	LPR	Low Priority station
	(MBXD)	Multi-Party Operation (MPO) Blind Transfer Denied.

Prompt	Response	Comment
	MBXA	Multi-Party Operation (MPO) Blind Transfer Allowed. Multi-Party Operations (MPO) package 141 must be equipped to enter MBXD or MBXA.
	MCD	Message Center DN
	MCK	Message Cancellation Key
	MCN	Multiple Call Non-Ringing DN A TN which is the Multiple Appearance Redirection Prime (MARF) for the DN is indicated by an "M" in the output (MCN M).
	MCR	Multiple Call Ringing DN A TN which is the Multiple Appearance Redirection Prime (MARF) for the DN is indicated by an "M" in the output (MCN M).
	MCTA	Malicious Call Trace Allowed
	MCTD	Malicious Call Trace Denied
	MIK	Message Indication Key
	MNL	Manual service
	MON	TN(s) Monitored by at least one BFS key
	MRA	Message Registration Allowed
	MRD	Message Registration Denied
	MSB	Make Set Busy key
	MTA	Maintenance set Allowed
	MWA	Message Waiting Allowed
	MWD	Message Waiting Denied
	MWK	Message Waiting key
	NAMA	Name display on other set Allowed
	NAMD	Name display on other set Denied
	NCOS	Network Class of Service (COS)
	NDD	No Digit Display
	NHC	No Hold Conference
	NIA	Incoming non-ringing line preference Allowed

LD 81

Prompt	Response	Comment
	NID	Incoming non-ringing line preference Denied
	NKL	Notification Key Lamps
	NRD	ACD Not Ready key
	NSVC	ACD Night Service key for Supervisor Control
	OLA	Outgoing Line preference Allowed
	OLD	Outgoing Line preference Denied
	ONS	On Premise Station
	OPS	Off Premise Station
	OVB	Attendant Overflow position
	OVDA	Override Allowed (500/2500 telephone)
	OVDD	Override Denied (500/2500 telephone)
	OVR	Override key
	PHD	Permanent Hold
	POA	Optional Privacy Allowed
	POD	Optional Privacy Denied
	PRK	Park key
	PRS	Privacy Release key
	PUA	Call Pickup Allowed
	PUD	Call Pickup Denied
	PVN	Private Line Non-ringing phantom DN
	PVR	Private Line Ringing phantom DN
	RDL	Stored Number Redial
	RGA	Ring Again key
	RLS	Release key
	RNP	Ringing Number Pickup (includes PUA, PUD and RNPK)

Prompt	Response	Comment
	RNPK	Ringing Number Pickup key
	RTDA	Call Redirection by Time of day allowed
	RTDD	Call Redirection by Time of day denied
	SAR	Scheduled Access Restriction
	SCC	Speed Call Controller
	SCI	Station Category Indication Priority Level
	SCL	Speed Call (includes SCU and SCC)
	SCN	Single Call Non-ringing DN A TN which is the Multiple Appearance Redirection Prime (MARF) for the DN is indicated by an "M" in the output (MCN M).
	SCR	Single Call Ringing DN A TN which is the Multiple Appearance Redirection Prime (MARF) for the DN is indicated by an "M" in the output (MCN M).
	SCU	Speed Call User
	SETS	All telephones
	SFA	Second level Forwarding Allowed
	SFD	Second level Forwarding Denied
	SHL	Short Line Class of Service
	SIG	Buzz key to phantom DN
	SPV	ACD Supervisor
	SRE	Semi-Restricted
	SSC	System Speed Call Controller
	SSU	System Speed Call User
	SWA	Station-to-Station Call Waiting Allowed
	SWD	Station-to-Station Call Waiting Denied
	TAD	Time And Date key

LD 81

Prompt	Response	Comment
	TDD	Touchphone Display
	THF	Centrex Trunk Switchhook Flash
	THFA	Centrex Trunk Switchhook Flash Allowed (500/2500 telephones)
	THFD	Centrex Trunk Switchhook Flash Denied (500/2500 telephones)
	TLD	Toll Denied
	TRC	Malicious Call Trace key
	TRN	Call Transfer key
	TSA	Three-Party Service Allowed
	TVA	Trunk Verification Allowed
	TVD	Trunk Verification Denied
	ULAA	User Level Access Allowed for set based administration
	ULAD	User Level Access Denied for set based administration
	UNR	Unrestricted
	USR	User Selectable Call Redirection key
	USRA	User Selectable Call Redirection allowed
	USRD	User Selectable Call Redirection denied
	UST	Telephone Status feature
	VCC	Voice Call to phantom DN
	VCE	Voice set
	VMA	Server Voice Messaging Allowed
	WTA	Warning Tone Allowed
	WTD	Warning Tone Denied
	WUK	Guest entry of Automatic Wake Up key
	XFA	Call Transfer Allowed
	XFD	Call Transfer Denied
	XHA	Exclusive Hold Allowed
	XHD	Exclusive Hold Denied

Prompt	Response	Comment
	XRA XRD	Ring Again Allowed Ring Again Denied
LSNO		List Number.
	0-8190 0-8190 <cr>	One Speed Call List Number or a range of list numbers Print all lists. LSNO is prompted when FEAT is SCL, SCU, SCC, SSC, SSU or CS.
NACT	(NO) YES END	Next Activity Return to REQ prompt. Print current system data and exit overlay. Exit Overlay program.
NCOS		Network Class of Service. NCOS is prompted when FEAT = COS or NCOS.
	0-99 0-99	One NCOS group number, or a range of group numbers for all features
PAGE	(NO) YES	Data printed on a per page basis
REQ	CNT END LST	Request Print a count of telephones equipped with the features specified in response to the FEAT prompt. Exit Overlay program. List telephones equipped with the features specified in response to the FEAT prompt.
RNPG	0-4095 0-4095 <cr>	Ringing Number Pickup Group. One Ringing Number Pickup Group number or a range of group numbers Print all groups. RNPG is prompted when FEAT = RNP, RNPk, PUA, PUD, DPU, DPUA, DPUD, GPU, GPUa or GPUD.
SGRP	0-999 0-999	Station Group One station group number or a range of station group numbers

LD 81

Page 722 of 848 Alphabetical list of prompts

LD 82—Print Hunt Chain, Multiple Appearance Group

Overlay program 82 allows the printing of hunting patterns and Multiple Appearance groups for system stations.

Refer to the Office Data Administration System NTP (553-2721-100) for detailed information regarding printouts for multiple appearance DN, single appearance DN appearing on telephones with multiple appearance DN, and hunting patterns.

A TN which is the Multiple Appearance Redirection Prime (MARF) is indicated by an “M” preceding the TN in the output.

Prompts and responses

Prompt	Response	Comment
REQ	aaa	Request (aaa = EHT, END, HNT, MAG, MAP)
CUST	xx xx	Customer number or range of customer numbers
DATE	a...a	Print data from activity date specified or last activity date (You may enter : dd mmm yyyy or ACT)
PAGE	(NO) YES	Data printed on a per-page basis
DES	a...a	Print all telephones with DES "dddddd"
DN	xxxx	Print specific DN
- ADJUST PAPER THEN <cr>		
	<cr>	Starts printing
NACT	(NO) YES	Next Activity

Alphabetical list of prompts

Prompt	Response	Comment
ADJUST PAPER THEN	<cr>	Starts printing. Prompted when PAGE = YES
CUST	xx xx <cr>	Customer number or range of customer numbers Print data for all customers.
DATE	dd mmm yyyy	Print data from activity date specified. Where: <ul style="list-style-type: none"> • dd = day (0-31) • mmm = month (JAN-DEC) • yyyy = year
	ACT <cr>	Print data from last activity date. Disregard date restrictions.
DES	dddddd d+ + <cr>	Print all telephones with DES "dddddd" Print all telephones with DES "d" Print all telephones with no DES assignment Disregard DES
DN	xxxx xxxx xxxx ALL <cr>	Print specific DN Print range of DNs Print data when REQ = MAG or MAP Print data for all DNs DN may be up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150.
NACT	(NO) YES END	Next Activity Return to REQ prompt Print current system data and exit Overlay Exit Overlay program
PAGE	(NO) YES	Data printed on a per-page basis
REQ	EHT END HNT	Request External Hunting pattern (except regular and short hunting) Exit Overlay program Hunting pattern (except short hunting and EHT)

LD 82

Page 726 of 848 Alphabetical list of prompts

Prompt	Response	Comment
	MAG	Multiple Appearance Groups Print Multiple Appearance Groups including all Single Appearance DNs assigned on telephones having Multiple Call Assignments.
	MAP	Multiple Appearance Print Multiple Appearance DN and associated TNs. The hunt pattern displayed shows only the first TN in a MADN hunt group.

LD 83—Terminal Number Sort and Print

Overlay program 83 allows the printing of a list of TNs and of TN blocks in Designation (DES) order.

“MARF” is output after the DN when printing the TN block (NOT when using the LST command) if the TN is the Multiple Appearance Redirection Prime.

Prompts and responses

Prompt	Response	Comment
REQ	aaa	Request (aaa = END, LST, TNB)
CUST	xx xx	Customer number or range of customer numbers
DATE	a...a	Print data from activity date specified or last activity date (You may enter : dd mmm yyyy or ACT)
PAGE	(NO) YES	Data printed on a per-page basis
- ADJUST PAPER THEN <cr>	<cr>	Starts printing
NACT	(NO) YES	Next Activity

Alphabetical list of prompts

Prompt	Response	Comment
ADJUST PAPER THEN	<cr>	Starts printing
CUST	xx xx <cr>	Customer number or range of customer numbers Print data date for all customers
DATE	dd mmm yyyy	Print data from activity date specified. Where: dd = day (0-31) mmm = month (JAN-DEC) yyyy = year
	ACT <cr>	Print data from last activity date Disregard date restrictions
NACT	(NO) YES END	Next Activity Return to REQ prompt Print current system data and exit overlay Exit Overlay program
PAGE	(NO) YES	Data printed on a per-page basis
REQ	END LST TNB	Request Exit Overlay program Print List of TNs in designator order Print list of TN blocks in designator order

LD 84, 85—Set Designation Entry (ODAS)

Overlay program 84 allows the addition of line designators to existing single line (500/2500) sets.

Overlay program 85 allows the addition of line designators to existing multi-line (M2000, M2616 etc.) sets.

If currently active on a call, the station will be disconnected after the last <CR>.

Prompts and responses

Prompt	Response	Comment
TN	c u	Terminal Number
DES	d...d	1-6 character alphanumeric designator

LD 84, 85

Page 730 of 848 Alphabetical list of prompts

Alphabetical list of prompts

Prompt	Response	Comment
DES	d...d	1-6 character alphanumeric Office Data Administration System (ODAS) Station Designator
TN	c u END	Terminal Number Exit Overlay program

LD 86—Electronic Switched Network 1

Overlay program 86 allows data defining the NARS/BARS/CDP features to be created, modified, and printed.

Prompts and responses

Table of Contents

Section	Page
<i>Prompts and responses by feature :</i>	
FEAT = DGT (Digit Manipulation)	page 732
FEAT = ESN (Electronic Switched Network)	page 733
FEAT = ITGE (Incoming Trunk Exclusion)	page 734
FEAT = RLB (Route List)	page 735

FEAT = DGT (Digit Manipulation)

Prompt	Response	Comment
REQ	a...a	Request (a...a = CHG, END, LCHG, NEW, OUT, or PRT)
CUST	xx	Customer number associated with this function
FEAT	DGT	Feature = DGT (Digit manipulation)
MXLC	0-1000	Maximum number of LOC codes (NARS only)
DMI	(0)-999	Digit Manipulation Index numbers
DEL	(0)-19	Number of leading digits to be Deleted
INST	x...x	Insert
CTYP	a...a	Call Type to be used by the manipulated digits (a...a = (NCHG), INTL, NPA, NXX, LOC, CDP, SPN, or UKWN)

FEAT = ESN (Electronic Switched Network)

Prompt	Response	Comment
REQ	a....a	Request (a....a = CHG, END, LCHG, NEW, OUT, or PRT)
CUST	xx	Customer number associated with this function
FEAT	ESN	Feature = ESN (Electronic switched network)
MXLC	0-1000	Maximum number of LOC codes (NARS only)
MXSD	xxx	Maximum number of Supplemental Digit restriction blocks
MXIX	xxx	Maximum number of Incoming Trunk Group exclusion tables
MXDM	0-256	Maximum number of Digit Manipulation tables
MXRL	xxx	Maximum number of Route Lists
MXFC	0-256	Maximum number of Free Calling area screening tables
MXFS	0-255	Maximum number of Free Special number screening tables
CDP	(YES) NO	Coordinated Dialing Plan feature for this customer
- MXSC	0-5000	Maximum number of Steering Codes
- NCDP	3-7	Number of digits in CDP DN (DSC + DN or LSC + DN)
AC1	xx	One or two digit NARS/BARS Access Code 1
AC2	xx	One or two digit NARS Access Code 2
DLTN	(YES) NO	NARS/BARS Dial Tone after dialing AC1 or AC2 access codes
ERWT	(YES) NO	Expensive Route Warning Tone
- ERDT	0-(6)-10	Expensive Route Delay Time
TODS	aa-aa	Time of Day Schedules
RTCL	(DIS) YES	Routing Controls
NMAP	xx yy	NCOS Map
ETOD	1-7	Extended Time of Day schedule
TGAR	(NO) YES	Check for Trunk Group Access Restrictions

FEAT = ITGE (Incoming Trunk Exclusion)

Prompt	Response	Comment
REQ	a...a	Request (a...a = CHG, END, LCHG, NEW, OUT, or PRT)
CUST	xx	Customer number associated with this function
FEAT	ITGE	Feature = ITGE (Incoming Trunk Exclusion)
MXLC	0-1000	Maximum number of LOC codes (NARS only)
ITEI	1-127	Incoming Trunk group Exclusion Index number
RTNO	0-127	Route Number associated with index

FEAT = RLB (Route List)

Prompt	Response	Comment
REQ	a...a	Request (a...a = CHG, END, LCHG, NEW, OUT, or PRT)
CUST	xx	Customer number associated with this function
FEAT	RLB	Feature = RLB (Route list)
MXLC	0-1000	Maximum number of LOC codes (NARS only)
RLI	xxx	Route List Index to be accessed
ENTR	xxx	Entry number for NARS/BARS Route list
LTER	(NO) YES	Local Termination entry
ROUT	0-511	Route number
TOD	0-7	Time of Day schedule
CNV	(NO) YES	Conversion to LDN
EXP	(NO) YES	Expensive route
FRL	(0)-7	Facility Restriction Level
DMI	(0)-999	Digit Manipulation Index
FCI	(0)-255	Free Calling Area Screening Index number
FSNI	(0)-1-255	Free Special Number Screening Index
CBQ	(NO) YES	Call Back Queuing
ISSET	(0)-8	Initial Set
MFRL	aaa	Set Minimum Facility Restriction Level (aaa = (MIN) or 0-7)

Alphabetical list of prompts

Prompt	Response	Comment
AC1	xx xxxx	One or two digit NARS/BARS Access Code 1 One to four digit Flexible Numbering Plan Access Code 1 The access code cannot conflict with the numbering plan.
AC2	xx xxxx	One or two digit NARS Access Code 2 One to four digit Flexible Numbering Plan Access Code 2 The access code cannot conflict with the numbering plan.
CBQ	(NO) YES	Call-Back Queuing not allowed Call-Back Queuing allowed CBQ is not prompted if LTER = YES.
CDP	(YES) NO	Coordinated Dialing Plan feature for this customer
CNV	(NO) YES	Conversion to LDN required (NARS). Not prompted if route is TKTP = ADM or LTER = YES
CTYP	(NCHG) INTL NPA NXX LOC CDP SPN UKWN	Call Type to be used by the manipulated digits. This call type must be recognized by the far-end switch. Call type will not be changed Special number in International format NPA NXX Location Code Coordinated Dialing Plan Special Number other than International Unknown call type
CUST	xx	Customer number associated with this function as defined in LD 15
DEL	(0)-19	Number of leading digits to be Deleted
DLTN	(YES) NO	NARS/BARS Dial Tone after dialing AC1 or AC2 access codes
DMI	(0) (0)-31 (0)-255 (0)-999	Digit Manipulation Index numbers No digit manipulation required CDP NARS/BARS NARS/BARS with Flexible Numbering Plan (FNP) package 160

Prompt	Response	Comment
		The maximum number of Digit Manipulation tables is defined by prompt MXDM. DMI is not prompted if route TKTP = ADM.
ENTR	0-63 0-6 X0-X63	Entry number for NARS/BARS Route List Route list entry number for CDP To remove an entry
ERDT	0-(6)-10	Expensive Route Delay Time (in 2 second intervals)
ERWT	(YES) NO	Expensive Route Warning Tone Note: ERWT is not supported on TIE trunks. ERWT defaults to of three bursts of tone, but may be modified in LD 56 if Flexible Tones and Cadences (FTC) package 125 is equipped, to indicate that the call will be placed over an expensive route. The user has 3 choices: <ol style="list-style-type: none"> 1. go On-Hook and abort the call 2. remain On-Hook and accept the call 3. activate Ring Again
ETOD	1-7 X1-X7	Extended Time of Day schedule (day(s) of the week for special TOD schedule) Where:1 = Sunday and 7 = Saturday. To remove a day
EXP	(NO) YES	Expensive route Not prompted if route TKTP = ADM or LTER = YES
FCI	(0)-127 (0)-255	Free Calling area screening Index number BARS NARS Use 0 if no FCAS is required. Not prompted if route TKTP = ADM.
FEAT	DGT ESN ITGE RLB	Feature Digit manipulation data block ESN data block Incoming Trunk Group Exclusion data block Route List data Block
FRL	(0)-7	Facility Restriction Level
FSNI	(0)-1-255	Free Special Number screening Index
ID	x...x	Digits (up to 16) dialed to reach a remote attendant

LD 86

Prompt	Response	Comment
	<cr>	Leave ID unchanged, go to ALT prompt.
INST	x...x	Insert. Where x...x is: <ul style="list-style-type: none"> • up to 31 leading digits may be inserted
ISSET	(0)-64	Initial Set. Number of entries in Initial Set for route list block.
ITEI	1-127 1-255	Incoming Trunk group Exclusion Index BARS NARS
LTER	(NO) YES	Local Termination entry
MFRL	(MIN) 0-7	Set Minimum Facility Restriction Level used to determine autocode prompting. Use default of MIN to set to the minimum FRL value.
MXDM	0-32 0-256 0-1000	Maximum number of Digit Manipulation tables (you must count Table 0 for the system) CDP NARS/BARS NARS/BARS with Flexible Numbering Plan (FNP) package 160 equipped
MXFC	0-127 0-255	Maximum Free Calling area screening tables BARS NARS Prompted when NARS/BARS equipped
MXFS	0-255	Maximum number of Free Special Number Screening tables
MXIX	0-127 0-255	Maximum number of Incoming Trunk Group Exclusion tables (use "0" if not required) BARS NARS
MXLC	0-999	Maximum number of LOC codes (NARS only)
MXRL	0-128 0-128 0-256 0-1000	Maximum number of Route Lists If MXRL = 0, the system will not allow the creation of any route lists. CDP BARS NARS NARS with Flexible Numbering Plan (FNP) package 160 equipped

Prompt	Response	Comment
MXSC	0-10000	Maximum number of Steering Codes
MXSD	(0)-1500	Maximum Supplemental Digit restriction blocks Range for both BARS and NARS
NCDP		Define DN length for CDP A Coordinated Dialing Plan (CDP) consists of the CDP code and the Directory Number (DN). This dialing plan does not need an access code because the CDP code is part of the internal dialing plan. The CDP code is one of the following: the Distant Steering Code (DSC) or the Local Steering Code (LSC)
	3-7	Number of digits in CDP DN (DSC + DN or LSC + DN)
	3-10	Number of digits in CDP DN with Directory Number Expansion (DNXP) package 150
NMAP	xx yy	NCOS Map (NCOS numbers to be applied for routing controls). Where: <ul style="list-style-type: none"> • xx = current NCOS number • yy = NCOS number to be applied for BARS/CDP or NARS when routing control is in effect. NCOS ranges: <ul style="list-style-type: none"> • 0-99
REQ	CHG END LCHG NEW OUT PRT	Request Change existing data block. Exit Overlay program. Print date and time that each data group was last changed (data groups include: ESN, DGT, RLB, and ITGE) Create new data block. Remove data block. Print data block.
RLI	0-127 0-255 0-999	Route List Index to be accessed CDP and BARS NARS FNP
ROUT	0-511	Route number Not prompted if LTER = YES.

LD 86

Page 740 of 848 Alphabetical list of prompts

Prompt	Response	Comment
RTCL	(DIS) YES	Disable Routing Controls. Enable or modify Routing Controls.
RTNO	0-511	Route Number associated with index Precede with X to delete an existing route.
TGAR	(NO) YES	Check for Trunk Group Access Restrictions Ignore TGAR/TARG when call is placed through BARS. Examine TGAR/TARG when call is placed through BARS.
TOD	0-1 0-7	Time of Day schedule CDP NARS/BARS Precede with X to turn off schedule.
TODS	1-31 0 0-1 0-7 0-7 hh mm hh mm 0-1 hh mm hh mm X1-X31 X0 <cr>	Time of Day schedule Schedule period to be changed. Catch-all period. Start and stop times are not relevant for this period. The next prompt is ALST. CDP NARS/BARS Schedule number, start hour, start minute, end hour, end minute for NARS/BARS. Schedule number, start hour, start minute, end hour, end minute for CDP. Remove the schedule period Remove/clear all alternatives associated with period 0. This leaves the catch-all treatment as local attendant treatment. End NAS feature data setup and return to REQ prompt.
TONE	SCC DIAL	SCC dial tone type expected Normal dial tone type expected
TYPE	CC1 CC2 TIE	SCC Type 1 tone detector application SCC type 2 tone detector application On-network call tone detector application
VDCH	1-15	VNS D-channel number
VDMI	(0) 1-31	VNS Digit Manipulation Index number for the D-channel (ESN routing) No digit manipulation required CDP

Prompt	Response	Comment
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1-255	NARS/BARS	
0-999	With Flexible Numbering Plan (FNP) package 160	

LD 87—Electronic Switched Network 2

Overlay program 87 allows data which define the NARS/BARS/CDP features to be created, modified and printed.

Prompts and responses

Table of Contents

Section	Page
<i>Prompts and responses by feature :</i>	
FEAT = CDP (Coordinated Dialing Plan)	page 744
FEAT = FCAS (Free Calling Area Screening)	page 745
FEAT = FSNS (Free Special Number Screening)	page 745
FEAT = NCTL (Network Control)	page 746

FEAT = CDP (Coordinated Dialing Plan)

Prompt	Response	Comment
REQ	a...a	Request (a...a = CHG, END, LCHG, NEW, OUT, or PRT)
CUST	xx	Customer number associated with this function
FEAT	CDP	Feature = CDP (Coordinated Dialing Plan)
TYPE	aaa	Type of steering code (aaa = LSC, DSC, or TSC)
LSC	x...x	Local Steering Code
- DEL	0-4	Number of digits to be deleted
DSC	x...x	Distant Steering Code
- FLEN	(0)-24	Flexible Length number of digits
- DSP	aaa	Display (aaa = LSC, LOC, or DN)
- RLI	xxx	Route List to be accessed for Distant Steering Code
TSC	x...x	Trunk Steering Code
- FLEN	(0)-24	Flexible Length number of digits
- ITOH	(NO) YES	Inhibit Time-out option
- RLI	0-999	Route List to be accessed for trunk steering code

FEAT = FCAS (Free Calling Area Screening)

Prompt	Response	Comment
REQ	a...a	Request (a...a = CHG, END, LCHG, NEW, OUT, or PRT)
CUST	xx	Customer number associated with this function
FEAT	FCAS	Feature = FCAS (Free Calling Area Screening)
FCI	xxx	Free Calling Area Screening Index number
NPA	xxx	Three-digit NPA code to be screened
NXX	aaaa	NXX codes for NPA (aaaa = DENY or ALLOW)
- DENY	xxx xxx	NXX code or range of codes to be Denied
- ALLOW	xxx xxx	NXX code or range of codes to be Allowed

FEAT = FSNS (Free Special Number Screening)

Prompt	Response	Comment
REQ	a...a	Request (a...a = CHG, END, LCHG, NEW, OUT, or PRT)
CUST	xx	Customer number associated with this function
FEAT	FSNS	Feature = FSNS (Free Special Number Screening)
FSNI	1-255	Free Special Number screening Index
SPN	x...x	Special Number code to be screened
XXX	aaaa	Routing codes (aaaa = DENY or ALLOW)
- DENY	xxx xxx	Routing code or range of codes to be Denied
- ALLOW	xxx xxx	Routing code or range of codes to be Allowed

FEAT = NCTL (Network Control)

Prompt	Response	Comment
REQ	a...a	Request (a...a = CHG, END, LCHG, NEW, OUT, or PRT)
CUST	xx	Customer number associated with this function
FEAT	NCTL	Feature = NCTL (Network Control)
SCBQ	(NO) YES	Call-Back Queuing option
- CBTL	10-(20)-30	Call-Back Queue Time Limit
- RANE	0-511	RAN route number for CBQ offer to ESN stations
NRNG	0-99 1-99	NCOS Range
NCOS	(0)-99	Network Class of Service group number
- EQA	(NO) YES	Equal Access associated with this NCOS group
- FRL	(0)-7	Facility Restriction Level
- RWTA	(NO) YES	Expensive Route Warning Tone
- NSC	(NO) YES	Network Speed Call access allowed
- - LIST	0-253	List numbers to which System Speed Call has access
- CBQ	(NO) YES	Call Back Queuing eligibility
- ROUT	a	Call Back Queuing on Initial or All Routes (a = (I) or A)
- RADT	(0)-30	Route Advance Timer
- ARDL	a	ARDL network route selection is allowed from both initial and extended route sets or only the initial route set (a = (A) or I)
TOHQ	0-7	TCOS OHQ eligibility

Alphabetical list of prompts

Prompt	Response	Comment
ALLOW	xxx xxx <cr>	Routing code (NXX) code or range of codes to be allowed Stop ALLOW prompt
CBQ	(NO) YES	Call Back Queuing eligibility
CBTL	10-(20)-30	Call Back Queue Time Limit (in 2 second increments) This is the time in which the user must respond to Ring Again feature to accept the CBQ call. Applies to multi-line sets only.
CUST	0	Customer number associated with this function as defined in LD 15
DEL	0-4 0-7	Number of digits to be Deleted Up to 7 digits with Directory Number Expansion (DNXP) package 150
DENY	xxx xxx <cr>	Routing (NXX) code or range of codes to be denied Stop DENY prompt.
DMI	0-31 0-999	Digit Manipulation Index for LSC With Flexible Numbering Plan (FNP) package 160
DSC	xxxx	Distant Steering Code Up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. This is reprompted until <CR> is entered.
DSP	(LSC) HLOC DN	Display Local Steering Code Home Location code Directory Number to be used for CLID Prompted with Flexible Numbering Plan (FNP) package 160 and ISDN are equipped.
EQA	(NO) YES	Equal Access associated with this NCOS group
FCI	1-127 1-255	Free Calling area screening Index number BARS NARS Table 0 is network reserved to indicate that no FCAS is applied.
FEAT	CDP FCAS	Feature Coordinated Dialing Plan Free Calling Area Screening

LD 87

Prompt	Response	Comment
	FSNS	Free Special Number Screening (allowed with Flexible Numbering Plan (FNP) package 160)
	NCTL	Network Control
FLEN	(0)-24	Flexible Length number of digits Prompted with Flexible Numbering Plan (FNP) package 160
FRL	(0)-7	Facility Restriction Level FRL is assigned to each NCOS. It determines the entries in a Route List (RLI) to which it has access. 0 is the most restrictive, 7 is the least restrictive and can access more entries.
FSNI	1-255	Free Special Number screening Index
ITOH	(NO) YES	Inhibit Time-out option
LIST	0-4095 <cr>	List numbers to which System Speed Call has access All lists Precede with X to remove SSC list.
LSC	xxxx	Local Steering Code Up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. This is reprompted until <CR> is entered.
MPRI	(0)-3	Maximum Priority attainable in CBQ
NCOS NPA	(0)-99 xxx	Network Class of Service group number Three-digit NPA code to be screened (the first digit must be 2-9; the second and third digits can be 0-9). Omit the "1" in 1 + NPA format. The allowed responses are 200-999. Only 3 digits are allowed, even when using 1 + dialing. BARS allows up to 7 NPA codes per table with a maximum of 800 NXX codes each. Allow up to 15 NPA codes per table with BARS. NARS allows up to 15 NPA codes per table with a maximum of 800 NXX codes each.
	xxx yyy	Area code or extended NPA code translation. Where xxx & yyy = 200 - 999. FCAS accepts only three digits for the NPA, even if 1 + dialing in use.
NRNG	0-99 1-99	NCOS Range (starting and ending number for NCOS printing)

Prompt	Response	Comment
	<cr>	Pressed without defining the ending number, then only the NCOS with the starting number defined is printed. Prompted when REQ = PRT.
NSC	(NO) YES	Network Speed Call access allowed
NXX	DENY ALLOW	NXX codes to be denied for NPA NXX codes to be allowed for NPA
RADT	(0)-30	Route Advance Timer (in 30 second increments, where: 1 = 30 seconds and 30 = 15 minutes)
RANE	0-511	RAN route number for CBQ offer to ESN stations Enter X to remove RAN route.
REQ	CHG END LCHG NEW OUT PRT	Request Change existing data block Exit Overlay program Print date and time that each data group level was last changed (data groups include: NCTL, FCAS, FSNS, LSC, DSC, and TSC) Create new data block Delete existing data block Print data block
RLI	0-31 0-127 0-255 0-999	Route List accessed for trunk or distant steering code CDP BARS NARS Flexible Numbering Plan (FNP)
ROUT	(I) A	Call Back Queuing on Initial routes The system offers queuing only after examining ISET (Initial Set) entries. Call Back Queuing on All routes The system examines all entries in the route list, both ISET (Initial Set) and ESET (Extended Set) before offering queuing.
RWTA	(NO) YES	Expensive Route Warning Tone
SCBQ	(NO) YES	Call Back Queuing option
SPN	x...x	Special Number code to be screened SPN can be 1 to 19 digits

LD 87

Prompt	Response	Comment
TOHQ	0-7 <cr>	TCOS OHQ eligibility Which TCOS (i.e., FRL) are OHQ eligible (Up to 8 entries). No TCOS are OHQ eligible Precede with X to remove OHQ eligibility from a TCOS.
TSC	xxxx	Trunk Steering Code Up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. This is reprompted until <CR> is entered.
TYPE	LSC DSC TSC FSNS ALL	Local Steering Code Distant Steering Code Trunk Steering Code Free Special Number Screening Index All steering codes
XXX	DENY ALLOW	Routing codes to be denied Routing codes to be allowed

LD 88—Authorization Code

Overlay program 88 allows data for Basic Authorization Code (BAUT) and Network Authorization Code (NAUT) to be created, modified and printed.

Prompts and responses

Table of Contents

Section	Page
<i>Prompts and responses by data block :</i>	
AUB or RAUB: Authcode or Room Authcode data block	page 752
AUT : Authcode entries data block	page 753
SAR: Scheduled Access Restriction data block	page 753

AUB or RAUB: Authcode or Room Authcode data block

Prompt	Response	Comment
REQ	aaa	Request (aaa = CHG, END, NEW, OUT, or PRT)
TYPE	aaaa	Type = AUB (Authcode) or RAUB (Room Authcode)
CUST	0	Customer number associated with this function
SPWD	xxxx	Secure Data Password
ALEN	1-14	Authcode Length
ACDR	NO YES	Activate CDR for authcodes
AUTHCOD_ALRM	(OFF) ON	Authcode Alarm
RANR	0-511	RAN Route number
RTRY	(NO) YES	(Disable) Enable Authcode - last Retry
- RAN2	0-511	Route number for Authcode - last Retry RAN
CLAS	(0)-115	Class code value assigned to authcode (NAUT)
- COS	a...a	Class of Service (a...a = (CTD), CUN, FR1, FR2, FRE, SRE, TLD, UNR, IPNA, or IRGA)
- TGAR	1-(0)-31	Trunk Group Access Restriction
- NCOS	(0)-99	Network Class of Service
AUTO	YES NO	Automatically generate authcodes
- SECR	0000-9999	Security password (NAUT)
- NMBR	1-20000	Number of authcodes to be generated automatically
- CLAS	(0)-115	Class code to be automatically assigned

AUT : Authcode entries data block

Prompt	Response	Comment
REQ	aaa	Request (aaa = CHG, END, NEW, OUT, or PRT)
TYPE	AUT	Type = AUT (Authcode entries)
CUST	0	Customer number associated with this function
SPWD	xxxx	Secure Data Password
CODE	xxxx	Authcode
SARC	NO YES	Scheduled Access Restriction (SAR) Code
- SERV	nnn...nnn	SAR Service functions for SARC
- SGRP	0-999	SGRP number
CLAS	(0)-115	Class code
SECR	0000-9999	Security password

SAR: Scheduled Access Restriction data block

Prompt	Response	Comment
REQ	aaa	Request (aaa = CHG, END, NEW, OUT, or PRT)
TYPE	SAR	Type = SAR (Scheduled Access Restriction)
CUST	0	Customer number associated with this function
SPWD	xxxx	Secure Data Password
SGRP	0-999	SAR Group number
SCDR	(NO) YES	Activate CDR for the SAR code feature
OFFP	1-8	Off-hour Period number
- STAR	hh mm	Start time
- STOP	hh mm	Stop time
- DAYS	d ... d	Respond with a new set of days to be used
- COS	a...a	Class of Service (a...a = (CTD), CUN, FR1, FR2, FRE, SRE, TLD, UNR, IPNA, or IRGA)
- TGAR	1-(0)-31	Trunk Group Access Restriction
- NCOS	(0)-99	Network Class of Service
ICR	(NO) YES	Incoming Calls are Restricted.
LOCK	(1)-8	Lock period

Alphabetical list of prompts

Prompt	Response	Comment
ACDR	(NO) YES	Activate CDR for authcodes. There is no default.
ALEN	1-4 1-7 1-14	Authcode Length (all authcodes are the same length). Room Authcode NAUT BAUT
AUTHCOD_ALARM	(OFF) ON	Disable Authcode Alarm Enable Authcode Alarm
AUTO	YES NO	Automatically generate authcodes. Prompted when Network Authorization Code (NAUT) package 63 is equipped and REQ = "NEW". ALEN must be a minimum of four digits.
CLAS	(0)-115	Class code value assigned to authcode. Cycle continues with CODE. Prompted when SARC = NO. When TYPE = "AUT", enter X to have authcode be an exempt code. When this data is printed, the month in which authcode was deactivated is output. Default is "0" when adding authcode entries.
	X <cr>	Exempt authcode End of input
CODE	xxxx ALL	Authcode (number of digits must equal the ALEN response). May be used to delete Authcodes if Network Authorization Code (NAUT) package 63 is equipped and codes were automatically generated.
COS	(CTD) CUN FR1 FR2 FRE SRE TLD UNR	Class of Service Conditionally Toll Denied Conditionally Unrestricted Fully Restricted class 1 Fully Restricted class 2 Fully Restricted Semi-Restricted Toll Denied Unrestricted
CUST	xx	Customer number associated with this function as defined in LD 15

Prompt	Response	Comment
DAYS	d...d	Respond with a new set of days to be used (a maximum of seven entries in range 1-7)
ICR	(NO) YES	Incoming Calls are Restricted.
LOCK	(1)-8	Lock period
NCOS	0-99	Network Class of Service (enter the new NCOS that will replace the NCOS of the station).
NMBR	1-50000	Number of authcodes to be generated automatically To generate up to 50,000 authcodes, the maximum entry at NMBR is 5000 each time it is prompted.
OFFP	1-8 <cr>	Off-hour Period number Go to ICR prompt.
RANR	0-511 X	RAN route number for "Authcode Last" prompt (NAUT) No RAN route
RAN2	0 - 511 X	Route number for Authcode - last Retry RAN Removes and deactivates Authcode-last Retry RAN
REQ	CHG END NEW OUT PRT	Request Change existing data block Exit Overlay program Create new data block Delete existing data block Print data block
RTRY	(NO) YES	Disable authcode - last Retry. Enable authcode - last Retry. Prompted with Direct Private Network Access (DPNA) package 250.
SARC	NO YES	Scheduled Access Restriction (SAR) Code is to be a Scheduled Access Restriction (SAR) authorization code.
SCDR	(NO) YES	Activate CDR for the SAR code feature.
SECR	0000-9999	Security password as entered during AUTO sequence Prompted when CODE = ALL. Cycle continues with CODE.

LD 88

Prompt	Response	Comment
SERV		SAR Service functions for SARC
	(END) ENA	Enable Denied Enable Allowed
	(LKD) LKA	Lock Denied Lock Allowed
	(DSD) DSA	Disable Denied Disable Allowed
	(UND) UNA	Unlock Denied Unlock Allowed
		Up to four entries can be made at once.
SGRP	0-999 ALL <cr>	Scheduled Access Restriction group (SGRP) number Authorization code is to be a customer SARC. End of SAR changes, return to REQ.
SPWD	xxxx	Secure Data Password (same password as defined for DISA on a per customer basis in LD 15). Prompt will not appear to user with a LAO password.
STAR	hh mm	Start time The current start time (hours and minutes) is printed individually after the prompt. Respond with the new start time.
	X	Remove value and return to OFFP.
STOP	hh mm	Stop time The current stop time (hours and minutes) is printed individually after the prompt. Respond with the new stop time.
	X	Remove value and return to OFFP.
TGAR	0-(1)-31	Trunk Group Access Restriction range
TYPE		Type of data block
	AUB	Authcode data block
	AUT	Authcode entries data block
	RAUB	Room Authcode data block (Hospitality Management)
	SAR	Scheduled Access Restriction data block

LD 90—Electronic Switched Network 3

Overlay program 90 allows data for network translation tables to be generated and administered.

Prompts and responses

Table of Contents

Section	Page
<i>Prompts and responses by data block :</i>	
HLOC: Home Location data block (NARS only)	page 760
HNPA: Home Number Plan area code data block	page 761
LOC: Location code data block (NARS only)	page 761
NPA: Number Plan area code data block	page 762
NSCL: Network Speed Call List data block	page 763
NXX : Central Office Code Translation data block	page 763
SPN: Special Number Translation data block	page 764

HLOC: Home Location data block (NARS only)

Prompt	Response	Comment
REQ	a...a	Request (a...a = CHG, END, LCHG, NEW, OUT, or PRT)
CUST	xx	Customer number associated with this function
FEAT	NET	Feature = NET
TRAN	aaa	Translator (aaa = AC1, AC2, or SUM)
TYPE	HLOC	Type = HLOC (Home Location code)
HLOC	x...x	Home Location code
- DMI	1-255	Digit Manipulation Index

HNPA: Home Number Plan area code data block

Prompt	Response	Comment
REQ	a...a	Request (a...a = CHG, END, LCHG, NEW, OUT, or PRT)
CUST	xx	Customer number associated with this function
FEAT	NET	Feature = NET
TRAN	aaa	Translator (aaa = AC1, AC2, or SUM)
TYPE	HNPA	Type = HNPA (Home Number plan area code transmission)
HNPA	xxx xxx yyy	Home Numbering Plan Area code. A leading zero is not allowed.
	1xxx 1xxx yyy	Home NPA (1+ dialing). Where xxx & yyy = 200 - 999.

LOC: Location code data block (NARS only)

Prompt	Response	Comment
REQ	a...a	Request (a...a = CHG, END, LCHG, NEW, OUT, or PRT)
CUST	xx	Customer number associated with this function
FEAT	NET	Feature = NET
TRAN	aaa	Translator (aaa = AC1, AC2, or SUM)
TYPE	LOC	Type = LOC (Location code)
LOC	x...x	Location code
- FLEN	(0)-24	Flexible Length
- RLI	xxx	Route List Index
- ITOH	(NO) YES	Inhibit Time Out Handler
- ITEI	xxx	Incoming Trunk group Exclusion Index
- LDN	xx...xx	Listed Directory Number
- DID	(NO) YES	Direct Inward Dial (DID)
- - MNXX	(NO) YES	Multiple NXX
- - SAVE	1-4	Saved digits
- - - OFFC	xxx	Office
- - RNGE	0-9999 0-9999	Range

NPA: Number Plan area code data block

Prompt	Response	Comment
REQ	a...a	Request (a...a = CHG, END, LCHG, NEW, OUT, or PRT)
CUST	xx	Customer number associated with this function
FEAT	NET	Feature = NET
TRAN	aaa	Translator (aaa = AC1, AC2, or SUM)
TYPE	NPA	Type = NPA (Number plan area code transmission)
NPA	xxx xxx yyy	Numbering Plan Area code translation
- RLI	xxx	Route List Index
- SDRR	a...a	Supplemental Digit Restriction or Recognition (a...a = ALLOW, ARRN, DDD, DENY, DID, ITED, LDDD, LDID, or STRK)
- - DENY	x...x	Number to be denied within the NPA
- - DMI	1-255	Digit Manipulation Index
- - LDID	x...x	Local DID number to be recognized
- - LDDD	x...x	Local DDD number to be recognized
- - DID	x...x	Remote DID number to be recognized
- - DDD	x...x	Remote DDD number to be recognized
- - ITED	x...x	Incoming Trunk group Exclusion Digits
- - ALLOW	x...x	Allowed codes
- ITEI	xxx	Incoming Trunk group Exclusion Index

NSCL: Network Speed Call List data block

Prompt	Response	Comment
REQ	a...a	Request (a...a = CHG, END, LCHG, NEW, OUT, or PRT)
CUST	xx	Customer number associated with this function
FEAT	NET	Feature = NET
TRAN	aaa	Translator (aaa = AC1, AC2, or SUM)
TYPE	NSCL	Type = NSCL (Network Speed Call List)
- ITEI	xxx	Incoming Trunk group Exclusion Index
NSCC	xxx	Network Speed Call access Code
- SSCL	0-253	System Speed Call List number

NXX : Central Office Code Translation data block

Prompt	Response	Comment
REQ	a...a	Request (a...a = CHG, END, LCHG, NEW, OUT, or PRT)
CUST	xx	Customer number associated with this function
FEAT	NET	Feature = NET
TRAN	aaa	Translator (aaa = AC1, AC2, or SUM)
TYPE	NXX	Type = NXX (Central Office Code Translation)
NXX	xxx	Numbering Plan Exchange (Central Office)
- RLI	xxx	Route List Index
- SDRR	a...a	Supplemental Digit Restriction or Recognition (a...a = ALOW, ARRN, DDD, DENY, DID, ITED, LDDD, LDID, or STRK)
- - DENY	x...x	Number to be denied within the NXX
- - DMI	1-255	Digit Manipulation Index
- - - LDID	x...x	Local DID number to be recognized
- LDDD	x...x	Local DDD number to be recognized
- - DID	x...x	Remote DID number to be recognized
- - DDD	x...x	Remote DDD number to be recognized
- - ITED	x...x	Incoming Trunk group Exclusion Digits
- - ALOW	x...x	Allowed codes
- ITEI	xxx	Incoming Trunk group Exclusion index

SPN: Special Number Translation data block

Prompt	Response	Comment
REQ	a...a	Request (a...a = CHG, END, LCHG, NEW, OUT, or PRT)
CUST	xx	Customer number associated with this function
FEAT	NET	Feature = NET
TRAN	aaa	Translator (aaa = AC1, AC2, or SUM)
TYPE	SPN	Type = SPN (Special Number Translation)
SPN	xxx	Special Number translation
- FLEN	(0)-24	Flexible Length
- - INPL	(NO) YES	International Dialing Plan
- ITOH	(NO) YES	Inhibit Time-out Handler
- RLI	xxx	Route List Index
- CLTP	a...a	Type of call that is defined by the special number (a...a = (NONE), LOCL, NATL, INTL, SSER, or SERH)
- SDRR	a...a	Supplemental Digit Restriction or Recognition (a...a = ALLOW, ARRN, DDD, DENY, DID, ITED, LDDD, LDID, or STRK)
- - DENY	x...x	Number to be Denied
- - DMI	1-255	Digit Manipulation Index
- - - LDID	x...x	Local DID number to be recognized
- - LDDD	x...x	Local DDD number to be recognized
- - DID	x...x	Remote DID number to be recognized
- - DDD	x...x	Remote DDD number to be recognized
- - ITED	x...x	Incoming Trunk group Exclusion Digits
- - ARRN	x...x	Alternate Routing Remote Number
- - STRK	x...x	Allowed codes for ADM/MDM
- - ALLOW	x...x	Allowed codes
- - - ARLI	0-255 0-999	Alternative Route List Index

Alphabetical list of prompts

Prompt	Response	Comment
ALLOW	x...x	<p>Allowed codes for ADM/MDM to be recognized within the NXX, NPA or SPN</p> <p>The maximum number of digits to be entered must be the lesser of 10 or:</p> <ul style="list-style-type: none"> • 7-m (8-m for 1 + dialing) for NXX • 10-m (11-m for 1 + dialing) for NPA • 19-m for SPN <p>Where: m = number of digits entered for NPA, NXX, or SPN.</p> <p>These numbers do not have to be leftwise unique. For non leftwise unique numbers, the longer number takes precedence over the shorter number. However, the exact same numbers (not leftwise unique and the same length) are still blocked.</p>
ARLI	0-255 0-999	<p>Alternative Route List Index</p> <p>Alternative Route List Index with Flexible Numbering Plan (FNP) package 160.</p> <p>The ARRAN prompt is repeated after the ARLI prompt until <cr> is entered (in response to ARRAN).</p>
ARRN	x...x	<p>Alternate Routing Remote Number to be recognized within the NXX, NPA or SPN.</p> <p>The maximum number of digits to be entered must be the lesser of 10 or:</p> <ul style="list-style-type: none"> • 7-m (8-m for 1 + dialing) for NXX • 10-m (11-m for 1 + dialing) for NPA • 19-m for SPN <p>Where: m = number of digits entered for NPA, NXX, or SPN.</p> <p>These numbers do not have to be leftwise unique. For non leftwise unique numbers, the longer number takes precedence over the shorter number. However, the exact same numbers (not leftwise unique and the same length) are still blocked.</p>
CUST	xx	Customer number associated with this function as defined in LD 15.

LD 90

Prompt	Response	Comment
DDD	x...x	<p>Remote DDD number to be recognized within the NPA, NXX or SPN.</p> <p>The maximum number of digits to be entered must be the lesser of 10 or:</p> <ul style="list-style-type: none">• 7-m (8-m for 1 + dialing) for NXX• 10-m (11-m for 1 + dialing) for NPA• 19-m for SPN <p>Where: m = number of digits entered for NPA, NXX, or SPN.</p> <p>These numbers do not have to be leftwise unique. For non leftwise unique numbers, the longer number takes precedence over the shorter number. However, the exact same numbers (not leftwise unique and the same length) are still blocked.</p>
	<cr>	Return to SDRR prompt.
DENY	x...x	<p>Number to be denied within the NPA,NXX,SPN, or SDR.</p> <p>The maximum number of digits to be entered must be the lesser of 10 or:</p> <ul style="list-style-type: none">• 7-m (8-m for 1 + dialing) for NXX• 10-m (11-m for 1 + dialing) for NPA• 19-m for SPN <p>Where: m = number of digits entered for NPA, NXX, or SPN.</p> <p>These numbers do not have to be leftwise unique. For non leftwise unique numbers, the longer number takes precedence over the shorter number. However, the exact same numbers (not leftwise unique and the same length) are still blocked.</p>
	<cr>	Return to SDRR prompt.
DID	(NO) YES	<p>Direct Inward Dial (DID)</p> <p>This location arranged for DID.</p>

Prompt	Response	Comment
DID	x...x	<p>Remote DID number to be recognized within the NPA,NXX or SPN.</p> <p>The maximum number of digits to be entered must be the lesser of 10 or:</p> <ul style="list-style-type: none"> • 7-m (8-m for 1 + dialing) for NXX • 10-m (11-m for 1 + dialing) for NPA • 19-m for SPN <p>Where: m = number of digits entered for NPA, NXX, or SPN.</p> <p>These numbers do not have to be leftwise unique. For non leftwise unique numbers, the longer number takes precedence over the shorter number. However, the exact same numbers (not leftwise unique and the same length) are still blocked.</p> <p>Precede with X to remove.</p>
	<cr>	Return to SDRR prompt.
DMI	1-255 1-999	<p>Digit Manipulation Index</p> <p>Digit Manipulation Index with Flexible Numbering Plan (FNP) package 160</p> <p>DMI is only prompted when the Directory Number Expansion (DNXP) package 150 is equipped and SDRR = LDID.</p>
FEAT	NET	<p>Feature</p> <p>Network translation tables</p>
FLEN	(0)-24	Flexible Length (the number of digits the system expects to receive before accessing a trunk and outpulsing these digits)
HLOC	x...x	Home Location code (3 digits) or extended code (3-7 digits)
HNPA	xxx xxx yyy 1xxx 1xxx yyy	<p>Home Numbering Plan Area code (a leading zero is not allowed)</p> <p>Home NPA (1+ dialing) (where xxx & yyy = 200 - 999)</p>
INPL	(NO) YES	<p>International Dialing Plan for special number</p> <p>Default to North American operation when FLEN = 0. Prompted with Flexible Numbering Plan (FNP) package 160, FLEN = 0 and SPN = 0, 00, 01, 011, 411, 611, 911, 800, 1800.</p>

LD 90

Prompt	Response	Comment
ITED	x...x	<p>Incoming Trunk group Exclusion Digits (number to be restricted within the NPA for the excluded trunk group)</p> <p>The maximum number of digits to be entered must be the lesser of 10 or:</p> <ul style="list-style-type: none">• 7-m (8-m for 1 + dialing) for NXX• 10-m (11-m for 1 + dialing) for NPA• 19-m for SPN <p>Where: m = number of digits entered for NPA, NXX, or SPN.</p> <p>These numbers do not have to be leftwise unique. For non leftwise unique numbers, the longer number takes precedence over the shorter number. However, the exact same numbers (not leftwise unique and the same length) are still blocked.</p>
	<cr>	Return to SDRR prompt
ITEI	(0)-127 (0)-255	<p>BARS Incoming Trunk group Exclusion Index</p> <p>NARS Incoming Trunk group Exclusion Index</p>
ITOH	(NO) YES	Inhibit Time-Out Handler
LDDD	x...x	<p>Local DDD number to be recognized within the NPA, NXX, or SPN</p> <p>The maximum number of digits to be entered must be the lesser of 10 or:</p> <ul style="list-style-type: none">• 7-m (8-m for 1 + dialing) for NXX• 10-m (11-m for 1 + dialing) for NPA• 19-m for SPN <p>Where: m = number of digits entered for NPA, NXX, or SPN.</p> <p>These numbers do not have to be leftwise unique. For non leftwise unique numbers, the longer number takes precedence over the shorter number. However, the exact same numbers (not leftwise unique and the same length) are still blocked.</p>
	<cr>	Return to SDRR prompt

Prompt	Response	Comment
LDID	x...x	<p>Local DID number to be recognized within the NXX, NPA or SPN</p> <p>The maximum number of digits to be entered must be the lesser of 10 or:</p> <ul style="list-style-type: none"> • 7-m (8-m for 1 + dialing) for NXX • 10-m (11-m for 1 + dialing) for NPA • 19-m for SPN <p>Where: m = number of digits entered for NPA, NXX, or SPN.</p> <p>These numbers do not have to be leftwise unique. For non leftwise unique numbers, the longer number takes precedence over the shorter number. However, the exact same numbers (not leftwise unique and the same length) are still blocked.</p>
	<cr>	Return to SDRR prompt
LDN	xx...xx	<p>Listed Directory Number</p> <p>Up to 10 digit listed directory number, including NPA.</p>
LOC	x...x	<p>Location code (3 digits) or extended LOC (3-7 digits)</p> <p>Enter the location code (xxx) and the extended code (xxxx) separated by a space.</p>
MNXX	(NO) YES	<p>Multiple NXX codes and ranges</p> <p>This prompt should not be used with NARS DPNSS1.</p>
NPA		<p>Numbering Plan Area code translation, extended NPA code translation (a leading zero is not allowed)</p>
	xxx	Area code translation
	xxx yyy	<p>Extended NPA code translation</p> <p>3-10 digits or 4-11 digits with 1+ dialing. Enter the NPA code (xxx) and the extended code (yyy) separated by a space.</p>
	1xxx	Area code translation (1+ dialing)
	1xxx yyy	<p>Extended NPA code translation (1+ dialing). Where: xxx & yyy = 200 - 999</p>
NSCC	xxx	One to three-digit Network Speed Call access Code
NXX		<p>Numbering Plan Exchange (Central Office) (A leading zero is not allowed).</p>
	xxx	Office code translation

LD 90

Prompt	Response	Comment
	1xxx xxx yyy	Office code translation (1+ dialing) Extended NXX code translation 3-7 digits or 4-8 digits with 1+ dialing. Enter the NXX code (xxx) and the extended code (yyy) separated by a space.
	<cr>	Return to REQ.
OFFC	xxx	Office (NXX of the DID number) Prompted if MNXX = YES.
REQ	CHG END LCHG NEW OUT PRT	Request. Change existing data block. Exit Overlay program. Print date and time that each data group was last changed (data groups include: LOC, HLOC, NPA, HNPA, NXX, SPN and NSCL) Create new data block. Delete existing data block. Print data block.
RLI	0-127 0-255 0-999	BARS Route List Index NARS Route List Index Flexible Numbering Plan (FNP) Route List Index Must be in the range specified by prompt MXRL in LD 86, (i.e., $0 \leq \text{RLI} < \text{MXRL}$).
RNGE	0-9999 0-9999	Range (upper and lower limit for DID number range) Inputs must be the same number of digits as the number of trailing digits to be saved.
SAVE	1-4	Saved digits (number of trailing digits to be saved in dialed extension number - DID only) Must be 4 if MNXX = YES.

Prompt	Response	Comment
SDRR	ALLOW ARRN DDD DENY DID ITED LDDD LDID STRK <cr>	Supplemental Digit Restriction or Recognition Allowed codes Alternate Routing Remote Number Recognized remote Direct Distance Dial codes Restricted codes Recognized remote Direct Inward Dial codes Incoming Trunk group Exclusion Digits Recognized Local Direct Distance Dial codes Recognized Local Direct Inward Dial codes For ADM/MDM trunk groups Return to SPN
SPN	x...x	Special Number. Enter a carriage return or <cr> to return to the REQ prompt. Special Number translation Enter the SPN digits in groups of 3 or 4 digits, separated by a space (e.g., xxxx xxx xxxx). The SPN can be up to 19 digits long. The maximum length does not depend on whether or not the first digit of the SPN is a "1". The maximum number of groups allowed is 5.
SSCL	0-4095	System Speed Call List number
STRK	x...x	Allowed codes for ADM/MDM to be recognized within the NXX, NPA or SPN The maximum number of digits to be entered must be the lesser of 10 or: <ul style="list-style-type: none"> • 7-m (8-m for 1 + dialing) for NXX • 10-m (11-m for 1 + dialing) for NPA • 19-m for SPN Where: m = number of digits entered for NPA, NXX, or SPN. These numbers do not have to be leftwise unique. For non leftwise unique numbers, the longer number takes precedence over the shorter number. However, the exact same numbers (not leftwise unique and the same length) are still blocked.
TRAN	AC1 AC2 SUM	Translator Access Code 1 (NARS/BARS) Access Code 2 (NARS) Summary of Network Translations (allowed when REQ = PRT)

LD 90

Prompt	Response	Comment
TYPE		Type of data block
	ALL	If REQ = PRT, all of the following types will be printed
	HLOC	ESN Home Location Code translation data block (NARS only)
	HNPA	Home NPA translation code
	LOC	ESN Location Code translation data block (NARS only)
	NPA	Numbering Plan Area code translation data block
	NSCL	Network Speed Call List data block
	NXX	Central Office Code Translation data block
	SPN	Special code translation data block

LD 95—Call Party Name Display

Overlay program 95 is used to define, change, remove or print information for the Call Party Name Display (CPND) data block and name assignment, on a per customer basis.

Prompts and responses

Table of Contents

Section	Page
<i>Prompts and responses by task :</i>	
Create or Change Calling Party Name Display (CPND)	page 774
Add Calling Party Name Display name	page 775
Change Calling Party Name Display name	page 775
Remove Calling Party Name Display name	page 776
Print Calling Party Name Display data and names	page 776

Create or Change Calling Party Name Display (CPND)

Prompt	Response	Comment
REQ	aaa	Req = NEW or CHG
TYPE	CPND	Type = CPND (Calling Party Name Display)
CUST	xx	Customer number associated with this function
CNFG	aaaa	Configuration (aaaa = (ALON), REMO, or LOCL)
MXLN	5-(17)-27	Maximum Length
STAL	(NO) YES	Static Allocation of name storage
- DFLN	5-(13)-27	Default Length
DES	(NO) YES	Designator for Multiple Appearance DNs allowed
RESN	(NO) YES	Display of Reason for redirecting calls allowed
- CFWD	(F) aaaa	Mnemonic for Call Forward All Calls display
- CFNA	(N) aaaa	Mnemonic for Call Forward No Answer display
- HUNT	(B) aaaa	Mnemonic for Busy display
- NITC	(NI) aaaa	Mnemonic for Call Forward Non Intercom Call

- PKUP	(P) aaaa	Mnemonic for Call Pickup display
- XFER	(T) aaaa	Mnemonic for Call Transfer display
- AAA	(A) aaaa	Mnemonic for Attendant Alternative Answering display

Add Calling Party Name Display name

Prompt	Response	Comment
REQ	NEW	Req = NEW
TYPE	NAME	Type = NAME (CPND Name)
CUST	xx	Customer number associated with this function
CPND_LANG	aaa	CPND Language (aaa = (ROM) or KAT)
DIG	0-253 0-99	Dial Intercom Group
- LANG	aaa	Language (aaa = (ROM), KAT, or ALL)
- NAME	a...a	CPND Name in ASCII characters
- XPLN	xx	Expected Length
DISPLAY_FMT	aaaa	Display Format (aaaa = (LAST) or FIRST)
DN	x...x	Directory Number
- LANG	aaa	Language (aaa = (ROM), KAT, or ALL)
- NAME	a...a	CPND Name in ASCII characters
- XPLN	xx	Expected Length
DCNO	0-254	Digit Conversion table Number
- IDC	0-254	Incoming DID Digit Conversion number
- NAME	a...a	CPND Name in ASCII characters

Change Calling Party Name Display name

Prompt	Response	Comment
REQ	CHG	Req = CHG
TYPE	NAME	Type = NAME (CPND Name)
CUST	xx	Customer number associated with this function
CPND_LANG	aaa	CPND Language (aaa = (ROM) or KAT)
DIG	0-253 0-99	Dial Intercom Group
- NAME	a...a	CPND Name using ASCII characters
- DN	x...x	Directory Number
- NAME	a...a	CPND Name in ASCII characters
DCNO	0-254	Digit Conversion table Number
- IDC	0-254	Incoming DID Digit Conversion number
- NAME	a...a	CPND Name in ASCII characters

Remove Calling Party Name Display name

Prompt	Response	Comment
REQ	OUT	Req = OUT
TYPE	NAME	Type = NAME (CPND Name)
CUST	xx	Customer number associated with this function
CPND_LANG	aaa	CPND Language (aaa = (ROM) or KAT)
DIG	0-253 0-99	Dial Intercom Group
DN	x...x	Remove Directory Number x...x
	x...x y...y	Remove range of DN-defined names
	ALL	Remove all DN-defined names
DCNO	0-254	Digit Conversion table Number
- IDC	0-254	Incoming DID Digit Conversion number
ARE YOU SURE?	(YES) NO	(Confirm) or remove operation

Print Calling Party Name Display data and names

Prompt	Response	Comment
REQ	PRT	Req = PRT
TYPE	NAME	Type = NAME (CPND Name)
CUST	xx	Customer number associated with this function
CPND_LANG	aaa	CPND Language (aaa = (ROM) or KAT)
LANG	aaa	Language choice for name display (aaa = ROM or KAT)
PAGE	(NO) YES	Page headers and numbers printed (or not) if the Multiple DN/DIG is specified.
DIG	0-2045 0-99	Dial Intercom Group
SHRT	(NO) YES	Short form
- DN	x...x	Print single Directory Number x...x
	x...x y...y	Print range of Directory Numbers
	x/xx/xxx	Print all DNs starting with x, xx, or xxx
	ALL	Print all DNs
SHRT	(NO) YES	Short form
DCNO	0-254	Digit Conversion table Number
- IDC	nnn	Incoming DID Digit Conversion number
	ALL	All names defined are printed
SHRT	(NO) YES	Short form

Alphabetical list of prompts

Prompt	Response	Comment
AAA	aaa	Attendant Alternative Answering display mnemonic Default = A
ARE YOU SURE?	(YES) NO	(Confirm) or remove operation. The default response is YES.
CFNA	xxxx	Call Forward No Answer display mnemonic Default = N
CFWD	xxxx	Call Forward All Calls display mnemonic Default = F
CNFG	(ALON)	Configuration Standalone CPND configuration
CPND_LANG	(ROM) KAT	CPND language. Prompted when FTR = CPND. Roman CPND language Katakana CPND language
CUST	xx	Customer number associated with this function as defined in LD 15
DCNO	0-254	Digit Conversion table Number
DES	(NO) YES	Designator for Multiple Appearance DN's allowed Prompted when ODAS is equipped.
DFLN	5-(13)-27	Default character string Length Default to 13 or MXLN, whichever is less. Prompted when STAL = YES
DIG	0-2045 0-99 <cr>	Existing Dial Intercom Group number followed by member number To prompt DN If CPND Name already exists, an error message is returned. Prompted when DIG is equipped.
DISPLAY_FMT	(LAST) FIRST	Display format for CPND name Last name, First name (Doe, John) First name, Last name (John Doe)

Prompt	Response	Comment
DN	xxxx	Directory Number (Existing eligible DN or Partial DN). The DN can be up to 4 digits, up to 7 digits with Directory Number Expansion (DNXP) package 150. Valid DN types are Single or Multiple line prime DN, trunk DN, attendant DN or ACD DN. If Partial DN, all possible DNs are printed.
	x...x y...y	Range of DN-defined names are deleted/printed. This entry is valid when REQ = OUT/PRT.
	ALL	All names defined are deleted/printed. ALL is a valid entry when REQ = OUT/PRT.
	x/xx/xxx	DNs starting with x, xx, or xxx are printed. This entry is valid when REQ = PRT.
	<cr>	To re-prompt DCNO If the CPND name is already defined, an error message is returned.
HUNT	xxxx	Busy display mnemonic Default = B
IDC	0-254	Incoming DID Digit Conversion number
	ALL	Existing complete or partial IDC number All Names defined
LANG		Language choice for name for CPND screen and set display. Allowed only if REQ = OUT.
	(ROM)	English display (Roman characters)
	KAT	Non-English display (Katakana characters)
	ALL	Remove ALL names from CPND data block for the DN or DIG selected.
	<cr>	Roman (English) display
MXLN	5-(17)-27	Maximum allowable CPND character string Length Once an MXLN is entered, it cannot be changed to a lower value via the CHG prompt.

LD 95

Page 780 of 848 Alphabetical list of prompts

Prompt	Response	Comment
NAME	a...a <cr>	CPND Name using ASCII characters If STAL = YES, then Name size < XPLN If STAL = NO, then Name size = number of characters entered. DIG is reprompted. to DN prompt
NITC	(NI) aaaa	Non intercom call NITC indicates that an intercom call terminated as a normal call.
PAGE	(NO) YES	Page headers and numbers not printed if the Multiple DN/DIG is specified. Page headers and numbers printed if the Multiple DN/DIG is specified. Page headers (date and page number) are not printed if a single DN/DIG is specified.
PKUP	xxxx	Call Pickup display mnemonic. Default = P.
REQ	CHG END NEW OUT PRT	Request. Change existing data block Exit Overlay program Create CPND data blocks and/or name strings Remove existing name or data block Print an existing Name or data block from the data base
RESN	(NO) YES	Display of Reason for redirecting calls allowed
SHRT	(NO) YES	Prints one DN or IDC per single line. (long form) Prints several DNs or IDCs on a single line. (one-line form) Prompted when DN = ALL, Range or Partial DN to be specified.
STAL	(NO) YES	Static Allocation of Name storage In a Hotel/Motel environment with Background Terminal facilities, STAL must be YES. STAL = YES is recommended whenever CPND Names change frequently, for efficient use of available memory (i.e., when a guest checks in).
TYPE	CPND NAME	Type of data block CPND data block CPND Name data block Allowed only if CPND data block is already defined.

Prompt	Response	Comment
XFER	xxxx	Call Transfer display mnemonic Mnemonic for call transfer display in Network Call Redirection (NCRD). One to four characters are accepted. Default = T. Prompted if ISDN = YES in LD 15
XPLN	xx	Expected Length Range must be between the Input Name length and the MXLN, or it default to DFLN. This value should be set to a sufficient length to allow for current and future names to be entered. When REQ = NEW, the XPLN prompt defines the maximum name length for that particular entry. The XPLN for a DN cannot be changed without deleting that name entry.
	<cr>	This sets the XPLN to the input length, or DFLN whichever is greater. Re-prompts DIG. Prompted when STAL = YES

LD 96—D-channel Diagnostic

LD 96 is used to test and maintain D-channel links.

D-channels reside on T1 Multi-purpose Digital Interface (TMDI) cards. A set of LD 96 commands are provided to support TMDI cards. The TMDI commands listed in LD 48 can also be used in LD 96.

Monitoring

D-channel message monitoring is used to analyze the Layer 3 protocol messages traveling between the near and far-end D-channels.

Commands in LD 96 allow selective message monitoring based on

- the D-channel
- the B- or ISL channel
- the message types for a specific feature
- any specific message

The following sections describe the various command formats.

Note 1: During high traffic some of the monitored messages may be lost.

Note 2: For the D-channel monitor messages to be displayed, the system terminal must have USER defined as MTC in LD 17.

D-channels

All message types, features and channels associated with a particular D-channel can be monitored. Monitoring of multiple D-channels for both incoming and outgoing messages is allowed.

The LD 96 commands to enable or disable monitoring of all incoming or outgoing messages on a D-channel are:

ENL MSGI x—enable monitoring of incoming messages

ENL MSGO x—enable monitoring of outgoing messages

DIS MSGI x—disable monitoring of incoming messages

DIS MSGO x—disable monitoring of outgoing messages

Where x is the DCI device number. For example, to enable monitoring of incoming messages on D-channel 5, enter:

ENL MSGI 5

The output includes all messages, features and channels for D-channel 5.

B-channels and ISL channels

You can monitor up to 5 ISL or B-channels, for each direction. If there is no specific channel selected, all channels are monitored. The commands follow:

For B-channels on all systems:

```
ENL MSGI x CH loop channel
ENL MSGO x CH loop channel
DIS MSGI x CH loop channel
DIS MSGO x CH loop channel
```

Where:

```
ENL = enable monitoring
DIS = disable monitoring
MSGI = incoming messages
MSGO = outgoing messages
```

ISDN features

You can select specific ISDN applications, such as Network Ring Again, for message monitoring. Only one or all ISDN applications can be monitored per D-channel at one time. The LD 96 commands are listed below, where x is the D-channel device number.

ENL MSGI x FEAT feature

ENL MSGO x FEAT feature

DIS MSGI x FEAT feature

DIS MSGO x FEAT feature

Where “feature” can be:

NCT = Network Call Trace

TAT = Trunk Anti-Tromboning

Message types

You can select specific types of messages to be monitored on a D-channel. The LD 96 commands are listed below, where **x** is the D-channel device number.

```
ENL MSGI x MSG msg1 msg2 msg3
ENL MSGO x MSG msg1 msg2 msg3
DIS MSGI x MSG msg1 msg2 msg3
DIS MSGO x MSG msg1 msg2 msg3
```

Up to three message types (msg1, msg2, msg3) can be entered per command. The default is “ALL”, which is all message types except SVC and SVCA. The message types are:

- 1** ALER = alerting
- 2** ALL = all primitives and all messages except SVC and SVCA
- 3** CAPR = call proceeding
- 4** CON = connect
- 5** CONA = connect ack
- 6** DISC = disconnect
- 7** FAC = facility
- 8** FACA = facility ack
- 9** FACR = facility reject
- 10** INFO = information
- 11** NOTF = notify
- 12** PRIM = all primitives (such as release indication)
- 13** PROC = call proceeding
- 14** PROG = progress
- 15** RLS = release
- 16** RLSC = release complete
- 17** RST = restart
- 18** RSTA = restart ack
- 19** STAT = status
- 20** STEN = status enquiry
- 21** STP = setup
- 22** STPA = setup ack
- 23** SVC = service
- 24** SVCA = service ack
- 25** UI = user information

Setting output format levels

There are three levels (0-2) of message decoding. The level determines the format of the data output to the system terminal. To set the output level enter the following.

```
SET MSGI x MON (0)-2
SET MSGO x MON (0)-2
```

Level 0 outputs the message as shown below.

DCH x y MSG msgtype REF xxxxxxxx CH zzzz TOD hh:mm:ss <more data>

Where:

x = D-channel number
y = "I" for incoming messages, "O" for outgoing messages
xxxxxxx = the call reference number
zzzz = the loop and channel number (or TN for ISL channels)

<more data> = additional lines of information, such as:

- 1 CALLED # = called number
- 2 CALLING # = calling number of originator
- 3 CAUSE = reason for action taken (e.g, unassigned number)
- 4 CONNECT # = connected number
- 5 FEAT = feature (such as Network Ring Again)
- 6 NUM PLAN = Numbering plan used (such as private)
- 7 PROGRESS = call progress description
- 8 REDIR REASON = reason the call was re-directed
- 9 REDN # = call redirection number
- 10 STATE = call state
- 11 STATUS = channel status
- 12 TYPE = type of channel

Level 1 outputs the raw data.

The format is:

DCH x y MSG msgtype REF xxxxxxxx TN zzzzzz CH# x CK x
<more data in hexadecimal>

Level 2 output identifies the individual Information Elements (IE) in the messages and their hexadecimal values. The possible IEs are:

- 1 BCAP = bearer capability
- 2 CAST = call state
- 3 CHGA = charge advice
- 4 CHID = channel ID
- 5 CHST = change status
- 6 CLED = called number
- 7 CLES = called party subaddress
- 8 CLNG = calling number
- 9 CLNS = calling party subaddress
- 10 CNS5 = codeset 5 connected number subaddress
- 11 CON# = connect number
- 12 CON5 = codeset 5 connected number
- 13 CSE = cause
- 14 DES6 = codeset 6 Destination IE
- 15 DISP = display
- 16 FAC = facility IE for codeset 0
- 17 FAC6 = codeset 6 facility IE
- 18 FIND = feature Indication
- 19 HLYR = higher layer compatibility
- 20 INFO = information request
- 21 KYPD = keypad
- 22 LLYR = low layer compatibility
- 23 LS5 = locking Shift to codeset 5
- 24 LS6 = locking shift to codeset 6
- 25 LS7 = locking Shift to codeset 7
- 26 NLS5 = codeset 5 non-locking shift
- 27 NLS6 = codeset 6 non-locking shift
- 28 NLSO = non-locking shift to codeset 0

LD 96

- 29 NOTI = notify indicator
- 30 NSF = network specific facility
- 31 ORG# = originating called number
- 32 ORG6 = codeset 6 Originating IE
- 33 PROG = progress indicator
- 34 RDG6 = codeset 6 redirecting number
- 35 REDG = redirecting number
- 36 REDN = redirection number
- 37 RETR = codeset 6 reason for return
- 38 RSTI = restart indicator
- 39 SHFT = shift
- 40 SIGN = signal
- 41 TACG = codeset 6 TTC advice charge
- 42 TNS = transit network selection
- 43 UNKN = unknown
- 44 UUI = user-user information

Deactivate monitor from a maintenance telephone

Once the system has been tied up or flooded with the monitored messages, it is very difficult, if not impossible, to use LD 96 to disable the monitors. In this case, a maintenance telephone with MTA Class of Service can be used to deactivate the monitor.

To activate or deactivate the monitor from a maintenance telephone, simply dial: SPRE 9913 x 01

Where:

SPRE = special function access code (defined in LD 15)

9913 = feature code to activate or deactivate the monitor

x = 0 to deactivate, 1 to activate

01 = DCH monitor ID

Note 1: Dial tone is provided if successful.

Note 2: Use “RST MON” to reactivate the monitor from LD 96.

Note 3: Deactivating the monitor by the maintenance telephone does not disable the monitor, but simply halts the output. If the monitor is deactivated and not disabled using the DIS MSGI and DIS MSGO commands, then the monitor becomes re-activated after a datadump and sysload.

Get monitor status

To determine the current status of the D-channel monitor, enter the following command, where x is the D-channel (DCHI or TMDI) port number.

STAT MON x

Output format:

***DCH MSGI x LEVEL y ACTV (where, y = format level)

MSG - msg1 msg2. . .

FEAT - feat

CH - loop channel (or l s c u for ISL)

***DCH MSGO x LEVEL y ACTV

MSG - msg1 msg2. . .

FEAT - feat

CH - loop channel (or l s c u for ISL)

If the monitor had been deactivated by the maintenance telephone, INACTV is output instead of ACTV.

T1 Multi-purpose Digital Interface (TMDI)

The TMDI provides 2 ports for ISDN Primary Rate D-channel (DCH) and 1.5 Mb/s Digital Trunk Interface (DTI).

The TMDI commands are listed below, x is the TMDI card number (defined by prompt DLOP in LD 17).

DIS TMDI x (ALL)—Disable TMDI card

ENL TMDI x (FDL, ALL)—Enable TMDI card

RST TMDI x—Reset

STAT TMDI (x) (FULL)—Get TMDI status

SLFT TMDI x—Execute a self-test on x

These commands are also provided in Input/Output Diagnostic (LD 37) and Link Diagnostic (LD 48) and LD 42.

D-channel commands

The following commands are used to enable, disable, test and get the status of a D-channel. Refer to the LD 96 introduction for details on the use of these commands.

DIS AUTO x	Disable automatic recovery for DCH x
DIS DCH x	Disable DCH x
DIS MSGI x (options)	Disable the monitoring of incoming messages on D-channel x
DIS MSGI x FEAT y	Disable incoming monitoring for feature y messages on D Channel x. (See page 784 for feature choices)
DIS MSGO x (options)	Disable the monitoring of outgoing messages on D-channel x
DIS MSGO x FEAT y	Disable outgoing monitoring for feature y messages on D Channel x. (See page 784 for feature choices)
DIS SERV x	Disable service messages on D-channel x
DLIF DCH x	Force download of D channel x (For PRI UIPE application)
ENL AUTO x	Enable automatic recovery for DCH x
ENL DCH x (FDL)	Enable DCH x and attempt to establish the link, and force download to TMDI
ENL MSGI x (options)	Enable the monitoring of incoming messages on D-channel x
ENL MSGI x FEAT y	Enable incoming monitoring for feature y messages on D Channel x.
ENL MSGO x (options)	Enable the monitoring of outgoing messages on D-channel x
ENL MSGO x FEAT y	Enable outgoing monitoring for feature y messages on D Channel x.
ENL SERV x	Enable service messages on D-channel x
EST DCH x	Establish multiple frame operation on D-channel x
FDIS NCAL <DCH#> <conn_ID>	Force disconnect the specified call-independent connection
PLOG DCH x	Print protocol error log on DCH x
RLS DCH x	Release D-channel x
RST DCH x	Reset D-channel x, inhibit signaling
RST MON	Reset or reactivate monitoring on D-channels with enabled monitors
SDCH DCH x	Switch to the standby D-channel x
SET MSGI x MON (0)-2	Set monitor output format level for incoming messages on D-channel x

SET MSGO x MON (0)-2	Set monitor output format level for outgoing messages on D-channel x
STAT DCH (x)	Get status of one or all D-channels
STAT NCAL <DCH#>	List all current call-independent connections on a given PRI D-channel.
STAT NCAL <DCH#> <conn_ID>	List information pertaining to a specific call-independent connection
STAT MON (x)	Display the incoming and outgoing monitoring status of one or all D-channels.
STAT SERV (x)	Get the enable/disable status of services messages for one or all D-channels

T1 Multi-purpose Digital Interface (TMDI) commands

The TMDI commands are listed below, **x** is the TMDI device number (defined by prompt DLOP in LD 17). These commands are also provided in Input/Output Diagnostic (LD 37) and Link Diagnostic (LD 48) and LD 42.

DIS TMDI x (ALL)	Disable TMDI card x
DIS TMDI x u	Disable TMDI card x unit u
ENL TMDI x (ALL, FDL)	Enable TMDI card x
ENL TMDI x u	Enable TMDI card x unit u
RST TMDI x	Reset TMDI x
SLFT TMDI x	Invoke self-test
STAT TMDI (x [FULL])	Get TMDI status

T1 Multipurpose Digital Interface commands

The following commands are only available for D-channels on an TMDI port.

DIS LLB x	Disable local loop back mode on TMDI DCH x
DIS RLB x	Disable remote loop back mode on TMDI DCH x
DIS TEST x	Disable TEST mode on TMDI DCH x
DLIF DCH xx FDL	Force download a PRI interface table.
ENL LLB x	Enable local loop back mode on TMDI DCH x
ENL RLB x	Enable remote loop back mode on TMDI DCH x
ENL TEST x	Enable TEST mode on TMDI DCH x
MAP DCH x	Get physical address and switch settings for D-channels
PCON DCH x	Print configuration parameters on TMDI DCH x
PMES DCH x	Print incoming layer 3 messages on TMDI DCH x
PTRF DCH x	Print traffic report on TMDI DCH TMDI
PTRF DCH x	Print traffic report on TMDI DCH x
TEST LLB x	Start local loop back test on TMDI DCH x
TEST RLB x	Start remote loop back test on TMDI DCH x

Alphabetical list of commands

Command	Description
DIS AUTO x	Disable automatic recovery for DCH x
DIS DCH x	<p>Disable DCH x.</p> <p>This changes the status of the DCH to DSBL and the status of the D-channel to DCH RST (reset).</p>
DIS LLB x	Disable local loop back mode on TMDI DCH x. See “ENL TEST” command for details.
DIS MSGI x	Disable the monitoring of all incoming messages from D-channel x.
DIS MSGI x (options)	<p>Disable the monitoring of all incoming messages from D-channel x.</p> <p>The available options are:</p> <ol style="list-style-type: none"> 1. CH loop channel: disable incoming messages on B-channel loop channel 2. CH l s c u: disable incoming messages on ISL-channel loop shelf card unit 3. FEAT feature: disable incoming messages for a PRI feature 4. MSG msg1 msg2 msg3: disable incoming message types <p>Refer to the LD 96 introduction for details.</p>
DIS MSGI x FEAT y	<p>Disable incoming monitoring for messages on D Channel x.</p>
DIS MSGO x	Disable the monitoring of outgoing messages from D-channel x.
DIS MSGO x (options)	Disable the monitoring of outgoing messages from D-channel x. Refer to DIS MSGI x (options) for the list of options.
DIS MSGO x FEAT y	<p>Disable outgoing monitoring for messages on D Channel x.</p>

DIS RLB x	Disable remote loop back mode on TMDI DCH x. See “ENL TEST” command for details.
DIS SERV x	Disable service messages on D-channel x. See “ENL SERV” for details. The D-channel must be disabled before disabling service messages.
DIS TEST x	Disable TEST mode on TMDI DCH x. See “ENL TEST” command for details. When the test mode state is disabled, the DCH link will go back to release state and the DCH background audit will then try to establish the link.
DIS TMDI x u	Disable TMDI card x unit u
DLIF DCH x	Force download of D channel x (For PRI UIPE application). Note that : <ol style="list-style-type: none"> 1. D channel specified must use the UIPE application 2. D channel must be disabled 3. D channels configured on the same TMDI card using the same interface must be disabled
DLIF DCH xx FDL	Force download a PRI interface table. To download the ISDN interface cable: <ol style="list-style-type: none"> 1. the D channel must be disabled 2. the UIPE application must be active 3. other D channels on the same TMDI card must be disabled
DWNL DCHI x (t)	Down load layer 3 message configuration table t and LAPD parameters from DCHI x. If table t is not specified, all table information is shown. This command is intended as a debugging tool for system designers.
ENL AUTO x	Enable automatic recovery for DCH x. Automatic recovery is initially enabled.
ENL DCH x (FDL)	

Enable DCH x and attempt to establish the link, and force download to TMDI. A self-test on the DCH runs automatically. If successful, then:

DCHI status: OPER

DCH status: EST

If this is not successful, then:

DCHI status: OPER

DCH status: RLS

FDL forces D-channel loadware to the TMDI card. This is optional.

ENL LLB x Enable local loop back mode on TMDI DCH x. See “ENL TEST” command for details.

ENL MSGI x Enable the monitoring of all incoming messages from D-channel x.

ENL MSGI x (options) Enable the monitoring of all incoming messages from D-channel x. Refer to DIS MSGI x (options) for the list of options.

ENL MSGI x FEAT y Enable incoming monitoring for messages on D Channel x.

ENL MSGO x Enable the monitoring of all outgoing messages for D-channel x.

ENL MSGO x (options) Enable the monitoring of all outgoing messages for D-channel x. Refer to DIS MSGI x (options) for the list of options.

ENL MSGO x FEAT y Enable outgoing monitoring for messages on D Channel x.

ENL RLB x Enable remote loop back mode on TMDI DCH x. See “ENL TEST” command for details.

ENL SERV x Enable service messages on D-channel x.

“Service” and “Service Acknowledge” messages are supported on individual PRA B channels, ISL channels and D-channels. They are used to coordinate channel status between the near and far end. A channel status can be in service, maintenance or out-of-service.

The primary and backup D-channel must be disabled before enabling service messages.

Make sure both ends support service messages before using this command. For Meridian 1/Meridian SL-1 to Meridian 1 / Meridian SL-1, both systems must have X11 Release 15 or higher or X27.

By default, SERV is disabled when the interface type is Meridian 1/Meridian SL-1 (LD 17 IFC = SL1).

When enabled, service messages are supported on individual PRA B-channels, ISL channels and D-channels. When disabled, service messages are provided automatically on D-channels with Backup D-channel configured.

For Meridian 1/Meridian SL-1 to DMS, or Meridian 1/Meridian SL-1 to AT&T only service messages on individual PRA B-channels and ISL channels are supported.

By default, SERV is disabled when the interface type is DMS (LD 17), and enabled when the interface type is AT&T (LD 17 IFC = ESS4/ESS5).

ENL TEST x Enable TEST mode on TMDI DCH x.

The DCH is put into TEST mode to perform the local loop back (LLB) or remote loop back (RLB) test. The DCH link can only be put in test mode if it is in the release or established state. If the link is in establish state, the DCH link is first released, and then put in test mode.

The local loop back test first tests the expedited interface, then the ring interface. The test consists of sending a data packet through each interface, which in turn is sent back by Layer 2. This data packet is then validated to ensure that the contents of the data packet are the same that were originally sent.

Example:

```
ENL TEST x enter TEST mode
ENL LLB x enter local loop back mode
TEST LLB x perform test (results are PASS or FAIL)
DIS LLB x exit local loop back mode
DIS TEST x exit TEST mode and restore link
```

The remote loopback test is used to verify the integrity of the physical link. This following test is only supported if both the D channels are on the TMDI card. To run the test the far-end must be in the remote loopback mode (ENL RLB x). The DCH running the test (near-end) must be in TEST mode.

Example:

Far-end:

```
ENL TEST x — enter TEST mode
ENL RLB x — enter remote loopback mode
DIS RLB x — exit remote loopback mode (after test)
DIS TEST x — exit TEST mode and restore link
```

Near-end:

```
ENL TEST x — enter TEST mode
TEST RLB x — perform test (results are PASS or FAIL)
DIS TEST x — exit TEST mode and restore link
```

If the far end is not an TMDI D-channel, use the RLBK command in LD60 to set up the remote loopback test.

ENL TMDI x u Enable TMDI card x unit u

- EST DCH x** Establish multiple frame operation on D-channel x.
- With the absence of the back-up D-channel, issuing the EST DCH x command clears all the B-channels on loop x. If backup D-channel is available, the system switches to the backup D-channel and the B-channels of loop x are not cleared.
- FDIS NCAL <DCH#> <conn_id>**
- Force disconnect the specified call-independent connection as defined by its connection ID number. The connection ID number is a number in the range of 1-9999 that identifies the call independent connection on a given DCH.
- MAP DCH x** Get physical address and switch settings for D-channels. This command outputs the card name and switch settings for D-channels. For example:
- ```
MAP DCH
DCH 15 DCHI 07
DCH 23 TMDI 09 PORT 2
```
- PCON DCH x**      Print configuration parameters on TMDI DCH x. This command outputs the parameters originally downloaded when the D-channel was enabled. The output format is:
- ```
DCH : x   LINK PARAM CONFIRM TIME: hh:mm:ss

TMDI x = 0-15
PORT x = 0-3
INTERFACE aaa = SL1, D100, D250, ESS4, S100, etc.
OPER MODE aaa bbb ccc ddd eee
```
- Where:** aaa = RS422, RS232 ; bbb = DTE, DCE ; ccc =
USR, NET ; ddd = baud rate ; eee = clock (EXT or
INT CLK)
- ```
T200 xx (LAPD parameter)
T203 xx (LAPD parameter)
T200 xx (LAPD parameter)
N201 xx (LAPD parameter)
K xx (LAPD parameter)
N2X4 xx (LAPD parameter if INTERFACE is ITR6)
```
- PLOG DCH x**      Print protocol error log-on DCH x.
- Protocol errors can be the result of PRI transmission problems and re-start procedures, or a protocol mismatch with the far end. The PLOG counters are cleared after the PLOG is printed or the DCH card is enabled.

When a protocol counter overflows, the PLOG is printed automatically and the counters are cleared. The counter is also cleared when the D-channel is disabled.

Response for TMDI DCH is:

```
DCH : xx MAINT CONFIRM TIME: hh:mm:ss
01 cc
11 cc
23 cc
```

Where:

- x = DCH number
- xxxx = system real time (in hexadecimal)
- yy = maintenance indication primitive
- zz = maintenance indication task ID
- 01 02 03 . . . 16 = protocol error counters as listed below
- cc = protocol error counts

Only the non-zero counters are output. Protocol error counters:

- 01 = Count of missing PRI handshakes
- 02 = Count of peer initiated re-establishment link
- 03 = Count of unsuccessful retransmit N200 of SABME
- 04 = Count of unsuccessful retransmit N200 of DISC
- 05 = Count of N(R) errors
- 06 = Count of I fields with length greater than N201
- 07 = Count of undefined frames
- 08 = Count of I fields but not allowed
- 09 = Count of FRMR frames
  
- 10 = Count of CRC error frames
- 11 = Count of REJ frames
- 12 = Count of messages with less than 4 octets
- 13 = Count of undefined protocol discriminators
- 14 = Count of undefined message types
- 15 = Count of messages missing mandatory information elements
- 16 = Count of messages with undefined information elements

17 = Count of layer 1 reports of no external clock being received  
18 = Count of aborted frames  
19 = Count of SABME frames received with incorrect C/R bit

20 = Count of supervisory frames received with  $F = 1$   
21 = Count of unsolicited DM responses with  $F = 1$   
22 = Count of unsolicited UA responses with  $F = 1$   
23 = Count of unsolicited UA responses with  $F = 0$   
24 = Count of DM responses with  $F = 0$   
25 = Number of times that no response was received from the far end after N200 retransmissions of RR or RNR  
26 = Count of frames received with incorrect header length  
27 = Number of times owner receiver busy condition was entered  
28 = Number of times peer receiver busy condition was entered  
29 = Count of messages with call reference length greater than 2

30 = Count of optional IEs received with invalid contents  
31 = Count of mandatory IEs received with invalid contents  
32 = Count of messages received with IE's not ordered correctly  
33 = Count of IEs which were repeated in received messages, but are only allowed to appear once per message  
34 = Count of IEs received with length exceeding the specified maximum length for the IE  
35 = Count of layer 3 messages from far-end with invalid call reference flag value of 0.  
36 = Count of layer 3 messages from far-end with invalid call reference flag value of 1.  
37 = Count of layer 3 messages from far-end with invalid global call reference.  
38 = Count of layer 3 messages from SL-1 that are too short.  
39 = Count of layer 3 messages from SL-1 containing an undefined message type.

40 = Count of layer 3 messages from SL-1 missing mandatory IE(s).  
 41 = Count of layer 3 messages from SL-1 containing unsupported IE(s).  
 42 = Count of layer 3 messages from SL-1 containing invalid operational IE(s).  
 43 = Count of layer 3 messages from SL-1 containing invalid mandatory IE(s).  
 44 = Count of layer 3 messages from SL-1 with IE(s) out of order.  
 45 = Count of layer 3 messages from SL-1 containing repeated IE(s).  
 46 = Count of layer 3 messages from far-end with an invalid call reference length.  
 47 = Count of layer 3 messages from SL-1 with an invalid call reference flag value of 0.  
 48 = Count of layer 3 messages from SL-1 with an invalid call reference flag value of 1.  
 49 = Count of layer 3 messages from SL-1 with an invalid global call reference.

50 = Count of unexpected layer 3 messages received from the far-end.  
 51 = Count of unexpected layer 3 messages received from the SL-1.  
 52 = Count of unexpected layer 3 timer expirations.  
 53 = Count of protocol messages received when D-channel is not in service or waiting for a Service Acknowledge message.

PMES DCH x      Print incoming layer 3 messages on TMDI DCH x.

The following data is kept by the TMDI DCH loadware and output when requested by this command or when one of the counters overflows:

```
DCH : xx
MSG LOG CONFIRM TIME: hh:mm:ss

SETUP: YY
CONNECT: YY
ALERT: YY
```

(Only non-zero counters are reported) (Where yy is the number of times a message was received)

When a counter overflows, the log is printed automatically and the counters are cleared. The counter is also cleared when the D-channel is disabled.

#### PTAB DCH x (t)

Display layer 3 message configuration table t and LAPD parameters from DCH x. This command is intended as a debugging tool for system designers.

#### PTRF DCH x

Print traffic report on TMDI DCH x.

The following traffic information is output:

1. `PEAK_I_US xx %` = peak incoming usage on the DCH link
2. `AVRG_I_US xx %` = average incoming usage on the DCH link
3. `PEAK_O_US xx %` = peak outgoing usage on the DCH link
4. `AVRG_O_US xx %` = average outgoing usage on the DCH link
5. `TIME xx` = time in seconds
6. `CONNECTED CALLS xx:` = total number of established call-independent connections

#### RLS DCH x

Release D-channel x. The link is in a waiting state, ready to come back up at any time.

If you release the D-channel with active B-channels, then calls in progress are not affected. However, these calls are disconnected when you re-establish the D-channel.

When the automatic recovery feature is active, the B-channels are automatically re-established

#### RST DCH x

Reset D-channel x, inhibit signaling. Forces the link to reset (RST) state, but does not disable PRI or DCH

#### RST MON

Reset or reactivate monitoring on D-channels with enabled monitors.

- SDCH DCH x**     Switch to the standby D-channel x. This is only valid in a backup D-channel configuration.
- Releases a D-channel and switches over to the other D-channel as long as the other D-channel is in EST STBY, established standby mode.
- Where x is the standby D-channel number. This command changes the status of the active D-channel to standby, and changes the status of standby D-channel to active.
- This command is not applicable if the recovery to primary D-channel option (prompt RCVP = YES in LD 17) is used.
- This command is only applicable to Meridian 1/Meridian SL-1 to Meridian 1/Meridian SL-1 Backup D-channel interface (IFC = SL-1 in LD 17).
- 
- SET MSGI x MON (0)-2**
- Set monitor output format level for all incoming messages on D-channel x. Refer to Setting output format levels earlier in the section.
- 
- SET MSGO x MON (0) -2**
- Set monitor output format level for all outgoing messages on D-channel x. Refer to Setting output format levels earlier in the section.
- 
- STAT DCH x**     Get the present status of D-channel x, where x is the I/O port number (entering x to specify just one link is optional).
- DCH status may be:
- EST = DCH link is established
  - EST STBY = DCH link is established and is the standby
  - FAIL = DCH link has failed
  - RLS = DCH link is released
  - RST = DCH link is in reset state
  - AEST, ARLS, REST = these codes indicate intermediate background functions are being performed. Enter the STAT command again to determine final status.
- 
- STAT DCH (x)**     Get status of one or all D-channels.
- If a DCH number is not entered, the status of all D-channels is output. The output format is:
- DCH x : aaaa bbbb cccc dddd x

**Where:**

x = DCH number  
aaaa = application status  
bbbb = link status  
cccc = AUTO if autorecovery is enable  
dddd = BKUP x or PRIM x (associated primary or backup DCH)

**Application status (aaaa):**

APRI = Awaiting PRI response  
CPRI = Checking PRI  
DIAG = application has failed  
DSBL = application is disabled  
OPER = link is operational  
RST = application is in reset state  
SDCH = Setting D-channel

**Link status (bbbb):**

AEST = Awaiting establishment  
ARLS = Awaiting release  
EST ACTV = DCH link is established and active  
EST STBY = DCH link is established and is the standby  
FAIL = DCH link has failed  
REST = request establishment  
RLS = DCH link is released  
RST = DCH link is in reset state  
TST = Test mode

STAT MON (x)    Display the incoming and outgoing monitoring status of one or all D-channels.



## STAT NCAL <DCH#>

List all current call-independent connections on a given PRI D-channel.

The response format is as follows:

NCAL\_CONN\_ID: The connection ID number is a number in the range of 1-9999 that identifies the call independent connection on a given DCH.

CREF: call reference number in HEX identifying independent connection

STATE: current state of all call-independent connections (IDLE, CONN\_REQ, CONN\_EST)

TIME: year month day hour:minute:second (the time when call independent connection request is made)

APPL: applications using the call-independent connection (eg. NACD, NMS, ...)

ORIG: originator

DEST: destination

## STAT NCAL <DCH#> <conn\_ID>

List information pertaining to a specific call-independent connection as defined by its connection ID number.

The response format is as follows:

NCAL\_CONN\_ID: The connection ID number is a number in the range of 1-9999 that identifies the call independent connection on a given DCH.

CREF: call reference number in HEX identifying independent connection

STATE: current state of all call-independent connections (IDLE, CONN\_REQ, CONN\_EST)

TIME: year month day hour:minute:second (the time when call independent connection request is made)

APPL: applications using the call-independent connection (eg. NACD, NMS, ...)

ORIG: originator

DEST: destination

STAT SERV (x)    Get the enable/disable status of services messages for one or all D-channels. See "ENL SERV" for details.

TEST LLB x        Start local loop back test on TMDI DCH x. See "ENL TEST" command for details.

TEST RLB x        Start remote loop back test on TMDI DCH x. See "ENL TEST" command for details.

---

## LD 97—Configuration Record 2

---

Overlay program 97 is used to specify several system parameters for XPE and other related equipment. These parameters include the minimum flash timing to download to the XPE packs when required.

Loss and Level Plan information may also be specified. Refer to the *International Loss and Level Plan planning and engineering* NTP for information regarding Loss and Level Plans prior to making any changes to the parameters defined in this Overlay.

# Prompts and responses

## Table of Contents

| Section                                                                   | Page                     |
|---------------------------------------------------------------------------|--------------------------|
| <i>Prompts and responses by data block :</i>                              |                          |
| <a href="#">SUPL: Superloop parameters data block</a>                     | <a href="#">page 809</a> |
| <a href="#">SYSM: System Parameters for MSDL/MISP card</a>                | <a href="#">page 809</a> |
| <a href="#">SYSP: System parameters for Peripheral Equipment</a>          | <a href="#">page 810</a> |
| <a href="#">XCTP: Conference/TDS/MF Sender card parameters data block</a> | <a href="#">page 810</a> |
| <a href="#">XPE: Extended Peripheral Equipment shelf data block</a>       | <a href="#">page 811</a> |
| <i>Other Information:</i>                                                 |                          |
| <a href="#">Print information on Superloop or Extended PE shelves</a>     | <a href="#">page 811</a> |

---

**SUPL: Superloop parameters data block**

| Prompt | Response | Comment                                          |
|--------|----------|--------------------------------------------------|
| REQ    | aaa      | Request (CHG, END, PRT)                          |
| TYPE   | SUPL     | Type = SUPL (Superloop)                          |
| SUPL   | 0-156    | Superloop number in multiples of 4               |
| XPE0   | x y z    | Extended Peripheral Equipment controller 0 (STD) |
| XPE1   | x y z    | Extended Peripheral Equipment controller 1 (STD) |

---

**SYSM: System Parameters for MSDL/MISP card**

| Prompt | Response    | Comment                                             |
|--------|-------------|-----------------------------------------------------|
| REQ    | aaa         | Req = CHG or PRT                                    |
| TYPE   | SYSM        | Type = SYSM (System parameters for MSDL/MISP cards) |
| FDLC   | p1 p2 p3 p4 | Fast Download Control parameters                    |

---

## SYSP: System parameters for Peripheral Equipment

| Prompt | Response    | Comment                                                  |
|--------|-------------|----------------------------------------------------------|
| REQ    | aaa         | Req = CHG or PRT                                         |
| TYPE   | SYSP        | Type = SYSP (System parameters for Peripheral equipment) |
| INTN   | (NO) YES    | International companding law                             |
| CODE   | (0)-3       | Quite Code is used by Network Card firmware              |
| CONT   | 1-(4)-32767 | Continuity                                               |
| CRCF   | 1-(4)-32767 | Cyclic Redundancy Check (CRC) Failures                   |
| FLSH   | (120)-168   | Flash timing                                             |
| P10R   | (50)-70     | Pulse 10 Ratio                                           |
| P12R   | (50)-70     | Pulse 12 Ratio                                           |
| P20R   | (50)-70     | Pulse 20 Ratio                                           |
| FDLC   | p1 p2 p3 p4 | Fast Download Control parameters                         |

## XCTP: Conference/TDS/MF Sender card parameters data block

| Prompt | Response   | Comment                                                |
|--------|------------|--------------------------------------------------------|
| REQ    | aaa        | Request (CHG, END, PRT)                                |
| TYPE   | XCTP       | Type = XCTP (Conference/TDS/MF Sender card parameters) |
| CPAD   | x          | Conference PAD (x = (0) or 1)                          |
| DTMF   | 0-(14)-255 | Dual Tone Multifrequency                               |
| P10P   | 0-(30)-255 | Primary 10 Pulses per second                           |
| S10P   | 0-(31)-255 | Secondary 10 Pulses per second                         |
| 20PP   | 0-(32)-255 | 20 Pulses Per second                                   |

## XPE: Extended Peripheral Equipment shelf data block

| Prompt | Response | Comment                                            |
|--------|----------|----------------------------------------------------|
| REQ    | aaa      | Request (aaa = CHG, END, PRT)                      |
| TYPE   | XPE      | Type = XPE (Extended Peripheral Equipment shelves) |
| XPEC   | (0)-95   | Extended Peripheral Equipment Controller           |
| LOC    | xxxxxx   | Location code for Peripheral Controller            |
| MED    | (COP)    | Connection Media to Peripheral Controller          |
| RGTP   | x        | Ringin Generator Type (x = (8) or 16)              |

## Print information on Superloop or Extended PE shelves

| Prompt | Response | Comment                                  |
|--------|----------|------------------------------------------|
| REQ    | PRT      | Req = PRT                                |
| TYPE   | aaaa     | Type = SUPL or XPE                       |
| SUPL   | 0-156    | Superloop number in multiples of 4       |
| XPE    | 1-95     | Extended Peripheral Equipment controller |

## Alphabetical list of prompts

| Prompt | Response    | Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 20PP   | 0-(32)-255  | 20 Pulses Per second<br>Tone table index for primary 20 pulses per second (pps) digit set. Use 32 for North American tones. Tone tables are defined in LD 56.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| CODE   | (0)         | Quite Code is used by Network Card firmware<br>0 is the only valid entry. Entries 1-3 are for future use.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| CONT   | 1-(4)-32767 | Continuity. Maintenance threshold for number of continuity faults per timeslot.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| CPAD   | (0)<br>1    | Conference PAD<br>Use software PAD values<br>Use PAD values defined by switch settings on pack (NT8D17). The CNFC command in LD 38 will not do the attenuation testing when CPAD = 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| CRCF   | 1-(4)-32767 | Cyclic Redundancy Check (CRC) Failures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| DTMF   | 0-(14)-255  | Dual Tone Multifrequency (Tone table index of the first DTMF digit to be used). Use 14 for North American tones.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| FDLC   | p1 p2 p3 p4 | Fast Download Control parameters. Where <b>p1</b> can be: <ol style="list-style-type: none"> <li>1. (ALL) = All cards listed below</li> <li>2. DCH = D-Channel cards</li> <li>3. MSDL = Multipurpose Serial Data Link cards</li> <li>4. PRIE = Primary Rate Interface Universal ISDN Protocol Engine</li> <li>5. T1E1 = T1/E1 Multipurpose Digital Interface cards</li> <li>6. DITI = Digital Trunk Interface</li> </ol> Where <b>p2</b> can be: <ol style="list-style-type: none"> <li>1. (C) = Conditional download (only if there is a major fault in the firmware or after a power failure). "C" is the recommended setting.</li> <li>2. F = Force download after initialization. Entering "F" only applies to the first INIT following the entry. After the INIT, the system reverts to C (conditional).</li> </ol> |

| Prompt | Response    | Comment                                                                                                                                                                                                                                                                                                                                                    |
|--------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |             | <p>Where <b>p3</b> can be:</p> <ol style="list-style-type: none"> <li>1. (C) = Current version</li> <li>2. L = Latest version</li> <li>3. S = Specified version</li> </ol> <p>Where <b>p4</b> is :</p> <ul style="list-style-type: none"> <li>• xx (version number, if p3 = S).</li> </ul> <p>See LD 20-22 to print versions.</p>                          |
| FLSH   |             | Flash timing                                                                                                                                                                                                                                                                                                                                               |
|        | (120)-768   | <p>Switchhook Flash timing</p> <p>Establishes Switchhook Flash time in milliseconds for 500/2500 sets</p>                                                                                                                                                                                                                                                  |
| INTN   | (NO)<br>YES | <p>μ- International companding Law</p> <p>A- International companding Law</p>                                                                                                                                                                                                                                                                              |
| LOC    | xxxxxx      | <p>Location code for Peripheral Controller (0-6 characters)</p> <p>Should be equal to the column number assigned to the System Monitor and the Universal Equipment Module (UEM) that contains the Controller.</p> <p>For example: CxxMy</p> <p>Where:</p> <ul style="list-style-type: none"> <li>• xx = column number</li> <li>• y = UEM number</li> </ul> |
| MED    | (COP)       | Connection Media to Peripheral Controller (copper cabling)                                                                                                                                                                                                                                                                                                 |
| P10P   | 0-(30)-255  | <p>Primary 10 Pulses per second</p> <p>Tone table index for primary 10 pulses per second (pps) digit set. Use 30 for North American tones.</p>                                                                                                                                                                                                             |
| P10R   | (50)-70     | <p>Pulse 10 Ratio (make-break ratio for 10 PPS dial pulse dialing)</p> <p>Range is 50% to 70%, in steps of 1. For example, at 70% the signal is on for 30 ms and off for 70 ms producing the 100 ms cycle for one pulse.</p>                                                                                                                               |



# LD 97

Page 814 of 848    Alphabetical list of prompts

---

| Prompt | Response          | Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P12R   | (50)-70           | Pulse 12 Ratio (make-break ratio for 12 PPS dial pulse dialing)<br><br>Range is 50% to 70%, in steps of 1. For example, at 70% the signal is on for 30 ms and off for 70 ms producing the 100 ms cycle for one pulse.                                                                                                                                                                                                                                                                                                                                                          |
| P20R   | (50)-70           | Pulse 20 Ratio (make-break ratio for 20 PPS dial pulse dialing)<br><br>Range is 50% to 70%, in steps of 1. For example, at 70% the signal is on for 15 ms and off for 35 ms producing the 50 ms cycle for one pulse.                                                                                                                                                                                                                                                                                                                                                           |
| REQ    | CHG<br>END<br>PRT | Request<br>Modify existing data<br>Exit overlay<br>Print data block                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| RGTP   | (8) 16            | Ringling Generator Type (8 or 16 concurrent ringers; 16 requires NT6D42CA Ringling Generator). This prompt determines the maximum number of 500/2500 telephones which can be in the active ringling state at the same time.<br><br>CAUTION: Do not set RGTP = 16 if you do not have the NT6D42 ringling generator. Exceeding the ringer capacity may cause intermittent overload alarms on the ringling generator.<br><br>The value is not passed to the Peripheral Controller card immediately after service change. That information is downloaded when the card is enabled. |
| S10P   | 0-(31)-255        | Secondary 10 Pulses per second<br><br>Tone table index for secondary 10 pulses per second (pps) digit set. Use 31 for North American tones. Tone tables are defined in LD 56.                                                                                                                                                                                                                                                                                                                                                                                                  |
| SLOT   | (L) R             | Network Card is in Left or Right slot<br><br>Enter L (left) if the Network Card is located in the lower numbered network pair. For example, in superloop 0, enter L if the Network Card sits in the slot for network loops 0/1, enter R (right) for 2/3.                                                                                                                                                                                                                                                                                                                       |
| SUPL   | 0-156<br>N0-N156  | Superloop number in multiples of 4<br>Precede loop number with N to create a phantom loop                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| Prompt | Response | Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TYPE   |          | Type of data block<br><br>When modifying PE system parameters, the system must initialize for the changes to come into effect. The loop number for the Conference/TDS/MFS card is defined by prompt XCT in LD 17.                                                                                                                                                                                                                                                                                      |
|        | SYSM     | System parameters for MSDL/MISP cards.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|        | SYSP     | System parameters. When modifying the PE system parameters, the system must initialize for the changes to come into effect.                                                                                                                                                                                                                                                                                                                                                                            |
|        | SUPL     | Superloop parameters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|        | XCTP     | Conference/TDS/MF Sender card parameters. The loop number for the NT8D17 Conference/TDS/MFS card is defined by prompt XCT in LD 17.                                                                                                                                                                                                                                                                                                                                                                    |
|        | XNPD     | Extended Network/Digitone Receiver (Release 21 and earlier)                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|        | XPE      | Extended Peripheral Equipment shelves                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| XPE0   | x y z    | Extended Peripheral Equipment controller 0<br>Peripheral Controller number, starting segment and ending segment<br><br>Define the superloop configuration, where: <ul style="list-style-type: none"> <li>• x = Controller number (1-95) for superloop's shelf 0</li> <li>• y = starting shelf segment number (0-3)</li> <li>• z = ending shelf segment number (0-3)</li> </ul> Enter: X to remove XPE0 or <cr> Return to REQ prompt.                                                                   |
| XPE1   | x y z    | Extended Peripheral Equipment controller 1<br>Peripheral Controller number, starting segment and ending segment<br><br>Define the superloop configuration, where: <ul style="list-style-type: none"> <li>• x = Controller number (1-95) for superloop's shelf 1</li> <li>• y = starting shelf segment number (0-3)</li> <li>• z = ending shelf segment number (0-3)</li> </ul> Enter: <ul style="list-style-type: none"> <li>• X to remove XPE1</li> <li>• &lt;cr&gt; Return to REQ prompt.</li> </ul> |

# LD 97

| Prompt | Response | Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| XPEC   | (0)-95   | <p>Extended Peripheral Equipment Controller (assign Peripheral Controller numbers; 0 for automatic)</p> <p>Block is built with segments of the peripheral shelf (RCI or FXPEC) which are associated with this SUPL (LCI or FXNET)</p> <p>Where:</p> <p>0 = Automatically assign Controller numbers. The system assigns the next available Controller number.</p> <p>1-95 = Manually assign Controller numbers</p> <p>Precede with X to remove. Remove all cards/TNs in the Controller shelf first. XPEC is prompted if SUPT=CARR or FIBR.</p> |

---

## LD 117—Ethernet and Alarm Management

---

This overlay command format allows the administrator to:

1. configure the Alarm Management feature
2. identify all Meridian 1 alarms
3. configure IP network interface addresses
4. perform all IP network related maintenance and diagnostic functions

Both Administration and Maintenance commands appear in this overlay.

### New Command Format

LD 117 uses a command line input interface (input parser) which has the following general structure (where “=>” is the command prompt):

=> COMMAND OBJECT [(FIELD1 value) (FIELD 2 value)... (FIELDx value)]

LD 117 offers the administrator the following configuration features:

1. **Context Sensitive Help** - Help is offered when “?” is entered. The Help context is determined by the position of the “?” entry in the command line. If you enter “?” in the COMMAND position, Help text will appear which presents all applicable command options. If you enter “?” in the OBJECT position, HELP text will appear which presents all applicable OBJECT options.
2. **Abbreviated Inputs** - The new input parser will recognize abbreviated inputs for commands, objects and object fields. For example, “N” can be entered for the command “NEW” or “R” can be entered for the object “Route”.

3. **Optional Fields** - Object fields with default values can be bypassed by the user on the command line. For example, to configure an object which consists of fields with default values, enter the command, enter the object name, press <return>, and the object will be configured with default values. All object fields do not have to be specified.
4. **Selective Change** - Instead of searching for a prompt within a lengthy prompt-response sequence, “Selective Change” empowers the administrator to directly access the object field to be changed.
5. **Service Change Error Message Consistency** - The parser simplifies usage of service change error messages. LD 117 displays only SCH0099 and SCH0105.

## New Alarm Management Capability

With the Alarm Management feature, all *processor-based system events* are processed and logged into a new disk-based System Event List (SEL). Events which are generated as a result of administration activities, such as SCH or ESN error messages, *are not* logged into the SEL. Events which are generated as a result of maintenance or system activities, like BUG and ERR error messages, *are* logged into the SEL. Unlike the previous System History File, this new System Event List survives Sysload, Initialization and power failures.

### The Event Collector

The Event Collector captures and maintains a list of all processor-based system events. The Event Collector also routes critical events to FIL TTY ports and lights the attendant console minor alarm lamp as appropriate. The System Event List (SEL) can be printed or browsed.

### The Event Server

The *Event Server* consists of two components:

1. **Event Default Table (EDT)**: This table associates events with a default severity. By using the CHG EDT command in LD 117, the EDT can be overridden so that all events default to a severity of either INFO or MINOR. The EDT can be viewed in LD 117.

**Sample Event Default Table (EDT)**

| Error Code | Severity |
|------------|----------|
| ERR220     | Critical |
| IOD6       | Critical |
| BUG4001    | Minor    |

**Note:** Error codes which do not appear in the EDT will be assigned a default severity of MINOR.

2. Event Preference Table (EPT): This table contains site-specific preferences for event severities as well as criteria for severity escalation and alarm suppression. The administrator can configure the EPT to:
  - a override the default event severity assigned by the default table
  - b escalate event severity of frequently occurring minor or major alarms

**Sample Event Preference Table (EPT)**

| Error Code                                                                                                                                                                                                  | Severity | Escalate Threshold (events/60 sec.) (see Note 2) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------------------------------------|
| ERR??? (see Note 1)                                                                                                                                                                                         | Critical | 5                                                |
| INI???                                                                                                                                                                                                      | Default  | 7                                                |
| BUG1??                                                                                                                                                                                                      | Minor    | 0                                                |
| HWI363                                                                                                                                                                                                      | Major    | 3                                                |
| <b>Note 3:</b> The “?” is a wildcard. See section below for explanation of wildcard entries.                                                                                                                |          |                                                  |
| <b>Note 4:</b> The window timer length defaults to 60 seconds. However, this value can be changed by the Administrator. Read <a href="#">“Global Window Timer Length” on page 820</a> for more information. |          |                                                  |

**Wildcards**

The special wildcard character “?” can be entered for the numeric segment of an error code entry in the EPT to represent a range of events. All events in the range indicated by the wildcard entry can then be assigned a particular severity or escalation threshold.

For example, if “ERR????” is entered and assigned a MAJOR severity in the EPT, all events from ERR0000 to ERR9999 are assigned MAJOR severity. If “BUG3?” is entered and assigned an escalation threshold of 5, the severity of all events from BUG0030 to BUG0039 will be escalated to the next higher severity if their occurrence rate exceeds 5 per time window.

## Escalation and Suppression Thresholds

The escalation threshold specifies a number of events per window timer length that when exceeded, will cause the event severity to be escalated up one level. The window timer length is set to 1 minute by default. Escalation occurs only for minor or major alarms. Escalation threshold values must be less than the universal suppression threshold value.

A suppression threshold suppresses events that flood the system and applies to all events. It is set to 15 events per minute by default.

### Global Window Timer Length

Both the escalation and suppression thresholds are measured within a global window timer length. The window timer length is set to 1 minute by default. However, the window timer length can be changed by using the CHG TIMER command in LD 117.

## TTY Output Format of Events

TTY event output can be formatted or unformatted. Formatted output is also called fancy format. Output format is configurable in LD 117 using the CHG FMT\_OUTPUT command.

### Fancy Format Output

Formatted output appears in the following template:

```
<severity> <report id> <date> <time> <prim_seq_no> <cp_id> <cp_ad>
DESCTXT: <descriptive text>
OPRDATA: <operator data>
EXPDATA: <expert data>
```

| Field              | Description                                                                                                                                                                                                                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <severity>         | ***** (critical); **** (major); *** (minor); " " (blank for info)                                                                                                                                                                                                                                     |
| <report id>        | The report id consists of an event category (e.g. BUG, ERR, etc.) and an event number (1200, 230, etc.). It is padded with blanks at the end to ensure it is 9 characters long (4 characters max. for category and 5 digits max. for number). Examples of report ids are: ERR230, ACD3560, and BUG30. |
| <date>             | DD/MM/YY                                                                                                                                                                                                                                                                                              |
| <time>             | HH:MM:SS                                                                                                                                                                                                                                                                                              |
| <prim_seq_no>      | Primary sequence number of the event (length of 5 digits)                                                                                                                                                                                                                                             |
| <cp_id>            | The Component ID is a 15 character string which indicates the id of the subsystem generating the alarm                                                                                                                                                                                                |
| <cp_ad>            | The Component address is a 15 character string which indicates the address of the subsystem generating the event                                                                                                                                                                                      |
| <descriptive text> | This is an optional string which describes an event                                                                                                                                                                                                                                                   |
| <operator data>    | This is an optional field which holds a 160 character string containing extra text or data to assist the operator in clearing a fault. This field contains any data output with a filtered SL-1 alarm (e.g. loop number, TN, etc.)                                                                    |
| <expert data>      | This is an optional variable length character string which contains extra text or data for a system expert or designer.                                                                                                                                                                               |



The following are samples of fancy format output:

```
*** BUG015 15/12/95 12:05:45 00345
EXPDATA: 04BEF0FC 05500FBA 05500EE2 05500EC6 05500EAA
BUG015 + 05500E72 + 05500E56 + 0550D96 + 055053A + 04D84E02 + 04D83CFC
BUG015 + 04D835CA 04D81BAE 04D7EABE 04F7EABE 04F7EDF2 04F7EFC 04F7E1B0

* ERR00220 15/12/92 12:05:27 00346
OPRDATA: 51
```

```
VAS0010 15/12/92 12:06:11 00347 VMBA VAS 5
```

## Unformatted Output

Unformatted data consists of only the report ID and perhaps additional text.  
The following is a sample of unformatted output:

```
BUG015
BUG015 + 04BEF0FC 05500FBA 05500EE2 05500EAA 0550E8E
BUG015 + 05500E72 05500E56 05500D96 0550053A 04D84E02
BUG015 + 04D835CA 04D81BAE 04D7EABE 04F7EDF2 04F7E2FC 04&E1B0
BUG015 + 04F7E148

ERR00220 51
VAS0010
```

## Ethernet and Point-to-Point Protocol

LD 117 may be used to configure and manage an IP network interface. The Meridian 1 is hardware-equipped for this advance with an Ethernet controller on the Small System Controller (SSC) card. Each SSC card is equipped with a Local Area Network Controller for Ethernet which is preconfigured with an unique Ethernet address.

An Ethernet address is a unique 48-bit long physical address assigned to the Ethernet controller on the SSC. On a single CPU M1 system, there is only one SSC which contains one Ethernet interface and an IP address which must be configured. Single CPU systems use only a Primary IP address.

Remote access to Meridian 1 switches is made possible with Point-to-Point Protocol (PPP). LD 117 may be used to configure IP addresses for Point-to-Point Protocol.

The Meridian 1 Ethernet interface is provided by the SSC pack with AUI cable on the back panel. The Point-to-Point Protocol (PPP) can be established via asynchronous connection to any Meridian 1 SDI port. The IP addresses for Ethernet and PPP interface can be configured in overlay 117, and defaults will be used for all new installation and upgrades.

## How to Configure Ethernet and Point-to-Point Protocol

The following tables explain how to configure IP addresses for Ethernet and Point-to-Point Protocol. These two tables are followed by examples.

| Configure IP address for the Ethernet Interface |                                                        |
|-------------------------------------------------|--------------------------------------------------------|
| <b>Step</b>                                     | <b>Action</b>                                          |
| 1                                               | Load Overlay 117                                       |
| 2                                               | Create host entries                                    |
| 3                                               | Assign host to primary and/or secondary IP address(es) |
| 4                                               | Set up Ethernet subnet mask                            |
| 5                                               | Set up routing entry                                   |

| Step | Action                                                 |
|------|--------------------------------------------------------|
| 1    | Load Overlay 117                                       |
| 2    | Create host entries                                    |
| 3    | Assign host to primary and/or secondary IP address(es) |
| 4    | Set up Ethernet subnet mask                            |
| 5    | Set up routing entry                                   |

| Configure IP address for the Point-to-Point Protocol Interface |                                                        |
|----------------------------------------------------------------|--------------------------------------------------------|
| <b>Step</b>                                                    | <b>Action</b>                                          |
| 1                                                              | Load Overlay 117                                       |
| 2                                                              | Create host entries                                    |
| 3                                                              | Assign host to primary and/or secondary IP address(es) |

| Step | Action                                                 |
|------|--------------------------------------------------------|
| 1    | Load Overlay 117                                       |
| 2    | Create host entries                                    |
| 3    | Assign host to primary and/or secondary IP address(es) |

### Example 1 Configure IP address for the Ethernet Interface

**Given:** Primary IP address: 47.1.1.10 ; Secondary IP address: 47.1.1.11; Subnet mask: 255.255.255.0; Default Gateway IP: 47.1.1.1

| Step | Action                                                                                                                                                                                                                                                    |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Load Overlay 117                                                                                                                                                                                                                                          |
| 2    | Create host entries. Enter one of the following commands:<br>NEW HOST PRIMARY_IP 47.1.1.10<br>NEW HOST SECONDARY_IP 47.1.1.10 (for Dual CPU only)<br>NEW HOST GATEWAY_IP 47.1.1.10 (if connected to customer LAN)                                         |
| 3    | Assign host to primary and/or secondary IP address(es). Enter one of the following commands:<br>CHG ELNK ACTIVE PRIMARY_IP<br>CHG ELNK INACTIVE SECONDARY_IP (for Dual CPU only)<br>Verify your IP address for Ethernet by entering the PRT ENLK command. |
| 4    | Set up Ethernet subnet mask. Enter the command:<br>CHG MASK 255.255.255.0<br>Verify subnet mask setting by entering the command: PRT MASK                                                                                                                 |
| 5    | Set up routing entry. Enter the command:<br>NEW ROUTE 0.0.0.0 47.1.1.1 (if connected to customer LAN)<br>*Note that 0.0.0.0 = network IP; 47.1.1.1 = gateway IP<br>Verify default routing by entering the command: PRT ROUTE                              |

**Note 1:** For a single CPU machine, the secondary IP is not used.

**Note 2:** The secondary IP is only accessible when a system is in split mode.

**Note 3:** The subnet mask must be the same value used for the M1 Ethernet network.

**Note 4:** The M1 private Ethernet is used by all M1 devices for system access and control. An internet gateway must be used to isolate the M1 private Ethernet from the customer LAN.

**Note 5:** Routing information is required if an internet gateway or router connects an M1 private network to the customer's LAN.

## Example 2 Configure IP address for the Point-to-Point Protocol Interface

**Given:** Local IP address: 172.1.1.1; Remote IP address 100.1.1.1

- | Step | Action                                                                                                                                                                                                                                                                             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Load Overlay 117                                                                                                                                                                                                                                                                   |
| 2    | Create host entries. Enter one of the following commands:<br>NEW HOST LOCAL_PPP 172.1.1.1<br>NEW HOST REMOTE_PPP 100.1.1.1 (this entry is optional)                                                                                                                                |
| 3    | Assign host to primary and/or secondary IP address(es). Enter one of the following commands:<br>CHG PPP LOCAL LOCAL_PPP 0 (always use interface #0)<br>CHG PPP REMOTE REMOTE_PPP 0 (this entry is optional)<br>Verify your IP address(es) for PPP by entering the PRT PPP command. |

## Command and Object Descriptions

### Command Descriptions

| Command | Definition | Description                              |
|---------|------------|------------------------------------------|
| ****    | Abort      | Abort overlay                            |
| BROWSE  | Browse     | Browse an existing System Event List     |
| CHG     | Change     | Change/modify object configuration       |
| DIS     | Disable    | Disable Point-to-Point Protocol          |
| ENL     | Enable     | Enable Point-to-Point Protocol           |
| NEW     | New        | Add and configure new object             |
| OUT     | Out        | Delete existing object                   |
| PRT     | Print      | Print configuration of existing object   |
| RST     | Reset      | Reset Object                             |
| SET     | Set        | Set ELNK subnet mask to configured value |
| STAT    | Status     | Display object statistics                |
| UPDATE  | Update     | Update INET database                     |

## Object Descriptions

| Object        | Description                                                                                                                                                                                |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DBS           | Database                                                                                                                                                                                   |
| EDT           | Event Default Table: Table of default event entries and associated severities                                                                                                              |
| ELNK          | Ethernet interface                                                                                                                                                                         |
| ELNK ACTIVE   | Active Ethernet Link: Change the Primary IP address and host name                                                                                                                          |
| ELNK INACTIVE | Inactive Ethernet Link: Change the Secondary IP address and host name                                                                                                                      |
| EPT           | Event Preference Table: Table of customer's event entries with associated severities                                                                                                       |
| FMT_OUTPUT    | Formatted Output: Determine if system events uses formatted (also called fancy) or unformatted output. See <a href="#">“TTY Output Format of Events” on page 821</a> for more information. |
| HOST          | Host name                                                                                                                                                                                  |
| MASK          | Subnet mask                                                                                                                                                                                |
| OPEN_ALARM    | Open Simple Network Management Protocol (SNMP) traps setting                                                                                                                               |
| PPP           | Point-to-Point Protocol interface                                                                                                                                                          |
| PPP LOCAL     | Local Point-to-Point Protocol interface address                                                                                                                                            |
| PPP REMOTE    | Remote Point-to-Point Protocol interface address                                                                                                                                           |
| PTM           | Point-to-Point Protocol idle Timer                                                                                                                                                         |
| ROUTE         | Configure new routing entry                                                                                                                                                                |
| SELSIZE       | System Event List Size: Number of events in System Event Log                                                                                                                               |
| SEL           | System Event List                                                                                                                                                                          |
| SUPPRESS      | Suppress count: Number of times the same event is processed before it is suppressed                                                                                                        |
| TIMER         | Global window timer length. See <a href="#">“Global Window Timer Length” on page 820</a> for more information.                                                                             |

## Alphabetical list of Administration commands

The commands listed below use the following general structure (where “=>” is the command prompt):

=> COMMAND OBJECT [(FIELD1 value) (FIELD 2 value)... (FIELDx value)]

In the table below, COMMANDS and OBJECTS are in bold typeface and fields are in regular typeface. Fields enclosed in brackets ( ) are default values.

| => Command                        | Description                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>BROWSE SEL UP</b> n            | Browse up n # of lines in System Event List (SEL)                                                                                                                                                                                                                                                                                                 |
| <b>BROWSE SEL DOWN</b> n          | Browse down n # of lines in SEL                                                                                                                                                                                                                                                                                                                   |
| <b>BROWSE SEL TOP</b>             | Browse to top of SEL                                                                                                                                                                                                                                                                                                                              |
| <b>BROWSE SEL BOT</b>             | Browse to bottom of SEL                                                                                                                                                                                                                                                                                                                           |
| <b>BROWSE SEL FIND</b> xxx        | Browse forward to find string xxx in SEL                                                                                                                                                                                                                                                                                                          |
| <b>BROWSE SEL BFIND</b> xxx       | Browse backward to find string xxx in SEL                                                                                                                                                                                                                                                                                                         |
| <b>CHG EDT NORMAL</b>             | Use Event Default Table (EDT) default severities                                                                                                                                                                                                                                                                                                  |
| <b>CHG EDT INFO</b>               | Override EDT; use INFO as default severity for all events except those specified in Event Preference Table (EPT)                                                                                                                                                                                                                                  |
| <b>CHG EDT MINOR</b>              | Override EDT; use MINOR as default severity for all events except those specified in Event Preference Table (EPT)                                                                                                                                                                                                                                 |
| <b>CHG ELNK ACTIVE</b> hostname   | Set Meridian 1 active Ethernet interface IP address                                                                                                                                                                                                                                                                                               |
| <b>CHG ELNK INACTIVE</b> hostname | Set Meridian 1 inactive Ethernet interface IP address                                                                                                                                                                                                                                                                                             |
| <b>CHG EPT</b> aa... a INFO x     | Change an Event Preference Table (EPT) entry to Information severity, where: <ul style="list-style-type: none"> <li>aa... a = an event class with an event number (e.g. BUG1000, ERR0025)</li> <li>x = optional entry to escalate value of EPT entry from (0)-Suppress value, as defined by default or your <b>CHG SUPPRESS</b> entry.</li> </ul> |



| => Command                        | Description                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CHG EPT</b> aa... a EDT x      | Change EPT to NT-defined severity from EDT, where: <ul style="list-style-type: none"> <li>• aa... a = an event class with an event number (e.g. BUG1000, ERR0025)</li> <li>• x = optional entry to escalate value of EPT entry from (0)-Suppress value, as defined by default or your <b>CHG SUPPRESS</b> entry.</li> </ul> |
| <b>CHG EPT</b> aa... a MAJOR x    | Change an EPT entry to Major severity, where: <ul style="list-style-type: none"> <li>• aa... a = an event class with an event number (e.g. BUG1000, ERR0025)</li> <li>• x = optional entry to escalate value of EPT entry from (0)-Suppress value, as defined by default or your <b>CHG SUPPRESS</b> entry.</li> </ul>      |
| <b>CHG EPT</b> aa... a MINOR x    | Change an EPT entry to Minor severity, where: <ul style="list-style-type: none"> <li>• aa... a = an event class with an event number (e.g. BUG1000, ERR0025)</li> <li>• x = optional entry to escalate value of EPT entry from (0)-Suppress value, as defined by default or your <b>CHG SUPPRESS</b> entry.</li> </ul>      |
| <b>CHG EPT</b> aa... a CRITICAL x | Change an EPT entry to Critical severity, where: <ul style="list-style-type: none"> <li>• aa... a = an event class with an event number (e.g. BUG1000, ERR0025)</li> <li>• x = optional entry to escalate value of EPT entry from (0)-Suppress value, as defined by default or your <b>CHG SUPPRESS</b> entry.</li> </ul>   |
| <b>CHG FMT_OUTPUT</b> OFF         | Turn off formatted output                                                                                                                                                                                                                                                                                                   |
| <b>CHG FMT_OUTPUT</b> ON          | Turn on formatted output                                                                                                                                                                                                                                                                                                    |
| <b>CHG MASK</b> nnn.nnn.nnn.nnn   | Change subnet mask                                                                                                                                                                                                                                                                                                          |
| <b>CHG PPP LOCAL</b> hostname     | Set Meridian 1 local Point-to-point Protocol interface IP address                                                                                                                                                                                                                                                           |
| <b>CHG PPP REMOTE</b> hostname    | Set Meridian 1 remote Point-to-point Protocol interface IP address                                                                                                                                                                                                                                                          |
| <b>CHG PTM</b> 0-60               | Change Point-to-point Protocol idle timer to specified value (in minutes)                                                                                                                                                                                                                                                   |
| <b>CHG SELSIZE</b> 5-(500)-2000   | Change System Event List Size (number of events in SEL)                                                                                                                                                                                                                                                                     |

| => Command                        | Description                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CHG SUPPRESS</b> 5-(15)-127    | Change global suppress for events (number of occurrences before event is suppressed)                                                                                                                                                                                                                                                  |
| <b>CHG TIMER</b> (1)-60           | Change global timer window length in minutes. See <a href="#">“Global Window Timer Length” on page 820</a> for more information.                                                                                                                                                                                                      |
| <b>NEW EPT</b> aa... a INFO x     | Assign Information severity to new EPT entry, where: <ul style="list-style-type: none"> <li>• aa... a = an event class with an event number (e.g. BUG1000, ERR0025)</li> <li>• x = optional entry to escalate value of EPT entry from (0)-Suppress value, as defined by default or your <b>CHG SUPPRESS</b> entry.</li> </ul>         |
| <b>NEW EPT</b> aa... a EDT x      | Assign NT-defined severity from EDT to new EPT entry, where: <ul style="list-style-type: none"> <li>• aa... a = an event class with an event number (e.g. BUG1000, ERR0025)</li> <li>• x = optional entry to escalate value of EPT entry from (0)-Suppress value, as defined by default or your <b>CHG SUPPRESS</b> entry.</li> </ul> |
| <b>NEW EPT</b> aa... a MAJOR x    | Assign Major severity to new EPT entry, where: <ul style="list-style-type: none"> <li>• aa... a = an event class with an event number (e.g. BUG1000, ERR0025)</li> <li>• x = optional entry to escalate value of EPT entry from (0)-Suppress value, as defined by default or your <b>CHG SUPPRESS</b> entry.</li> </ul>               |
| <b>NEW EPT</b> aa... a MINOR x    | Assign Minor severity to new EPT entry, where: <ul style="list-style-type: none"> <li>• aa... a = an event class with an event number (e.g. BUG1000, ERR0025)</li> <li>• x = optional entry to escalate value of EPT entry from (0)-Suppress value, as defined by default or your <b>CHG SUPPRESS</b> entry.</li> </ul>               |
| <b>NEW EPT</b> aa... a CRITICAL x | Assign Critical severity to new EPT entry, where: <ul style="list-style-type: none"> <li>• aa... a = an event class with an event number (e.g. BUG1000, ERR0025)</li> <li>• x = optional entry to escalate value of EPT entry from (0)-Suppress value, as defined by default or your <b>CHG SUPPRESS</b> entry.</li> </ul>            |

| => Command                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NEW HOST</b> hostname IPaddress    | <p>Configure a new host entry. The host name must exist in the host table.</p> <p>The default setting for the Primary IP address is: 137.135.128.253. The default setting for Primary Host Name is: PRIMARY_ENET.</p> <p>The default setting for the Secondary IP address is: 137.135.128.254. The default setting for the Secondary Host Name is: SECONDARY_ENET.</p> <p><b>Host Name Syntax:</b> A host name can be up to 16 characters in length. The first character of a host name must be a letter of the alphabet. A character may be a letter, number, or underscore(_). A period is used as a delimiter between domain names. Spaces and tabs are not permitted. No distinction is made between upper and lower case.</p> |
| <b>NEW ROUTE</b> networkIP gateway IP | Configure a new routing entry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>OUT EPT</b> aa... a                | <p>Delete a single Event Preference Table (EPT) events, where:</p> <ul style="list-style-type: none"> <li>• aa... a = an event class with an event number (e.g. BUG1000, ERR0025)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>OUT EPT</b> ALL                    | Delete all entries in Event Default Table (EDT)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>OUT HOST</b> nnn                   | Delete configured host entry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>OUT ROUTE</b> nn                   | Delete configured routing entry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>PRT EDT</b> aa... a                | <p>Print a single Event Default Table (EDT) event, where:</p> <ul style="list-style-type: none"> <li>• aa... a = an event class with an event number (e.g. BUG1000, ERR0025)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>PRT EDT</b> aa... a bb...b         | <p>Print a range of Event Default Table (EDT) events, where:</p> <ul style="list-style-type: none"> <li>• aa... a = first entry in EDT event range (e.g. BUG1000, ERR0025)</li> <li>• bb...b = last entry in EDT event range (e.g. BUG1000, ERR0025)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>PRT ELNK</b>                       | Print active and inactive Ethernet interface IP addresses                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

| => Command                    | Description                                                                                                                                                                                                                                              |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRT EPT aa... a</b>        | Print a single Event Preference Table (EPT) entry, where: <ul style="list-style-type: none"> <li>• aa... a = an event class with an event number (e.g. BUG1000, ERR0025)</li> </ul>                                                                      |
| <b>PRT EPT aa... a bb...b</b> | Print specific Event Preference Table (EPT) entry, where: <ul style="list-style-type: none"> <li>• aa... a = first entry in EPT event range (e.g. BUG1000, ERR0025)</li> <li>• bb...b = last entry in EPT event range (e.g. BUG1000, ERR0025)</li> </ul> |
| <b>PRT EPT ALL</b>            | Print all entries in Event Preference Table (EPT)                                                                                                                                                                                                        |
| <b>PRT FMT_OUTPUT</b>         | Print formatted output string                                                                                                                                                                                                                            |
| <b>PRT HOST</b>               | Print network host table entry(ies) information stored in database                                                                                                                                                                                       |
| <b>PRT MASK</b>               | Print subnet mask stored in database                                                                                                                                                                                                                     |
| <b>PRT OPEN_ALARM</b>         | Print open Simple Network Management Protocol (SNMP) traps setting                                                                                                                                                                                       |
| <b>PRT PPP</b>                | Print Point-to-point Protocol interface address(es)                                                                                                                                                                                                      |
| <b>PRT PTM</b>                | Print current Point-to-point Protocol idle timer settings                                                                                                                                                                                                |
| <b>PRT ROUTE</b>              | Print routing table entry(ies) information stored in database                                                                                                                                                                                            |
| <b>PRT SEL nn</b>             | Print most recent record(s) in system event list, where: nn = 0-(20)-SELsize. For example, if nn = 50, the 50 most recent events in the system event list will be printed.                                                                               |
| <b>PRT SELsize</b>            | Print System Event List size                                                                                                                                                                                                                             |
| <b>PRT SUPPRESS</b>           | Print global suppress value                                                                                                                                                                                                                              |
| <b>PRT TIMER</b>              | Print global timer window length (in minutes). See <a href="#">“Global Window Timer Length” on page 820</a> for more information.                                                                                                                        |
| <b>OUT EPT ALL</b>            | Delete all entries in Event Preference Table (EPT)                                                                                                                                                                                                       |
| <b>OUT EPT aa...a</b>         | Delete a single EPT entry, where: <ul style="list-style-type: none"> <li>• aa... a = first entry in EPT event range (e.g. BUG1000, ERR0025)</li> </ul>                                                                                                   |
| <b>RST ELNK ACTIVE</b>        | Reset Meridian 1 active Ethernet interface IP address to default value                                                                                                                                                                                   |

| => Command               | Description                                                                |
|--------------------------|----------------------------------------------------------------------------|
|                          |                                                                            |
| <b>RST ELNK INACTIVE</b> | Reset Meridian 1 inactive Ethernet interface IP address to default value   |
| <b>RST MASK</b>          | Reset subnet mask to default                                               |
| <b>RST PPP LOCAL</b>     | Reset local Point-to-point Protocol interface IP address to default value  |
| <b>RST PPP REMOTE</b>    | Reset remote Point-to-point Protocol interface IP address to default value |
| <b>RST PTM</b>           | Reset Point-to-point Protocol idle timer to default                        |
| <b>UPDATE DBS</b>        | Rebuild INET database and renumber host and route entry ID                 |

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## Alphabetical list of Maintenance Commands

Maintenance commands share the same entry format as Administration commands.

| => Command                         | Description                                                                                                                                                                       |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DIS HOST n</b>                  | Remove a host from the run time host table, where:<br>n = host entry number                                                                                                       |
| <b>DIS PPP</b>                     | Disable Point-to-point Protocol access (this enables PPPD)                                                                                                                        |
| <b>DIS ROUTE n</b>                 | Remove a route from the run time routing table, where:<br>n = route entry number                                                                                                  |
| <b>ENL HOST n</b>                  | Add a host to run time host table, where: n = host entry number                                                                                                                   |
| <b>ENL PPP</b>                     | Enable Point-to-point Protocol access (Enables PPPD command)                                                                                                                      |
| <b>ENL ROUTE n</b>                 | Add a route to run time routing table, where: n = route entry number                                                                                                              |
| <b>SET MASK</b>                    | Set ELNK subnet mask to configured value                                                                                                                                          |
| <b>SET OPEN_ALARM slot address</b> | Add an SNMP (Simple Network Management Protocol) trap destination slot address from 0 to 7.<br>The address format is: x.x.x.x. (TCP/IP)<br>To clear slot, set address to 0.0.0.0. |
| <b>STAT HOST</b>                   | Display current runtime host table status                                                                                                                                         |
| <b>STAT PPP</b>                    | Show Point-to-point Protocol connection status                                                                                                                                    |
| <b>STAT ROUTE</b>                  | Display host and network routing table                                                                                                                                            |



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## LD 135—Core Common Equipment Diagnostic

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LD 135 provides diagnostic and maintenance information. It provides a means of performing the following functions:

- clearing minor and major alarms
- clearing and printing maintenance display contents for the primary Core
- testing the idle Core
- displaying CP card status and ID

When a status appears disabled, one or more Out-of-Service (OOS) messages may appear. Listed below are the possible OOS messages. (What actually appears are the numbers associated with the OOS text).

### Possible OOS Messages

- 0 = CP local bus parity threshold exceeded
- 1 = CP card HPM timeout threshold exceeded
- 9 = Port has been disabled by craftsman.
- 10 = Device is not accessible.
- 20 = CNI card has been manually disabled.
- 21 = Card test failed.
- 22 = Port test failed.
- 24 = Port interrupt line 0 disabled.
- 25 = Port interrupt line 1 disabled.
- 26 = Port interrupt line 2 disabled.
- 27 = Port interrupt line 3 disabled.



## Basic Commands

|          |                                                                                                   |
|----------|---------------------------------------------------------------------------------------------------|
| CMAJ     | Clear major alarm, and reset power fail transfer.                                                 |
| CMIN     | Clear the minor lamp on a system basis                                                            |
| CMIN ALL | Clear minor alarm indication on all attendant consoles                                            |
| CMIN c   | Clear minor alarm indication on attendant consoles for customer c (not applicable for Release 22) |
| MIDN     | Run midnight routines after LD 135 is aborted and TTY is logged out.                              |
| STAT CPU | Get the status and core numbers for both CPs.                                                     |
| STAT MEM | Print amount of configured memory.                                                                |

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## Alphabetical list of commands

| Command  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CMAJ     | Clear major alarm, and reset power fail transfer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| CMIN     | Clear the minor lamp on a system basis.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| CMIN ALL | Clear minor alarm indication on all attendant consoles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| CMIN c   | Clear minor alarm indication on attendant consoles for customer c. (not applicable for Release 22)                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| MIDN     | Run midnight routines after LD 135 is aborted and TTY is logged out.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| STAT CPU | <p>Get the status and core numbers for both CPs. Possible responses are:</p> <p>ENBL = CP is running<br/>IDLE = CP is in standby<br/>DSBL = CP is disabled</p> <p>If the status is DSBL, one of the following OOS reasons is printed:</p> <p>0 = CP card local bus parity threshold exceeded<br/>1 = CP card sanity timeout threshold exceeded<br/>10 = Secondary CP is not accessible<br/>16 = Secondary CP has a major fault</p> <p>This command also prints out the results of the latest self-test, and the position of the MAINT/NORM switch.</p> |
| STAT MEM | Print amount of configured memory                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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# LD 135

Page 840 of 848    Alphabetical list of commands

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## LD 137—Core Input/Output Diagnostic

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LD 137 provides SSC related diagnostic and maintenance information. Some commands in LD 37 can also be used. Refer to that program.

LD 137 provides a means of performing the following function.

— displaying the Security Device Identification of the Security Dongle

When a status appears disabled, one or more Out of Service (OOS) messages may appear. Listed below are the possible OOS messages:

- Unexpected interrupt fault monitor threshold exceeded
- Fault interrupt fault monitor threshold exceeded
- Processor exception fault monitor threshold exceeded
- ASIC interrupt fault monitor threshold exceeded
- Unrecognized error fault monitor threshold exceeded
- General event interrupt fault monitor threshold exceeded

## Basic Commands

|               |                                                                                        |
|---------------|----------------------------------------------------------------------------------------|
| DIS ELNK      | Disable the ethernet link on the SSC pack                                              |
| ENL ELNK      | Enable the ethernet link on the SSC pack                                               |
| ENL HOST n    | Add a host to run time host table                                                      |
| SDID          | Display Security Device Identification of Security Dongle(s)                           |
| STAT          | Get status of Ethernet.                                                                |
| STAT ELNK     | Display status of the ethernet link on the active SSC pack whether enabled or disabled |
| STAT HOST     | Display current run time host table status                                             |
| TEST ELNK INT | Test internal loop-back on Ethernet link                                               |
| TEST ELNK EXT | Test external loop-back on Ethernet link                                               |
| TEST ELNK TDR | Test the Time Domain Reflectometry                                                     |
| TTY x         | Test TTY x                                                                             |

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## Alphabetical list of commands

| Command    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Pack/Rel |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| DIS ELNK   | <p>Disable the ethernet link on the active SSC pack.</p> <p>An attempt is made to disable the Ethernet link. When the link is disabled, all activities will be terminated. The system displays <b>OK</b> to indicate that the link is disabled or <b>FAIL</b> to indicate that the link could not be disabled.</p>                                                                                                                                                                                                                                                                                                                          | basic-22 |
| ENL ELNK   | <p>Enable the ethernet link on the active SSC pack.</p> <p>If the Ethernet link is down, entering this command will cause an attempt to restore the Ethernet link to normal operation state. However, if the system cannot successfully restore the link, the Ethernet link will remain disabled.</p> <p>If the link was already up, this command does not affect the current operation of it. The system displays <b>OK</b> to indicate that the link is now enabled or <b>FAIL</b> to indicate that the link could not be enabled.</p>                                                                                                    | basic-22 |
| ENL HOST n | Add a host to run time host table.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | basic-22 |
| SDID       | Display Security Device Identification of Security Dongle(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | basic-23 |
| STAT       | <p>Get status of Ethernet.</p> <p>If Ethernet is disabled, the status (enabled or disabled) is displayed along with an OOS message.</p> <p>One of the following OOS messages may appear:</p> <ul style="list-style-type: none"> <li>• Unexpected interrupt fault monitor threshold exceeded</li> <li>• Fault interrupt fault monitor threshold exceeded</li> <li>• Processor exception fault monitor threshold exceeded</li> <li>• ASIC interrupt fault monitor threshold exceeded</li> <li>• Unrecognized error fault monitor threshold exceeded</li> <li>• General event interrupt fault monitor threshold exceeded</li> <li>•</li> </ul> | basic-18 |

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
|               | <ul style="list-style-type: none"> <li>• CMDU out-of-service</li> <li>• Hard disk read error</li> <li>• Hard disk write error</li> <li>• Hard disk drive error</li> <li>• CMDU does not respond, the disk drive may be missing</li> <li>• CMDU has been disabled by the craftsperson</li> <li>• CMDU is disabled because the IOP is out-of-service</li> </ul>                                                                                                                                                        |          |
| STAT ELNK     | <p>Display status of the ethernet link on the active SSC pack whether enabled or disabled. The Ethernet address of this SSC is also displayed.</p> <p>If the ethernet link is disabled, an OOS reason will be displayed containing the following information:</p> <pre> ELNK           ENABLED Ethernet (In unit number 0): Host: aaaxxx Internet address:  xx.xxx.xx.xxx Netmask:  xxxxxxxxxx ; Subnetmask: xxxxxxxxxx xxx packets received ; xxx packets sent x input errors ; x output errors x collisions </pre> | basic-22 |
| STAT HOST     | Display current run time host table status.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | basic-22 |
| TEST ELNK EXT | <p>Test the external-loop back on Ethernet link.</p> <p>The result displayed can be either: <code>PASS</code> or <code>FAIL</code>. A pass indicates that the system can transmit its own transmitted packet and a fail means the opposite.</p>                                                                                                                                                                                                                                                                      | basic-22 |
| TEST ELNK INT | <p>Test the internal-loop back on Ethernet link.</p> <p>The result displayed can be either: <code>PASS</code> or <code>FAIL</code>. A pass indicates that the system can receive its own transmitted packet and a fail means the opposite.</p>                                                                                                                                                                                                                                                                       | basic-22 |
| TEST ELNK TDR |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | basic-22 |

### Test the Time Domain Reflectory

The displayed result is used to determine the location of suspected cable faults. A confirm message is displayed to ask the user to enter YES or NO. The entry YES tells the system to stop the Ethernet communication and perform a DTR. The entry NO tells the system to ignore the command.

The Ethernet link remains disabled after this test. The user must enable it by command ENL ELNK.

TTY x

Test TTY x. Response is:

basic-18

ABCDEFGHIJKLMNOPQRSTUVWXYZ

0123456789"#\$%\*!&(<>-.:,.? READY FOR INPUT

Anything entered on the keyboard will be echoed until END is input.

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## LD 143—Customer Configuration Backup and Restore

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### Basic commands

|         |                           |
|---------|---------------------------|
| UPGRADE | Perform upgrade           |
| XBK     | Remote backup database    |
| XRT     | Remote restore database   |
| XSL     | Remote sysload the system |
| XVR     | Remote verify database    |

---

## Alphabetical list of commands

| Command | Description                                                                                                          |
|---------|----------------------------------------------------------------------------------------------------------------------|
| XBK     | Remote backup database<br>Backup the configuration files from the primary flash drive of the system onto a computer. |
| XRT     | Remote restore database<br>Restore the files from a computer into the primary flash drive of the system.             |
| XSL     | Remote sysload the system<br>Sysload the system from the primary flash drive.                                        |
| XVR     | Remote verify database<br>Verify the files on a computer with the files in the primary flash drive of the system.    |

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# Network and Peripheral Equipment Diagnostic (LD 32)

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## NPR messages

|         |                                                                                                                                         |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------|
| NPR0000 | LD 32 program identifier.                                                                                                               |
| NPR0001 | Illegal character in command.<br><b>Action:</b> Check data and reenter command.                                                         |
| NPR0002 | Wrong number of input parameters for command.<br><b>Action:</b> Check data and reenter command.                                         |
| NPR0003 | Illegal command.<br><b>Action:</b> Check data and reenter command.                                                                      |
| NPR0004 | Loop or group parameter out-of-range.<br><b>Action:</b> Check data and reenter command.                                                 |
| NPR0005 | Shelf parameter out-of-range. Unit 0 to 3 only are allowed.<br><b>Action:</b> Check data and reenter command.                           |
| NPR0006 | Card parameter out-of-range.                                                                                                            |
| NPR0007 | Unit parameter out-of-range.                                                                                                            |
| NPR0008 | Command is valid from SL-1 maintenance set only. Cannot output from a TTY.<br>See trunk diagnostic program or use SL-1 maintenance set. |
| NPR0009 | Unit requested is not a trunk.<br><b>Action:</b> Check data tables for terminal device. Input command STAT L S C.                       |

|         |                                                                                                                                                                                                                                       |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NPR0010 | Command ignored since an active input device would be disabled.<br><b>Action:</b> Abort program and input again from TTY.                                                                                                             |
| NPR0011 | Requested pack is no longer busy and has been disabled. Indication that the DISI L S C command has been completed.                                                                                                                    |
| NPR0012 | Requested trunk is busy.<br><b>Action:</b> Try again later.                                                                                                                                                                           |
| NPR0013 | A serious data error has been detected.<br><b>Action:</b> Contact supplier for further assistance.                                                                                                                                    |
| NPR0014 | Seizure of a RAN or AIOD trunk is not allowed by this program.                                                                                                                                                                        |
| NPR0015 | Specified loop not responding.<br><b>Action:</b> Check enable switch on pack. If fault exists, suspect network, CPU, network extender or PS packs.                                                                                    |
| NPR0016 | Loop already enabled. No action.                                                                                                                                                                                                      |
| NPR0017 | Specified loop is a tone and digit switch.<br><b>Action:</b> Use LD 34 to enable/disable it.                                                                                                                                          |
| NPR0018 | A DISI command is still pending. Only one request allowed at a time.<br><b>Action:</b> Enter END to cancel last DISI and enter new DISI command.                                                                                      |
| NPR0019 | Carrier Remote superloop (LCI) did not respond to the request to disable/enable the RTE superloop.<br><b>Action:</b> Ensure that the LCI is installed and that the H / W disabled switch on its faceplate is in the enabled position. |
| NPR0020 | Specified PS card out of range. Cards 1 to 10 only are allowed.                                                                                                                                                                       |
| NPR0021 | Specified PS card not responding.<br><b>Action:</b> Check enable switch on card. If fault still exists then suspect PS card, CPU or cards connecting the two CPU.                                                                     |
| NPR0022 | PS card already enabled. No action.                                                                                                                                                                                                   |
| NPR0023 | Clock on specified PS card is not responding. See NPR021.                                                                                                                                                                             |
| NPR0024 | Specified PS card is being used by the active CPU for clock.                                                                                                                                                                          |

|              |                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              | <b>Action:</b> Load program 35. Input SCPU. Abort and reload 32. This switches to alternate CPU.                                                                                                                                                                                                                                                                                  |
| NPR0025      | Cannot determine which CPU is active. Indicates either a fault on bus 0 or a faulty CMA which must be repaired before continuing.                                                                                                                                                                                                                                                 |
| NPR0026 n    | <p>PS card card n interrupt fault is present. If no card is identified, the system could not determine the fault source. No PS cards may be enabled while this fault persists.</p> <p>Probable fault causes:</p> <ul style="list-style-type: none"><li>a. PS card(s) (card N, if specified)</li><li>b. active MISC card</li><li>c. other PS card</li><li>d. CE extender</li></ul> |
| NPR0027      | A fault in outgoing signaling on PS being examined.                                                                                                                                                                                                                                                                                                                               |
| NPR0028      | The unit to be tested must be a 500/2500 set with a message waiting lamp.                                                                                                                                                                                                                                                                                                         |
| NPR0029      | The unit specified is either maintenance busy or busy.                                                                                                                                                                                                                                                                                                                            |
| NPR0030      | The unit to be tested is unequipped.                                                                                                                                                                                                                                                                                                                                              |
| NPR0031 loop | <p>Loop is a remote loop. ENLL and DISL not allowed.</p> <p><b>Action:</b> Use LD 53 (2.0 Mb/s RPE) to bring loop L up and down.</p>                                                                                                                                                                                                                                              |
| NPR0032      | <p>The card does not respond.</p> <p><b>Action:</b> Try again.</p>                                                                                                                                                                                                                                                                                                                |
| NPR0036      | Peripheral Signaling card is already disabled.                                                                                                                                                                                                                                                                                                                                    |
| NPR0050      | That command is only valid for superloops.                                                                                                                                                                                                                                                                                                                                        |
| NPR0051      | That command is not valid for superloops.                                                                                                                                                                                                                                                                                                                                         |
| NPR0070      | <p>Specified equipment could not be enabled due to the extender being disabled.</p> <p><b>Action:</b> Use LD 35 to enable extender.</p>                                                                                                                                                                                                                                           |
| NPR0080      | Peripheral Controller number is out-of-range (1-95).                                                                                                                                                                                                                                                                                                                              |
| NPR0081      | Peripheral Controller requested is not defined.                                                                                                                                                                                                                                                                                                                                   |

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| NPR0082           | Peripheral Controller is already enabled.                                                                                                                                                                   |
| NPR0083           | Cannot find an enabled Network Card that is connected to the Controller.<br><b>Action:</b> Enable one or both of the Network Cards and try again.                                                           |
| NPR0084           | Cannot send message to Network Card.<br><b>Action:</b> Wait and retry the command later. If this error occurs again check the Network Card and associated cabling.                                          |
| NPR0085           | That command is not valid for Network/DTR Card (NT8D18).<br><b>Action:</b> Use the DISL/ENLL commands instead.                                                                                              |
| NPR0086           | Superloop numbers must be a multiple of 4.                                                                                                                                                                  |
| NPR0087           | The NT8D PE shelf is either unoccupied by superloops or contains bad superloop numbers. There is a possible data corruption in the Controller block.<br><b>Action:</b> Contact the supplier for assistance. |
| NPR0209           | Customer nonexistent.<br><b>Action:</b> Verify data. Command CMIN ALL will clear all minor alarms.                                                                                                          |
| NPR0210           | TTR unit request out-of-range (SD=0, DD=0,2, QD=0,2,4,6).                                                                                                                                                   |
| NPR0300 l s c (u) | The specified loop, shelf, card and/or unit cannot be tested because it is disabled.                                                                                                                        |
| NPR0301 loop      | Loop is a Digital Trunk Interface or Primary Rate Interface.<br><b>Action:</b> Use LD 60.                                                                                                                   |
| NPR0302           | Conference loop.<br><b>Action:</b> Use LD 38.                                                                                                                                                               |
| NPR0303           | An unrecognizable status code has been sent. Undefined Link/DCHI state.                                                                                                                                     |
| NPR0310           | Receive micro of ISDL memory fault.                                                                                                                                                                         |
| NPR0311           | Receive micro of ISDL lost a message.                                                                                                                                                                       |
| NPR0314           | Transmit micro of ISDL memory fault.                                                                                                                                                                        |
| NPR0315           | Transmit micro of ISDL output queue problem lost messages.                                                                                                                                                  |
| NPR0317           | ISDL card reset.                                                                                                                                                                                            |

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| NPR0318 | No response from ISDLC card.                                                                                                                                                                                                                                                                                                                         |
| NPR0319 | <p>All units on the card are enabled. Self test of ISDLC card is not performed as one or more units on the ISDLC card are busy.</p> <p><b>Action:</b> If self test is mandatory, disable the card first.</p>                                                                                                                                         |
| NPR0320 | This command is only allowed for ISDLC card.                                                                                                                                                                                                                                                                                                         |
| NPR0321 | That command is only allowed for M3000 sets.                                                                                                                                                                                                                                                                                                         |
| NPR0325 | Cannot perform card self test because one or more units are busy.                                                                                                                                                                                                                                                                                    |
| NPR0326 | No response from card. Retry the command.                                                                                                                                                                                                                                                                                                            |
| NPR0327 | <p>No response from the Network Card. Retry the command several times.</p> <p><b>Action:</b> If the problem persists, check the Network Card and associated cabling.</p>                                                                                                                                                                             |
| NPR0328 | The superloop must be disabled before using that command.                                                                                                                                                                                                                                                                                            |
| NPR0329 | <p>The card self test failed. The card was not enabled.</p> <p><b>Action:</b> Try to enable the card again. If the problem persists, replace the card.</p>                                                                                                                                                                                           |
| NPR0330 | <p>No acknowledgment returned for a message sent to the Network Card/Controller (NT8D04/NT8D01). The command has been terminated.</p> <p><b>Action:</b> Retry the command later. If the problem persists, contact supplier.</p>                                                                                                                      |
| NPR0331 | <p>Timeout waiting for Peripheral Software Download (PSDL) to complete the download function.</p> <p><b>Action:</b> Check SDL messages.</p>                                                                                                                                                                                                          |
| NPR0332 | Specified Peripheral Software (PSW) version number is out of range (1-99).                                                                                                                                                                                                                                                                           |
| NPR0333 | <p>Specified Peripheral Software (PSW) version (1-99) not found on the mass storage device.</p> <p><b>Action:</b> Use LD 22 to determine the available PSW versions.</p>                                                                                                                                                                             |
| NPR0334 | Peripheral Software Download (PSDL) failure.                                                                                                                                                                                                                                                                                                         |
| NPR0500 | <p>The unit has failed the PBXT test. There are several set states that would prevent successful completion of the test, e.g., ringing, set is off-hook.</p> <p><b>Action:</b> Check for ERR500 messages that indicate the same unit. If ERR500 messages do not indicate this unit to be in trouble, try the test again. If the fault indicates:</p> |

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1. only one unit, suspect a faulty lamp in the set
2. all units on one card, suspect a faulty line card.

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| NPR0501 | Cannot print telephone ID because the TN is not equipped, or the TN is not a voice TN on a Meridian Modular set.                                                                                                                                                                      |
| NPR0502 | No call registers available for IDU.                                                                                                                                                                                                                                                  |
| NPR0503 | Response timeout from IDU (2 seconds).                                                                                                                                                                                                                                                |
| NPR0504 | Command not allowed for Conference/TDS/MFS cards. For TDMF loops use LD 34, or LD 46. For conference loops, use LD 38.                                                                                                                                                                |
| NPR0505 | <p>Superloop Network or Controller card has some problems.</p> <p><b>Action:</b> Check the card and its associated cable and repeat the command. If the problem persists, pull the card and plug it back in. If the problem persists on the same command again, replace the card.</p> |
| NPR0506 | Extended shelf is not equipped.                                                                                                                                                                                                                                                       |
| NPR0508 | APNSS virtual loops can not be disabled.                                                                                                                                                                                                                                              |
| NPR0509 | DSL configuration download failed.                                                                                                                                                                                                                                                    |
| NPR0510 | DSL is already enabled.                                                                                                                                                                                                                                                               |
| NPR0511 | Since this shelf contains at least one BRI line card, one must wait 45 seconds before enabling the shelf/loop.                                                                                                                                                                        |
| NPR0512 | A command is in progress. No input is allowed except aborting.                                                                                                                                                                                                                        |
| NPR0514 | The software failed to enable the unit.                                                                                                                                                                                                                                               |
| NPR0515 | The BRI line card did not send an activation acknowledgment for the DSL(s).                                                                                                                                                                                                           |
| NPR0516 | The BRI line card selftest failed to be invoked.                                                                                                                                                                                                                                      |
| NPR0517 | Line card selftest failed. Line card enabling sequence is aborted. (Same as NPR329).                                                                                                                                                                                                  |
| NPR0519 | No response from the ISDN BRI line card.                                                                                                                                                                                                                                              |
| NPR0522 | MISP not responding. Aborting command.                                                                                                                                                                                                                                                |
| NPR0533 | The MISP application did not acknowledge the requested "Line Card State Change".                                                                                                                                                                                                      |

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| NPR0534 | The MISP application did not acknowledge the requested "DSL State Change".                                                                      |
| NPR0551 | Invalid message or invalid environment in which to send the message to the MISP.                                                                |
| NPR0555 | Expedited output queue is full.                                                                                                                 |
| NPR0556 | The MISP output buffer is not available, (possibly because the MISP has not read off the previous output message yet).                          |
| NPR0561 | Only valid for MISP and superloops.                                                                                                             |
| NPR0562 | Cannot send message to the line card.                                                                                                           |
| NPR0570 | Cannot read the applications' information blocks from the MISP card.                                                                            |
| NPR0600 | Peripheral Signaling card cannot be disabled if DTCS is enabled.                                                                                |
| NPR0601 | Cannot convert a non-terminal loop TN. This command is intended for terminal loops only.                                                        |
| NPR0605 | That application is not configured on this MISP.                                                                                                |
| NPR0606 | DSL needs to be in RELEASED state.                                                                                                              |
| NPR0607 | DSL needs to be in ESTABLISHED state.                                                                                                           |
| NPR0608 | DSL needs to be in TEST mode.                                                                                                                   |
| NPR0609 | DSL needs to be in REMOTE LOOPBACK mode.                                                                                                        |
| NPR0610 | DSL needs to be ENABLED.                                                                                                                        |
| NPR0611 | DSL configuration is not TIE trunk type, or Meridian 1 interface type.                                                                          |
| NPR0612 | Application on MISP is disabled.                                                                                                                |
| NPR0620 | Not a BRI Line Card.                                                                                                                            |
| NPR0621 | Not a valid Trunk DSL.                                                                                                                          |
| NPR0622 | Misp loop is disabled.                                                                                                                          |
| NPR0623 | Trunk DSL is enabled but released (Is in code already).                                                                                         |
| NPR0624 | A command in LD 32 is pending completion.<br><b>Action:</b> Wait for it to finish, or enter two asterisks (**) to abort the Overlay completely. |
| NPR0626 | Invalid case value (e.g. INTPM, PARPM,...).                                                                                                     |

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| NPR0627 | Failed to get Interface Type.                                                                                        |
| NPR0628 | Failed to get Interface TN.                                                                                          |
| NPR0629 | MPH OVL PTR is NIL.                                                                                                  |
| NPR0630 | Protected loop PTR is NIL.                                                                                           |
| NPR0631 | MPH NET IFC PTR is NIL.                                                                                              |
| NPR0632 | USID number out-of-range (enter 0-15).                                                                               |
| NPR0633 | B-channel number out-of-range (enter 1 or 2).                                                                        |
| NPR0634 | Protected card PTR is NIL.                                                                                           |
| NPR0635 | That must be a BRI line card.                                                                                        |
| NPR0636 | Protected line PTR is NIL.                                                                                           |
| NPR0637 | That must be a digital telephone.                                                                                    |
| NPR0638 | FUNC DATA PTR returned NIL PTR.                                                                                      |
| NPR0639 | BRI USID MAPPTR is NIL.                                                                                              |
| NPR0640 | That must be an MISP loop.                                                                                           |
| NPR0641 | Invalid MISP TN.                                                                                                     |
| NPR0642 | BRI USID TSPTR is NIL.                                                                                               |
| NPR0643 | Invalid MPH terminal type.                                                                                           |
| NPR0644 | That must be a superloop.                                                                                            |
| NPR0645 | Invalid channel type.                                                                                                |
| NPR0646 | TOD2SEC Timeout waiting for message.                                                                                 |
| NPR0663 | Cannot enable or disable this ISDN BRI line card or DSL because the line card is not associated with a BRSC or MISP. |
| NPR0664 | BRSC Cards do not have units associated with them.                                                                   |
| NPR0665 | This command is not valid on phantom loops, since phantom loops do not physically exist.                             |

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| NPR0666 | <p>Loop must be configured as MISP.</p> <p><b>Action:</b> Re-enter command with a valid MISP loop number.</p>                                                                                                                                                                                               |
| NPR0667 | <p>MISP basecode must be enabled.</p> <p><b>Action:</b> Enable the MISP card using the ENLL 111 command.</p>                                                                                                                                                                                                |
| NPR0668 | <p>The BRIE Application is not configured on the MISP.</p> <p><b>Action:</b> Re-enter command with an MISP loop that has the BRIE application configured.</p>                                                                                                                                               |
| NPR0669 | <p>There was no downloadable Interface defined on the MISP.</p> <p><b>Action:</b> Configure a UIPE Trunk DSL in Overlay 27 and then try again.</p>                                                                                                                                                          |
| NPR0670 | <p>All Interfaces are "active", i.e. there are enabled DSLs of each Interface type. An Interface must be "inactive" before the data can be downloaded.</p> <p><b>Action:</b> Disable the corresponding DSLs, OR, disable the BRIE application by the DISL BRIE 111 command and enter the command again.</p> |
| NPR0671 | <p>Invalid selection.</p> <p><b>Action:</b> Enter one of the choices.</p>                                                                                                                                                                                                                                   |
| NPR0672 | <p>Interfaces is "active", i.e. there are enabled DSLs of this Interface type. An Interface must be "inactive" before the data can be downloaded.</p> <p><b>Action:</b> Disable the corresponding DSLs, OR, disable the BRIE application by the DISL BRIE 111 command and enter the command again.</p>      |
| NPR0673 | <p>UIPE BRI Trunk DSL/Line Card is expected for this command.</p> <p><b>Action:</b> Re-enter command with UIPE BRI Trunk DSL/Line Card TN.</p>                                                                                                                                                              |
| NPR0674 | <p>The specified unit is Out of Service, or may be a console power unit.</p> <p><b>Action:</b> It cannot be enabled or disabled. To change the unit, you must remove it OUT and reenter it New.</p>                                                                                                         |
| NPR0675 | <p>DSL is not of the correct application type or Linecard does not have a DSL of the correct application type for this command.</p> <p><b>Action:</b> Check configuration in LD 27 and re-enter command with DSL/Linecard of the correct application.</p>                                                   |
| NPR0676 | <p>The M1 Companion card must be disabled on the Companion before the card can be removed from the M1.</p>                                                                                                                                                                                                  |

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| NPR0677 | Equipment cannot be enabled due to disabled Tone and Digit Switch (TDS). Use OVL 34 to enable before proceeding.                                       |
| NPR0678 | DSL does not have GF capability.                                                                                                                       |
| NPR0679 | Invalid call reference number.                                                                                                                         |
| NPR0680 | New MFC/MFE/MFK5/MFK6 units on Card 0 can only be enabled by ENLX in LD 34.<br><b>Action:</b> To enable these units, go into LD 34 and perform ENLX 0. |

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## OVL—Overlay Loader

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The Overlay Loader manages the Overlay area in memory that is used to load administration and maintenance programs.

The facility to disable the primary tape unit, if the unit is faulty, is included in the Overlay Loader. The commands to disable the tape unit will be issued only when no other Overlay activity is in progress; for instance, when an abort command is issued preceding the disable command.

Problems and status of the Overlay Loader are indicated in OVL messages.

### OVL messages

|            |                                                                                                                                                                                            |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OVL0000    | This is the Program identifier which indicates that the user has already logged into the system.                                                                                           |
| OVL0001    | Loading already in progress.<br><b>Action:</b> Wait for completion of loading or enter **** to halt loading.                                                                               |
| OVL0003 xx | Requested program xx is not in the tape directory.<br><b>Action:</b> Check if desired program should be in directory. If program should be present, inform manufacturer of defective tape. |
| OVL0004    | Checksum failure.<br><b>Action:</b> Re-enter load request.                                                                                                                                 |
| OVL0005    | Tape unit not ready for use.<br><b>Action:</b> Confirm that tape cartridge is properly seated.                                                                                             |

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| OVL0008        | Unexpected or erroneous data found on tape. Interchange active and backup tapes.<br><b>Action:</b> Re-enter load command.                                                                                                                                 |
| OVL0009        | Tape contains software generic different from that resident in system memory. The programs are not compatible, Overlay program requested was not loaded.<br><b>Action:</b> Replace tape in drive with one used when system was loaded.                    |
| OVL0010        | Overlay program exceeds allowed maximum size. A tape programming error has been made.<br><b>Action:</b> Notify the manufacturer.                                                                                                                          |
| OVL0011 xx MID | System is automatically executing maintenance Overlay xx.<br><b>Action:</b> DO NOT login until these tasks are completed, they may be essential to maintain system integrity. After a few minutes, press the carriage return to recheck system status.    |
| OVL0012        | Incorrect command format.<br><b>Action:</b> Check the command and re-enter the code.                                                                                                                                                                      |
| OVL0013        | Invalid input command.<br><b>Action:</b> Check the command and re-enter the code.                                                                                                                                                                         |
| OVL0014        | Incorrect parameters.<br><b>Action:</b> Check the command and re-enter the code.                                                                                                                                                                          |
| OVL0015        | Password is incorrect.                                                                                                                                                                                                                                    |
| OVL0016        | Allowed limits of password exceeded.                                                                                                                                                                                                                      |
| OVL0017        | Overlay cannot be loaded from a TTY.                                                                                                                                                                                                                      |
| OVL0018        | Password does not have access to this customer.<br>1. OVL020 System has aborted the current Overlay program because another TTY has successfully logged in<br>2. The Overlay area is required because of a system alarm, a system audit or daily routine. |
| OVL0020        | System has aborted the current overlay program because:<br>1. another TTY has successfully logged in                                                                                                                                                      |

2. the overlay area is required because of a system alarm, a system audit or daily routine.

OVL0021 aaa System requires the Overlay area one of the following tasks (aaa):

1. MID — daily midnight routines are scheduled
2. ALRM — system alarm has been triggered
3. AUD — system requires software audit
4. CDR — system requires test of CDR facility
5. SMFR — soft memory failure recovery
6. PBXT — PBXT message waiting lamp tests are scheduled

**Action:** Complete present work as soon as possible and enter \*\*\*\* followed by LOGO.

OVL0022 Manual loading of this program is prohibited.

OVL0023 Loading Overlay program from this TTY is not allowed.

OVL0058 Permanent interrupt condition detected in primary tape. The tape unit has been

OVL0059 Tape Interface card is not responding. Primary tape cannot be enabled until fault is cleared.

OVL0060 History File package not equipped.

OVL0061 A user is active in the Overlay.

OVL0066 Release 1 to Release 2 conversion CR1R2 X09rI7 to R2 conversion C97R2.

OVL0068 Add new NARS/BARS, CDP data to existing customer—BLD1.

OVL0069 Build the DN. Translation base of the new data loaded via BLD1-BLD2.

OVL0070 ATTN admin PBX set service change.

OVL0071 ATTN admin SL-1 set service change.

OVL0073 DTI service change.

OVL0086 S1ESN ESN Overlay 1.

OVL0087 S2ESN ESN Overlay 2.

OVL0088 SCAUT—Authcode Overlay (removed from 24).



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| OVL0090 | S3ESN ESN Overlay 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| OVL0093 | SCTEN service change tenant data blocks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| OVL0099 | Software tool to replace one or more existing global procedure in core with load global.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| OVL0111 | <p>The Overlay area is being used. The data output with the OVL111 are defined below.</p> <ol style="list-style-type: none"> <li>1. OVL111 00 IDLE = System is idle. A login will result in a "" prompt.</li> <li>2. OVL111 xx BKGD = Overlay area is currently executing background task (Overlay nn). A login will result in a "" prompt indicating that background task has been aborted and the Overlay loader is ready for further commands.</li> <li>3. OVL111 00 TTY x = TTY. x has control of the Overlay area. No Overlay program is loaded.</li> <li>4. OVL111 nn TTY x = TTY. x or maintenance set has control of the Overlay area. Overlay program nn is loaded. DO NOT load in until user has been identified and given a chance to complete his task or to stop.</li> <li>5. OVL111 00 SL-1= maintenance set has control of the Overlay area. No Overlay program is loaded.</li> <li>6. OVL111 nn yyy = System is automatically executing a maintenance task.</li> </ol> <p>DO NOT login unless absolutely necessary, until these tasks are completed. They may be essential to maintain system integrity. Recheck system status by pressing the carriage return key again after a few minutes.</p> <p>The value yyy may be:</p> <ol style="list-style-type: none"> <li>1. MID—daily midnight routines are scheduled</li> <li>2. ALRM—system alarm has been triggered</li> <li>3. AUD—system requires software audit</li> <li>4. CDR—system requires test of CDR facility</li> <li>5. PBXT—PBXT message waiting tests</li> <li>6. SMFR—soft memory failure recovery</li> </ol> <p>If the input device is an SL-1 telephone, OVL111 is represented by a busy tone or overflow tone. The telephone can be returned to the call processing mode by going off-hook, then on-hook. This procedure is useful if you do not wish to abort the current Overlay activity.</p> |
| OVL0202 | Route member does not exist.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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| OVL0305   | <p>Bad message received from the System Monitor (NT8D22).</p> <p><b>Action:</b> Use “STAT XSM” command in LD 37 to check the System Monitor status. Check the cabling between the System Monitor and the SDI port.</p>                                                  |
| OVL0306   | <p>This Overlay can not be active during Peripheral Software Download (PSDL).</p> <p><b>Action:</b> 1. Wait until PSDL is complete.</p> <p>2. Use the SUSP command to suspend the PSDL and load the required program (LD xx SUSP). Use SUSP with caution.</p>           |
| OVL0307   | <p>You do not have access to the Resident Debugger (LD 8).</p>                                                                                                                                                                                                          |
| OVL0308   | <p>Incorrect password entered for the Resident Debugger (LD 8).</p>                                                                                                                                                                                                     |
| OVL0309   | <p>You do not have access to that Overlay.</p>                                                                                                                                                                                                                          |
| OVL0310   | <p>With LAPW enabled, maintenance sets are not allowed to load this Overlay.</p>                                                                                                                                                                                        |
| OVL0352   | <p>List requested is not system speed call list (network speed call).</p>                                                                                                                                                                                               |
| OVL0353   | <p>The security cartridge cannot be read, or the cartridge ID does not match the ID in the directory file. LD 135 and LD 137 can still be accessed.</p>                                                                                                                 |
| OVL0354   | <p>Tape ID does not match system ID. Incorrect tape or disk is being used, or there is a system ID cartridge malfunction on MSI. LD 135 and LD 137 can still be accessed.</p>                                                                                           |
| OVL0355   | <p>The directory file cannot be read to obtain the ID for comparison to security and system IDs. LD 135 and LD 137 can still be accessed.</p>                                                                                                                           |
| OVL0400   | <p>Failed log on attempts by incorrect password (PWD1 or PWD2). Output data may be any of the following:</p> <p>Where:</p> <p>x = TTY x is locked out. Too many invalid passwords</p> <p>x y = x failed logins on TTY y</p> <p>TTYx y = TTYx was locked out y times</p> |
| OVL0401   | <p>The Audit Trail buffer is full. It will now start to wrap.</p>                                                                                                                                                                                                       |
| OVL0402   | <p>There is not enough memory for the Audit Trail. It will now start to wrap.</p>                                                                                                                                                                                       |
| OVL0403 x | <p>You have logged on in HOST mode on TTY port x. Other ports will not receive any messages (CDR, BUG, ERR, MTC, SCH or TRF) output to this port.</p>                                                                                                                   |

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# OVL

- OVL0404 x aaa bbb TTY port x is in HOST mode and this TTY will not receive message types: aaa bbb. Where messages types can be one or more of CDR, BUG, ERR, MTC, SCH or TRF. MTC represents all maintenance messages.
- OVL0405 xx Attempt to load an Overlay program xx on A2 disk.  
**Action:** You must restore disks to the hard disk before using the Overlay programs on the A2 disk.
- OVL0406 Low speed link is used by the other terminal.
- OVL0407 xx yy Requested number of cache buffers cannot be allocated. Protected data store is below safety limit. Increase the memory before more cache buffers can be allocated. Where: xx = # buffers requested and yy = # buffers allocated.
- OVL0408 xx Too many priority Overlays. Where: xx = number of priority Overlays which have been removed automatically.
- OVL0409 Initialization of OVL pipe failed.
- OVL0410 No pipe is available for use.
- OVL0411 LD 135, and LD 137 are the only LDs available for task Overlays.
- OVL0412 Cannot spawn the requested Overlay task.
- OVL0413 Cannot kill the Overlay task.
- OVL0414 Send character to Overlay task through pipe failed.
- OVL0415 Displayed after a successful login if the Last Login Identification feature is enabled. It contains the time and date of the last login and the number of failed login attempts. The format is:  
TTYxx nn PWD yyy mm/dd hh:mm  
Where:  
xx = the TTY port number  
nn = number of failed login attempts count since the last login at this port  
yyy = password identification = 1 for PWD1 or 2 for PWD2  
00-99 = indicates LAPW password number between 00 and 99  
mm/dd = last login date hh:mm = last login time
- OVL0416 You cannot monitor this port. Try another port.

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| OVL0417     | Password level is incorrect.<br><b>Action:</b> Login with PWD2 password, or a LAPW password that allows the command.                      |
| OVL0418     | The monitor feature is already in use.<br><b>Action:</b> Use MON OFF to turn the monitoring feature off before using it on another port.  |
| OVL0419     | Send print (SPRT) is already in use.<br><b>Action:</b> Use SPRT OFF to turn the feature off, then use SPRT xx to turn it on another port. |
| OVL0420     | That port is busy, or already logged in.                                                                                                  |
| OVL0421     | That port does not physically exist.                                                                                                      |
| OVL0422     | That TTY port type is not SCH or MTC.                                                                                                     |
| OVL0423     | This is not a logged in port.                                                                                                             |
| OVL0424     | The maximum number of users are already logged in.                                                                                        |
| OVL0425     | You cannot force logout yourself.<br><b>Action:</b> Check the port number when using the FORC command.                                    |
| OVL0426     | There is not enough memory available for the Overlay data area.                                                                           |
| OVL0427     | The disk unit is busy. Try again later.                                                                                                   |
| OVL0428     | Login name and password combination is invalid.<br><b>Action:</b> Check the password and login name and try again.                        |
| OVL0429     | Overlay memory space is in use.                                                                                                           |
| OVL0430     | Send message command is already turned off.                                                                                               |
| OVL0434     | Unable to initialize system message lookup.                                                                                               |
| OVL0435 n   | Invalid lookup type received by help task: n.                                                                                             |
| OVL0436 n m | B-tree read failed for language n, rrn = m                                                                                                |
| OVL0437 n   | Unable to open message file for language n.                                                                                               |

|           |                                                                                                                                           |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------|
| OVL0438 n | Could not open B-tree index file for language n.                                                                                          |
| OVL0439 n | Unable to read B-tree root page for language n.                                                                                           |
| OVL0440 n | B-tree initialization failed for language n.                                                                                              |
| OVL0441   | Help text could not be found for the specified error code.                                                                                |
| OVL0442   | The error code specified is not a valid error code.                                                                                       |
| OVL0443   | Unable to send request.                                                                                                                   |
| OVL0444   | Unable to create help task queue.                                                                                                         |
| OVL0446   | The LON and LOF commands are not applicable to MSDL TTY.                                                                                  |
| OVL0447   | Use LD 135 for Core Common Equipment Diagnostic. LD 35 does not apply.                                                                    |
| OVL0448   | System message lookup is temporarily unavailable.<br><b>Action:</b> Wait 30 seconds and repeat request.                                   |
| OVL0451   | TTY is not a low speed link.                                                                                                              |
| OVL0700   | Resident debug package is not equipped.                                                                                                   |
| OVL0777   | Resident debug package is already loaded.                                                                                                 |
| OVL0778   | LSL with flow type of MAIL is not accessible from a pseudo TTY.                                                                           |
| OVL0779   | There is more than one LSL configured in the system.<br><b>Action:</b> Use AX n, where n is the TTY number of the LSL to be connected to. |

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## SCH—Service Change

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The SCH messages indicate invalid responses, or service change problems caused by a system condition (for example, the time and date is not set). SCH messages are also output when corrupt or invalid data is detected.

### SCH messages

|         |                                                                                                                                                                                                                    |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SCH0001 | TNTRANS failed on remove from core. Corrupted data in memory.<br><b>Action:</b> System should be reloaded. If fault persists, contact manufacturer.<br>Caution: Call processing will be interrupted during reload. |
| SCH0002 | TNTRANS failed on recover workspace.<br><b>Action:</b> System should be reloaded. If fault persists, contact manufacturer.                                                                                         |
| SCH0003 | TNTRANS passes on recover out workspace.<br>Caution: Call processing will be interrupted during reload.                                                                                                            |
| SCH0004 | TNTRANS passes on work to core.                                                                                                                                                                                    |
| SCH0005 | RDB translator passes and fails. Corrupted data in memory.<br><b>Action:</b> System should be reloaded. If fault persists, contact manufacturer.                                                                   |
| SCH0010 | DNXLBLOCK has a pointer flag but no pointer. Corrupted data in memory.<br><b>Action:</b> System should be reloaded. If fault persists, contact manufacturer.                                                       |
| SCH0011 | TN in DNBLOCK fails TNTRANS.                                                                                                                                                                                       |
| SCH0012 | TN in DNBLOCK produces illegal TN type. Corrupted data in memory.<br><b>Action:</b> System should be reloaded. If fault persists, contact manufacturer.                                                            |
| SCH0020 | Illegal attempt to modify existing data.                                                                                                                                                                           |

|                                   |                                                                                                                                                                                                                                                                |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SCH0023                           | No CLIP list is allowed for this customer (CLIP-MAX=0).                                                                                                                                                                                                        |
| SCH0030                           | Digit input instead of alpha input is required.<br><b>Action:</b> Re-enter only numerals.                                                                                                                                                                      |
| SCH0040                           | ROA/MOH does not exist for specified customer.                                                                                                                                                                                                                 |
| SCH0041                           | Invalid range. Not enough digits.                                                                                                                                                                                                                              |
| SCH0050                           | ROA/MOH data block already exists.                                                                                                                                                                                                                             |
| SCH0060                           | Insufficient data entered.                                                                                                                                                                                                                                     |
| SCH0099                           | This message appears when the invalid input is detected by the machine. The actual output may vary, according to the input received.<br><b>Action:</b> Refer to the following examples for possible output.                                                    |
| SCH0099 n?:                       | Input number n out-of-range (0-9999999) for LEC.                                                                                                                                                                                                               |
| SCH0099 n?: 0-7                   | Input number n out-of-range (0-7) for RDNL                                                                                                                                                                                                                     |
| SCH0099 n?: 0-9                   | Input number n out-of-range (0-9)<br><b>Action:</b> Choose a number 0 - 9.                                                                                                                                                                                     |
| SCH0099 XXX                       | XXX is an invalid response. System does not recognize XXX.<br><b>Action:</b> Try again.                                                                                                                                                                        |
| SCH0099 XXX : AAA                 | XXX is an invalid response. System does not recognize XXX.<br>Where: AAA = the system suggestion of a possible match                                                                                                                                           |
| SCH0099 XXX : BBB CC              | Abbreviated response XXX has more than 1 matches. Where:<br>XXX = a non-unique abbreviated response<br>AAA, BBB, and CCCC = responses that match XXX<br>Up to 3 matches are listed and “...” indicates more than 3 matches found.                              |
| SCH0099 XXX? {MIN} - {MAX} {TYPE} | Response XXX is out-of-range. Valid range is specified by {MIN} - {MAX} , where response type is specified by the following:<br>{TYPE} = Characters for character string input<br>{TYPE} = DigitsS for digit string input<br>No {TYPE} specifies numeric input |

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|         |                                                                                                                                                                                     |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SCH0100 | Wrong number of input fields for prompt REQ.                                                                                                                                        |
| SCH0101 | Unable to match input fields with stored mnemonics.                                                                                                                                 |
| SCH0102 | Repeat count out-of-range (2-255).                                                                                                                                                  |
| SCH0103 | ROA or MOA package not provided.                                                                                                                                                    |
| SCH0104 | AWU package not provided.                                                                                                                                                           |
| SCH0105 | Wrong number of parameters.<br><b>Action:</b> Re-enter input.                                                                                                                       |
| SCH0106 | Wrong parameter type.                                                                                                                                                               |
| SCH0107 | There are no available busy lamp fields.                                                                                                                                            |
| SCH0108 | Lamp field array is not included in OPT.                                                                                                                                            |
| SCH0109 | TN is already assigned as an LFTN.                                                                                                                                                  |
| SCH0110 | Wrong number of input fields.<br><b>Action:</b> Prompt MTAR is reprompted. Either press carriage return for default entry of 'NO', or enter one the of the responses 'YES' or 'NO'. |
| SCH0111 | Invalid input.<br><b>Action:</b> Prompt MTAR is reprompted. Either press carriage return for default entry of 'NO', or enter one of the responses 'YES' or 'NO'.                    |
| SCH0112 | Invalid customer number.                                                                                                                                                            |
| SCH0120 | Wrong number of input fields for prompt TN.                                                                                                                                         |
| SCH0121 | Loop not specified in configuration as terminal loop.                                                                                                                               |
| SCH0122 | Loop out-of-range (0-159).                                                                                                                                                          |
| SCH0123 | Shelf out-of-range (0-3 single density, 0-1 double density, 0 quadruple density).                                                                                                   |
| SCH0124 | Card out-of-range (1-10).                                                                                                                                                           |
| SCH0125 | Unit out-of-range 0-3 (SD), 0-7 (DD) or 0-15 (QD).                                                                                                                                  |
| SCH0126 | Station type conflicts with existing card.                                                                                                                                          |
| SCH0127 | Terminal already exists.                                                                                                                                                            |

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|---------|--------------------------------------------------------------------------------------------|
| SCH0128 | Terminal does not exist.                                                                   |
| SCH0129 | Trunk type given is not the same as that in the TN block.                                  |
| SCH0130 | Terminal has conflicting station type.                                                     |
| SCH0131 | Terminal is not primary TN.                                                                |
| SCH0132 | ADM must terminate on unit 1 or 3.                                                         |
| SCH0133 | Too many digits entered for NFCR condition.                                                |
| SCH0134 | Value entered for CRCS is out-of-range.                                                    |
| SCH0135 | System not equipped with NFCR.                                                             |
| SCH0136 | More general condition exists for NFCR.                                                    |
| SCH0137 | NFCR linkage not built for customer.                                                       |
| SCH0138 | NFCR tree does not exist.                                                                  |
| SCH0139 | Cannot add ADM or MDM to existing card unless ADM or MDM already exists on the card.       |
| SCH0141 | Station type conflicts with existing card.                                                 |
| SCH0142 | Terminal already exists.                                                                   |
| SCH0143 | Terminal does not exist or has conflicting station type.                                   |
| SCH0145 | Too many parameters for FRL prompts.                                                       |
| SCH0146 | A larger MAXT value already exists. Once defined a lower value cannot be entered for MAXT. |
| SCH0147 | MAXT value out-of-range (maximum 255).                                                     |
| SCH0148 | A value for MAXT is expected.                                                              |
| SCH0149 | NFCR blocks not cleared. Cannot out CDB.                                                   |
| SCH0150 | Wrong number of input fields for prompt CUST.                                              |
| SCH0151 | Customer number out-of-range.                                                              |
| SCH0152 | Customer data block does not exist.                                                        |

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|---------|---------------------------------------------------------------|
| SCH0153 | Customer data block already exists.                           |
| SCH0154 | No group list exists for customer N.                          |
| SCH0155 | Background terminal must be removed before removing customer. |
| SCH0160 | Wrong number of input fields for prompt ROUT.                 |
| SCH0161 | Route number out-of-range (0-127).                            |
| SCH0162 | Route data block already exists.                              |
| SCH0163 | Route data block does not exist.                              |
| SCH0164 | Cannot remove route data block while trunks still attached.   |
| SCH0165 | Code restriction block already exists.                        |
| SCH0166 | Code restriction block does not exist.                        |
| SCH0167 | Route type is not AIOD.                                       |
| SCH0169 | Illegal digit in DN.                                          |
| SCH0170 | Wrong number of input fields for prompt STEP.                 |
| SCH0171 | Step route number out-of-range (0-31).                        |
| SCH0172 | Invalid step route number/or route number not defined.        |
| SCH0180 | Wrong number of input fields for prompt EXTN.                 |
| SCH0181 | Directory number already exists.                              |
| SCH0182 | Directory number conflicts with existing number.              |
| SCH0183 | Shorter directory number already exists.                      |
| SCH0184 | Loop number conflicts with existing DN loop.                  |
| SCH0185 | Longer directory number already exists.                       |
| SCH0186 | Station type conflicts with existing DNTYPE.                  |
| SCH0187 | DN call arrangement conflicts with existing call arrangement. |
| SCH0190 | Wrong number of input fields for prompt ACOD.                 |

# SCH

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|---------|-----------------------------------------------------------------------|
| SCH0191 | Directory number already exists.                                      |
| SCH0192 | Directory number conflicts with existing number.                      |
| SCH0193 | Number of DNs defined exceeds MNAC.                                   |
| SCH0194 | Attempt to exceed MNAC.                                               |
| SCH0195 | DID routes not allowed for customer in SATT mode.                     |
| SCH0197 | Attendant's primary and secondary TN must be on same card.            |
| SCH0200 | Wrong number of input fields for prompt KLS.                          |
| SCH0201 | Number of key/lamp strips out-of-range (1-7).                         |
| SCH0202 | 5 digit dialing.                                                      |
| SCH0203 | Input format is incorrect.                                            |
| SCH0204 | Entry is not defined.                                                 |
| SCH0205 | Input out-of-range.                                                   |
| SCH0206 | Too many table entries.                                               |
| SCH0207 | OPTM requires a YES response.                                         |
| SCH0208 | Cannot optimize because entry is used.                                |
| SCH0209 | DN out-of-range (LDID/11).                                            |
| SCH0210 | Wrong number of input fields for prompt LHK.                          |
| SCH0211 | Prime directory number out-of-range (0-9 per key/lamp strip).         |
| SCH0215 | RAN route, RAN trunk, or RAN customer does not exist.                 |
| SCH0218 | No device number available for History File, 16 devices used.         |
| SCH0219 | Temporary History File buffer is full. No new messages will be added. |
| SCH0220 | Wrong number of input fields for prompt RTMB.                         |
| SCH0221 | Route number out-of-range (0-31).                                     |
| SCH0222 | Route data block does not exist.                                      |

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|---------|-----------------------------------------------------------------------------|
| SCH0223 | Member number out-of-range (1-126).                                         |
| SCH0224 | Member number already in use.                                               |
| SCH0225 | Route type/station type conflict.                                           |
| SCH0226 | Illegal member number.                                                      |
| SCH0227 | Repeat count out-of-range (2-126).                                          |
| SCH0228 | DN size is out-of-range (0-7).                                              |
| SCH0230 | Wrong number of input fields for prompt PRDN.                               |
| SCH0231 | Directory number does not exist.                                            |
| SCH0232 | Directory number conflicts with existing number.                            |
| SCH0233 | Directory number conflicts with attendant.                                  |
| SCH0234 | Number conflicts with shorter DN already in translator.                     |
| SCH0235 | Number conflicts with longer DN already in translator.                      |
| SCH0236 | Number already assigned to another private member.                          |
| SCH0237 | Number already exists as other than private DN.                             |
| SCH0238 | Directory has conflicting type.                                             |
| SCH0240 | Wrong number of input fields for prompt.                                    |
| SCH0241 | Directory number already exists.                                            |
| SCH0242 | Directory number conflicts with existing number.                            |
| SCH0243 | SETN or SL-1 telephone TN associated with lamp field array must be entered. |
| SCH0244 | TN entered is invalid.                                                      |
| SCH0245 | Both thresholds must be given.                                              |
| SCH0246 | Lower threshold must not exceed upper threshold.                            |
| SCH0247 | Number of calls out-of-range (0-255).                                       |
| SCH0248 | Waiting time out-of-range (0-511).                                          |

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|---------|------------------------------------------------------------------------------------------|
| SCH0249 | Only Y or N allowed for CWBZ.                                                            |
| SCH0250 | Wrong number of input fields for prompt HUNT.                                            |
| SCH0251 | Hunt number conflicts with existing number.                                              |
| SCH0252 | Invalid DN type for HUNT.                                                                |
| SCH0254 | Hunt number defined for hunting not allowed CLS.                                         |
| SCH0255 | Illegal Hunt DN.                                                                         |
| SCH0260 | Wrong number of input fields for prompt NITE, ATDN.                                      |
| SCH0261 | NITE, ATDN, MNDN number conflicts with existing number.                                  |
| SCH0262 | NITE, ATDN, MNDN number conflicts with shorter DN.                                       |
| SCH0263 | Either the NITE, ATDN, MNDN number conflicts with a longer DN, or the DN is not defined. |
| SCH0264 | ATDN: null input not permitted.                                                          |
| SCH0265 | DN is not defined.                                                                       |
| SCH0266 | RLDN: number conflicts with existing number.                                             |
| SCH0267 | DN entered does not exist.                                                               |
| SCH0268 | Two or more non-zero digits are prompted.                                                |
| SCH0270 | Wrong number of input fields for prompt TYPE.                                            |
| SCH0271 | Unable to match input field with stored mnemonics.                                       |
| SCH0272 | Number of inputs CFLP.                                                                   |
| SCH0273 | Not a conference loop.                                                                   |
| SCH0274 | Null input not allowed.                                                                  |
| SCH0275 | Loop number out-of-range 0-159.                                                          |
| SCH0276 | Attempt to assign 2 trunks to one conference.                                            |
| SCH0277 | Conference loop not defined in LD 15 or LD 17.                                           |

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|---------|----------------------------------------------------------------------------------------------------------------------------------|
| SCH0280 | Wrong number of input fields for prompt ICOG.                                                                                    |
| SCH0281 | Unable to match input field with stored mnemonics.                                                                               |
| SCH0285 | VCC DN should be single appearance on SL-1 telephone.                                                                            |
| SCH0290 | Wrong number of input fields for prompt TGAR.                                                                                    |
| SCH0291 | Trunk group access restriction out-of-range (0-15).                                                                              |
| SCH0300 | Wrong number of input fields for prompt RNPG.                                                                                    |
| SCH0301 | Ringing number pickup group number out-of-range (0-255).                                                                         |
| SCH0307 | Wrong number of input fields for prompt.                                                                                         |
| SCH0308 | RPE must be removed from data block before OUT or CHG to terminal loop.                                                          |
| SCH0310 | Wrong number of input fields for prompt SIGL.                                                                                    |
| SCH0311 | Unable to match input field with stored mnemonics.<br><b>Action:</b> Enter 'NET', 'LOC' or {CR}.                                 |
| SCH0312 | Unacceptable signaling for trunk type.                                                                                           |
| SCH0313 | Wrong number of input fields for prompt ANTK.                                                                                    |
| SCH0314 | Invalid number.                                                                                                                  |
| SCH0315 | CED (LD 35) cannot be deleted from midnight routines for SL-1 MS.                                                                |
| SCH0320 | Wrong number of input fields for prompt STAR.                                                                                    |
| SCH0321 | Only applies to RLR trunks.                                                                                                      |
| SCH0324 | Unable to allocate MSDL blocks for DTI loop. System memory must be low. 'Out' the DTI loop, free some data blocks and try again. |
| SCH0330 | Wrong number of input fields for prompt SUPN.                                                                                    |
| SCH0335 | Wrong number of input fields for prompt CMF.                                                                                     |
| SCH0338 | LND is not defined for this customer.                                                                                            |
| SCH0339 | SNA cannot be specified without LNA.                                                                                             |
| SCH0340 | Class of Service is not allowed for this TRK type.                                                                               |

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**Action:** TIE trunks must be IMM start.

SCH0341 Unable to match input field with stored mnemonics.

SCH0342 A group number is not defined for PUA.

SCH0343 VNL cls is acceptable with EAM signaling types only.

**Action:** Set CLS to TRC or NTC.

SCH0344 FNA is not allowed unless hunting is defined.

SCH0345 Incorrect attempt to define CLS = DPIF. Such CLS may only be defined for digital trunks on CDTI2/CSDTI2 cards

SCH0346 DTN not valid for this trunk type.

SCH0347 MFR valid only for CAMA, FGD and M911 trunks.

SCH0348 CAMA (DIP) not valid with route signaling specified.

SCH0349 HTA is not allowed unless Hunting is defined.

**Action:** HNT DN and EHT DN must be defined for HTA/CFTA.

SCH0350 Wrong number of input fields for prompt ANUM.

SCH0351 Attendant number out-of-range (1-15).

SCH0352 Attendant number already in use.

SCH0353 Attendant DN must be defined.

SCH0355 Unable to match input field with stored mnemonics.

SCH0356 CFW or ADL DN size out-of-range.

**Action:** Enter DN length of 4 -31 digits.

SCH0357 Incorrect number of digits entered.

**Action:** Re-enter correct number of digits.

SCH0358 Input is not PAG trunk group access code.

SCH0359 ADL/CFW number exceeds specified length.

**Action:** Enter ADL/CFW DN within configured ADL/CFW DN length size.

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|---------|-------------------------------------------------------------------------------------------------------------------------|
| SCH0360 | Wrong number of input fields for prompt KEY.                                                                            |
| SCH0361 | Key number out-of-range 0-9 per key/lamp strip, 0-10 for M2012 and M3000, 0-8 for M2009, 0-17 for M2018, 0-5 for M2006. |
| SCH0362 | Unable to match input field with stored mnemonics.                                                                      |
| SCH0363 | Key function requires lamp key.                                                                                         |
| SCH0364 | Key function requires 5 state lamp: 0 for busy verify.                                                                  |
| SCH0365 | Speed Call List number out-of-range (0-253).                                                                            |
| SCH0366 | Speed Call List does not exist, or Hot Line list is not defined for TYPE = HTL.                                         |
| SCH0367 | Member number out-of-range (0-127).                                                                                     |
| SCH0368 | No RNPU group defined for RNP key.                                                                                      |
| SCH0369 | Function conflicts with existing call arrangement.                                                                      |
| SCH0370 | Directory number conflicts with DIAL 0.                                                                                 |
| SCH0371 | Shorter directory number already exists.                                                                                |
| SCH0372 | Function not allowed on MIXED directory number.                                                                         |
| SCH0373 | Loop number does not match DN loop. Multiple loop DN restricted in LD 17. Creation or expansion restricted.             |
| SCH0374 | Longer directory number already exists.                                                                                 |
| SCH0375 | DN type conflicts with input DN type.                                                                                   |
| SCH0376 | Function not allowed on private CO line.                                                                                |
| SCH0377 | VCC or SIG not allowed on multiple appearance DN.                                                                       |
| SCH0378 | DN already has maximum number (16) of stations attached.                                                                |
| SCH0379 | Group number out-of-range (0-99).                                                                                       |
| SCH0380 | AWU requires digit display.                                                                                             |
| SCH0381 | Absorption digit or TDG entry out-of-range (0-9).                                                                       |
| SCH0382 | Key 0 or key 1 may not be used for AWU.                                                                                 |

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# SCH

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|---------|----------------------------------------------------------------------------------|
| SCH0383 | Number out-of-range (0-3).                                                       |
| SCH0384 | Incorrect number of digits (0-999).                                              |
| SCH0385 | Wrong number of input fields.                                                    |
| SCH0386 | Number is out-of-range (0-2).                                                    |
| SCH0387 | Unable to match input with stored mnemonics (YES/NO).                            |
| SCH0389 | Incorrect number of input fields.<br><b>Action:</b> Re-enter input.              |
| SCH0390 | Invalid input for new CRB.                                                       |
| SCH0391 | Code restriction number out-of-range (200-999).                                  |
| SCH0392 | Timer not required in this route.                                                |
| SCH0393 | Unable to match input with stored mnemonics.                                     |
| SCH0394 | Incorrect number of input fields.                                                |
| SCH0395 | Input overflow. Number greater than 65536. For PNI, input is greater than 32700. |
| SCH0396 | Input entered is out-of-range (Overlay 16).<br><b>Action:</b> Re-enter input.    |
| SCH0397 | Input out-of-range (0-512) (dial delay option).                                  |
| SCH0398 | Unable to match input with stored mnemonics.                                     |
| SCH0400 | Wrong number of input fields for prompt SPRE.                                    |
| SCH0401 | Directory number already exists.                                                 |
| SCH0402 | Directory number conflicts with existing number.                                 |
| SCH0403 | Wrong number of parameters.                                                      |
| SCH0404 | Wrong number of parameters.                                                      |
| SCH0405 | Wrong parameter type.                                                            |
| SCH0406 | Ran route (or trunk) does not exist.                                             |

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|---------|----------------------------------------------------------------------------------------------------|
| SCH0407 | Wrong number of parameters.                                                                        |
| SCH0408 | Wrong number of parameters.                                                                        |
| SCH0409 | Parameter out-of-range (0-30).                                                                     |
| SCH0410 | Not equipped for RAN.                                                                              |
| SCH0411 | Unable to match input field with stored mnemonics.                                                 |
| SCH0412 | Unable to match input with stored mnemonics.                                                       |
| SCH0413 | Wrong number of input fields.                                                                      |
| SCH0414 | Input out-of-range (0-99).                                                                         |
| SCH0416 | Wrong number of input fields.                                                                      |
| SCH0417 | Illegal input number.                                                                              |
| SCH0418 | Illegal input number.                                                                              |
| SCH0419 | Wrong number of parameters.                                                                        |
| SCH0420 | Incorrect number of input fields.                                                                  |
| SCH0421 | Timer out-of-range.                                                                                |
| SCH0422 | Wrong number of parameters.                                                                        |
| SCH0423 | Unable to match input field with stored mnemonics.                                                 |
| SCH0424 | Wrong number of parameters, or an entry is required.                                               |
| SCH0425 | Unable to match input field with stored mnemonics.                                                 |
| SCH0426 | Wrong number of parameters.                                                                        |
| SCH0427 | Parameters out-of-range (0-7) or (0-15).                                                           |
| SCH0428 | This port is not a CDR device.<br><b>Action:</b> LD 17 should be used to define the proper device. |
| SCH0429 | Illegal number of digits.                                                                          |
| SCH0430 | Invalid directory number entered for ACD NCFW or IFDN.                                             |

**Action:** Try another DN.

|         |                                                                                                   |
|---------|---------------------------------------------------------------------------------------------------|
| SCH0431 | ICI appearance out-of-range (0-9 or 0-19).                                                        |
| SCH0432 | Invalid ICI keyword.                                                                              |
| SCH0433 | CAT is out-of-range (0-99).                                                                       |
| SCH0434 | ID is out-of-range (0-9).                                                                         |
| SCH0435 | Not equipped for ANI.                                                                             |
| SCH0436 | Wrong number of parameters.                                                                       |
| SCH0437 | Unable to identify parameter to given prompt.                                                     |
| SCH0438 | M3C allowed only if signaling is NT5.                                                             |
| SCH0439 | ICOG not valid for this trunk type.                                                               |
| SCH0440 | Wrong number of input fields for prompt LSNO.                                                     |
| SCH0441 | List number out-of-range, or the number of speed call lists is out-of-range. The range is 0-8191. |
| SCH0442 | List number already exists.                                                                       |
| SCH0443 | List does not exist.                                                                              |
| SCH0444 | Route number for ICI does not exist, or route contains no members.                                |
| SCH0445 | Group member (0-9) number out-of-range.                                                           |
| SCH0446 | DN size is out-of-range (4-31).                                                                   |
| SCH0447 | Wrong number of input fields for prompt DNSZ.                                                     |
| SCH0448 | New DN size is smaller than current size.                                                         |
| SCH0449 | List cannot be service changed while active, try later.                                           |
| SCH0450 | Wrong number of input fields for prompt SIZE.                                                     |
| SCH0451 | Speed call list size illegal (1-1000).                                                            |
| SCH0452 | List size is too long for given DN size.                                                          |

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|---------|---------------------------------------------------------------------------------------------------------------------|
| SCH0453 | New list size is smaller than current size.                                                                         |
| SCH0454 | Customer list for group n does not exist.                                                                           |
| SCH0455 | Group is not defined.                                                                                               |
| SCH0456 | Group already exists.                                                                                               |
| SCH0457 | Wrong number of input fields for GRNO.                                                                              |
| SCH0458 | Group number out-of-range (0-63).                                                                                   |
| SCH0459 | Group member does not exist.                                                                                        |
| SCH0460 | Wrong number of fields in input.                                                                                    |
| SCH0461 | Key number out-of-range (0-size).                                                                                   |
| SCH0462 | Too many digits in input field (max 15).                                                                            |
| SCH0463 | Attempted to enter a RAN route that was not previously defined as AWR in the AUX_CUST_DATA_BLOCK.                   |
| SCH0464 | RAN or Conference loop cannot be removed or changed while Wake Up calls are in progress.                            |
| SCH0465 | Wrong number in input field for AWU.                                                                                |
| SCH0466 | Unable to match input with stored mnemonics (YES/NO, {CR}, X).                                                      |
| SCH0467 | RANF and RAN1 must be defined for all cases.<br><b>Action:</b> RAN2 must be defined if R2BN is different from R2ED. |
| SCH0468 | Attempted to remove a nonexistent AUX_CUST_BLK.                                                                     |
| SCH0469 | Second RAN hr/min value out-of-range.                                                                               |
| SCH0470 | Wrong number of fields for 2nd RAN (begin or end).                                                                  |
| SCH0471 | Station type conflicts with existing card.                                                                          |
| SCH0472 | Terminal already exists.                                                                                            |
| SCH0473 | SL-1 telephones cannot be moved between loops.                                                                      |
| SCH0474 | Sets cannot be moved between loops.                                                                                 |

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| SCH0475 | Trunk units cannot be moved between loops.            |
| SCH0476 | Cannot move a unit from one loop to another.          |
| SCH0477 | Both values must be given.                            |
| SCH0478 | Lower value must not exceed upper value.              |
| SCH0479 | Flash timer must be less than PBX_DISC_TO.            |
| SCH0480 | Timer value out-of-range (45-768).                    |
| SCH0481 | Route number out-of-range (0-31).                     |
| SCH0482 | Route data block already exists.                      |
| SCH0483 | Code restriction block does not exist.                |
| SCH0484 | Code restriction block already exists.                |
| SCH0485 | No ROA is provided on this RICI key.                  |
| SCH0486 | Wrong number of input fields for prompt PHDT.         |
| SCH0487 | Input field is out-of-range.                          |
| SCH0488 | ROA package not equipped.                             |
| SCH0489 | Second RAN time out-of-range (0-2044).                |
| SCH0490 | Wrong number of input fields for prompt TOCU.         |
| SCH0492 | Customer data block already exists.                   |
| SCH0493 | Customer number out-of-range.                         |
| SCH0494 | NFCR tree already exists.                             |
| SCH0495 | Null not allowed for NFCR tree number except for PRT. |
| SCH0496 | NFCR tree number is outside range (above MAXT).       |
| SCH0497 | NFCR cannot be active for RLS.                        |
| SCH0498 | Entered digit too large for NFCR count field.         |
| SCH0499 | Another parameter expected for FRL/CRCS prompt.       |

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| SCH0500 | Wrong number of input fields for prompt TOLS.                                                                                                                                                                                                     |
| SCH0501 | Speed Call list number out-of-range (0-254).                                                                                                                                                                                                      |
| SCH0502 | Speed Call list already exists.                                                                                                                                                                                                                   |
| SCH0503 | Wrong number of input fields for TOGR.                                                                                                                                                                                                            |
| SCH0504 | Group Call list number out-of-range.                                                                                                                                                                                                              |
| SCH0505 | This group may already be defined as a SL-1 GRC key.<br><b>Action:</b> Check SL-1 sets for this customer.                                                                                                                                         |
| SCH0510 | Wrong number of input fields (Overlay 15).                                                                                                                                                                                                        |
| SCH0511 | Increment out-of-range.<br><b>Action:</b> Enter 0-31, or 0-7 for SST.                                                                                                                                                                             |
| SCH0512 | Decrement out-of-range.<br><b>Action:</b> Enter 0-31.                                                                                                                                                                                             |
| SCH0513 | Minimum waiting time out-of-range (0-127).                                                                                                                                                                                                        |
| SCH0515 | Wrong number of parameters.                                                                                                                                                                                                                       |
| SCH0516 | Wrong type of parameters.                                                                                                                                                                                                                         |
| SCH0517 | Parameters out-of-range (1-15).                                                                                                                                                                                                                   |
| SCH0518 | Not equipped for RAN.                                                                                                                                                                                                                             |
| SCH0519 | Response for RTYP must be AUD.                                                                                                                                                                                                                    |
| SCH0521 | Unable to match input field with stored mnemonics.<br><b>Action:</b> The RCAP prompt in overlay 16 has been answered NDS when QSur QSIG GF are not accessible or with an inappropriate interface configured (e.g. SL 1). Reconfigure accordingly. |
| SCH0523 | Wrong number of input fields or digits for PWD number.                                                                                                                                                                                            |
| SCH0524 | Warning: The active password will be changed.                                                                                                                                                                                                     |
| SCH0525 | Illegally entered password.<br><b>Action:</b> Make sure you enter uppercase letters. When using lower case letters,                                                                                                                               |

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use at least 4 numbers in the password.

SCH0526 Password does not match stored password.

SCH0527 Program number does not exist.

SCH0528 Attempt to remove an unlisted program or add a listed program.

SCH0529 Attempt to remove an unlisted customer or add a listed customer.

SCH0530 Password does not have access to this customer data.

SCH0531 Unable to match input with stored mnemonics.

**Action:** The RCAP prompt in overlay 16 has been answered NDS when QSur QSIG GF are not accessible or with an inappropriate interface configured (e.g. SI 1). Reconfigure accordingly.

SCH0535 Attempted to remove non-existing loop or add existing loop.

SCH0536 Loop must be disabled before removing, or assigning it as an Conference or DTI/ PRI loop.

SCH0537 Memory modules 0 to 1 are required.

SCH0538 Illegal memory configuration due to split option.

SCH0539 Module number already defined as spare.

SCH0540 Spare already defined for this CPU.

SCH0541 Attempt to add memory already in system.

SCH0542 Attempt to remove memory not in system.

SCH0543 Illegal module number for spare.

SCH0544 Module does not exist on this CPU bus.

SCH0545 Unable to match input with stored mnemonics.

SCH0546 Improper response for prompt MTYP.

SCH0547 Unable to match input with stored mnemonics.

SCH0548 Messages already suppressed.

SCH0549 Messages already allowed.

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| SCH0550 | Input out-of-range (50-100).                                                           |
| SCH0551 | Program number out-of-range (30-45).                                                   |
| SCH0552 | Attempt to remove multi-group extender.                                                |
| SCH0553 | System ID number 0-999 out-of-range.                                                   |
| SCH0555 | Time and date package must be equipped.                                                |
| SCH0560 | Wrong number of input fields.                                                          |
| SCH0561 | Unable to match input with stored mnemonics.                                           |
| SCH0562 | Duplicate defined loop.                                                                |
| SCH0563 | Loop must be disabled before removing.                                                 |
| SCH0564 | Attempt to remove a loop with data still on it.                                        |
| SCH0565 | Group number is out-of-range: 0-4, 15.                                                 |
| SCH0566 | Incorrect number of input fields.                                                      |
| SCH0567 | Unable to match input to stored mnemonics.                                             |
| SCH0568 | Illegal extender arrangements.                                                         |
| SCH0569 | Remove/addition of loop during same Overlay pass not allowed.                          |
| SCH0570 | Incorrect number of input fields (3).                                                  |
| SCH0571 | First field was not one of (NEW, OUT, CHG).                                            |
| SCH0572 | Second field was not one of (PRT, TTY, TAP) for machines other than SL-1 MS.           |
| SCH0573 | Device number out-of-range.                                                            |
| SCH0574 | Device specified does not exist.                                                       |
| SCH0575 | Device must be disabled before removing or changing. This is applicable on all phases. |
| SCH0576 | Device already exists.                                                                 |
| SCH0577 | Device specified is not a printer.                                                     |
| SCH0578 | Device does not exist.                                                                 |

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| SCH0579 | Unable to match input with stored mnemonics. Mnemonic is invalid.                                                                                                                                                                                                                                                                         |
| SCH0580 | Mnemonic CDL is not acceptable if other users are specified.                                                                                                                                                                                                                                                                              |
| SCH0581 | Device must be enabled to permit CDL change.                                                                                                                                                                                                                                                                                              |
| SCH0582 | Input out-of-range.                                                                                                                                                                                                                                                                                                                       |
| SCH0583 | Cannot remove this ACD terminal.<br><br><b>Action:</b> One of the following is true for this TTY: It has been defined as an ACD printer for ACD C reports for a customer, or it has been defined as an input/output device for ACD queue status displays. No changes are allowed until a TTY is no longer defined as either of the above. |
| SCH0584 | Mnemonic ACD is not acceptable if other users are specified.                                                                                                                                                                                                                                                                              |
| SCH0585 | Cannot assign own terminal to ACD.                                                                                                                                                                                                                                                                                                        |
| SCH0586 | Customer does not exist.                                                                                                                                                                                                                                                                                                                  |
| SCH0587 | Input is not YES or NO for the CCB and CCBA prompt in the RDB.                                                                                                                                                                                                                                                                            |
| SCH0588 | ACD terminal cannot be both a senior supervisor and printer.                                                                                                                                                                                                                                                                              |
| SCH0589 | Customer has more than one senior supervisor/load manager.                                                                                                                                                                                                                                                                                |
| SCH0590 | Package not equipped.                                                                                                                                                                                                                                                                                                                     |
| SCH0591 | Loop number increment out-of-range (0-159).                                                                                                                                                                                                                                                                                               |
| SCH0592 | Directory number increment out-of-range (4 digits).                                                                                                                                                                                                                                                                                       |
| SCH0593 | Member number increment out-of-range (0-126).                                                                                                                                                                                                                                                                                             |
| SCH0594 | Unable to recover old TN block.                                                                                                                                                                                                                                                                                                           |
| SCH0595 | Unable to remove TN block.                                                                                                                                                                                                                                                                                                                |
| SCH0596 | PMS user type coexists with BGD only.                                                                                                                                                                                                                                                                                                     |
| SCH0597 | No new messages were added to history file since last printing.                                                                                                                                                                                                                                                                           |
| SCH0598 | History File is empty.                                                                                                                                                                                                                                                                                                                    |
| SCH0599 | Invalid user. Cannot access History File.                                                                                                                                                                                                                                                                                                 |
| SCH0600 | Illegal input character.                                                                                                                                                                                                                                                                                                                  |

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| SCH0601 | Warning: The system may Initialize, and data corruption may occur. Out of unprotected data store.                                                                                           |
| SCH0602 | Out of Protected Data (PDATA) storage.<br><b>Action:</b> Increase memory before doing any service change. (A sysload can reduce memory fragmentation and increase usable protected memory.) |
| SCH0603 | Warning: Unprotected data store below safety limit.<br><b>Action:</b> Increase memory before making any service change.                                                                     |
| SCH0604 | Warning: Protected data store below safety limit.<br><b>Action:</b> Increase memory before making any service change.                                                                       |
| SCH0605 | Not enough protected data store to allocate History File. Followed by requested size and actual size allocated.                                                                             |
| SCH0606 | LND option package restricted.                                                                                                                                                              |
| SCH0607 | Remove DTI clock controller loop first.                                                                                                                                                     |
| SCH0610 | Multi-customer option package restrict.                                                                                                                                                     |
| SCH0611 | Option package not equipped.                                                                                                                                                                |
| SCH0612 | AIOD package restricted.                                                                                                                                                                    |
| SCH0613 | {CR} is an invalid input for this prompt.                                                                                                                                                   |
| SCH0614 | Use OUT to remove all users.                                                                                                                                                                |
| SCH0615 | DES input out-of-range (6-digit alphanumeric).                                                                                                                                              |
| SCH0616 | DES input contains an invalid character.                                                                                                                                                    |
| SCH0617 | DES must be entered if LD 10 or LD 11 is new.                                                                                                                                               |
| SCH0618 | No system date exists.                                                                                                                                                                      |
| SCH0620 | Input number out-of-range. (Overlay 15)<br><b>Action:</b> Re-enter input.                                                                                                                   |
| SCH0621 | Service change not allowed from maintenance set.                                                                                                                                            |
| SCH0622 | Wrong number of parameters given.                                                                                                                                                           |

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| SCH0623 | Not enough internal workspace to process this request.                       |
| SCH0624 | Not equipped for MUSIC.                                                      |
| SCH0625 | Route specified is not a MUSIC route.                                        |
| SCH0626 | Key assignment conflicts with CLS (LND or SND).                              |
| SCH0630 | Wrong number of parameters.                                                  |
| SCH0631 | Invalid command.                                                             |
| SCH0632 | System conversion error message.<br><b>Action:</b> Contact the manufacturer. |
| SCH0633 | System conversion error message.<br><b>Action:</b> Contact the manufacturer. |
| SCH0634 | System conversion error message.<br><b>Action:</b> Contact the manufacturer. |
| SCH0635 | System conversion error message.<br><b>Action:</b> Contact the manufacturer. |
| SCH0636 | System conversion error message.<br><b>Action:</b> Contact the manufacturer. |
| SCH0637 | System conversion error message.<br><b>Action:</b> Contact the manufacturer. |
| SCH0640 | Incorrect number of parameters.                                              |
| SCH0641 | Loop number out-of-range (0-159).                                            |
| SCH0642 | Loop not defined in the configuration.                                       |
| SCH0643 | Loop shelf not defined in the configuration.                                 |
| SCH0644 | Attempt to exchange local and remote shelves.                                |
| SCH0645 | Incorrect number of parameters.                                              |
| SCH0647 | Shelf number out-of-range (0-3).                                             |

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| SCH0648 | Card number out-of-range (1-10).                      |
| SCH0649 | Attempt to move card more than once.                  |
| SCH0650 | Mnemonic TO not entered.                              |
| SCH0651 | Message Waiting package not equipped.                 |
| SCH0652 | MCD key must be assigned to key 0.                    |
| SCH0653 | Key 0 must be defined as MCD to assign MIK/MCK.       |
| SCH0654 | MIK/MCK cannot be assigned to key 0.                  |
| SCH0655 | MWK cannot be key 0.                                  |
| SCH0656 | MWK cannot be assigned because telephone has MCD key. |
| SCH0657 | Message center option must be enabled in LD 15.       |
| SCH0658 | Invalid DN type for MC DN.                            |
| SCH0659 | MWK key already defined for this station.             |
| SCH0660 | Group DND package restriction.                        |
| SCH0661 | Incorrect number of parameters.                       |
| SCH0662 | Unable to match input with stored mnemonics.          |
| SCH0663 | Group number out-of-range (0-99).                     |
| SCH0664 | Group does not exist.                                 |
| SCH0665 | Group already exists.                                 |
| SCH0668 | Group already has maximum number of items (127).      |
| SCH0669 | Group contains secondary group.                       |
| SCH0670 | DN does not exist.                                    |
| SCH0671 | DN is not a station.                                  |
| SCH0672 | Sub-group does not exist.                             |
| SCH0673 | DN or sub-group to be removed is not found.           |

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| SCH0674 | Group cannot contain itself as a member.                  |
| SCH0675 | Group cannot contain itself as a member.                  |
| SCH0676 | Group cannot be it's own subgroup.                        |
| SCH0681 | Invalid response to REQ prompt.                           |
| SCH0682 | No customer has route selection for ANI yet.              |
| SCH0683 | Protected memory is running low.                          |
| SCH0684 | The response to a TYPE prompt must be RSA.                |
| SCH0685 | CUST may be null only when request is PRT.                |
| SCH0686 | Response to CUST out-of-range 0-31.                       |
| SCH0687 | NEW request made for a customer who already has RS-ANI.   |
| SCH0688 | Specified customer does not have RS-ANI.                  |
| SCH0689 | RS-ANI access code (RSAC) may not begin with digit 0.     |
| SCH0690 | Given RSAC conflicts with another existing access code.   |
| SCH0691 | RSAC response null during a NEW request.                  |
| SCH0692 | Invalid null response to 0-RT, 0+RT, 1RT, or CORT prompt. |
| SCH0693 | No such trunk route access code exists.                   |
| SCH0694 | Special purpose trunks cannot be used for RS-ANI.         |
| SCH0695 | Too many digits in access code.                           |
| SCH0696 | Access code must specify a local (CO) trunk group.        |
| SCH0697 | Unable to get protected memory. DN tree may become bad.   |
| SCH0698 | Illegal attempt to modify existing data.                  |
| SCH0699 | RS-ANI package not present.                               |
| SCH0700 | ACD can only be for key 0.                                |
| SCH0701 | Input must be one of (NEW, OUT, CHG, PRT, END).           |

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| SCH0702 | Wrong number of input fields for prompt.                                                        |
| SCH0703 | Null input not permitted.                                                                       |
| SCH0704 | Input should be ACD/SCB.                                                                        |
| SCH0705 | Unable to find an ACD block.                                                                    |
| SCH0706 | Shorter Directory Number already exists.                                                        |
| SCH0707 | DN conflicts with existing number.                                                              |
| SCH0708 | DN conflicts with existing longer number.                                                       |
| SCH0709 | ACD DN must exist for CHG, OUT, PRT commands.                                                   |
| SCH0710 | ACD list is full.                                                                               |
| SCH0711 | ACD DN must not exist for NEW command.                                                          |
| SCH0712 | ACD LIST does not exist. Data corrupted.<br><b>Action:</b> Perform SYSLOAD.                     |
| SCH0713 | ACD block must exist. Data corrupted.<br><b>Action:</b> Perform SYSLOAD.                        |
| SCH0714 | ACD DN and ACD block already exist for this customer.                                           |
| SCH0715 | Unable to locate ACD data for this customer. Data corrupted.<br><b>Action:</b> Perform SYSLOAD. |
| SCH0716 | ACD DN conflict.                                                                                |
| SCH0717 | ACD DN does not exist.                                                                          |
| SCH0718 | ACD-ID (DN) already exists.                                                                     |
| SCH0719 | ACD positions are full. Cannot add more.                                                        |
| SCH0720 | Logical unit is not of required type.                                                           |
| SCH0721 | SCB must exist for CHG, OUT, or PRT command.                                                    |
| SCH0722 | SCB must not exist for NEW command.                                                             |
| SCH0723 | Maximum ACD positions out-of-range (1-240).                                                     |

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| SCH0724 | Route input out-of-range (0-30).                                        |
| SCH0725 | Cannot remove ACD data when ACD positions are active.                   |
| SCH0726 | First/Second RAN time input out-of-range (0-2044).                      |
| SCH0727 | ACD-NITE-CFWD Interflow DN exceeds 16 digits.                           |
| SCH0728 | ACD positions list cannot be decreased in size without removing agents. |
| SCH0729 | ACD list is full.                                                       |
| SCH0730 | DN conflicts with existing number.                                      |
| SCH0731 | Null input not permitted.                                               |
| SCH0732 | Wrong number of input parameters.                                       |
| SCH0733 | Unable to match input field with stored mnemonics.                      |
| SCH0734 | Route number out-of-range (0-30).                                       |
| SCH0735 | Hold Recall timer value out-of-range (0-512).                           |
| SCH0736 | Cannot remove CAS while CAS keys are present.                           |
| SCH0737 | CAS does not exist for this customer.                                   |
| SCH0738 | No further CAS keys allowed for this customer.                          |
| SCH0739 | CAS key data corrupted. Perform SYSLOAD.                                |
| SCH0740 | Incorrect option for chosen route type.                                 |
| SCH0741 | RLR, RLM trunk types must be digitone.                                  |
| SCH0742 | Agent ID out-of-range.                                                  |
| SCH0743 | Extended ACD package not equipped.                                      |
| SCH0744 | Invalid date.                                                           |
| SCH0745 | Telephone must be declared as ACD supervisor.                           |
| SCH0746 | Insufficient parameters given.                                          |
| SCH0747 | Agent DN does not exist.                                                |

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| SCH0748 | Cannot supervise a telephone declared as a supervisor.                    |
| SCH0749 | Key data for ACD key cannot be found for DN specified.                    |
| SCH0750 | Agent already has a supervisor.                                           |
| SCH0751 | ACD package is not equipped.                                              |
| SCH0752 | Key zero cannot be used for this function.                                |
| SCH0753 | TN specified must be an ACD set.                                          |
| SCH0754 | ACD DN must be given.                                                     |
| SCH0755 | ACD DN given is not defined.                                              |
| SCH0756 | Queue for the ACD DN given is full.                                       |
| SCH0757 | Logical Unit not assigned as an ACD device.                               |
| SCH0758 | ACD data for specified ACD DN cannot be found.                            |
| SCH0759 | Digit display package must be equipped.                                   |
| SCH0760 | Display Class of Service must be specified.                               |
| SCH0761 | Key function not valid on ACD supervisor position.                        |
| SCH0762 | Associated DWC key must be previously defined.                            |
| SCH0763 | Another supervisor position has ENI key for specified ACD-DN.             |
| SCH0764 | Threshold value is out-of-range (0-2047).                                 |
| SCH0765 | Valid response to this prompt is YES or NO.                               |
| SCH0766 | Specified route number already exists and is not of the appropriate type. |
| SCH0767 | Supervisor's AGT key must be removed before removing agent.               |
| SCH0768 | No ACD devices assigned.                                                  |
| SCH0769 | Specified ACD device already assigned (to another customer).              |
| SCH0770 | TGAR value is out-of-range (0-15).                                        |
| SCH0771 | COS value is invalid.                                                     |



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| SCH0772 | Wrong number of parameters given.                            |
| SCH0773 | Error in the DISA LIST connections.                          |
| SCH0774 | Incorrect value for TYPE (DIS, AUB, AUT allowed).            |
| SCH0775 | DISA package not equipped.                                   |
| SCH0776 | Authcode package not equipped.                               |
| SCH0777 | Password given is not correct.                               |
| SCH0778 | DN does not exist.                                           |
| SCH0779 | DN already exists.                                           |
| SCH0780 | DN conflicts with an existing DN.                            |
| SCH0781 | DN is required. Response must be given.                      |
| SCH0782 | DN exists but is not a DISA DN.                              |
| SCH0783 | The security code is out-of-range (0-8 digits).              |
| SCH0784 | The auth data block already exists for this customer.        |
| SCH0785 | The auth data block for this customer is not yet defined.    |
| SCH0786 | Authcode length must be specified.                           |
| SCH0787 | Authcode length is out-of-range (0-14).                      |
| SCH0788 | Maximum Authcodes must be specified.                         |
| SCH0789 | Maximum Authcodes is out-of-range (0-4096).                  |
| SCH0790 | Unable to match input with stored mnemonics.                 |
| SCH0791 | out-of-range (0-15).                                         |
| SCH0792 | Auth data block cannot be removed if the table is not empty. |
| SCH0793 | No DISA DNs are defined for this customer.                   |
| SCH0794 | Authcode already exists.                                     |
| SCH0795 | Auth table is full.                                          |

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| SCH0796 | Length of Authcode must match specified length.                                                             |
| SCH0797 | Authcode does not exist.                                                                                    |
| SCH0798 | Authcodes entered do not match those defined in Code and Customer blocks.<br>Not enough digits in Authcode. |
| SCH0799 | MAX cannot be reduced below number of existing codes.                                                       |
| SCH0801 | TYPE is invalid.                                                                                            |
| SCH0802 | Specified loop has no valid TN.                                                                             |
| SCH0803 | Specified loop-shelf has no valid TN.                                                                       |
| SCH0804 | Specified loop-shelf-card has no valid TN.                                                                  |
| SCH0805 | Specified TN is invalid.                                                                                    |
| SCH0807 | TN is valid but unable to match type.                                                                       |
| SCH0808 | TYPE = invalid.                                                                                             |
| SCH0809 | Too many parameters for LUC.                                                                                |
| SCH0811 | System has no unused cards.                                                                                 |
| SCH0812 | Specified loop has no unused cards.                                                                         |
| SCH0813 | Specified loop-shelf has no unused cards.                                                                   |
| SCH0814 | Specified loop-shelf-card is not unused.                                                                    |
| SCH0815 | Specified loop-shelf-card-unit is not unused.                                                               |
| SCH0816 | Invalid month in response to prompt.                                                                        |
| SCH0817 | Invalid day (from) or (to).                                                                                 |
| SCH0818 | Invalid date for History File. Must be mmdd, LAST or ALL.                                                   |
| SCH0821 | System has no unused units.                                                                                 |
| SCH0822 | Specified loop has no unused units.                                                                         |
| SCH0823 | Specified loop-shelf has no unused units.                                                                   |
| SCH0824 | Specified loop-shelf-card has no unused units.                                                              |

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| SCH0825 | Specified TN is not unused.                                                        |
| SCH0826 | History File buffer not defined.                                                   |
| SCH0827 | TN (or part) is valid but no unused units of the requested type were found.        |
| SCH0828 | History File must be output before erasing file.                                   |
| SCH0829 | Invalid date range for History File.                                               |
| SCH0830 | Data entry invalid dd (day 1-31) mm (month 1st 3 letters of month) yy (year xxxx). |
| SCH0831 | No system date exists.                                                             |
| SCH0832 | Incorrect response to PAGE (YES/NO).                                               |
| SCH0833 | DES must be 1-6 alphanumeric characters.                                           |
| SCH0855 | Access code does not exist or is invalid.                                          |
| SCH0856 | Null line not allowed for customer.                                                |
| SCH0857 | Customer has no data blocks of correct type.                                       |
| SCH0858 | Route number does not exist.                                                       |
| SCH0859 | Route number out-of-range.                                                         |
| SCH0860 | No restricted (or allowed) codes found. Block is clear.                            |
| SCH0861 | No route data block or members for the specified route number.                     |
| SCH0862 | No code restriction block for the specified route number or access code.           |
| SCH0877 | Invalid DN. Zeros not allowed.                                                     |
| SCH0878 | Invalid DN. Null line not allowed.                                                 |
| SCH0879 | No TN hunt to specified DN.                                                        |
| SCH0880 | Valid DN found but of wrong type.                                                  |
| SCH0881 | No valid DN can be found starting with specified digits.                           |
| SCH0882 | Invalid DN. Zeroes not allowed.                                                    |
| SCH0883 | Invalid DN type in DN block.                                                       |

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| SCH0886 | Shorter DN number exists.                                          |
| SCH0888 | No customer data block can be found.                               |
| SCH0889 | No route blocks can be found for this customer.                    |
| SCH0890 | ACD DN conflict. Data blocks not correctly set up for this ACD DN. |
| SCH0891 | Low speed link already assigned.                                   |
| SCH0892 | High speed link already assigned.                                  |
| SCH0893 | Low speed link device must be disabled before changes.             |
| SCH0894 | High speed link device must be disabled before changes.            |
| SCH0895 | No other user is allowed for an existing low speed link.           |
| SCH0896 | No other user is allowed for an existing high speed link.          |
| SCH0897 | AUX processor package not equipped.                                |
| SCH0898 | NOO cannot be used with CDL, CAM, ACD, HSL, or LSL.                |
| SCH0899 | NOO must be used with one or more of MTC, TRF, SCH, CTY, or BUG.   |
| SCH0900 | Group number exceeds customer maximum group number.                |
| SCH0901 | SL-1 ring option conflicts with group option.                      |
| SCH0902 | DIG group number conflicts with existing DIG group number.         |
| SCH0903 | DIG list block does not exist.                                     |
| SCH0904 | Null input for DIG group number.                                   |
| SCH0905 | DIG group out-of-range (0-253).                                    |
| SCH0906 | DIG member number conflicts with existing DIG member number.       |
| SCH0907 | Undefined DIG member number.                                       |
| SCH0908 | Null input for DIG member number.                                  |
| SCH0909 | DIG member number out-of-range (0-99).                             |
| SCH0910 | Null input for DIG ring option.                                    |

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| SCH0911 | DIG ring/voice (R/V) option out-of-range. Must be specified.                                          |
| SCH0912 | Bad TN assigned as DIG member number.                                                                 |
| SCH0913 | Total DIG group number cannot be reduced as members are assigned to groups to be removed.             |
| SCH0914 | Conflict between DIG member number and special prefix DN.                                             |
| SCH0915 | CDR port number conflicts with existing CDR port number.                                              |
| SCH0916 | Illegal use of CHG. Disable port in LD 35 and use OUT to remove all users.                            |
| SCH0918 | Maximum number of ACD-ADS customers per system is exceeded.                                           |
| SCH0919 | Maximum number of ACD-ADS agents per system is exceeded.                                              |
| SCH0920 | Translation list number not in LD 15.                                                                 |
| SCH0924 | Agent ID lower or upper bound conflicts with existing data.                                           |
| SCH0925 | New request is invalid for ADS prompt if the customer has been assigned as an ACD package D customer. |
| SCH0926 | CHG/OUT request is invalid for ADS prompt if the customer is not an ACD package D customer.           |
| SCH0927 | The numbered key is less than the total number of agents logged in at this instant.                   |
| SCH0928 | NULL input for LOG prompt is invalid under the NEW request for ADS prompt.                            |
| SCH0929 | Points to the agent ID table is NIL, try again.                                                       |
| SCH0930 | More than one parameter given for ARSQ.                                                               |
| SCH0931 | ARSQ must be null or in the range 0-3.                                                                |
| SCH0932 | ARSR must be YES or NO, or null.                                                                      |
| SCH0933 | More than one parameter given for ARSR.                                                               |
| SCH0934 | More than one parameter given for SPRI.                                                               |
| SCH0935 | SPRI must be null or in the range 0-3.                                                                |
| SCH0936 | More than one parameter given for MPRI.                                                               |

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| SCH0937 | MPRI must be null or in the range SPRI to 3.                                                                   |
| SCH0938 | MPRI cannot be null because SPRI is greater than current value of MPRI.                                        |
| SCH0939 | More than one parameter given for PROM.                                                                        |
| SCH0940 | PROM must be null or in the range 1-999.                                                                       |
| SCH0941 | PROM was given as null but must now be changed because currently PROM is undefined and SPRI is less than MPRI. |
| SCH0942 | More than one parameter given for ERWT.                                                                        |
| SCH0943 | ERWT must be NO, null, or in the range 0-999.                                                                  |
| SCH0945 | Invalid Template type. Should be SL-1 or 500.                                                                  |
| SCH0946 | Invalid unit type.                                                                                             |
| SCH0947 | Illegal INFO response. Should be FRM, DEF, USE, or USS.                                                        |
| SCH0948 | TEMPLATE Number is out-of-range.                                                                               |
| SCH0950 | Prime DN must be a single appearance DN.                                                                       |
| SCH0951 | COS cannot be AAA if AAK key is already assigned.                                                              |
| SCH0952 | AAK key cannot be assigned if COS is AAA.                                                                      |
| SCH0953 | Current DN appears elsewhere and thus may interfere with AAB operation.                                        |
| SCH0954 | AAB package not equipped.                                                                                      |
| SCH0955 | Cannot remove customer data block before removing associated route data blocks.                                |
| SCH0956 | Command is OUT CDB, but units are not all removed.                                                             |
| SCH0960 | Number of Park DN out-of-range.                                                                                |
| SCH0961 | Active park DN cannot be deleted. Try again later.                                                             |
| SCH0970 | ICI key/lamp not assigned in customer data for this station category.                                          |
| SCH0971 | MR terminal assignment out-of-range (0-7).                                                                     |
| SCH0972 | SL-1 station must have CLS = MWA before assigning MR key.                                                      |

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| SCH0979 | DN entered for ROA is not a station DN.                                                                                             |
| SCH0980 | Wrong number of input parameters.                                                                                                   |
| SCH0981 | Threshold out-of-range.                                                                                                             |
| SCH0982 | Threshold must be greater or equal to the previous threshold.                                                                       |
| SCH0983 | TN not existing in CDB.                                                                                                             |
| SCH0984 | Route number is not a RAN/MUS route.                                                                                                |
| SCH0985 | Timing threshold not entered.                                                                                                       |
| SCH0986 | Timing out-of-range (15-500).                                                                                                       |
| SCH0987 | DN assigned out-of-range; maximum 10 for ROA.                                                                                       |
| SCH0988 | Out-of-range (4-12).                                                                                                                |
| SCH0989 | No Speed Call Lists in existence.                                                                                                   |
| SCH0990 | Dialing group number out-of-range (0-7).                                                                                            |
| SCH0991 | Warning: No DN translator set up for customer.                                                                                      |
| SCH0992 | Warning: No attendant DN block setup.                                                                                               |
| SCH0993 | No value assigned to attendant access code.                                                                                         |
| SCH0994 | Speed Call List number out-of-range.                                                                                                |
| SCH0995 | Speed Call List not available to be used as translation list.<br><b>Action:</b> Use LD 18. Speed Calls in 18 must DNSZ4 and SIZE10. |
| SCH0996 | An attempt has been made to remove, change or reassign an attendant supervisory console while in-service observation mode.          |
| SCH0997 | Prime TN of attendant console must be on line (unit) zero of card.                                                                  |
| SCH0998 | May not allocate console on any cards which have any valid stations.<br><b>Action:</b> All TNs on the card must be unused.          |
| SCH0999 | May not allocate SL-1 sets on any card having an attendant console.                                                                 |

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| SCH1000 | Secondary TN must be the second unit which is contiguous to the prime TN (which is on the first line).<br><b>Action:</b> Enter the prime and secondary TN again. |
| SCH1001 | TNTRANS failed on remove from core. Corrupted data in memory.<br><b>Action:</b> System should be reloaded. If fault persists, contact manufacturer.              |
| SCH1100 | Response to EMG must be one of CON, MEM, or NO.                                                                                                                  |
| SCH1101 | Input does not match stored mnemonics.                                                                                                                           |
| SCH1102 | Group number is out-of-range (0-9).                                                                                                                              |
| SCH1103 | Invalid response to prompt GRP.                                                                                                                                  |
| SCH1104 | Controller already exists for this group.                                                                                                                        |
| SCH1105 | Group is full (10 members, 1 controller).                                                                                                                        |
| SCH1107 | CTL for this customer exists already.                                                                                                                            |
| SCH1108 | Trace data does not exist for this customer.                                                                                                                     |
| SCH1109 | Invalid request for call trace data.                                                                                                                             |
| SCH1110 | A DN must be entered for prompt NITE. A night DN cannot be removed, but can                                                                                      |
| SCH1111 | A valid response = YES, NO, or {CR}.                                                                                                                             |
| SCH1112 | TN block already exists and is not another bell.                                                                                                                 |
| SCH1113 | Not a valid Trace DN.                                                                                                                                            |
| SCH1114 | DN is already in list.                                                                                                                                           |
| SCH1115 | DN is not in list.                                                                                                                                               |
| SCH1240 | Invalid response to YES/NO question.                                                                                                                             |
| SCH1241 | Invalid response to YES/NO question).                                                                                                                            |
| SCH1242 | Invalid entry.Out-of-range (0-15).                                                                                                                               |
| SCH1243 | Entry out-of-range (maximum 4 fields).                                                                                                                           |
| SCH1244 | Entry out-of-range (minimum 4 fields).                                                                                                                           |

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# SCH

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| SCH1245 | Only one cadence.                                                                                     |
| SCH1246 | Out-of-range (0-31).                                                                                  |
| SCH1247 | Out-of-range (0-511).                                                                                 |
| SCH1248 | Out-of-range (0-127).                                                                                 |
| SCH1249 | Value equal 0.                                                                                        |
| SCH1250 | Cadence value of 0 is invalid.                                                                        |
| SCH1251 | First Cadence Element Max Exceeded (31).                                                              |
| SCH1252 | Second Cadence Element Max Exceeded (511).                                                            |
| SCH1253 | Third Cadence Element Max Exceeded (127).                                                             |
| SCH1254 | Fourth Cadence Element Max Exceeded (511).                                                            |
| SCH1255 | 2 or 4 Cadence Elements required.                                                                     |
| SCH1256 | Tones and Cadence already exist.                                                                      |
| SCH1257 | Tones and Cadences do not exist.                                                                      |
| SCH1258 | TRB password does not match CDB PSWD or LEVEL2 PSWD.                                                  |
| SCH1259 | First digit must be 0, and second must be less than or equal to 3 for TDS card message compatibility. |
| SCH1260 | Input is out-of-range (0-255).                                                                        |
| SCH1300 | MFC/MFE signal number out-of-range.                                                                   |
| SCH1301 | Invalid MFC/MFE function mnemonic.                                                                    |
| SCH1302 | Function already exists.                                                                              |
| SCH1303 | Attempt to enter Forward Called Number Digit in illegal location.                                     |
| SCH1304 | Wrong number of input fields for GNPO.                                                                |
| SCH1305 | MFC/SS/MFE head table does not exist.                                                                 |
| SCH1306 | MFC Timer out-of-range (1-24 sec.).                                                                   |

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| SCH1307 | MFC Automatic Digits out-of-range (1-4).              |
| SCH1308 | Entry for MFL out-of-range.                           |
| SCH1309 | Remove tables not needed before lesser MAXT.          |
| SCH1310 | Maximum number of MFC/MFE tables out-of-range.        |
| SCH1311 | MFC/SS/MFE table number out-of-range.                 |
| SCH1312 | MFC/SS/MFE table already exists.                      |
| SCH1313 | MFC/SS/MFE table does not exist.                      |
| SCH1314 | Conflicting MFC/MFE route types.                      |
| SCH1315 | MFC End-to-End Signaling code out-of-range.           |
| SCH1316 | Invalid MFC/MFE signaling level.                      |
| SCH1317 | MFC/MFE/MFC package not equipped.                     |
| SCH1318 | MFC DID/MFE package not equipped.                     |
| SCH1319 | MFC TIE package not equipped.                         |
| SCH1320 | MFC/SS/MFE table linked to a route cannot be removed. |
| SCH1321 | Route ICOG must be incoming and MFC table defined.    |
| SCH1322 | Null response not allowed.                            |
| SCH1323 | MFC/MFE level 1 does not exist.                       |
| SCH1324 | Cannot remove MFC/MFE level 1.                        |
| SCH1325 | MFC/MFE level not defined.                            |
| SCH1326 | Incomplete response for RECVor RFUN.                  |
| SCH1327 | Incomplete response for XMIT or RFUN.                 |
| SCH1328 | Invalid input type                                    |
| SCH1329 | Invalid function for this table/level/type.           |
| SCH1330 | Table not deleted in route data.                      |

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| SCH1331 | Response must be either ICT or OGT.                                                                                                               |
| SCH1332 | Outgoing MFC table exists in a DID route.                                                                                                         |
| SCH1333 | Incoming MFC table does not exist in this route.                                                                                                  |
| SCH1334 | Only incoming MFE tables allowed.                                                                                                                 |
| SCH1335 | Only DID routes allowed for MFE tables.                                                                                                           |
| SCH1340 | Invalid response to prompt SCL.                                                                                                                   |
| SCH1341 | 500 set assigned as DIP. Cannot be speed call controller.                                                                                         |
| SCH1420 | Attendant is in conflict with existing DN or special service prefix.                                                                              |
| SCH1480 | Upper flash out-of-range.                                                                                                                         |
| SCH1500 | DN is used elsewhere and cannot be used as an attendant access code.                                                                              |
| SCH1501 | Invalid DN.                                                                                                                                       |
| SCH1502 | No value is assigned to attendant value code.                                                                                                     |
| SCH1503 | Conflict between special function prefix and night number.                                                                                        |
| SCH1504 | Package not equipped.                                                                                                                             |
| SCH1505 | Customer data block may be removed: attached data = route, flexible tones and ringing data, Flexible Feature Code, attendant DN and/or NFCR data. |
| SCH1530 | FTC block already exists.                                                                                                                         |
| SCH1531 | FTC block does not exist.                                                                                                                         |
| SCH1532 | Cannot have code restriction data on TIE trunks.                                                                                                  |
| SCH1539 | Input is invalid for this prompt.                                                                                                                 |
| SCH1540 | FTC class one data already exists.                                                                                                                |
| SCH1541 | FTC class two data already exists.                                                                                                                |
| SCH1542 | FTC class three data already exists.                                                                                                              |
| SCH1543 | FTC class one data does not exist.                                                                                                                |

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| SCH1544 | FTC class two data does not exist.                                          |
| SCH1545 | FTC class three data does not exist.                                        |
| SCH1546 | Response to prompt MTHD must CNT or ANL.                                    |
| SCH1547 | A valid method must be entered.                                             |
| SCH1548 | A maximum must be entered.                                                  |
| SCH1549 | Response to prompt REQ must be NEW, OUT, CHG, REM or END.                   |
| SCH1551 | Response to REQ was NEW. Response to FTC REQ must be NEW                    |
| SCH1552 | Response to prompt REQ must be NEW, OUT, CHG, REM or END.                   |
| SCH1555 | Response to CLS TYPE must be one of ONE, TWO, or THREE.                     |
| SCH1556 | Invalid access code (4 digits maximum).                                     |
| SCH1557 | Too many access codes (maximum 15).                                         |
| SCH1558 | Response to BYPS must be YES or NO.                                         |
| SCH1559 | Response to CLR must be ALLOW or DENY.                                      |
| SCH1560 | Code length out-of-range (must be 3 digits).                                |
| SCH1561 | Code cannot be restricted. Does not match a previously entered access code. |
| SCH1562 | Code cannot be removed. Does not exist in data.                             |
| SCH1564 | Invalid response to CONG. Must be one of BUSY, OVFL, or {CR}.               |
| SCH1571 | Software error.<br><b>Action:</b> Contact manufacturer.                     |
| SCH1700 | Threshold data must be defined prior to group data.                         |
| SCH1701 | Threshold block does not exist.                                             |
| SCH1702 | Threshold block already exists.                                             |
| SCH1703 | Threshold value out-of-range.                                               |
| SCH1704 | All groups must be removed before the threshold block may be removed.       |

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| SCH1705 | Loop to be removed for member x does not match data for member x.                                                                                                                                                                       |
| SCH1706 | Invalid loop number (i.e. loop is already a member, loop is not disabled or is not an RPE loop).                                                                                                                                        |
| SCH1707 | Group number is out-of-range (SL-1A and LE 1-5, VLE 1-31).                                                                                                                                                                              |
| SCH1708 | Loop number (address) is out-of-range.                                                                                                                                                                                                  |
| SCH1709 | RPE2 package not present on tape.                                                                                                                                                                                                       |
| SCH2000 | <p>An attempt was made to assign a mini CDR tape unit to a customer for which the tape was not assigned in configuration data.</p> <p><b>Action:</b> Assign the tape in LD 17 and return to LD 15 to assign the tape to a customer.</p> |
| SCH2001 | Private route not allowed.                                                                                                                                                                                                              |
| SCH2002 | No CDP list exists for this CDP steering code.                                                                                                                                                                                          |
| SCH2003 | ESN data block does not exist for this CDP steering code.                                                                                                                                                                               |
| SCH2004 | No customer data block exists for this CDP steering code.                                                                                                                                                                               |
| SCH2005 | Invalid CDP steering code.                                                                                                                                                                                                              |
| SCH2006 | Wrong number of input fields for prompt NCOS.                                                                                                                                                                                           |
| SCH2007 | NCOS number out-of-range (0-15 for NARS, 0-3 for BARS/CDP, 0-7 for NFCR).                                                                                                                                                               |
| SCH2008 | NCOS package must be equipped if ESN is entered.                                                                                                                                                                                        |
| SCH2009 | NARS package must be equipped if ETN is entered.                                                                                                                                                                                        |
| SCH2010 | Signaling type inconsistent with card density.                                                                                                                                                                                          |
| SCH2011 | New unit number is too high for the new card.                                                                                                                                                                                           |
| SCH2012 | Off-premise extension for single density card only.                                                                                                                                                                                     |
| SCH2013 | Attempt to increase card density while OPX units are equipped.                                                                                                                                                                          |
| SCH2014 | Existing card density too high for move/swap.                                                                                                                                                                                           |
| SCH2015 | Attempt to move/swap loops while upper shelves exist in the loop with lower density.                                                                                                                                                    |

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| SCH2016 | The DNIS Route must be defined as auto-terminating or IDC.                                                                                                                                                                                                        |
| SCH2017 | This value represents a change for the CDR with Outpulsed Digits (OPD). The change does not take effect until after the next initialization.                                                                                                                      |
| SCH2019 | Frame formats must be the same when moving or swapping DTI loops.                                                                                                                                                                                                 |
| SCH2020 | Moving a trunk between different loops is not permitted.                                                                                                                                                                                                          |
| SCH2021 | DTI package not equipped.                                                                                                                                                                                                                                         |
| SCH2022 | Cannot delete a non-DTI loop or add a DTI loop which is not undefined, or make changes to a non-DTI loop.                                                                                                                                                         |
| SCH2023 | Odd loop numbers for DTI card slot not allowed.                                                                                                                                                                                                                   |
| SCH2024 | Digital trunk loop must be a DTI2, JDMI, or PRI2 loop.                                                                                                                                                                                                            |
| SCH2025 | Primary reference loop number and secondary reference loop number cannot be the same.                                                                                                                                                                             |
| SCH2026 | Illegal input for trunk type.                                                                                                                                                                                                                                     |
| SCH2027 | NCOS package and/or DTI package is restricted.                                                                                                                                                                                                                    |
| SCH2028 | Digital TIE auto must be VCE or DTA only.                                                                                                                                                                                                                         |
| SCH2029 | TN to channel conversion failure.                                                                                                                                                                                                                                 |
| SCH2030 | Digital data block does not exist.                                                                                                                                                                                                                                |
| SCH2031 | Digital data block already exists.                                                                                                                                                                                                                                |
| SCH2032 | Configuration loop number must be a DTI card slot.                                                                                                                                                                                                                |
| SCH2033 | A DTI loop can only be moved to another DTI loop.                                                                                                                                                                                                                 |
| SCH2034 | A digital route is required.                                                                                                                                                                                                                                      |
| SCH2035 | {CR} is allowed only if a DTI card does not exist on the network shelf.                                                                                                                                                                                           |
| SCH2036 | Framing format has been changed from D2 to D3 or vice versa.<br><b>Action:</b> Framing format cannot be changed while trunks exist on the loop. Trunks associated with that loop must first be removed from the configuration before changing the framing format. |
| SCH2037 | Channel out-of-range (1-24).                                                                                                                                                                                                                                      |

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| SCH2038 | Channel to TN conversion failure.                                                                       |
| SCH2039 | Last shelf on the slot is not permitted for DTI.                                                        |
| SCH2040 | Cannot remove a digital data block while DTI loops still exist.                                         |
| SCH2041 | Framing format data corruption has occurred.                                                            |
| SCH2042 | Protected terminal digital loop block pointer has been corrupted.                                       |
| SCH2043 | LFTN must be TN with the same customer number.                                                          |
| SCH2044 | LUC not permitted for DTI loops.                                                                        |
| SCH2045 | Wrong number of input fields.                                                                           |
| SCH2046 | Departmental LDN out-of-range.                                                                          |
| SCH2047 | Tenant number out-of-range.                                                                             |
| SCH2048 | Unable to match input with stored mnemonics.                                                            |
| SCH2049 | Cannot add existing attendant or delete non-existing attendant.                                         |
| SCH2050 | Outing an existing DND group is not allowed unless the GND key is deactivated on the attendant console. |
| SCH2051 | Unable to match input field with stored mnemonics for prompt CNVT.                                      |
| SCH2052 | ESN digit manipulation index out-of-range (0-255).                                                      |
| SCH2053 | ESN digit manipulation table does not exist.                                                            |
| SCH2054 | ESN data block does not exist.                                                                          |
| SCH2055 | Wrong number of input fields for prompt ATDN.                                                           |
| SCH2056 | Only FDN is allowed for 500 telephone.                                                                  |
| SCH2057 | WTA not allowed for CLS DTA.                                                                            |
| SCH2058 | Null input not allowed for prompt NEW.                                                                  |
| SCH2059 | Wrong number of input fields for prompt MTN.                                                            |
| SCH2060 | Release 8 L MSI configured in SCC FN. Prompt incoming default not allowed.                              |

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| SCH2061 | Too many ranges defined for this location code (20 ranges maximum).  |
| SCH2062 | Overlapping or duplication of ranges.                                |
| SCH2063 | XRA or XFA not allowed when CLS = MNL.                               |
| SCH2064 | The desired key is already defined.                                  |
| SCH2065 | PBX ring option conflicts with group option.                         |
| SCH2066 | Wrong key number to TAD.                                             |
| SCH2067 | The Call Park option must be allowed (CPA) in CDB.                   |
| SCH2070 | Cannot OUT customer when ESN, NCTL or AUTH blocks still exist.       |
| SCH2071 | Cannot OUT customer when ACD still exist.                            |
| SCH2072 | Cannot OUT customer when DISA blocks still exist.                    |
| SCH2073 | Cannot OUT customer when Call Park blocks still exist.               |
| SCH2074 | Input AOS for CLS = ignored when command is NEW.                     |
| SCH2075 | EFD allowed only with CFTA COS.                                      |
| SCH2076 | EHT allowed only with CFTA COS.                                      |
| SCH2077 | Unable to match input with mnemonics.                                |
| SCH2078 | CFCT not allowed.                                                    |
| SCH2079 | BGD user type cannot coexist with ACD, APL, CDL, CMC, CMS, HSL, LSL. |
| SCH2080 | BGD customer number must be specified for BGD or PMS Link device.    |
| SCH2081 | BGD/PMSI package not equipped.                                       |
| SCH2082 | PMS user type can coexist with BGD only.                             |
| SCH2083 | SFA must have FNA and MWD specified.                                 |
| SCH2084 | SFA not defined.                                                     |
| SCH2085 | CPND cannot exist with DTA on.                                       |
| SCH2086 | SFA not defined.                                                     |



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| SCH2087 | SFA not allowed.                                                   |
| SCH2088 | ACD-DNIS package is restricted.                                    |
| SCH2089 | APL number expected when LINK = YES.                               |
| SCH2090 | Customer option cannot be changed to DNX with DNIS routes defined. |
| SCH2091 | Digit insertion not allowed for this DNIS route.                   |
| SCH2092 | DNIS routes cannot be configured with CHG request.                 |
| SCH2093 | Not a valid APL. Define in the Configuration Record.               |
| SCH2094 | APL package not equipped.                                          |
| SCH2095 | NO not allowed for AUTO with DNIS route defined.                   |
| SCH2097 | DN must be ACD DN when trunk is a DNIS route.                      |
| SCH2098 | TDET package is restricted.                                        |
| SCH2099 | XFA COS required for C6A.                                          |
| SCH2100 | Only one input field allowed.                                      |
| SCH2101 | MXLN cannot be reduced once defined.                               |
| SCH2102 | CPND data block does not exist.                                    |
| SCH2103 | Invalid command for stand alone CPND.                              |
| SCH2104 | Response to TYPE must be NAME.                                     |
| SCH2105 | CPND data block already exists.                                    |
| SCH2106 | Invalid CPND configuration.                                        |
| SCH2107 | Cannot change CPND configuration.                                  |
| SCH2108 | MXLN out-of-range (5-27).                                          |
| SCH2109 | Only YES or NO allowed.                                            |
| SCH2110 | Response to STAL must be YES with BGD package.                     |
| SCH2111 | DFLN out-of-range.                                                 |

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| SCH2112    | Cannot remove CPND data block while names exist for DN.                                                                                                                                                                                                             |
| SCH2113    | Cannot remove CPND data base while names exist.                                                                                                                                                                                                                     |
| SCH2114    | Invalid response to DIG.                                                                                                                                                                                                                                            |
| SCH2115    | CPND name does not exist.                                                                                                                                                                                                                                           |
| SCH2116    | CPND name already exists.                                                                                                                                                                                                                                           |
| SCH2117    | Invalid character for Name. If the NAME prompt will not accept any characters and PKG 211 is configured, verify that the input terminal is configured to send 8 bit characters.                                                                                     |
| SCH2118    | Too many input characters.                                                                                                                                                                                                                                          |
| SCH2119    | Invalid response to DN.                                                                                                                                                                                                                                             |
| SCH2120    | Digit display cannot be removed because RMK/MRK key configured.                                                                                                                                                                                                     |
| SCH2121    | Invalid input to MR prompt.                                                                                                                                                                                                                                         |
| SCH2122    | PSP/PIP CLS only allowed for loop start trunks with disconnect super.                                                                                                                                                                                               |
| SCH2123    | MRA/MRD not allowed unless Message Registration (MR) package is enabled. PSP is mutually exclusive with JCO/LST.                                                                                                                                                    |
| SCH2124    | MRK key must be assigned to a key/lamp pair.                                                                                                                                                                                                                        |
| SCH2125    | MRK key set must have digit display assigned.                                                                                                                                                                                                                       |
| SCH2126    | Manual and Hot Line telephones can have LLCN COS only.                                                                                                                                                                                                              |
| SCH2127    | XPLN out-of-range; from entered Name's length to MXLN.                                                                                                                                                                                                              |
| SCH2128    | TOFT value must be from 2 to 1800 at OVDN prompt.                                                                                                                                                                                                                   |
| SCH2129    | All ACD DN's specified for OVDN must be unique.                                                                                                                                                                                                                     |
| SCH2130 dn | ACD DN cannot answer TOF calls for this source ACD DN because it already services 6 source ACD DN's. dn = target ACD DN.                                                                                                                                            |
| SCH2131 dn | When deleting the Target ACD DN (dn) from a source with TOFT defined, could not find the source TOF queue address within the target's unprotected block. Possible data corruption which may result in BUG688 and source TOF calls not terminating to target agents. |

**Action:** Manual INIT. or run Audit recommended. If this persists, inform operating company.

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| SCH2132 | PSP CLS is mutually exclusive with JDID and JCO CLS.                                                                                                       |
| SCH2133 | Cannot use X to delete EFD/EHT. Consult your user manual.                                                                                                  |
| SCH2134 | SFA requires FNA and MWD COS.                                                                                                                              |
| SCH2135 | Power down and power up, or enable, or service change the M2317 telephone that is using this speed/system call list after this Speed Call List is changed. |
| SCH2137 | Wrong set type, cannot assign maintenance set class.                                                                                                       |
| SCH2138 | This is a data set TN. It cannot have MTC class.                                                                                                           |
| SCH2139 | DN assignment not allowed on this key.                                                                                                                     |
| SCH2140 | Must set or change the SID value when the IFC or NSF of the route is changed.                                                                              |
| SCH2141 | Max value must be specified when the NSF or IFC or the route is changed.                                                                                   |
| SCH2142 | Priority is out-of-range. The Range is from 1 to the Maximum Priority for the ACD-DN of the defined agent.                                                 |
| SCH2143 | DNIS route must either auto-terminate or IDC.                                                                                                              |
| SCH2501 | An attempt was made to change a telephone that is in the process of relocating.                                                                            |
| SCH2502 | A request other than NEW or OUT was used in conjunction with type CARD.                                                                                    |
| SCH2503 | An attempt was made to service change a telephone that SET-RELOCATE was working on.                                                                        |
| SCH2504 | An invalid TN was entered when adding or removing a card.                                                                                                  |
| SCH2505 | An attempt was made to remove a card that has equipped units.                                                                                              |
| SCH2506 | An attempt was made to change a set that belongs to a different customer.                                                                                  |
| SCH2507 | An attempt was made to change a set that is busy.                                                                                                          |
| SCH2508 | ALLOW or DENY was expected as an input but was not received.                                                                                               |
| SCH2509 | An invalid Prime DN has been entered. It is not unique or is not a Prime DN.                                                                               |
| SCH2510 | Attendant Administration Package is not equipped.                                                                                                          |

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| SCH2511 | History File feature package restricted.                                                                      |
| SCH2512 | Not enough PDS to allocate History File of requested size. Followed by (allocated size) and (requested size). |
| SCH2513 | Invalid user for History File.                                                                                |
| SCH2514 | History, traffic or TTY file is empty.                                                                        |
| SCH2515 | No new messages added to History File since last printout.                                                    |
| SCH2517 | Attendant Overflow Position package restricted.                                                               |
| SCH2521 | Not enough digits entered.                                                                                    |
| SCH2522 | Invalid entry for prompt CFW (not DENY or CFW).                                                               |
| SCH2523 | Invalid entry for prompt SPC (not DENY, SCC, or SCU).                                                         |
| SCH2524 | An attempt was made to assign an ACD or MC key to an SL-1 set.                                                |
| SCH2525 | Mini-CDR package is not equipped.                                                                             |
| SCH3000 | IMS package not equipped.                                                                                     |
| SCH3001 | LTN table pointer not defined. Data corrupted.                                                                |
| SCH3002 | APL user cannot share TTY. APL user already defined.                                                          |
| SCH3003 | APL user cannot share TTY. Other user already defined.                                                        |
| SCH3004 | Cannot remove APL TTY without first removing all users using this TTY.                                        |
| SCH3005 | All APL TTY devices must be disabled first.                                                                   |
| SCH3006 | The APL TTY is not defined in Configuration Record                                                            |
| SCH3007 | The APL TTY is already defined.                                                                               |
| SCH3008 | The APL TTY is out-of-range (0-15).                                                                           |
| SCH3009 | The APL TTY is previously removed.                                                                            |
| SCH3010 | Invalid APL link.                                                                                             |
| SCH3011 | Response of NO not allowed. IMA, UST, or UMG is active.                                                       |
| SCH3012 | The APL TTY is out-of-range (0-15).                                                                           |

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| SCH3013 | The APL link is shared by other user.                                                                                                                    |
| SCH3014 | The specified APL is not defined in customer data block.                                                                                                 |
| SCH3015 | Caution: This command will remove all UST key users using this ACD (use ODAS to print all UST key users). If no UST key users, ignore the error message. |
| SCH3016 | Telephone message timer (UMT) is out-of-range (2-15).                                                                                                    |
| SCH3017 | Response NO not allowed. IMS option is defined.                                                                                                          |
| SCH3018 | If any of the IMA, UST or UMG features are ON, then the CSL option (CMS) may not be changed.                                                             |
| SCH3019 | Trunk CLS must be MFR if the trunk is a member of the CAMA route using Bell M2B signaling.                                                               |
| SCH3020 | IMA Class of Service is not allowed for this customer.                                                                                                   |
| SCH3021 | Carriage return in LTN field with APL link undefined.                                                                                                    |
| SCH3022 | TN number is already defined.                                                                                                                            |
| SCH3023 | LTN number is out-of-range (1-253).                                                                                                                      |
| SCH3024 | LTN link number is not defined in customer data block.                                                                                                   |
| SCH3025 | IMA Class of Service requires key 0 to be an ACD key.                                                                                                    |
| SCH3026 | UST key desired, but UST is restricted.                                                                                                                  |
| SCH3027 | UST key desired, but UST ALLOWED bit not set in CDB.                                                                                                     |
| SCH3028 | All members of the CAMA Route using Bell Signaling M2B need to have MFR Class of Service.                                                                |
| SCH3030 | Only Digitone sending/receiving allowed with ESN signaling arrangement.                                                                                  |
| SCH3031 | Trunk members must have Digitone sending/receiving.                                                                                                      |
| SCH3032 | Invalid TN in trunk route trunk list.                                                                                                                    |
| SCH3033 | Wrong number of input fields for prompt FDN.                                                                                                             |
| SCH3034 | Flexible DN conflicts with existing DN.                                                                                                                  |
| SCH3035 | Invalid DN type for CFNA DN.                                                                                                                             |

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| SCH3036 | Cannot remove IMS with IMA UST or UMG allowed.                                                                                     |
| SCH3037 | Cannot remove IMA with APL defined.                                                                                                |
| SCH3038 | Cannot remove UST with APL defined.                                                                                                |
| SCH3039 | Cannot remove UMG with APL defined.                                                                                                |
| SCH3040 | Cannot remove APL with user defined in ACD block.                                                                                  |
| SCH3041 | Cannot remove MCX with IMA, UST, or UMG allowed.                                                                                   |
| SCH3042 | MCI option not enabled.                                                                                                            |
| SCH3044 | CLS IMA defined requires that the IMA option in ACD block be defined.                                                              |
| SCH3045 | LTN link is not the same as APL defined in this ACD block.                                                                         |
| SCH3046 | UST key desired, but FDN, or HUNT is not an ACD DN.                                                                                |
| SCH3047 | UST key desired, but UST not allowed in ACD block.                                                                                 |
| SCH3048 | UST key desired, but APL link not defined in ACD block.                                                                            |
| SCH3049 | Key type already defined on this telephone. More than one key of this type per telephone not permitted.                            |
| SCH3050 | MWD is invalid when telephone has MWK assigned.                                                                                    |
| SCH3051 | Repeat command not allowed for music trunks.                                                                                       |
| SCH3052 | Existing card type conflicts with this overlay program.                                                                            |
| SCH3053 | Wrong set type to assign this Class of Service.                                                                                    |
| SCH3054 | Wrong set type to assign this key mnemonic.                                                                                        |
| SCH3055 | The Digital telephone package is not equipped.                                                                                     |
| SCH3056 | Hot line package not equipped.                                                                                                     |
| SCH3057 | DN length does not match the given DN. Too many digits.<br><b>Action:</b> Enter ADL/CFW DN with configured ADL/CFW DN length size. |
| SCH3058 | Wrong number of input fields.                                                                                                      |
| SCH3059 | DN length out-of-range (1-31).                                                                                                     |

**Action:** Enter DN length of 1 -31 digits.

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| SCH3060 | Class of Service must be MNL.                                                                                |
| SCH3061 | This feature not allowed for Hot Lines.                                                                      |
| SCH3062 | Invalid Hot Line DN.                                                                                         |
| SCH3063 | AUTOVON preemptable trunk route must be DTMF.                                                                |
| SCH3067 | Signal destination timer is out-of-range (384-2048).                                                         |
| SCH3069 | Last preference key number is out-of-range.                                                                  |
| SCH3070 | Line selection package is not equipped.                                                                      |
| SCH3071 | A restart is caused if anything other than YES or {CR} is entered.                                           |
| SCH3072 | Deluxe Hold package is not equipped.                                                                         |
| SCH3073 | LFTN customer conflicts with customer to be changed.                                                         |
| SCH3074 | Outgoing start arr. is not equal to incoming start arr.                                                      |
| SCH3075 | A list number of this type does not exist.                                                                   |
| SCH3080 | Hot Line lists need to be defined in LD 18.                                                                  |
| SCH3081 | Hot Line list length out-of-range.                                                                           |
| SCH3082 | Flexible Hot Line not allowed by list entry method.                                                          |
| SCH3083 | Invalid DN; already assigned to non-enhanced Hot Line set.                                                   |
| SCH3085 | Hot Line list number mismatch.                                                                               |
| SCH3086 | List already defined as Hot Line list.                                                                       |
| SCH3087 | Set has EHTA COS; need to define Hot Line at FTR.                                                            |
| SCH3088 | Conflict with EHTA COS; telephone has either LNA, LLC1, LLC2, LLC3, MNL, or Permanent Hold features enabled. |
| SCH3089 | EHTD not allowed. DN is shared with another defined Hot Line set. User must OUT                              |
| SCH3090 | DN already defined as Enhanced Hot Line or two-way Hot Line key.                                             |

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| SCH3091 | Illegal digit for list entry.                                                                                                                            |
| SCH3106 | Unable to match input with stored mnemonics (trunk group option ESN.                                                                                     |
| SCH3107 | Only WNK start allowed with ESN signaling arrangement.                                                                                                   |
| SCH3108 | Trunk group has non-wink-start members. Trunk arrangement must be wink start for ESN.                                                                    |
| SCH3109 | Duplicate Routing Controls key assigned to attendant console.                                                                                            |
| SCH3110 | Speed Call List does not exist.                                                                                                                          |
| SCH3111 | Wrong number of input fields for RNGE.                                                                                                                   |
| SCH3112 | Attempted to assign a System Speed Call List number to a Speed Call List key or attempted to assign a Speed Call List number to a System Speed Call key. |
| SCH3113 | Low or high range must not exceed number of valid entries.                                                                                               |
| SCH3114 | Answer and disconnect supervision required for ESN proprietary signaling.                                                                                |
| SCH3115 | Trunk does not have answer and disconnect supervision.                                                                                                   |
| SCH3116 | Expensive route cannot be assigned to an ESN trunk group.                                                                                                |
| SCH3117 | Cannot configure any odd loop adjacent to an even service loop in the same card slot.                                                                    |
| SCH3118 | Service loops must be even numbered loops.                                                                                                               |
| SCH3119 | Cannot configure even service loops adjacent to another odd loop in the same card slot.                                                                  |
| SCH3120 | Extender group number not in range 0-4.                                                                                                                  |
| SCH3121 | No logical TN (LTN) can be found.                                                                                                                        |
| SCH3122 | The number of ACD Agents requested exceeds the number of positions left for this group.                                                                  |
| SCH3123 | The Source TN cannot be a Dial Intercom set.                                                                                                             |
| SCH3124 | The Source TNs Data DN key is not copied.                                                                                                                |
| SCH3125 | CLS = MWD is not valid when the set has UST assigned.                                                                                                    |



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| SCH3126 | You cannot assign more than two (2) AST keys on a single SL-1 set.                                                       |
| SCH3127 | Invalid AST key type. Only MCR, MCN, SCR and SCn key are supported.                                                      |
| SCH3128 | Two (2) AST keys are defined for the same DN on this SL-1 set.                                                           |
| SCH3129 | This DN already has AST assigned.                                                                                        |
| SCH3130 | VASID may not be defaulted for DNIS or CCR.                                                                              |
| SCH3135 | The ACD NSVC key already exists for this ACD-DN.                                                                         |
| SCH3136 | NIGHT DN: define the associated minute with the hour defined.                                                            |
| SCH3137 | NIGHT DN: define the associated hour with the Night DN defined.                                                          |
| SCH3138 | Night service times are not in ascending order.                                                                          |
| SCH3139 | Cannot copy a digital voice TN to a digital data TN. Also, you cannot copy a digital data TN to a digital voice TN.      |
| SCH3140 | Set-type of the new TN does not match with the set-type of the corresponding voice/data TN.                              |
| SCH3141 | Customer number of the new TN does not match the customer number for the corresponding voice/data TN.                    |
| SCH3142 | Tree digits input are invalid.<br><b>Action:</b> Re-input the proper and valid tree digits.                              |
| SCH3146 | Trunk type of a route cannot be changed.                                                                                 |
| SCH3147 | Primary Rate Access (PRA) package not equipped.                                                                          |
| SCH3148 | ISDN Signaling Link (ISL) package not equipped.                                                                          |
| SCH3149 | Neither ESL, PRA nor PRA2 package not equipped.                                                                          |
| SCH3150 | A value between 1-382 must be entered for all shared and ESL D-channels. {CR} not allowed for new ESL.                   |
| SCH3151 | The ISL trunk still exists. Changing mode; decreasing the ISLM below the existing CHIDs or removing DCHI is not allowed. |
| SCH3152 | Mode or DCHI change is only allowed if trunks have been removed.                                                         |

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| SCH3153 | No default allowed.                                                                                                                                                                                                                                  |
| SCH3154 | Route mode does not match DCHI user in the Configuration Editor.                                                                                                                                                                                     |
| SCH3155 | Maximum number of PNI are already assigned.                                                                                                                                                                                                          |
| SCH3156 | PNI is assigned to a different customer.                                                                                                                                                                                                             |
| SCH3157 | Primary Rate Interface (PRI) hardware is required.                                                                                                                                                                                                   |
| SCH3158 | ISDN B-channel trunk parameters cannot be changed when the trunk is busy.                                                                                                                                                                            |
| SCH3159 | Wrong number of input fields for CHID.                                                                                                                                                                                                               |
| SCH3160 | CHID is out-of-range.<br><b>Action:</b> Check ISL MAX in the Configuration Record.                                                                                                                                                                   |
| SCH3161 | IFC type of D250 or ESS4 requires IEC package.                                                                                                                                                                                                       |
| SCH3162 | What has occurred: In LD 14 a duplicate CHID has been entered. This CHID already exists.                                                                                                                                                             |
| SCH3170 | ISA must be selected with PRI loops only.                                                                                                                                                                                                            |
| SCH3171 | IFC for ISA route must be changed to ESS4 first and then the IFC for the service route can be changed to ESS4.                                                                                                                                       |
| SCH3172 | D-CH block pointer is NIL.                                                                                                                                                                                                                           |
| SCH3173 | Must provide COT route number.                                                                                                                                                                                                                       |
| SCH3174 | ISA route can be deleted if ISDN service routes do not step to it.                                                                                                                                                                                   |
| SCH3175 | Warning: IFC for service route does not match IFC for route. Changing IFC between ESS4/ESS5 and D100/D250/S100/SL1 is not allowed.                                                                                                                   |
| SCH3176 | Only one service route with a specific service type can be assigned to an ISA route (IFC = ESS4).                                                                                                                                                    |
| SCH3177 | SID value must be unique.                                                                                                                                                                                                                            |
| SCH3178 | If a CO route exists, enter route number for prompt COTR. If a WATS route exists, enter route number for prompt WATR. If a TIE route exists, enter route number for prompt TIER. Otherwise, the ISA route is inoperative and overflow tone is given. |

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| SCH3179 | Trunk(s) cannot be removed if the remaining number of trunks are less than the sum of the minimum number of reserved trunks.                        |
| SCH3180 | The MAX value exceeds the number of trunks configured for the ISA route.                                                                            |
| SCH3181 | Zero (0) is not allowed for IEC.                                                                                                                    |
| SCH3182 | B-channel(s) on a PRI loop must be moved to a PRI loop configured with a D-channel.                                                                 |
| SCH3183 | Incorrect number of digits entered.                                                                                                                 |
| SCH3184 | At least one route is using this block; FGNO of that route must be changed before removing FGD block. A list of routes using this block is printed. |
| SCH3185 | Too many Service Access Codes (maximum is 8).                                                                                                       |
| SCH3186 | Information digit (II) numbers are not in ascending order.                                                                                          |
| SCH3187 | There are spaces in the Information digits (II) table.                                                                                              |
| SCH3188 | Up to 255 MFR units may be defined.                                                                                                                 |
| SCH3190 | FGD package is not equipped.                                                                                                                        |
| SCH3191 | Wrong input parameters.                                                                                                                             |
| SCH3192 | DN is assigned to another function.                                                                                                                 |
| SCH3193 | DN is assigned to a different test line.                                                                                                            |
| SCH3194 | The DN for the associated Loop Reference trunk is not assigned. Printed in response to TST DN.                                                      |
| SCH3195 | Directory number conflict of input parameters.                                                                                                      |
| SCH3196 | Not enough memory available.                                                                                                                        |
| SCH3197 | Mini-CDR tape + History File and number of TTYs is greater than 16.                                                                                 |
| SCH3198 | STRI and STRO must be WNK for FGDT trunks.                                                                                                          |
| SCH3199 | FGDT and M911 trunks must have MFR COS.                                                                                                             |
| SCH3200 | FGNO out-of-range.                                                                                                                                  |
| SCH3201 | Specified FGD block has not been defined.                                                                                                           |

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| SCH3202 | MOV is invalid for TYPE FGDB or ANI.                          |
| SCH3203 | PRT is invalid for TYPE CRB.                                  |
| SCH3204 | Requested FGD block does not exist.                           |
| SCH3205 | Music trunk does not exist.                                   |
| SCH3206 | Call Park package not equipped.                               |
| SCH3207 | Call Park not activated for the customer.                     |
| SCH3208 | Call Park data block already exists.                          |
| SCH3209 | Call Park data block does not exist.                          |
| SCH3210 | System park DN input not allowed.                             |
| SCH3211 | FDN not allowed unless COS is FNA or MWA.                     |
| SCH3212 | Loop assignment exceeds system loop limit (Flexible Pricing). |
| SCH3213 | Warning: STOR again.                                          |
| SCH3214 | IMM response forced for STAR if DN exist for ATDN or MNDN.    |
| SCH3215 | If AUTO is set and TKTP is TIE, SIG cannot be ESN3.           |
| SCH3216 | CDL package is not equipped.                                  |
| SCH3218 | ISA package is restricted.                                    |
| SCH3219 | PRI mode cannot be changed when associated with DCHI.         |
| SCH3220 | No toll digits are specified for outgoing toll calls.         |
| SCH3221 | Unable to match input with mnemonic (for density).            |
| SCH3222 | Card density greater than loop density.                       |
| SCH3223 | Card density too low for entered unit number.                 |
| SCH3224 | New card density too low for configured units.                |
| SCH3225 | Entered density greater then MPED.                            |
| SCH3226 | New MPED value lower then configured loop density.            |

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| SCH3227 | R2/MFC signaling (MFC) required to have CNA Class of Service.             |
| SCH3228 | CNA or CND Class of Service allowed only for DID trunks.                  |
| SCH3229 | New MPED value lower than default card densities.                         |
| SCH3230 | Default card density greater than the loop density.                       |
| SCH3231 | Odd numbered DTR units not supported.                                     |
| SCH3232 | Unit number in response to TOTN higher than card density.                 |
| SCH3233 | Card densities on source loop incompatible with destination loop.         |
| SCH3234 | Equipped shelf numbers on source loop incompatible with destination loop. |
| SCH3235 | An attempt was made to increment the max tn(s).                           |
| SCH3236 | FFC block already exists.                                                 |
| SCH3237 | FFC block does not exist.                                                 |
| SCH3238 | FFC package unequipped.                                                   |
| SCH3239 | Invalid password.                                                         |
| SCH3240 | Entry out-of-range.                                                       |
| SCH3241 | External source number out-of-range.                                      |
| SCH3242 | Invalid FFC mnemonic.                                                     |
| SCH3243 | 64K clear can be selected only when LCMT is B8S.                          |
| SCH3244 | DTD package not equipped.                                                 |
| SCH3245 | Minimum DTD delay out-of-range.                                           |
| SCH3246 | Parameter out-of-range (0-15).                                            |
| SCH3247 | Null input not accepted.                                                  |
| SCH3248 | Entry should be 0 or 1.                                                   |
| SCH3249 | Dial tone not specified.                                                  |
| SCH3250 | Input field is greater than 4.                                            |

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| SCH3251 | Announcement package not equipped.                                                            |
| SCH3252 | Input out-of-range (0-15 for internal) (0-7 for external).                                    |
| SCH3253 | Invalid tone or source number.                                                                |
| SCH3254 | Loop number not associated with DCHI number/BCHI number.                                      |
| SCH3255 | Analog route cannot be PRA.                                                                   |
| SCH3256 | Yellow alarm was changed to DG2 because the frame format was changed to other than ESF.       |
| SCH3257 | Cannot configure DCH when the other port on the card is not configured as TTY                 |
| SCH3258 | Loop number must be given with the sequence number.                                           |
| SCH3259 | Loop can be removed only when none of its channels are configured for B-channel signaling.    |
| SCH3260 | The TTY Port must be configured ASYNC when the other port on the same card is a DCHI or BCHI. |
| SCH3261 | BCHI must have different value from DCHI.                                                     |
| SCH3262 | There is at least one ISDN route. PRA = NO is not allowed.                                    |
| SCH3263 | HNPA, HLOC, and HNXX must be given for new customer.                                          |
| SCH3264 | Radio paging system does not exist.                                                           |
| SCH3265 | Radio paging block already exists.                                                            |
| SCH3266 | Not a Radio paging system route.                                                              |
| SCH3267 | STEP to ISA route is not allowed.                                                             |
| SCH3268 | PSA length out-of-range, (1-4).                                                               |
| SCH3269 | Mode digit out-of-range, (0-9).                                                               |
| SCH3270 | Radio paging system number out-of-range (0-15).                                               |
| SCH3271 | Dn out-of-range.                                                                              |
| SCH3272 | PSA out-of-range.                                                                             |

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| SCH3273 | Invalid system type for CO trunk.                                          |
| SCH3274 | Radio Paging data must be removed before changing system type.             |
| SCH3275 | Higher station group number exists.                                        |
| SCH3276 | SGRP out-of-range (1-127).                                                 |
| SCH3277 | Out-of-range (1 to MAXN).                                                  |
| SCH3278 | MAX cannot be reduced below existing PRXL/GRNO number.                     |
| SCH3279 | PRXL table/entry already exists.                                           |
| SCH3280 | PRXL table does not exist.                                                 |
| SCH3281 | Pretranslation package restricted.                                         |
| SCH3282 | Input number out-of-range (0-9).                                           |
| SCH3283 | Input must be 0-9999, or ABS, OVF, X.                                      |
| SCH3284 | Pretranslation table size must be either 10 or 100.                        |
| SCH3285 | Pretranslation data of this customer does not exist.                       |
| SCH3286 | Indices x1-x9 of XLTI, x not allowed.                                      |
| SCH3287 | Invalid command; must be one of NEW/CHG/OUT/END.                           |
| SCH3288 | Trunk TYPE = not allowed with PRI loop.                                    |
| SCH3289 | PRI loop can be moved to PRI loop only.                                    |
| SCH3290 | Invalid maximum PE density keyword.                                        |
| SCH3291 | Attempted to configure PE as being SD while some DD terminals still exist. |
| SCH3292 | Invalid card density keyword.                                              |
| SCH3293 | Card density is higher than ICCP density.                                  |
| SCH3294 | Entered card density is too low for the new unit.                          |
| SCH3295 | Attempted to lower card density while upper units were still equipped.     |
| SCH3296 | Card is already equipped.                                                  |

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| SCH3297 | Card is not equipped.                                                                                                                                                                                                    |
| SCH3298 | Card density is higher than maximum PE density.                                                                                                                                                                          |
| SCH3299 | Change is not allowed for single density loop at card level.                                                                                                                                                             |
| SCH3300 | The DN or Position ID is invalid, it must be unique.                                                                                                                                                                     |
| SCH3301 | The conditions for entering this item have not been met.                                                                                                                                                                 |
| SCH3302 | Copy count is out-of-range.                                                                                                                                                                                              |
| SCH3303 | Cannot copy the TN to a DLI loop.                                                                                                                                                                                        |
| SCH3304 | Last Hunt key number is out-of-range.                                                                                                                                                                                    |
| SCH3305 | The Source TN cannot be a Virtual Agent.                                                                                                                                                                                 |
| SCH3306 | The Source TN cannot be an ACD Supervisor.                                                                                                                                                                               |
| SCH3307 | CLS = IMA, but there is no LTN or APL defined.                                                                                                                                                                           |
| SCH3308 | Cannot copy to a relocating set TN.                                                                                                                                                                                      |
| SCH3309 | CLS = TENA, but there is no tenant number defined.                                                                                                                                                                       |
| SCH3310 | Must have MWA for UST key operation.                                                                                                                                                                                     |
| SCH3400 | Digital loop mode may not be defaulted when configuring a new loop.                                                                                                                                                      |
| SCH3401 | Data calls and frame format fields ignored for DLI loops (digital loops in the link mode).                                                                                                                               |
| SCH3402 | The DLI loop may not be removed if still defined for a VAS (PTE).                                                                                                                                                        |
| SCH3403 | There is no protected DLI loop block for DLI loop N.                                                                                                                                                                     |
| SCH3404 | There are no defined VAS servers (PTE).                                                                                                                                                                                  |
| SCH3405 | VAS server (PTE) already defined.                                                                                                                                                                                        |
| SCH3406 | VAS server (PTE) is not defined.                                                                                                                                                                                         |
| SCH3407 | The VAS server (PTE) may not be removed when CSL links are still defined for that VAS (PTE).<br><b>Action:</b> To remove a CSL link, enter: X before the CSL link number, to the CMS sub-prompt of the VAS (PTE) prompt. |

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| SCH3408 | Loop type must be DLI (digital loop in the link mode).                                                                                                                                                 |
| SCH3409 | DLI loop must be disabled when adding to VAS server (PTE).                                                                                                                                             |
| SCH3410 | Maximum CSL links that may be defined for a VAS (PTE) has already been reached.                                                                                                                        |
| SCH3411 | CSL link exists and belongs to a different VAS server (PTE).                                                                                                                                           |
| SCH3412 | DLI loop is assigned to a different VAS server (PTE).                                                                                                                                                  |
| SCH3413 | All DLI loops assigned to a VAS server (PTE) must be disabled before the VAS server (PTE) can be removed.                                                                                              |
| SCH3414 | Port number must correspond to a synchronous ESDI port, defined as ESDI YES and SYNC YES under the ADAN TTY prompt.                                                                                    |
| SCH3415 | CSL link must be disabled before modifications can be made.                                                                                                                                            |
| SCH3416 | Both the CSL Basic and DTI packages must be equipped for the CMSA Class of Service.                                                                                                                    |
| SCH3417 | Class of Service of CMSA is not accepted if class is not also DTA.                                                                                                                                     |
| SCH3418 | Station category number out of acceptable range (0-7).                                                                                                                                                 |
| SCH3419 | CSL is not defined for this VAS server (PTE).                                                                                                                                                          |
| SCH3420 | CSL configuration type may not be defaulted when adding a new CSL link.                                                                                                                                |
| SCH3421 | ESDI must be disabled before CSL can be configured.                                                                                                                                                    |
| SCH3422 | To remove a CSL ESDI port <ol style="list-style-type: none"> <li>1. set prompt CMS to Xx (remove port x)</li> <li>2. set prompt VAS to OUT</li> <li>3. set prompt VSID to x (remove port x)</li> </ol> |
| SCH3423 | CSL Basic package is not equipped.                                                                                                                                                                     |
| SCH3424 | Port must be defined as a CSL user (USER CMS under ADAN TTY prompt).                                                                                                                                   |
| SCH3425 | CSL user may not be removed if CSL link is still defined (CMS under VAS (PTE) prompt).                                                                                                                 |
| SCH3426 | Device must be disabled to permit CSL user change.                                                                                                                                                     |

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| SCH3427 | CSL N cannot be configured, not enough unprotected memory.                                           |
| SCH3428 | Device type must be TTY for CSL user.                                                                |
| SCH3429 | LINK mode is accepted only if both the DTI and the CSL Basic packages are equipped.                  |
| SCH3430 | CSL cannot use an asynchronous port.                                                                 |
| SCH3431 | The loop does not exist.                                                                             |
| SCH3434 | Invalid TN (DLI channel TN or maintenance TN x 0 9 0).                                               |
| SCH3436 | TN corresponds to an M4020 terminal.                                                                 |
| SCH3437 | Wrong number of input fields for prompt CTN (should be: module shelf card port).                     |
| SCH3438 | CTN module out-of-range (0-31).                                                                      |
| SCH3439 | CTN shelf out-of-range (0-11).                                                                       |
| SCH3440 | CTN card out-of-range (0-15).                                                                        |
| SCH3441 | CTN port out-of-range (0-63).                                                                        |
| SCH3442 | CTN could not be stored.                                                                             |
| SCH3444 | 4020 is not allowed for LUU.                                                                         |
| SCH3445 | Cannot remove an SADM/Data Line Card TN while it is still defined for an indirect CSL link.          |
| SCH3446 | Default SADM/data line card or DLI loop is not allowed for new indirect CSL.                         |
| SCH3447 | SADM/data line card entered is not in SL-1 data base.                                                |
| SCH3448 | SADM/data line card is already assigned to a different indirect CSL.                                 |
| SCH3449 | TN does not have CMSA Class of Service.                                                              |
| SCH3450 | TTY N - ESDI port N cannot be configured because a maintenance Call Register could not be allocated. |
| SCH3451 | TTY N M - The paired ports shown must be either both ESDI or both non-ESDI.                          |
| SCH3452 | Cannot remove DLI loop when defined for an indirect CSL.                                             |

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| SCH3453 | DLI loop entered is already assigned to a different indirect CSL.                                                                                                                                                                                                                                                                                                                                                                     |
| SCH3455 | VAS ID out-of-range (0-15).                                                                                                                                                                                                                                                                                                                                                                                                           |
| SCH3456 | VAS ID may not be defaulted for new data service access code.                                                                                                                                                                                                                                                                                                                                                                         |
| SCH3457 | Overflow DN for data service access code must be data service access code.                                                                                                                                                                                                                                                                                                                                                            |
| SCH3458 | Cannot remove IS/data services option before data service DNs and their access codes are removed.                                                                                                                                                                                                                                                                                                                                     |
| SCH3459 | Cannot remove data service access option if agents are still defined for this ACD DN.                                                                                                                                                                                                                                                                                                                                                 |
| SCH3460 | Ring Again for internal calls must be YES for data service access code.                                                                                                                                                                                                                                                                                                                                                               |
| SCH3461 | Call forcing option must be NO for data service access code.                                                                                                                                                                                                                                                                                                                                                                          |
| SCH3462 | Data services customer option is not set (OPT DSI in LD 15).                                                                                                                                                                                                                                                                                                                                                                          |
| SCH3463 | If class is DSI, class must also be DTA.                                                                                                                                                                                                                                                                                                                                                                                              |
| SCH3464 | TYPE must be SL-1.                                                                                                                                                                                                                                                                                                                                                                                                                    |
| SCH3465 | Cannot remove customer block before IS/data service DNs are removed.                                                                                                                                                                                                                                                                                                                                                                  |
| SCH3466 | Data service access code may not be a message center.                                                                                                                                                                                                                                                                                                                                                                                 |
| SCH3467 | If class is DSI, then key 0 must be an in-calls key for an ACD DN of a Data service access group (DSAC YES in LD 23).                                                                                                                                                                                                                                                                                                                 |
| SCH3468 | If key 0 is an in-calls key for an ACD DN of a data service access group, then class must be DSI.                                                                                                                                                                                                                                                                                                                                     |
| SCH3469 | Data services customer option is not turned on (OPT DSI in LD 15).                                                                                                                                                                                                                                                                                                                                                                    |
| SCH3470 | The DLI loop must be assigned to a VAS Server (PTE) (in LD 17, DLOP under VAS prompt).                                                                                                                                                                                                                                                                                                                                                |
| SCH3475 | <p>Not enough Call Registers to send the CSL DATA message to the server (PTE). This means that the server (PTE) was not notified of the data base change or validation request.</p> <p><b>Action:</b> To ensure compatibility of the shared data bases (when the CSL link is up), try either:</p> <ol style="list-style-type: none"> <li>1. removing the TN (if in LD 11), or DN (if in LD 23) (OUT) and adding it back in</li> </ol> |

(NEW), or

2. running Audit.

SCH3476 No active CSL link was found for the VAS Server (PTE) to which the M4020 terminal access TN or access code is assigned. If an M4020 terminal is being service changed, then this is the VAS server (PTE) to which the DLI loop of the M4020 terminal voice TN is assigned (DLOP under VAS prompt in LD 17). If an access code or TN is being service changed, then this is the VAS server (PTE) to which the access code is assigned (VSID in LD 23).

This means that the server (PTE) was not notified of the data base change or validation request.

**Action:** To ensure compatibility of the shared data bases (when the CSL link is up), try either:

1. removing the TN (if in LD 11) or DN (if in LD 23) (OUT) and adding it back in (NEW)

2. running Audit.

SCH3477 The CSL DATA message could not be sent to the VAS Server (PTE) for unspecified reasons. Try removing the data and adding it back in, or running Audit LD 44.

SCH3483 TNs on a DLI loop must be one of a data service access TN (TYPE of SL-1 and CLS of DSI) or a VMS access TN (TYPE of SL-1 and CLS of VMA).

SCH3484 No response was received from the VAS Server (PTE) for the CSL DATA message sent. This could mean that the server (PTE) was not notified of the data base change or validation request.

**Action:** To ensure compatibility of the shared data bases (when the CSL link is up), try either:

1. removing the TN (if in LD 11) or DN (if in LD 23) (OUT) and adding it back in (NEW), or

2. running Audit

SCH3485 Class of Service of DTA is not allowed for the M4020 voice TN. These Classes of Service belong to the M4020 terminal voice TN.

SCH3486 If Key 0 is an in-calls key for an ACD DN of a VMS access group, then Class of Service must be VMA.

SCH3487 If Class of Service is VMA, then key 0 must be an in-calls key for an ACD DN of a VMS access group.

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| SCH3492 | Cannot remove the primary data service access code option if there are agents still defined for the DN.                                                   |
| SCH3493 | A primary data service access code may not be used as an overflow DN.                                                                                     |
| SCH3494 | Cannot change the VAS ID for a primary data service access code or VMS access code with agents still defined for the DN.                                  |
| SCH3496 | The data service or primary data service access code option may not be removed if the ACD DN is defined as the primary access code for a data service DN. |
| SCH3497 | An overflow DN for a primary data service access code must belong to the same VAS server (PTE) as the primary access code.                                |
| SCH3498 | The data service access option or the primary data service access option may not be set if there agents still defined for the existing ACD DN.            |
| SCH3499 | A data service access code may not be an overflow DN for a DN that is not also a data service access code.                                                |
| SCH3500 | ATM package not equipped on this system.                                                                                                                  |
| SCH3501 | ATM data block already exists.                                                                                                                            |
| SCH3502 | ATM data block does not exist.                                                                                                                            |
| SCH3503 | This route TYPE is 3515 not allowed for ATM testing.                                                                                                      |
| SCH3504 | Cannot out ATM, route still scheduled for ATM.                                                                                                            |
| SCH3505 | Number of DN digits exceeds 10.                                                                                                                           |
| SCH3506 | ATM DN must be two or more digits long.                                                                                                                   |
| SCH3507 | PAD value out-of-range.                                                                                                                                   |
| SCH3508 | LOSS value out-of-range.                                                                                                                                  |
| SCH3509 | NOISE limit out-of-range.                                                                                                                                 |
| SCH3510 | PERCENT out-of-range.                                                                                                                                     |
| SCH3511 | ATM SCHEDULE block does not exist.                                                                                                                        |
| SCH3512 | ATM SCHEDULE block already exists.                                                                                                                        |

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| SCH3513 | Customer has no SCH data for this hour, use NEW to create SCH data for this customer.                                         |
| SCH3514 | Customer already has SCH data for this hour, use CHG to change SCH data or OUT to delete customer's SCH data from given hour. |
| SCH3515 | Cannot OUT RDB; ATM data still associated with RDB.                                                                           |
| SCH3516 | Hour for SCH data is out-of-range.                                                                                            |
| SCH3517 | Out of service limit is less than maintenance limit.                                                                          |
| SCH3518 | MXTI value is out-of-range.                                                                                                   |
| SCH3519 | DN Digit out-of-range.                                                                                                        |
| SCH3520 | ATM cannot be performed on this route because FEDC is equal to FEC.                                                           |
| SCH3521 | SCI package is not provided.                                                                                                  |
| SCH3522 | CCOS package is not implemented.                                                                                              |
| SCH3523 | DN specified is not BCS or PBX DN.                                                                                            |
| SCH3524 | Invalid CCOS restriction level.                                                                                               |
| SCH3525 | SCH data is deleted during memory transfers.                                                                                  |
| SCH3526 | This route has not been scheduled for ATM test.                                                                               |
| SCH3527 | This route has already been scheduled for ATM test.                                                                           |
| SCH3528 | ATM Schedule data does not exist for this hour.                                                                               |
| SCH3530 | Pad Value must be input (0-63 dB).                                                                                            |
| SCH3531 | DN must be input.                                                                                                             |
| SCH3532 | Loss value must be input (0-15 dB).                                                                                           |
| SCH3533 | Noise value must be input (27-90 dBm).                                                                                        |
| SCH3534 | Ill ch, B-channel ch of loop Ill can be removed when it is idle. ISL channels need to be idled also.                          |
| SCH3545 | Threshold set is already deleted.                                                                                             |

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| SCH3546 | Cannot remove TSET until all DTI/DLIs assigned to it are removed.                                                                                                                                                                                                                                                                                                                                           |
| SCH3547 | The VAS ID of a data service access code that is defined as the primary access code for a data service DN may not be changed.                                                                                                                                                                                                                                                                               |
| SCH3548 | If Class of Service is VMA, class must also be VCE.                                                                                                                                                                                                                                                                                                                                                         |
| SCH3549 | Server cannot remove access code. It still has agents defined.                                                                                                                                                                                                                                                                                                                                              |
| SCH3550 | <p>VAS Server (PTE) cannot add the access TN because it already exists in the Server (PTE) data base. This could mean that the data bases do not match.</p> <p><b>Action:</b> To ensure compatibility of the shared data bases (when the CSL link is up), try either:</p> <ol style="list-style-type: none"><li>1. removing the TN and adding it back in, or</li><li>2. running Audit.</li></ol>            |
| SCH3551 | <p>VAS Server (PTE) cannot remove the access TN because the access TN does not exist in the Server (PTE) data base. This could mean that the data bases do not match.</p> <p><b>Action:</b> To ensure compatibility of the shared data bases (when the CSL link is up), try either:</p> <ol style="list-style-type: none"><li>1. adding the TN and then removing it, or</li><li>2. running Audit.</li></ol> |
| SCH3552 | <p>VAS Server (PTE) cannot add the access code because it already exists in the Server (PTE) data base. This could mean that the data bases do not match.</p> <p><b>Action:</b> To ensure compatibility of the shared data bases (when the CSL link is up), try either:</p> <ol style="list-style-type: none"><li>1. removing the DN and adding it back in, or</li><li>2. running Audit.</li></ol>          |
| SCH3553 | <p>VAS Server (PTE) cannot remove the access code because it does not exist in the Server (PTE) data base. This could mean that the data bases do not match.</p> <p><b>Action:</b> To ensure compatibility of the shared data bases (when the CSL link is up), try running Audit.</p>                                                                                                                       |
| SCH3554 | Server cannot add/remove the voice/data access code because it is a data/voice access code.                                                                                                                                                                                                                                                                                                                 |

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| SCH3555 | <p>VAS Server (PTE) cannot remove the access TN because it is not in the Server (PTE) list of TNs belonging to the specified access code. This could mean that the data bases do not match.</p> <p><b>Action:</b> To ensure compatibility of the shared data bases (when the CSL link is up), try either:</p> <ol style="list-style-type: none"><li>1. adding the TN back in and then removing it, or</li><li>2. running Audit.</li></ol>                                    |
| SCH3556 | <p>VAS Server (PTE) cannot add the access code (if in LD 23) or the access TN (if in LD 11) because the disk save failed. This could mean that the data bases do not match.</p> <p><b>Action:</b> To ensure compatibility of the shared data bases (when the CSL link is up), try either:</p> <ol style="list-style-type: none"><li>1. removing the TN (if in LD 11) or DN (if in LD 23) (OUT) and adding it back in (NEW), or</li><li>2. running Audit.</li></ol>           |
| SCH3557 | <p>VAS Server (PTE) cannot remove the access code (if in LD 23) or the access TN (if in LD 11) because the disk delete failed. This could mean that the data bases do not match.</p> <p><b>Action:</b> To ensure compatibility of the shared data bases (when the CSL link is up), try either:</p> <ol style="list-style-type: none"><li>1. adding the TN back in (if in LD 11) or DN (if in LD 23) (OUT) and then removing it (NEW), or</li><li>2. running Audit.</li></ol> |
| SCH3558 | SCD DB LD 73 - No DTI threshold set defined.                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| SCH3559 | TRSH may not be defaulted when configuring a new digital loop.                                                                                                                                                                                                                                                                                                                                                                                                               |
| SCH3560 | The threshold set is not defined.                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| SCH3561 | If Class of Service is VMA, class must also be IMA.                                                                                                                                                                                                                                                                                                                                                                                                                          |
| SCH3562 | If Class of Service is IMA, class must also be VCE.                                                                                                                                                                                                                                                                                                                                                                                                                          |
| SCH3566 | The VMS option (CMS, IMA and IVMS = YES) may not be removed if agents are still defined for this DN.                                                                                                                                                                                                                                                                                                                                                                         |
| SCH3567 | An existing ACD DN may not be set up as a VMS access code (CMS, IMA, and IVMS = YES) if agents are still defined for that DN.                                                                                                                                                                                                                                                                                                                                                |

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| SCH3568 | The TN defined as the SADM TN for the indirect CSL (CLS = CMSA) must be a normal SL-1 set TN (i.e., it cannot be a digital set or a virtual TN; e.g. TYPE cannot be 4020, CLS = DSI or VMA)                                                                                                                                 |
| SCH3570 | The VAS ID of the Server (PTE) for which the access code is defined (VSID prompt for either the data service or VMS access code in LD 23) must match the VAS ID of the Server (PTE) for which the access TN is defined (i.e., the VAS Server (PTE) for which the DLI loop is defined — DLOP under the VAS prompt in LD 17). |
| SCH3571 | The TN defined as the SADM TN for the indirect CSL (CLS = CMSA), must not be a virtual TN on a DLI loop.                                                                                                                                                                                                                    |
| SCH3572 | IMA may not be turned off if the CSL option is set (CMS = YES) and there are agents defined for this ACD DN. This is because agents require a special Class of Service for IMA.                                                                                                                                             |
| SCH3574 | If a DLI loop is specified, then TYPE must be TNB (for LUU).                                                                                                                                                                                                                                                                |
| SCH3575 | Invalid CONFIRM return code.                                                                                                                                                                                                                                                                                                |
| SCH3576 | The server has software error. Cannot complete the service change.                                                                                                                                                                                                                                                          |
| SCH3577 | The server has data base error. Cannot complete the service change.                                                                                                                                                                                                                                                         |
| SCH3579 | OPR trunk members not on private line routes, must have DTN COS.                                                                                                                                                                                                                                                            |
| SCH3580 | To be OPR allowed, all members must have DTN COS.                                                                                                                                                                                                                                                                           |
| SCH3581 | ICDR package required.                                                                                                                                                                                                                                                                                                      |
| SCH3582 | SLP package not equipped.                                                                                                                                                                                                                                                                                                   |
| SCH3583 | PRMA requires WTA COS.                                                                                                                                                                                                                                                                                                      |
| SCH3584 | PHTA requires HTA COS.                                                                                                                                                                                                                                                                                                      |
| SCH3585 | PHTA/PCWA require PRMA COS.                                                                                                                                                                                                                                                                                                 |
| SCH3586 | Invalid CPAS DN.                                                                                                                                                                                                                                                                                                            |
| SCH3587 | MCT package not equipped.                                                                                                                                                                                                                                                                                                   |
| SCH3588 | ACD stations not allowed MCTA COS.                                                                                                                                                                                                                                                                                          |
| SCH3589 | TRC key is not allowed when telephone is MCTD.                                                                                                                                                                                                                                                                              |

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| SCH3590 | LLC package not equipped.                                                                              |
| SCH3591 | Only digits 0-9 considered as valid input for the digit count field.                                   |
| SCH3592 | XFA required for MCTA.                                                                                 |
| SCH3593 | OVFL not allowed for PFAN/PFNA.                                                                        |
| SCH3594 | PRMA not allowed on ACD sets.                                                                          |
| SCH3595 | PCWA COS requires Call Waiting (CWT) key.                                                              |
| SCH3596 | This list number was not assigned to this PBX set.                                                     |
| SCH3597 | Cannot move an ACD DN with calls store in the queue.                                                   |
| SCH3600 | If class is "VMA", class must also be "VCE"(duplicate of 3548).                                        |
| SCH3601 | Directed Call Pickup not equipped.                                                                     |
| SCH3602 | Values input are out-of-range. Valid input is 0-8190 for maximum number of SCL allowed for the system. |
| SCH3603 | Value entered is greater than NSCL currently defined.                                                  |
| SCH3604 | Cannot allocate memory for SCL header table.                                                           |
| SCH3605 | List number entered for SCL is greater than MSCL in the Configuration Record.                          |
| SCH3606 | SSCL number is out-of-range.                                                                           |
| SCH3607 | Dialed Name Display cannot exist if CNDA is not configured.                                            |
| SCH3609 | Notification Key Lamp (NKL) already exists for this DN. The set will be configured                     |
| SCH3617 | Account key already exists for this ACD set.                                                           |
| SCH3618 | Non-ACD sets cannot have an Account key.                                                               |
| SCH3619 | Account key cannot be assigned to a Virtual Agent.                                                     |
| SCH3620 | ACD Account Code package is not enabled.                                                               |
| SCH3621 | ACD Package D is not equipped.                                                                         |
| SCH3622 | Entry is out-of-range.                                                                                 |
| SCH3623 | External source number out-of-range.                                                                   |

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| SCH3624     | Flexible Incoming Tones customer options turned off.                                                                                                                                                 |
| SCH3625     | PBX Templates have exceeded 255.<br><b>Action:</b> Run the Template Audit program.                                                                                                                   |
| SCH3626     | The asterisk * and octothorpe # are not allowed for IDC.<br><b>Action:</b> reenter the characters.                                                                                                   |
| SCH3627     | This customer does not have the IDC option enabled.<br><b>Action:</b> Use LD 15 to enable IDC for the customer.                                                                                      |
| SCH3628     | An IDC tree exists for this customer, as defined in LD 49.<br><b>Action:</b> First, delete the IDC Tree.                                                                                             |
| SCH3629     | System Speed Call List number out-of-range.                                                                                                                                                          |
| SCH3630     | THF package not equipped.                                                                                                                                                                            |
| SCH3631     | THF key and DTA Class of Service are mutually exclusive.                                                                                                                                             |
| SCH3632     | FLH timer out-of-range (256-1536 milliseconds).                                                                                                                                                      |
| SCH3633     | THF Class of Service not allowed for this trunk type                                                                                                                                                 |
| SCH3634     | Request for deleting IDGT is not in IDC table.<br><b>Action:</b> Do PRT to confirm the existence.                                                                                                    |
| SCH3635     | Conference Hot Line key can only be one-way (i.e., No DN assigned to key.)<br>reenter.                                                                                                               |
| SCH3636 x y | Longer DN's hundreds group conflict with a shorter hundreds group.<br><b>Action:</b> Select a new DN group, where x is the conflicting hundreds group; y is the shorter existing hundreds group.     |
| SCH3637 x y | A shorter existing DN's hundreds group conflict with a longer hundreds.<br><b>Action:</b> Select a new DN group, where x is the conflicting hundreds group; y is the longer existing hundreds group. |
| SCH3639     | Input expected for Do Not Disturb route.                                                                                                                                                             |
| SCH3640     | Private DN conflicts with existing DN.                                                                                                                                                               |
| SCH3641     | Cannot step to Private route.                                                                                                                                                                        |

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| SCH3642 | Invalid input for the Agent Observe Tone prompt.<br><b>Action:</b> Valid attempts are NO, AGT or ALL. (The default = NO).               |
| SCH3643 | NCOS, NFCR and IDC packages must be equipped.                                                                                           |
| SCH3644 | DC feature is not active.                                                                                                               |
| SCH3645 | DRC route is out-of-range (0-511).                                                                                                      |
| SCH3646 | DRC route does not exist.                                                                                                               |
| SCH3647 | DRC route must be DID.                                                                                                                  |
| SCH3648 | DRC route IDC feature is not active.                                                                                                    |
| SCH3649 | DRC route is controlled by a BSC set.<br><b>Action:</b> Remove BSC set DRC key that controls the NKDM feature.                          |
| SCH3650 | Input for the maximum redirection counter value out-of-range (0-5).                                                                     |
| SCH3651 | Pretranslation block does not exist.<br><b>Action:</b> Set up pretranslation data block on LD 18.                                       |
| SCH3652 | The Data Agent Login option = YES. The Virtual Agent option is invalid when DAL = YES.<br><b>Action:</b> Respond to DAL prompt with NO. |
| SCH3653 | Pretranslation data block already exists.                                                                                               |
| SCH3654 | Pretranslation data block cannot be removed if PREO = 1.<br><b>Action:</b> Set PREO = 0 in LD 15.                                       |
| SCH3655 | MOV command is not allowed.                                                                                                             |
| SCH3656 | Pretranslation package is restricted.                                                                                                   |
| SCH3657 | Must set PREO in LD 15 to have pretranslation block printout.                                                                           |
| SCH3658 | CS key requires that the Speed call or System Speed Call package is equipped.                                                           |
| SCH3659 | Cannot remove CDB if pretranslation block pointer not Nil.<br><b>Action:</b> Remove pretranslation data block (LD 18).                  |

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| SCH3661 | <p>An external DN has been entered for the CFW key when CFXD is the Class of Service.</p> <p><b>Action:</b> Configure an internal DN for this sets CFW key.</p>                                                                                                     |
| SCH3662 | <p>CFXD has been enabled while the set has an external DN configured for the CFW key.</p> <p><b>Action:</b> Remove the external CFW DN before setting the CFXD Class of Service.</p>                                                                                |
| SCH3663 | <p>Another SL-1 set already controls DRC route. New DRC key must control a DID route not currently controlled by a SL-1 set.</p>                                                                                                                                    |
| SCH3664 | <p>Another KEY already controls the same DRC route. Only one DRC key is allowed per DID route.</p>                                                                                                                                                                  |
| SCH3665 | <p>IDC option was changed from ON to OFF. Route IDC option cannot be turned off because a BSC set controls it (a DRC key has been configured for a set).</p> <p><b>Action:</b> Use LD 81 to find and Release the TN with the TRC key. Use LD 11 to NUL the key.</p> |
| SCH3666 | <p>PR12 loop can only be moved to another PRI loop.</p>                                                                                                                                                                                                             |
| SCH3667 | <p>International PRA (PRA2) package is not equipped.</p>                                                                                                                                                                                                            |
| SCH3668 | <p>Loop number entered is not a PR12 loop.</p>                                                                                                                                                                                                                      |
| SCH3669 | <p>ABCD applies only if the DT12 package is equipped.</p>                                                                                                                                                                                                           |
| SCH3670 | <p>User either tried to configure ISDN on a CCB route or tried to configure CCB on an ISDN route.</p> <p><b>Action:</b> Either disable CCB on the route and try configuring ISDN again or set ISDN to NO before setting CCB to YES.</p>                             |
| SCH3671 | <p>Attempt to out a PRI2 loop from DLOP prompt. Use a PRI2 prompt to out a PRI2 loop.</p>                                                                                                                                                                           |
| SCH3672 | <p>Attempt to configure an ISDN route without the customer configured for ISDN, or without DCH configured.</p> <p><b>Action:</b> Configure customer with ISDN in LD 15.</p>                                                                                         |
| SCH3673 | <p>Customer IDC option cannot be disabled because SL-1 sets control DID route Day/Night mode.</p> <p><b>Action:</b> First NUL all DRC keys on customer SL-1 sets.</p>                                                                                               |

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| SCH3674 | Cannot out an MCAD entry.                                                                                          |
| SCH3675 | MCAD entry does not exist.                                                                                         |
| SCH3676 | MCAD entry already exists.                                                                                         |
| SCH3678 | Null MCAD entry is not allowed. MCAD entry 0 is already defined as a continuous tone.                              |
| SCH3679 | Meridian digital set package not equipped.                                                                         |
| SCH3680 | AOM input is out-of-range.                                                                                         |
| SCH3681 | Corresponding data TN is defined. Cannot assign key 7, its local program now.                                      |
| SCH3682 | Digit display Class of Service (ADD, DDS) is on. Cannot assign key 7 its local program now.                        |
| SCH3683 | For 2X16 set, handsfree Class of Service is defined. Cannot assign key 15 as it                                    |
| SCH3684 | The M2006 and M2016 sets do not support Digit Display Class of Service.                                            |
| SCH3685 | The M2008, M2616, and M2216 sets with key 7 defined as a feature key already cannot assign Digit Display COS.      |
| SCH3686 | The M2008, M2616, and M2216 sets with key 7 defined for its corresponding data TN cannot assign Digit Display COS. |
| SCH3687 | The M2016 set cannot be assigned DTA CLS.                                                                          |
| SCH3688 | The M2000 series data TN key 7 cannot be configured.                                                               |
| SCH3689 | The M2000 series data TN key 7 (or key 5 for M2006) of the corresponding voice TN is defined.                      |
| SCH3690 | The M2616 set with key 15 defined, cannot assign HFA CLS.                                                          |
| SCH3691 | TOV input out-of-range.                                                                                            |
| SCH3692 | Wrong OPE input. Cannot match mnemonics.                                                                           |
| SCH3693 | Wrong TRAN input. Cannot match mnemonics.                                                                          |
| SCH3694 | Wrong PAR input. Cannot match mnemonics.                                                                           |
| SCH3695 | Wrong DTR input. Cannot match mnemonics.                                                                           |

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| SCH3696 | Wrong DUP input. Cannot match mnemonics.                                                                                        |
| SCH3697 | Wrong HOT input. Cannot match mnemonics.                                                                                        |
| SCH3698 | Wrong AUT input. Cannot match mnemonics.                                                                                        |
| SCH3699 | Wrong BAUD input. Cannot match mnemonics.                                                                                       |
| SCH3700 | Wrong DCD input. Cannot match mnemonics.                                                                                        |
| SCH3701 | Wrong PRM input. Cannot match mnemonics.                                                                                        |
| SCH3702 | Wrong VLL input. Cannot match mnemonics.                                                                                        |
| SCH3703 | Wrong MOD input. Cannot match mnemonics.                                                                                        |
| SCH3704 | Wrong INT input. Cannot match mnemonics.                                                                                        |
| SCH3705 | Wrong CLK input. Cannot match mnemonics.                                                                                        |
| SCH3706 | MPDA/ADATA is either not equipped or response timeout.                                                                          |
| SCH3707 | M2016 cannot be configured as data TN.                                                                                          |
| SCH3709 | PRI2 data does not exist.                                                                                                       |
| SCH3710 | The specified ANI data block has configured already (for command NEW).                                                          |
| SCH3711 | Incorrect NPA format. It should be N = 2-9, P = 0/1, A = 0-9.                                                                   |
| SCH3712 | The specified ANI data block has not configured yet (for PRT, CHG, and OUT).                                                    |
| SCH3713 | The input value is out-of-range.                                                                                                |
| SCH3714 | The specified input data has been configured already (for command NEW).                                                         |
| SCH3715 | Range input is not allowed for SUB response.                                                                                    |
| SCH3716 | Ending digit is smaller than the starting digit for range input.                                                                |
| SCH3717 | The specified input data has not configured yet.                                                                                |
| SCH3718 | Timers for this feature are defined in increments of 30 seconds. The timer value will increase to the next 30 second increment. |
| SCH3719 | SFA not allowed unless FNA is defined.                                                                                          |

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| SCH3720 | The Speed Call List for the default (0) Pretranslation Calling Group does not exist.                                                                    |
| SCH3721 | Device must be disabled to permit PMS link change.<br><b>Action:</b> Disable the link in LD 37.                                                         |
| SCH3722 | Added loops must be of the same type as DCHL.                                                                                                           |
| SCH3723 | ATIM out-of-range (0-126).                                                                                                                              |
| SCH3724 | Invalid Attendant Alternative Answering (AAA) DN type. Valid types are Set DN (PBX, SL-1, and Digital) and ACD DN.                                      |
| SCH3725 | Invalid card type specified for prompt FDLC. Possible types are XNET (Network Card), XPEC (Controller), XNPD (Network/DTR Card), ALL.                   |
| SCH3726 | Invalid download option specified for prompt FDLC.<br><b>Action:</b> Enter F for forced download or C for conditional download.                         |
| SCH3727 | Invalid Peripheral Software (PSW) version type specified for prompt FDLC. Possible values are: L = Latest, C = Current (default), S = specified (1-99). |
| SCH3728 | Invalid Peripheral Software (PSW) version number (1-99) specified for prompt FDLC.                                                                      |
| SCH3729 | Download parameter missing or invalid.                                                                                                                  |
| SCH3730 | Since L (latest) or C (current) has been entered for download type, a version number cannot be entered.                                                 |
| SCH3731 | Invalid FDCT pointer found: possible memory corruption.                                                                                                 |
| SCH3732 | Missing software for Network Card (NT8D04) on disk.<br><b>Action:</b> Get the disk with the proper Network Card software version.                       |
| SCH3733 | Missing software for Controller (NT8D01) on disk.<br><b>Action:</b> Get the disk with the proper Controller software version.                           |
| SCH3734 | Error in Mass Storage Unit.<br><b>Action:</b> Check Mass Storage Unit.                                                                                  |
| SCH3735 | Cannot change data for superloop 24 or 28.                                                                                                              |
| SCH3736 | Wrong number of inputs.                                                                                                                                 |



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| SCH3737 | Input out-of-range.                                                                                                                                          |
| SCH3738 | Cannot delete Controller defined for the new Network/DTR loop.                                                                                               |
| SCH3739 | The M2006 DN is only allowed on key 0.                                                                                                                       |
| SCH3740 | A PRI2 TN can only be associated with a PRI2 route.                                                                                                          |
| SCH3741 | The International Primary Rate Access (IPRA) package is not equipped.                                                                                        |
| SCH3743 | The Load Management (LMAN) package is not equipped.                                                                                                          |
| SCH3744 | The Send Message (MSG) and Get Message (GMSG) keys are only allowed on ACD sets.                                                                             |
| SCH3745 | The Send Message (MSG) and Get Message (GMSG) keys are only allowed on M2000 series sets with a digit display.                                               |
| SCH3755 | Input out-of-range.                                                                                                                                          |
| SCH3756 | Table does not exist.                                                                                                                                        |
| SCH3757 | Invalid Target. The Target identifiers must be part of the Coordinated Dialing Plan (CDP) or Uniform Dialing Plan (UDP).                                     |
| SCH3758 | Do not define a Time Overflow Timer (TOFT) if a Day Table for Network ACD is to be created. Delete TOFT and create the Day Table.                            |
| SCH3759 | Do not define a Night Call Forward (NCFW) DN if a Night Table for Network ACD is to be created.<br><b>Action:</b> Delete NCFW DN and create the Night Table. |
| SCH3760 | Network ACD Target Table is full.                                                                                                                            |
| SCH3761 | Table already exists.                                                                                                                                        |
| SCH3762 | A Table must be specified for the NEW, CHG, and PRT commands.                                                                                                |
| SCH3763 | Timer for the Target is expected.                                                                                                                            |
| SCH3764 | Auxiliary Processor (AUX) message was not sent because enough Call Registers are lacking. Message is a table change update message.                          |
| SCH3765 | An ACD DN cannot be deleted if it has Target Tables assigned to it.<br><b>Action:</b> Remove these Tables first.                                             |

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| SCH3766 | The Network ACD package 178 must be equipped to enter TYPE = NACD.                                                                                                                                                                                                   |
| SCH3767 | No Target Table of that type exists for this ACD DN.                                                                                                                                                                                                                 |
| SCH3768 | Too many digits entered for this ACD DN.                                                                                                                                                                                                                             |
| SCH3769 | Not enough PDS available for that Target Table.                                                                                                                                                                                                                      |
| SCH3770 | The Network Services package 148, Enhanced Overflow package 178 and Network ACD package 207, are required for all remote targets.                                                                                                                                    |
| SCH3771 | Network ACD package 178 is not equipped.                                                                                                                                                                                                                             |
| SCH3772 | Automatic Digit Display (ADD) or Digit Display Service (DDS) Class of Service (CLS) is required for this function.                                                                                                                                                   |
| SCH3775 | Cannot assign an ICI key to a route belonging to a different CPG.                                                                                                                                                                                                    |
| SCH3776 | This Listed Directory Number (LDN) belongs to a different CPG and cannot be reused.                                                                                                                                                                                  |
| SCH3777 | CPG basic package is not equipped.                                                                                                                                                                                                                                   |
| SCH3778 | You cannot disable the Multi-Tenant (TENS) feature because some Console Presentation Groups (CPGs) still exist. For CPG 1-63, when TYPE = CPGP                                                                                                                       |
| SCH3779 | This customer has CPG Level Services feature enabled already.                                                                                                                                                                                                        |
| SCH3780 | You cannot enable Console Presentation Group (CPG) Level services for this customer, because they have Departmentally Listed DN (DLN) allowed. The CPG and DLN features are mutually exclusive.<br><b>Action:</b> Go to LD 15 and set DLN to NO before enabling CPG. |
| SCH3781 | Cannot disable the CPG Level Services feature when CPG data blocks (1-63) still exist.                                                                                                                                                                               |
| SCH3782 | The basic attendant parameter block of the customer (CPG 0) does not exist.                                                                                                                                                                                          |
| SCH3783 | Shared Tenant Service is not allowed because the CPGs defined for Tenant Services overlap.<br><b>Action:</b> Print out all the CPG Attendant definitions and verify that all Attendants belong to only one CPG at a time.                                            |
| SCH3784 | CPG number is out-of-range (1-63).                                                                                                                                                                                                                                   |
| SCH3785 | That CPG data block already exists.                                                                                                                                                                                                                                  |

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| SCH3786       | Cannot configure a CPG data block for a CPG without any attendants.                                                                                     |
| SCH3787       | CPG data block does not exist.                                                                                                                          |
| SCH3788       | Cannot delete a CPG data block when the CPG is still used by tenants/routes.                                                                            |
| SCH3789       | Cannot remove a CPG while it's associated CPG data block still exists.                                                                                  |
| SCH3790       | Cannot remove the last Attendant from the CPG definition while it's CPG data block exists.                                                              |
| SCH3791       | Warning: The ICI key definition of the route specified for the previous CPG data block will be used.                                                    |
| SCH3792       | <p>You cannot remove a Customer Data Block (CDB) while CPG data blocks still exist.</p> <p><b>Action:</b> First remove the CPG data blocks in LD93.</p> |
| SCH3793       | The CPG Level Services must be enabled before configuring a CPG data block.                                                                             |
| SCH3794       | This customer has CPG Level Services feature enabled and therefore cannot enable the Department Listed DN (DLDN) feature.                               |
| SCH3795       | The CPG_DEFS/RTE_CPG ORDF block does not exist. Severe data corruption has occurred. Cannot proceed.                                                    |
| SCH3796 x x x | As the CPG feature is enabled, the Attendant consoles in customized CPGs are taken out automatically, where: x x x = the Attendant numbers taken out.   |
| SCH3797       | That attendant number belongs to another CPG.                                                                                                           |
| SCH3800       | Level 4 can only be removed by removing level 3.                                                                                                        |
| SCH3801       | Level 2 cannot be removed for L1 labels.                                                                                                                |
| SCH3802       | MFC level 2 does not exist.                                                                                                                             |
| SCH3803       | Incoming table still exists in an own_nic_blk.                                                                                                          |
| SCH3804       | Outgoing table still exists in an nic_blk.                                                                                                              |
| SCH3805       | Levels 3 and 4 must both be defined.                                                                                                                    |
| SCH3806       | During call processing may cause problems.                                                                                                              |
| SCH3807       | Translation type not tab for customer.                                                                                                                  |

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| SCH3808 | No DN-PSA translation table.                                                                                                                                           |
| SCH3809 | Entries still in DN-PSA translation table.                                                                                                                             |
| SCH3810 | DN already in table.                                                                                                                                                   |
| SCH3811 | DN not in table.                                                                                                                                                       |
| SCH3812 | More than one Radio Paging System exists. Table entries must be removed before resetting to single system.                                                             |
| SCH3813 | EXOP not allowed without FFC package equipped.                                                                                                                         |
| SCH3814 | Input for CDTO prompt is out-of-range (0-10).                                                                                                                          |
| SCH3815 | No ASEQ currently defined.                                                                                                                                             |
| SCH3816 | ASEQ input is out-of-range (0-9).                                                                                                                                      |
| SCH3817 | FFC state is being set to zero due to conflict with the new ASEQ.                                                                                                      |
| SCH3818 | FFC conflicts with another FFC's numeric equivalent.                                                                                                                   |
| SCH3819 | Numeric equivalent conflicts in the DN translator.                                                                                                                     |
| SCH3820 | FFC and/or equivalent conflicts with an already existing DN.                                                                                                           |
| SCH3821 | The Scheduled Access Restriction package is not equipped.                                                                                                              |
| SCH3822 | Attempting to create a new Authcode when the number of digits for the Authcode ALEN, is zero.                                                                          |
| SCH3823 | Maximum Scheduled Access Restriction Group is out-of-range (0-127).                                                                                                    |
| SCH3824 | The number of digits of the Authorization code to be validated is outside of the range (0, ALEN), where ALEN is the number of digits in the Authorization code itself. |
| SCH3825 | The response is other than YES or NO.                                                                                                                                  |
| SCH3826 | The CRCS value is outside of the range (0-7).                                                                                                                          |
| SCH3827 | The TGAR value is outside of the range (0-15).                                                                                                                         |
| SCH3828 | Unable to match the input with the Stored Service Mnemonics.                                                                                                           |
| SCH3829 | Cannot create aut block when ALEN = 0.                                                                                                                                 |

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| SCH3830 | There is no room in the AUTH Pointer Table.                                                                                                                                                                                                                 |
| SCH3831 | {CR} is not allowed when AUTH Block SARG number for GRP is expected.                                                                                                                                                                                        |
| SCH3832 | The SARG number is outside of the range (1, SMAX) where SMAX is the maximum SARG number allowed.                                                                                                                                                            |
| SCH3833 | The SAR Block does not yet exist for this customer.                                                                                                                                                                                                         |
| SCH3834 | No AUTH Blocks exist for this customer.                                                                                                                                                                                                                     |
| SCH3835 | The hour and/or minute entered for the off-period Start/Stop times is out-of-range.<br>Where: HH= Hour, MM= Minute, and<br>HH is greater than or equal to 0, and less than or equal to 23;<br>MM is greater than or equal to 0 and less than or equal to 59 |
| SCH3836 | Higher SAR group number exists.                                                                                                                                                                                                                             |
| SCH3837 | {CR} is not allowed for the lock request.                                                                                                                                                                                                                   |
| SCH3838 | The lock number must be either 1 or 2, to correspond to one of the two off-periods.                                                                                                                                                                         |
| SCH3839 | Attempting to print a non-existing service code corresponding to the authorization code entered.                                                                                                                                                            |
| SCH3840 | ATD is not allowed on input. Enter ATA or either CUS or GRP. For the latter two, ATD is implied.                                                                                                                                                            |
| SCH3841 | Attempting to remove or change a non-existent SARG entry.                                                                                                                                                                                                   |
| SCH3842 | Attempting to create a new SARG entry corresponding to one which already exists.                                                                                                                                                                            |
| SCH3843 | {CR} is not allowed for SMAX prompt.                                                                                                                                                                                                                        |
| SCH3844 | {CR} is not allowed for AVAL prompt.                                                                                                                                                                                                                        |
| SCH3845 | Attempting to lock onto an unusual off-period time (both START and STOP times are zero).                                                                                                                                                                    |
| SCH3846 | The Authcode entry pointer does not point to the start of the storage corresponding to the Authcode entered (This should never occur).                                                                                                                      |

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| SCH3847 | Attempting to enter extra information on the same line as the service data which must appear by itself. |
| SCH3848 | {CR} is not allowed for services which the command is not a change.                                     |
| SCH3849 | Requesting to print a single Authcode which does not exist.                                             |
| SCH3850 | Attempting to insert the Authcode data when it's location is unknown.                                   |
| SCH3851 | SS table number is out-of-range.                                                                        |
| SCH3852 | SS head table does not exist.                                                                           |
| SCH3853 | Entry does not exist in table.                                                                          |
| SCH3854 | Receive section of table is full.                                                                       |
| SCH3855 | Input out-of-range (11-15).                                                                             |
| SCH3856 | Input out-of-range (1-15).                                                                              |
| SCH3857 | Invalid function for this table.                                                                        |
| SCH3858 | Network package denied.                                                                                 |
| SCH3859 | Attempt to assign more than one CPR key on a SL-1 set.                                                  |
| SCH3860 | Digit display is required for CPR feature.                                                              |
| SCH3861 | More than 4 characters were entered.                                                                    |
| SCH3862 | ASCII count variable is less than zero.                                                                 |
| SCH3864 | Remove NWK ACOD when changing to 11.                                                                    |
| SCH3889 | Response to SUPN INC was RVBD.<br><b>Action:</b> Response to SUPN OUT must be RVBD.                     |
| SCH3890 | DN length conflicts with DNs already existing in DN-PSA translation table.                              |
| SCH3891 | Protected block length for station input not accepted.                                                  |
| SCH3900 | Multi-Tenant Service package is restricted.                                                             |
| SCH3901 | Only ALLOW or DENY can be entered.                                                                      |
| SCH3902 | Only one input field allowed.                                                                           |

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| SCH3903 | Null input not allowed.                                                                               |
| SCH3904 | Tenant Service is not enabled for this customer.                                                      |
| SCH3905 | Not all attendant console groups have been removed.                                                   |
| SCH3906 | NEW or OUT is not allowed for this TYPE.                                                              |
| SCH3907 | CHG is not allowed for this TYPE.                                                                     |
| SCH3908 | Not all Route ACCESS_ARRAY blocks have been removed.                                                  |
| SCH3909 | Not all Tenant ACCESS_ARRAY blocks have been removed.                                                 |
| SCH3910 | Tenant number out-of-range.                                                                           |
| SCH3911 | Route number out-of-range.                                                                            |
| SCH3912 | Attendant Console Presentation Group number out-of-range.                                             |
| SCH3913 | Cannot OUT Multi-Tenant. There are still sets which belong to a tenant (have Class of Service TENA).  |
| SCH3914 | Attendant Console number out-of-range.                                                                |
| SCH3915 | Attendant Console Presentation Group cannot be removed while it is specified for a Tenant or a Route. |
| SCH3916 | Attendant Console Presentation Group Definitions block, CPG_DEFS, is missing.                         |
| SCH3917 | Tenant Ordinals block, TEN_CPG_ORDLS, is missing.                                                     |
| SCH3918 | Route Ordinals block, RTE_CPG_ORDLS, is missing.                                                      |
| SCH3919 | Invalid response to ALLOW or DENY.                                                                    |
| SCH3920 | Attendant Console Presentation Group 0 is not service changeable.                                     |
| SCH3921 | Tenant Service is already configured for this Customer.                                               |
| SCH3922 | Attendant Console Presentation Group is already configured.                                           |
| SCH3923 | Attendant Console Presentation Group is not configured.                                               |
| SCH3924 | A Tenant cannot be denied access to itself.                                                           |

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| SCH3925 | Response to AUTR is invalid.                                                                                                                                                                                                                                                                                                                                                                           |
| SCH3926 | Digital set package is unequipped.                                                                                                                                                                                                                                                                                                                                                                     |
| SCH3927 | Touchphone set package is unequipped.                                                                                                                                                                                                                                                                                                                                                                  |
| SCH3928 | TN type does not match with the corresponding voice or data TN.                                                                                                                                                                                                                                                                                                                                        |
| SCH3929 | Loop must be quadruple density loop for Touchphone or Digital set.                                                                                                                                                                                                                                                                                                                                     |
| SCH3930 | Maximum number of keys is either 9, 11, or 18 for compact sets.                                                                                                                                                                                                                                                                                                                                        |
| SCH3931 | No default for MXKY if defining a new compact set.                                                                                                                                                                                                                                                                                                                                                     |
| SCH3932 | Keys 6-16 are reserved for future key expansion on Touchphone.                                                                                                                                                                                                                                                                                                                                         |
| SCH3933 | Default keys for Touchphone are not allowed if a new set is being defined                                                                                                                                                                                                                                                                                                                              |
| SCH3934 | This key feature is not applicable on Digital sets.                                                                                                                                                                                                                                                                                                                                                    |
| SCH3935 | For M3000 Data PDN must match DN of key 17 for the voice TN. Change key 17 of the Voice TN to null, then change the data PDN to the appropriate PDN and define key 17 for the voice TN once again. For M2317: Data PDN must match DN of key 10 for the voice TN. Change key 10 of the Voice TN to null, then change the data PDN to the appropriate PDN and define key 10 for the voice TN once again. |
| SCH3936 | Cannot delete the data TN until key 10 of the M2317, or key 17 of the M3000 is changed to NUL.                                                                                                                                                                                                                                                                                                         |
| SCH3937 | Loop specified for TOTN prompt must be a quadruple density loop for Digital set.                                                                                                                                                                                                                                                                                                                       |
| SCH3938 | TN types for voice and data ports of a Digital set do not match.                                                                                                                                                                                                                                                                                                                                       |
| SCH3939 | For M3000: Key 17 of voice TN must be NULL before changing PDN of data TN. For M2317: Key 10 of voice TN must be NULL before changing PDN of data TN.                                                                                                                                                                                                                                                  |
| SCH3941 | For Touchphone, key 0-5 can only be SCR/N, MCR/N, PLR/N and DIG.                                                                                                                                                                                                                                                                                                                                       |
| SCH3942 | For Touchphone and M2000 series digital sets, this feature cannot be defined for this key number (17-35).                                                                                                                                                                                                                                                                                              |
| SCH3943 | Only Digital sets, M3000 sets, ISDLIC cards or Digitone Receivers can be quadruple density.                                                                                                                                                                                                                                                                                                            |
| SCH3944 | Cannot have CMSA Class of Service for digital telephones.                                                                                                                                                                                                                                                                                                                                              |

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| SCH3945 | VCE is used for voice TNs, DTA is used for data TNs. For digital line cards the TN unit range is: VCE = 0-7, DTA 8-15. For NT8D02: VCE = 0-15, DTA = 16-31.                                             |
| SCH3946 | Cannot move a digital voice TN to a data TN or vice versa.                                                                                                                                              |
| SCH3947 | The corresponding voice/data TN of the moved digital telephone TN should also                                                                                                                           |
| SCH3948 | The telephone type of the moving TN does not match with the set type of the corresponding voice/data TN of the TOTN.                                                                                    |
| SCH3949 | Cannot change double density card (BCS card) to quadruple density card (ISDL card).                                                                                                                     |
| SCH3950 | AAK key or AAA Class of Service is not allowed for this type of set.                                                                                                                                    |
| SCH3951 | Data DN key cannot be defined until data TN is defined.                                                                                                                                                 |
| SCH3953 | The modem TN must be in the same customer group as the ADM trunk.                                                                                                                                       |
| SCH3954 | The Touchphone data DN can have only two members, the voice TN and the data TN.                                                                                                                         |
| SCH3955 | 2009, 2018, and 2112 cannot be ACD sets.                                                                                                                                                                |
| SCH3956 | RANF, RAN1, RAN2 must be assigned a different route number. With the Multiple Language Wake Up (MLWU) feature, RANF, RAN1 and RAN2 must be different from language routes (LA11 through LA52 in LD 15). |
| SCH3959 | A non-PRI loop number was specified in the TN, but the route member is PRA mode.                                                                                                                        |
| SCH4000 | Number of characters specified for a block identification line is out-of-range.                                                                                                                         |
| SCH4001 | The maximum number of block IDs is out-of-range.                                                                                                                                                        |
| SCH4002 | An attempt was made to increase the RIT but there is not enough protected storage. Remove and copy manually.                                                                                            |
| SCH4003 | RANF, RAN1, RAN2 must be assigned to different routes.                                                                                                                                                  |
| SCH4021 | Cannot remove Speed Call List which is used as a pretranslation list in the speed call data block.                                                                                                      |
| SCH4022 | Response AONW is out-of-range (3-32768).                                                                                                                                                                |
| SCH4023 | FFW key is already defined.                                                                                                                                                                             |

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| SCH4024 | Private Line routes are not applicable.                                                                                                                                                                                                         |
| SCH4025 | Route entered cannot be a RAN Route.                                                                                                                                                                                                            |
| SCH4050 | ALEN must be in the range ({AVAL}, 16).                                                                                                                                                                                                         |
| SCH4061 | Before Release 10: VNET route has changed to a Non-VNET route.<br><b>Action:</b> Use LD 14 or manual initialize to allocate extra memory for CPN trunks.<br>After Release 10: VNET route has changed to a Non-VNET route. CMFI has been zeroed. |
| SCH4062 | Before Release 10: NON-VNET route has changed to a VNET route.<br><b>Action:</b> Use LD 14 or manual initialize to allocate extra memory for CPN trunks.<br>After Release 10: VNET route has changed to a Non-VNET route. ISST has been zeroed. |
| SCH4063 | Private line route.                                                                                                                                                                                                                             |
| SCH4064 | No CAS keys defined for this CUST.                                                                                                                                                                                                              |
| SCH4065 | Conference loop increase out-of-range (larger than 79).                                                                                                                                                                                         |
| SCH4066 | Different Multifrequency signaling method defined for this route.                                                                                                                                                                               |
| SCH4067 | Trunks must be removed before changing MF signaling type.                                                                                                                                                                                       |
| SCH4068 | MFE Signaling allowed on incoming trunks only.                                                                                                                                                                                                  |
| SCH4069 | DN size for pretranslation table must be less than 5.                                                                                                                                                                                           |
| SCH4070 | Incoming non-VNET routes using L1 MFC cannot be assigned tables which contain more than 2 levels of signaling.                                                                                                                                  |
| SCH4071 | Route entered does not exist.                                                                                                                                                                                                                   |
| SCH4072 | MAXN must be greater than 0 for TYPE = ACG.                                                                                                                                                                                                     |
| SCH4073 | Value for MAXN out-of-range (1-63).                                                                                                                                                                                                             |
| SCH4074 | Only two input fields allowed.                                                                                                                                                                                                                  |
| SCH4075 | Only NITE or an AGNO accepted for second option.                                                                                                                                                                                                |
| SCH4076 | NTNO cannot be greater than 4 digits.                                                                                                                                                                                                           |
| SCH4077 | DN entered must be an LDN.                                                                                                                                                                                                                      |

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| SCH4078 | Route must be outgoing for RACC and incoming for RACG.                                  |
| SCH4079 | Attendant Console Groups exist greater than MAXN.                                       |
| SCH4080 | Loop density must be 4D or DD.                                                          |
| SCH4081 | Local tone out-of-range (0-3).                                                          |
| SCH4082 | HFA/HFD only allowed for M2018 sets.                                                    |
| SCH4083 | DTA only allowed for Digital sets.                                                      |
| SCH4084 | Invalid card type for Digital set TN.                                                   |
| SCH4085 | Single density not allowed for Digital sets.                                            |
| SCH4086 | Cannot change DTA/VCE Class of Service.                                                 |
| SCH4100 | LDN has a Tenant Number cannot be deleted or changed.                                   |
| SCH4101 | ALDN Group cannot be used at a satellite node.                                          |
| SCH4102 | Input out-of-range (3-19).                                                              |
| SCH4103 | A LDN number higher than input value for MAXN is defined.                               |
| SCH4104 | Input for prompt ICIM must be one of NON, LDN0, LDN1, LDN2, LDN3 or {CR}.               |
| SCH4105 | Input not accepted - Tenant Data Defined.                                               |
| SCH4106 | A tenant number which is higher than input value for MXTN is defined in protected data. |
| SCH4107 | No package that uses station group data is equipped.                                    |
| SCH4108 | Tenant number must be in the range 0 to MXTN in LD 15.                                  |
| SCH4109 | Station Group already defined.                                                          |
| SCH4110 | Attendant number defined in a console group.                                            |
| SCH4111 | Cannot remove route mapped to an ACG.                                                   |
| SCH4112 | Cannot accept OGT for route mapped to ACG.                                              |
| SCH4113 | Station group not defined.                                                              |

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| SCH4114 | Input must be one of A, MU, or {CR}.                                                                                                                                                                    |
| SCH4115 | Warning: Counting edge of PPM pulse bit(s) for the DTI loop is not compatible with the incoming CONN(s) signal in the signaling category table entered. Metering will not be performed on this channel. |
| SCH4116 | Warning: Route entered for DTI channel has battery reversal type of metering. Metering will not be performed on this channel.                                                                           |
| SCH4117 | Warning: DTI loop has PPM pulse bit(s) defined but entered route does not have PPM type of metering. Metering will not be performed on this channel.                                                    |
| SCH4118 | Warning: Entered route has PPM type of metering, but DTI loop does not have PPM pulse bit(s) defined. Metering will not be performed on this channel.                                                   |
| SCH4119 | No DTI TNs exist.                                                                                                                                                                                       |
| SCH4120 | Entry out-of-range.                                                                                                                                                                                     |
| SCH4121 | Invalid loop type entered.<br><b>Action:</b> For JDMI and DTI2, you must enter JDMI loop. For PRI2, a PRI2 loop is required.                                                                            |
| SCH4122 | DTI data does not exist.                                                                                                                                                                                |
| SCH4123 | Timers cannot be created.                                                                                                                                                                               |
| SCH4124 | Channel out-of-range.                                                                                                                                                                                   |
| SCH4125 | DTI loop is not defined.                                                                                                                                                                                |
| SCH4126 | Signaling/pad category does not exist.                                                                                                                                                                  |
| SCH4127 | Signaling/pad category table cannot be removed because there are no references to the table.                                                                                                            |
| SCH4128 | Signaling/pad category already exists.                                                                                                                                                                  |
| SCH4129 | Invalid abcd code.                                                                                                                                                                                      |
| SCH4130 | Non-compatible loops (digital and analog).                                                                                                                                                              |
| SCH4131 | DTI2 package is not equipped.                                                                                                                                                                           |
| SCH4132 | Timers cannot be removed.                                                                                                                                                                               |

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| SCH4133 | Timer values must be in a descending order.           |
| SCH4134 | Non-analog loop.                                      |
| SCH4135 | Non-digital trunk type.                               |
| SCH4136 | Destination loop is not the same type as source loop. |
| SCH4137 | Not allowed for a DTI loop.                           |
| SCH4138 | Channel-TN conversation failed.                       |
| SCH4139 | Signaling category can accept no more TNs.            |
| SCH4140 | Device must be disabled to permit end link change.    |
| SCH4141 | CND package restricted.                               |
| SCH4142 | CND user should be only user of physical unit.        |
| SCH4143 | CND name length exceeds maximum allowed.              |
| SCH4144 | Illegal ASCII character.                              |
| SCH4145 | Attempt to remove name in command NEW.                |
| SCH4146 | Cannot find CND data in line block.                   |
| SCH4147 | YES or NO only legal response to the prompt.          |
| SCH4148 | Entry out-of-range (0-127).                           |
| SCH4149 | Attempt to remove display in command YES.             |
| SCH4150 | Display is not configured.                            |
| SCH4151 | Display is not assigned to this customer.             |
| SCH4152 | Entry out-of-range (0-63).                            |
| SCH4153 | Attempt to remove display group in command NEW.       |
| SCH4154 | Group is not configured.                              |
| SCH4155 | Unable to change name due to name block overflow.     |
| SCH4156 | Display is already configured.                        |

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| SCH4157 | Invalid CND display type.                                                                           |
| SCH4158 | CND display type conflict.                                                                          |
| SCH4159 | SCTRNTRANS failed.                                                                                  |
| SCH4160 | ICI key is already assigned to area.                                                                |
| SCH4161 | Legal ICI key is assigned to area.                                                                  |
| SCH4162 | Illegal response to area.                                                                           |
| SCH4163 | Input to area out-of-range.                                                                         |
| SCH4164 | CND display group does not exist.                                                                   |
| SCH4165 | CND display group must be entered except PRT.                                                       |
| SCH4166 | CND display group out-of-range (0-63).                                                              |
| SCH4167 | CND display number must be entered.                                                                 |
| SCH4168 | CND display number out-of-range (0-127).                                                            |
| SCH4169 | CND display group already exists.                                                                   |
| SCH4170 | Maximum 10 groups entered in one pass.                                                              |
| SCH4171 | CND display is not assigned to this customer.                                                       |
| SCH4172 | CND display is already assigned.                                                                    |
| SCH4173 | CND display must be entered except PRT.                                                             |
| SCH4174 | Request for CND name memory is too large.                                                           |
| SCH4175 | CND link is not configured.                                                                         |
| SCH4176 | CNDGROUPTBL BLK cannot be created, NIL PTR returns from GET_PDATA_BLK, DISI will not be created.    |
| SCH4177 | CND_DISPLAYS BLK cannot be created, NIL PTR returns from GET_PDATA_BLK, DISI will not be created.   |
| SCH4178 | CNDMONITORAREA BLK cannot be created, NIL PTR returns from GET_UDATA_BLK, DISI will not be created. |

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| SCH4179 | CND display must be disabled to be removed from configuration.                                                        |
| SCH4180 | Display is already assigned to attendant.                                                                             |
| SCH4181 | CND must be removed before CND TTY.                                                                                   |
| SCH4193 | AC15B trunk is still attached.                                                                                        |
| SCH4194 | CMF must be entered for GEC NLC class.                                                                                |
| SCH4195 | Input value must be EM4.                                                                                              |
| SCH4196 | Input must be A15B.                                                                                                   |
| SCH4197 | The NLC trade mark is not GEC.                                                                                        |
| SCH4198 | CLS must be CMF.                                                                                                      |
| SCH4199 | Input must be NT or GEC.                                                                                              |
| SCH4200 | CLS of AAA and FNA conflict.                                                                                          |
| SCH4201 | No Authcode table defined for this customer.                                                                          |
| SCH4202 | VNET route has changed to NON-VNET route. CMFI contained greater than 2 levels of signaling, so it was zeroed.        |
| SCH4203 | VNET route has changed to NON-VNET route. ISST has been zeroed.                                                       |
| SCH4204 | 60 or 70 ms is not supported when TDSO = NO, or 50 ms is not supported when TDSO = YES.                               |
| SCH4206 | TTY 15 is reserved for HIST file.                                                                                     |
| SCH4209 | BGD or PMS not allowed for user prompt if device is PRT.                                                              |
| SCH4210 | Numeric input out of valid range (1-9).                                                                               |
| SCH4211 | Auto and R2 mode cannot be configured at the same time. Auto takes precedence and R2 mode feature will be turned off. |
| SCH4212 | Empty block is not allowed.                                                                                           |
| SCH4365 | This conference loop is used for AWU.                                                                                 |
| SCH4500 | You must first define the LSC in LD15 before using the TIDY prompt.                                                   |

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| SCH4501 | Two entries are required for table.                                                                                                                                                                                                                                                               |
| SCH4502 | Calling number is out-of-range.                                                                                                                                                                                                                                                                   |
| SCH4503 | Speed Call List number is out-of-range.                                                                                                                                                                                                                                                           |
| SCH4504 | No table SCL pointer.                                                                                                                                                                                                                                                                             |
| SCH4505 | 128 blocks are already configured (for command NEW).                                                                                                                                                                                                                                              |
| SCH4506 | PREO is out-of-range.                                                                                                                                                                                                                                                                             |
| SCH4507 | Invalid response entered.                                                                                                                                                                                                                                                                         |
| SCH4508 | Invalid number of parameters entered.                                                                                                                                                                                                                                                             |
| SCH4515 | JCO/LST/LNT applies to CO loopstart non-digital trunk only.                                                                                                                                                                                                                                       |
| SCH4516 | M2317 set requires DLT2 package (91).                                                                                                                                                                                                                                                             |
| SCH4517 | Package for Caller's Name Display not equipped.                                                                                                                                                                                                                                                   |
| SCH4518 | Wrong telephone type.<br><b>Action:</b> Set must have a digit display for CNDA/DNDA Class of Service.                                                                                                                                                                                             |
| SCH4519 | M2317: invalid feature for specified key number.                                                                                                                                                                                                                                                  |
| SCH4520 | Delta II, soft key feature may not be assigned to programmable keys (0 through 10).                                                                                                                                                                                                               |
| SCH4521 | M2317 sets with the data option must have key 10 defined as an SCR DN.<br><b>Action:</b> If the data option is being specified for this set (CLS = DTA), key 10 must be defined on the voice TN as an SCR key with the same DN as Data Prime DN (key 0). You cannot assign a feature to this key. |
| SCH4522 | M2317 key is hardwired for handsfree and is not allowed to be defined.                                                                                                                                                                                                                            |
| SCH4523 | Data DN key cannot be changed in Attendant Administration.                                                                                                                                                                                                                                        |
| SCH4524 | This key feature cannot be defined in Attendant Administration.                                                                                                                                                                                                                                   |
| SCH4525 | Package for Digit Display not equipped, which is required for Caller's Name Display or Dialed Name Display; or NDD Class of Service is not allowed with CNDA or DNDA Class of Service.                                                                                                            |

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| SCH4526 | Supervisory Console package equipped. BCS stations cannot be allocated to card with attendant assigned.                                                                                                                              |
| SCH4527 | Supervisory Console package equipped.<br><b>Action:</b> Attendant prime TN must be on unit 0 for single density cards. For double density cards, the prime DN must be on unit 0 or unit 4.                                           |
| SCH4528 | Supervisory Console package equipped. Attendant console cannot share card with other stations.                                                                                                                                       |
| SCH4529 | Supervisory Console package equipped. Prime and secondary TN must be consecutive.                                                                                                                                                    |
| SCH4530 | Threshold out-of-range (1-255).                                                                                                                                                                                                      |
| SCH4531 | Threshold must be greater than or equal to previous threshold.                                                                                                                                                                       |
| SCH4532 | TN does not exist in LD 15.                                                                                                                                                                                                          |
| SCH4533 | Supervisory Console is in Service Observation mode.                                                                                                                                                                                  |
| SCH4534 | SNR package not equipped.                                                                                                                                                                                                            |
| SCH4535 | Last Number Redial (LNR) has not been defined in the Customer data block (LD 15).                                                                                                                                                    |
| SCH4536 | The size entry for Last Number Redial (LNR) is invalid.                                                                                                                                                                              |
| SCH4537 | The Class of Service for Last Number Redial (LNR) has not been specified for this set.                                                                                                                                               |
| SCH4538 | This type of Alpha terminal, M2317, or M3000 is not supported by the LNR feature.                                                                                                                                                    |
| SCH4541 | The attendant console being assigned as Supervisor is out-of-range (1-63).                                                                                                                                                           |
| SCH4542 | Both Busy Lamp Field (BLF) arrays of the customer are already assigned.                                                                                                                                                              |
| SCH4543 | The Lamp Field Array option is not assigned.                                                                                                                                                                                         |
| SCH4549 | (SWA) Class of Service cannot be defined without having a Call Waiting key/ lamp pair defined for SL-1 sets.                                                                                                                         |
| SCH4550 | For 500/2500 sets with Station Loop Preemption (SLP), sets with SWA Class of Service must have Call Waiting Allowed (CWA). Also, SWA is mutually exclusive with Call Waiting Denied (CWD) and Precedence Call Waiting Denied (PCWD). |

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| SCH4551 | Hard disk not allowed on units 1 to 3.                                                                                                                             |
| SCH4552 | OUT or NEW not valid for unit 0.                                                                                                                                   |
| SCH4553 | For M2317 sets, the COS for Message Waiting is denied if the Message Waiting Key (MWK) has not been assigned, since the common audible signaling is not supported. |
| SCH4554 | IO_BLK_PTR not defined; data corruption.                                                                                                                           |
| SCH4555 | A source cannot be a target for itself.                                                                                                                            |
| SCH4556 | CPND data block must be removed before the customer data block.                                                                                                    |
| SCH4560 | Number of trees must be input (LD 15).                                                                                                                             |
| SCH4561 | Tree number is out-of-range for LD 15 (0-254).                                                                                                                     |
| SCH4562 | Tree number is out-of-range for LD 16 (0-254).                                                                                                                     |
| SCH4563 | Tree does not exist.                                                                                                                                               |
| SCH4564 | A tree number must be input (LD 49).                                                                                                                               |
| SCH4565 | Tree number is out-of-range for LD 49 (0-254).                                                                                                                     |
| SCH4566 | Illegal range requested.                                                                                                                                           |
| SCH4567 | Code value out-of-range, range is 100 - 9999.                                                                                                                      |
| SCH4568 | Internal DN is out-of-range.                                                                                                                                       |
| SCH4575 | Display on Manual Signaling package not equipped.                                                                                                                  |
| SCH4576 | Invalid response to AC2 prompt in LD 15; HLOC is prompted again.                                                                                                   |
| SCH4577 | LSC should be between 100 and 9999.                                                                                                                                |
| SCH4578 | Four inputs are required for the Busy or OVBU prompts.                                                                                                             |
| SCH4579 | Invalid input entered. Invalid Interflow treatment or Busy Tone treatment for originating type.                                                                    |
| SCH4580 | Cannot change user mode to ISL while B-channels are still configured on associated DCH loops.                                                                      |

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| SCH4581 | Repeat NEW of an ESL TN table in LD 14. CHID is not assigned for ESL trunks using NEW number only first CHID is accepted. Others must be added individually. |
| SCH4597 | Template space for assigned authcode cannot be allocated.                                                                                                    |
| SCH4598 | The assigned number entered is not within the valid range.                                                                                                   |
| SCH4599 | The assigned authcode entered is invalid.                                                                                                                    |
| SCH4600 | The ICDR package is restricted.                                                                                                                              |
| SCH4601 | An ACD station is not allowed an ICDR COS.                                                                                                                   |
| SCH4602 | MCT package is not equipped.                                                                                                                                 |
| SCH4603 | ACD stations are not allowed to have MCT feature.                                                                                                            |
| SCH4605 | EHTA or EHTD not allowed with MNL COS.                                                                                                                       |
| SCH4606 | Hot Line package not equipped.                                                                                                                               |
| SCH4607 | If the station has EHTA COS, then HOT must be entered in response to the FTR prompt.                                                                         |
| SCH4608 | Hot Line keys disallowed if Hot Line package is not equipped.                                                                                                |
| SCH4609 | EHTA conflicts with LLC1, LLC2, and LLC3. Hot Line keys cannot be assigned to telephones with LLC enabled.                                                   |
| SCH4630 | LLC COS cannot be assigned, LLC package not enabled.                                                                                                         |
| SCH4631 | Invalid response to LLC prompt (YES or NO).                                                                                                                  |
| SCH4632 | Invalid threshold value for LLC level (0-100).                                                                                                               |
| SCH4635 | Warning: Available UDS is less than 4KW.                                                                                                                     |
| SCH4636 | Input is not one of PRT, TTY, HDK, FDK.                                                                                                                      |
| SCH4640 | Billable limits must be within system maximum and minimum.                                                                                                   |
| SCH4641 | Billable limits cannot be reduced below current TN to total.                                                                                                 |
| SCH4642 | Number of TNs must be between system minimum and billable limits.                                                                                            |
| SCH4643 | Number of loops must be between zero and loop limit.                                                                                                         |

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| SCH4644 | Customer Night DN cannot be Pilot DN.                                                                      |
| SCH4652 | ENP package is not equipped.                                                                               |
| SCH4653 | Display DN does not start with a pilot DN.                                                                 |
| SCH4654 | DN must not exceed six characters.                                                                         |
| SCH4655 | NSO number entered is not defined.                                                                         |
| SCH4656 | PRXL must be equipped.                                                                                     |
| SCH4657 | NGA must be defined.                                                                                       |
| SCH4658 | Out-of-range (0-7).                                                                                        |
| SCH4659 | Invalid input; only 0, 5, 8 or 9 will be accepted as valid inputs.                                         |
| SCH4660 | PRIM/SEC source has already been defined for the clock controller.                                         |
| SCH4661 | No change allowed while active CC is using this source.                                                    |
| SCH4662 | Repeat count out-of-range for Signaling Category table; the table would be too full if allowed to proceed. |
| SCH4664 | Removing non-existing Limited Access Password (LAPW).                                                      |
| SCH4665 | Attempted loop move between GEC & NT loops.                                                                |
| SCH4667 | AFA Class of Service not allowed unless COS FNA.                                                           |
| SCH4668 | SARG period 1 start and stop times are undefined.                                                          |
| SCH4669 | Private line cannot be used with FTC.                                                                      |
| SCH4670 | ABCD package is not equipped                                                                               |
| SCH4671 | ABCD table does not exist                                                                                  |
| SCH4672 | ABCD table already exists                                                                                  |
| SCH4673 | Higher ABCD table number exists.                                                                           |
| SCH4674 | Input must be 1, 2, 3 or {CR}.                                                                             |
| SCH4677 | Undesired default function should be mapped to another existing signal.                                    |

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| SCH4678 | Cannot change ENA, END, LKA, LKD, UNA, UND, DSA, DSD, or invalid abcd code for send signal.                                        |
| SCH4679 | Receive and send signal inputs do not match.                                                                                       |
| SCH4680 | Already 16 LOG units are configured. No more new devices can be added.                                                             |
| SCH4681 | PVR or PVN cannot be assigned as primed DN.                                                                                        |
| SCH4684 | Input out-of-range (1-4095).                                                                                                       |
| SCH4685 | Input out-of-range (0-4095).                                                                                                       |
| SCH4687 | Option not defined for this feature.                                                                                               |
| SCH4688 | INST digits conflict with ATCD.                                                                                                    |
| SCH4700 | FTC package is not equipped. SRC1-SRC8 not allowed.                                                                                |
| SCH4701 | {CR} only allowed for print.                                                                                                       |
| SCH4702 | Table 0 cannot be removed.                                                                                                         |
| SCH4703 | Input must be between 256 and 1024.                                                                                                |
| SCH4704 | Mixture of zero and non-zero values not allowed.                                                                                   |
| SCH4705 | No tone tables found,                                                                                                              |
| SCH4706 | Input must be 4 or 8.                                                                                                              |
| SCH4707 | 96 or 128 must be input.                                                                                                           |
| SCH4708 | Input must be 50, 60, 70, or 100.                                                                                                  |
| SCH4709 | Input out-of-range (0-1).                                                                                                          |
| SCH4710 | Duplicate key assigned to attendant console.                                                                                       |
| SCH4711 | Parameter out-of-range (0-9).                                                                                                      |
| SCH4712 | Warning: MFC outgoing table will be cleared. Route members should not have MFC Class of Service if there is no incoming MFC table. |
| SCH4713 | Warning: MFC incoming table will be cleared. Route members should not have MFC Class of Service if there is no outgoing MFC table. |

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| SCH4725 | LMM response forced for STAR if DN exist for ATDN or MNDN.                                                                                                                                                                                                                                                                                           |
| SCH4726 | If AUTO is set and TKTP is TIE, SIG cannot be ESN3.                                                                                                                                                                                                                                                                                                  |
| SCH4727 | Pointer for shown PRI loop is NIL.                                                                                                                                                                                                                                                                                                                   |
| SCH4728 | Minimum value must be specified when the NSF or IFC of the ISA is changed.                                                                                                                                                                                                                                                                           |
| SCH4729 | Input must be provided for DCH DTE or DCE.                                                                                                                                                                                                                                                                                                           |
| SCH4730 | BCHI number is associated with another DCHI.                                                                                                                                                                                                                                                                                                         |
| SCH4731 | Device configured as a DCHI or BCHI.                                                                                                                                                                                                                                                                                                                 |
| SCH4732 | Cannot remove the D-channel when B-channel is still defined for loops associated with this D-channel.                                                                                                                                                                                                                                                |
| SCH4733 | Specified TTY must be configured ESDI when the other port on the card is configured DCHI or BCHI.                                                                                                                                                                                                                                                    |
| SCH4734 | DCHI must be disabled.                                                                                                                                                                                                                                                                                                                               |
| SCH4735 | BCHI must be disabled.                                                                                                                                                                                                                                                                                                                               |
| SCH4736 | DCHI must not be removed while corresponding DCHL exists.                                                                                                                                                                                                                                                                                            |
| SCH4737 | DCHI must not be removed while corresponding BCHL exists.<br><b>Action:</b> Start over to remove DCHI by entering X at DCHI and X at BCHI, then enter X at DCHL and X at BCHL, all on the same pass. Alternatively BCHI and BCHL may be removed on a preceding pass, then DCHI and DCHL may be removed subsequently.                                 |
| SCH4738 | DCHI must not be removed while corresponding PRIs exist.<br><b>Action:</b> Start over to remove DCHI by entering X at DCHI, then enter X at PRI for each PRI loop that is associated with the DCHI, all on the same pass. Alternatively the associated PRI loops may be removed on a preceding pass, then DCHI and DCHL may be removed subsequently. |
| SCH4739 | Customer need to be equipped with PRA to configure LDN or PDN Class of Service for the set.                                                                                                                                                                                                                                                          |
| SCH4740 | DCHI cannot be removed while adding BCHI.                                                                                                                                                                                                                                                                                                            |
| SCH4741 | DCHI cannot be removed while keeping BCHI.                                                                                                                                                                                                                                                                                                           |
| SCH4742 | Loop cannot be deleted when configured with DCH.                                                                                                                                                                                                                                                                                                     |

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| SCH4743 | Warning: Frame format should not be changed when the loop is associated with a DCH link.                                                                                                                                                       |
| SCH4744 | Port is defined as BCHI.                                                                                                                                                                                                                       |
| SCH4745 | Warning: Parameter should not be changed when the loop is configured with a DCH.                                                                                                                                                               |
| SCH4746 | Cannot select the loop for DCHL or BCHL because the D-channel (24 for PRI, 31 for PRI2) is set as a B or A/B channel.                                                                                                                          |
| SCH4747 | BCHI is defined as DCHI.                                                                                                                                                                                                                       |
| SCH4748 | Cannot remove undefined DCH channel (DCHI or BCHI).                                                                                                                                                                                            |
| SCH4749 | Parameter can be changed only when the DCHI link is in reset status.                                                                                                                                                                           |
| SCH4750 | 64K clear can be selected only when LCMT is B8S.                                                                                                                                                                                               |
| SCH4751 | DCHL must be defined for DCHI when USR=PRA/SHA.<br><b>Action:</b> Start over to define DCHI. DCHL must not be removed while corresponding DCHI exists; start over to remove DCHL by entering X at DCHI, then on the same pass enter X at DCHL. |
| SCH4752 | Warning: IFC should not be changed when any of the channels of the configured loops (DCHL, BCHL and/or PRIs) are configured.                                                                                                                   |
| SCH4753 | Loop configured as DCHL or BCHL.                                                                                                                                                                                                               |
| SCH4754 | BCHI is not defined while BCHL is.                                                                                                                                                                                                             |
| SCH4755 | BCHL must be defined for BCHI when USR=PRA/SHA.<br><b>Action:</b> Start over to define BCHI. BCHL must not be removed while corresponding BCHI exists; start over to remove BCHL by entering X at BCHI, then on the same pass enter X at BCHL. |
| SCH4756 | DCHI or BCHI number must be odd.                                                                                                                                                                                                               |
| SCH4757 | PRI sequence number is not available.                                                                                                                                                                                                          |
| SCH4758 | Loop is already configured with a DCH link.                                                                                                                                                                                                    |
| SCH4759 | DCHL must be defined for new link.                                                                                                                                                                                                             |
| SCH4760 | DCHL, BCHL or PRI loop is not defined.                                                                                                                                                                                                         |

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| SCH4761 | Loop number not associated with DCHI number/BCHI number.                                                                                                                                                                                                                                                          |
| SCH4762 | Analog route cannot be PRA.                                                                                                                                                                                                                                                                                       |
| SCH4763 | Yellow alarm was changed to DG2 because the frame format was changed to other than ESF.                                                                                                                                                                                                                           |
| SCH4764 | Cannot configure DCH when the other port on the card is not configured as TTY                                                                                                                                                                                                                                     |
| SCH4765 | Loop number must be given with the sequence number.                                                                                                                                                                                                                                                               |
| SCH4766 | Loop can be removed only when none of its channels are configured for B-channel signaling.                                                                                                                                                                                                                        |
| SCH4767 | The TTY Port must be configured ASYNC when the other port on the same card is a DCHI or BCHI.                                                                                                                                                                                                                     |
| SCH4768 | BCHI must have different value from DCHI.                                                                                                                                                                                                                                                                         |
| SCH4769 | There is at least one ISDN route. PRA = NO is not allowed.                                                                                                                                                                                                                                                        |
| SCH4770 | HNPA, HLOC and HNXX must be given for new customer.                                                                                                                                                                                                                                                               |
| SCH4771 | Code value out-of-range (100-999).                                                                                                                                                                                                                                                                                |
| SCH4772 | Customer need to be equipped with PRA (LD 15) to configure ISDN route.                                                                                                                                                                                                                                            |
| SCH4773 | Cannot set ISDN to NO while ISAR = YES or B-Channels are configured for the route.                                                                                                                                                                                                                                |
| SCH4774 | STEP to ISA route is not allowed.                                                                                                                                                                                                                                                                                 |
| SCH4775 | <p>Warning: IFC must be changed for service route in conjunction with ISA routes and IFC for the DCH link.</p> <p><b>Action:</b> IFC must be changed for the DCH first and then changed for the ISA routes which have channels from the PRI loops of the DCH. Finally, change the IFC for the service routes.</p> |
| SCH4776 | ISA route is not defined.                                                                                                                                                                                                                                                                                         |
| SCH4777 | Route type is not ISA.                                                                                                                                                                                                                                                                                            |
| SCH4778 | ISA route must be defined first.                                                                                                                                                                                                                                                                                  |



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| SCH4779 | Warning: Must define LDN0: required for ISDN PRI DID service The length of LDN0 determines the number of trailing digits translated as the dialed DN on PRI DID routes.                                   |
| SCH4780 | To change NSF, all routes associated with the ISA route must be service changed to update the NSF parameters (i.e. MIN and MAX) associated with them.                                                     |
| SCH4781 | Minimum number of calls must be specified.                                                                                                                                                                |
| SCH4782 | Maximum number of calls must be specified.                                                                                                                                                                |
| SCH4783 | The minimum value is greater than the maximum value.                                                                                                                                                      |
| SCH4784 | Expecting 3 digits.                                                                                                                                                                                       |
| SCH4785 | ISA route has no trunks (channels).                                                                                                                                                                       |
| SCH4786 | The sum of the MIN for all routes which access the ISA route exceed the number of configured trunks for the ISA route. If outing ISA trunks, the service route minimum/maximum values must be re-entered. |
| SCH4787 | DSI is not applicable for ISDN routes.                                                                                                                                                                    |
| SCH4788 | PRI loop is not configured with D-channel (DCHI) to provide B-channels.                                                                                                                                   |
| SCH4789 | ISA route may not be selected.                                                                                                                                                                            |
| SCH4790 | DTI loop channels cannot be configured for ISA routes or digital ISDN routes with B-Channel signaling for the channels (trunks).                                                                          |
| SCH4791 | D-CH master header part is NIL.                                                                                                                                                                           |
| SCH4792 | IFC for DCH/PRA does not match IFC of the route.                                                                                                                                                          |
| SCH4793 | Selected Channel is configured for D-channel signaling.                                                                                                                                                   |
| SCH4794 | IFC for service route do not match IFC for ISA route.                                                                                                                                                     |
| SCH4795 | Trunk TYPE is not allowed with PRI loop.                                                                                                                                                                  |
| SCH4796 | PRI loop can be moved to PRI loop only.                                                                                                                                                                   |
| SCH4797 | TDET cannot be defined in a superloop.                                                                                                                                                                    |
| SCH4798 | Card density (DENS) must be defined.<br><b>Action:</b> Enter SDEN for single SDI ports (on CPU cards), DDEN for two port SDI                                                                              |

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|         | cards (QPC139), QDEN for four port SDI card (QPC841/NT8D41).                                                                                      |
| SCH4799 | Cannot move or swap data from or to service card (Fiber Interface card) of the superloop. Input card number is service card number.               |
| SCH4800 | Input source or destination shelf number is not defined in the NT8D shelf configuration.                                                          |
| SCH4801 | Invalid starting target unit (STUN) input.                                                                                                        |
| SCH4802 | Source and destination card types are not the same.                                                                                               |
| SCH4803 | Cannot move or swap different source Controllers (NT8D01) to the same destination Controller.                                                     |
| SCH4804 | Cannot move different source SD/DD/QD cards to the same destination Controller (NT8D01) with the same starting target unit (STUN) more than once. |
| SCH4805 | Cannot move or swap the same source segment more than once.                                                                                       |
| SCH4806 | Cannot move or swap different source segments to the same destination segment.                                                                    |
| SCH4807 | No shelf is defined in configuration for this superloop.                                                                                          |
| SCH4808 | Too many cards are currently configured on the source or destination shelf.                                                                       |
| SCH4809 | Too many shelves are currently configured on the source or destination loop.                                                                      |
| SCH4810 | Cannot move or swap shelf from SD/DD/QD to superloop shelf.                                                                                       |
| SCH4811 | Starting segment input does not belong to the destination superloop shelf.                                                                        |
| SCH4812 | No non-service card is defined on the source or destination segment.                                                                              |
| SCH4813 | Too many cards are configured on the source segment for a move or swap operation.                                                                 |
| SCH4814 | The input segment number does not belong to the given superloop shelf.                                                                            |
| SCH4815 | Cannot move off-premise extension (OPX) data to Controller (NT8D01).                                                                              |
| SCH4816 | Cannot move or swap SD/DD/QD loop data to superloop.                                                                                              |
| SCH4817 | No shelf is defined for both superloops.                                                                                                          |
| SCH4818 | No shelf is defined for destination superloop.                                                                                                    |

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| SCH4819 | No shelf is defined for source superloop.                                                                  |
| SCH4820 | No shelf is defined for the source or destination superloop.                                               |
| SCH4821 | Cannot move data from Digital Link Interface (DLI) loop to superloop.                                      |
| SCH4822 | Destination segment number needed.                                                                         |
| SCH4823 | Source card is empty, nothing to move.                                                                     |
| SCH4824 | Invalid shelf number for Network/DTR (NT8D18) loop.                                                        |
| SCH4825 | For Network/DTR (NT8D18 card) loop. Slot 15 is reserved for Digitone Receiver                              |
| SCH4826 | Cannot move or swap data from superloop to SD/DD/4D loop.                                                  |
| SCH4827 | Cannot move or swap SD/DD/QD loop to superloop.                                                            |
| SCH4828 | Cannot move or swap card and shelf data of superloop to another superloop in the same move/swap operation. |
| SCH4829 | Cannot move SD/DD/QD card data other than PBX and ISDLCL to controller.                                    |
| SCH4830 | Card input does not belong to given superloop and shelf.                                                   |
| SCH5000 | Code value is out-of-range (0-9999).                                                                       |
| SCH5001 | Must respond YES to NCFR prompt before responding YES to IDCA prompt.                                      |
| SCH5002 | This feature is not applicable to New Meridian Modular Telephones.                                         |
| SCH5003 | Message waiting key (MWK) requires Message Waiting Allowed (MWA) Class of Service.                         |
| SCH5004 | Message Intercept (MIN) package not equipped.                                                              |
| SCH5005 | Cannot OUT a Frequency Cadence (FCAD) entry.                                                               |
| SCH5006 | Cannot change an FCAD table without a Conference/TDS/MFS card (NT8D17)                                     |
| SCH5007 | FCAD table entry already exists.                                                                           |
| SCH5008 | FCAD table entry has not yet been defined.                                                                 |
| SCH5009 | {CR} is not allowed for new FCAD tables.                                                                   |

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| SCH5010 | A cycle defined to repeat was not defined as a cycle in the cadence field. No changes were made to the FCAD entry as the result of this error.                                                                                                                                      |
| SCH5011 | The number of Tone Codes must match the number of defined cycles in the cadence field. No changes were made to the FCAD entry.                                                                                                                                                      |
| SCH5012 | FCAD entries 1 to 15 are reserved for ring tones and can be changed only though MCAD entries 1 to 15.                                                                                                                                                                               |
| SCH5013 | ACD keys and CCSA Class of Service are incompatible. A set is not allowed to have both.                                                                                                                                                                                             |
| SCH5014 | Your MCAD ON phases must be greater than 13, for the 128 ms ROM configuration. The 96 ms ROM configuration must have a value greater than 9.                                                                                                                                        |
| SCH5015 | The Network/DTR Card software not found on disk.<br><b>Action:</b> Get the disk with the proper Network/DTR software version.                                                                                                                                                       |
| SCH5016 | The Timed Forced Disconnect timer is not applicable to this route type.                                                                                                                                                                                                             |
| SCH5017 | The Release ID for this DCH block was listed as 0 when printing the configuration record. Call Processing will not work with a null value, or value of 0. See prompt RLSID in LD 17.                                                                                                |
| SCH5018 | Cannot move or swap data into TN 0 (loop, shelf, card and unit all equal to 0).                                                                                                                                                                                                     |
| SCH5019 | Automatic Answerback (AAK) key or Automatic Answerback Allowed (AAA) Class of Service can only be assigned to digital sets with Hands Free Allowed (HFA) Class of Service. Hands Free Denied (HFD) Class of Service is not allowed when AAA Class of Service or AAK key is defined. |
| SCH5020 | EOD string does not match the length defined in STRL.                                                                                                                                                                                                                               |
| SCH5021 | Requires IPE package number 203.<br><b>Action:</b> Configure IPE package 203.                                                                                                                                                                                                       |
| SCH5022 | Maximum Peripheral Equipment density is not octal (8D).                                                                                                                                                                                                                             |
| SCH5023 | BOSS is not an acceptable response when set is already a Secretary set.                                                                                                                                                                                                             |
| SCH5024 | SEC is not an acceptable response when set is already a BOSS set.                                                                                                                                                                                                                   |
| SCH5025 | Too many input fields in response to SFDN prompt.                                                                                                                                                                                                                                   |
| SCH5026 | The Superloop RAN trunk support only Audichron machine types.                                                                                                                                                                                                                       |

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| SCH5028 | Data cannot be moved from or to PRI/PRI2 loops.                                                                                                                                                                                                                                                               |
| SCH5029 | Warning: The service route does not have any dedicated trunks. The trunk members are in associated ISA route.                                                                                                                                                                                                 |
| SCH5030 | DIG cannot be defined for this set. Set is already defined with AGTA Class of Service or is configured as an ACD agent set.                                                                                                                                                                                   |
| SCH5031 | Enhanced Hotline Allowed (EHTA) cannot be defined for this set. Set is already configured with AGTA Class of Service.                                                                                                                                                                                         |
| SCH5032 | CCSA cannot be defined for this set. Set is already configured with AGTA Class of Service.                                                                                                                                                                                                                    |
| SCH5033 | AGTA Class of Service cannot be defined unless ACD package A is equipped.                                                                                                                                                                                                                                     |
| SCH5034 | AGTA cannot be defined for this set. Set is already configured with DIG.                                                                                                                                                                                                                                      |
| SCH5035 | AGTA cannot be defined for this set. Set is already configured with CCSA Class of Service.                                                                                                                                                                                                                    |
| SCH5036 | AGTA cannot be defined for this set. Set is already configured with EHTA Class of Service.                                                                                                                                                                                                                    |
| SCH5037 | Define AGTA Class of Service to make set eligible for ACD                                                                                                                                                                                                                                                     |
| SCH5038 | Set not defined for ACD.                                                                                                                                                                                                                                                                                      |
| SCH5039 | Already configured with AGTA service. Set can only be defined as a single appearance DN.                                                                                                                                                                                                                      |
| SCH5040 | Already configured as a multiple appearance DN; set cannot have AGTA defined                                                                                                                                                                                                                                  |
| SCH5041 | <p>The ACD Agent set cannot be changed to an ACD Supervisor set.</p> <p><b>Action:</b> To change an ACD Agent set into an ACD Supervisor set: 1. Remove the supervisor reference for that set.</p> <p>2. Remove the SPID for that Agent.</p> <p>3. OUT the corresponding AGT key on the Supervisor's set.</p> |
| SCH5042 | The ISDN Signaling Link can only be configured with ISA or TIE routes.                                                                                                                                                                                                                                        |
| SCH5043 | You are not allowed to set up a QTHM for an Inter Attendant call.                                                                                                                                                                                                                                             |
| SCH5044 | <p><b>Action:</b> Use COPY command in LD 10 to define more than one 500/2500 set as an ACD station.</p>                                                                                                                                                                                                       |

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| SCH5045 | 500/2500 sets cannot be used as Virtual Agents.                                                                                                     |
| SCH5046 | The In-Band Automatic Number Identification (IANI) route needs to be an auto-terminating route.                                                     |
| SCH5047 | A route cannot be defined as both IANI and DNIS.                                                                                                    |
| SCH5048 | This ISDN route cannot be configured for In-Band ANI.                                                                                               |
| SCH5049 | An In-Band ANI route cannot support digit insertion.                                                                                                |
| SCH5051 | In-Band ANI routes are STD routes only.                                                                                                             |
| SCH5052 | POVR package must be equipped.                                                                                                                      |
| SCH5053 | CPTA must have WTA (Warning Tone Allowed) Class of Service.                                                                                         |
| SCH5055 | Set already configured for AGTA service; cannot be configured for XHA Class of Service.                                                             |
| SCH5056 | Set already configured for AGTA service; cannot be defined with PRMA.                                                                               |
| SCH5057 | Set already configured with XHA service; cannot be defined with AGTA.                                                                               |
| SCH5058 | Set already configured with PRMA service; cannot be defined with AGTA.                                                                              |
| SCH5059 | Set already configured with MCTA service; cannot be defined with AGTA.                                                                              |
| SCH5060 | An analog route is required.                                                                                                                        |
| SCH5061 | Warning: The ITG Option was not turned on. It is turned on here.                                                                                    |
| SCH5062 | Stepping to an ISA SERVICE route is not allowed.                                                                                                    |
| SCH5063 | The ISAR option cannot be changed to YES, because the trunk has dedicated routes.<br><b>Action:</b> Remove all dedicated routes from that trunk.    |
| SCH5064 | Dedicated trunks cannot be assigned to an ISA SERVICE route unless the ISAR option is turned off first.                                             |
| SCH5065 | SCL was not the response to the TYPE prompt when REQ was COMP. Only Speed Call lists are estimated. Use SCL for both regular and system speed call. |
| SCH5066 | Disk record availability estimation cannot be performed.<br><b>Action:</b> Be sure that a data dump has been executed through LD 43 since the       |

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last system reload, and that FTYF has been specified by following the ADAN CHG HDK/FDK 0 sequence in LD 17.

SCH5067 CDN cannot be allowed to have agents.

SCH5068 500/2500 PBX sets used as ACD sets can only have single appearance regular DN.

SCH5069 The number of TNs in the system is greater than the limit. You may need new disks with new TN limits.

SCH5070 The number of ACD Agents/Supervisors in the system is greater than the limit. You may need new disks with new ACD Agent/Supervisor limits.

SCH5071 The number of ACD DNs and CDNs in the system is greater than the limit. You may need new disks with new ACD DN limits.

SCH5072 The number of AST sets in the system is greater than the limit.

**Action:** To expand, you will need to order new disks with new AST set limits.

SCH5073 CDN cannot be defined for NSV key.

SCH5074 BIMP and TIMP are mismatched. See prompt TIMP in LD 14 for allowed combinations of BIMP/TIMP.

SCH5075 Service not implemented in this IFC.

SCH5076 Warning: Templates are at the limit.

**Action:** Contact the service representative before proceeding.

SCH5077 Out WATS band number is invalid (only 0 - 9 are valid).

SCH5078 Key 0 cannot be configured as a Wake Up key.

SCH5079 Invalid DN type on key 0 for a Wake Up key. Valid DN types include MCR, SCR, MCN, SCN, PVR, and PVN.

SCH5080 A Wake Up key cannot be configured on a data set. CLS must be for a VCE data

SCH5081 CLS must be CCSA to configure a Wake Up key.

SCH5082 **Action:** Remove Wake Up key before changing CLS to CCSD.

SCH5083 Input out-of-range 1 - 3 for TAWU (the number of tries for an unanswered Wake Up call).

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| SCH5084 | Peripheral equipment exists on the loop.                                                                                                                                                                                                                     |
| SCH5085 | ECA Class of Service is acceptable on 4-wire type E & M trunks only.                                                                                                                                                                                         |
| SCH5086 | <p>The responses EXR0 to EXR4 are not allowed if the Executive Distinctive Ring feature package (185) is not equipped. CLS is not re prompted.</p> <p><b>Action:</b> Equip Package 185 and re-load if Executive Distinctive Ringing package is required.</p> |
| SCH5087 | Do not use MOV or SWP commands when PRI/PRI2 loops are configured with backup DCH.                                                                                                                                                                           |
| SCH5088 | SDAL option in LD 15 is only allowed when PRETRNS and SUPP packages are equipped. Set up SDAC data in LD 18 first.                                                                                                                                           |
| SCH5091 | CLS ECA is only used on 4-wire E & M trunks.                                                                                                                                                                                                                 |
| SCH5092 | Flexible attendant Call Waiting Threshold (FCWT) values on the tenant level are set equal to the customer level values.                                                                                                                                      |
| SCH5093 | This trunk does not have MFC Class of Service (LD 16).                                                                                                                                                                                                       |
| SCH5094 | The outgoing table's signaling type does not match the incoming signal type (LD 16).                                                                                                                                                                         |
| SCH5095 | L1 levels 1 through 6 do not exist (LD 94).                                                                                                                                                                                                                  |
| SCH5096 | You cannot remove the L1 levels 1, 2, or 3 (LD 94).                                                                                                                                                                                                          |
| SCH5097 | L1 levels 4, 5, and 6 have been removed (LD 94).                                                                                                                                                                                                             |
| SCH5098 | You are trying to use an invalid L1 signaling level (LD 94).                                                                                                                                                                                                 |
| SCH5099 | You cannot do that with the L1 package because it is restricted (LD 94).                                                                                                                                                                                     |
| SCH5100 | You cannot allocate PDS for an SS table (LD 94).                                                                                                                                                                                                             |
| SCH5101 | L1 levels 1 and 2 must be defined in order to create an L1 table (LD 94).                                                                                                                                                                                    |
| SCH5102 | L1 levels 4, 5, and 6 must be defined (LD 94).                                                                                                                                                                                                               |
| SCH5103 | Conflicting table types encountered (LD 94).                                                                                                                                                                                                                 |
| SCH5104 | That input (CNA, CND) is ignored because it does not match the CCNI in the L1 route block (LD 14).                                                                                                                                                           |



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| SCH5105          | Removing the MGC Class of Service also removes the L1 CNI option for this trunk (LD 14).                                                                              |
| SCH5106          | There is no unprotected memory available for changing the UTRKBLK for CCNI.                                                                                           |
| SCH5113          | Language number entered is out-of-range (0) - 5.                                                                                                                      |
| SCH5114          | Input must be "256" or "384."                                                                                                                                         |
| SCH5115          | Force Disconnect has failed. Report this problem to your Northern Telecom representative.                                                                             |
| SCH5116          | Remove Wake Up key before changing to a data set.                                                                                                                     |
| SCH5117          | DRPA/DRPD can only be configured on 2.0 Mb/s DID if SUPP and DTI2 are enabled.                                                                                        |
| SCH5118          | The Virtual Network Services (VNS) package is not equipped.                                                                                                           |
| SCH5119          | That Virtual Network Service (VNS) data block already exists.                                                                                                         |
| SCH5120          | That VNS data block does not exist.                                                                                                                                   |
| SCH5121          | That DN input for Virtual Network Services is not allowed.                                                                                                            |
| SCH5122          | That DN is out-of-range.                                                                                                                                              |
| SCH5123 c rl rli | That D-channel is already being used by the previous customer in Virtual Network Services. Where:<br>c = Customer number<br>rl = Route List<br>rli = Route List index |
| SCH5124 n        | That customer needs more channel IDs for Virtual Network Services (VNS). Required channels are dedicated in LD 79. Where: N = minimum Number of DNs required.         |
| SCH5125          | That customer has no D-channel IDs for Virtual Network Services (VNS).                                                                                                |
| SCH5126          | That customer needs more D-channel IDs for Virtual Network Services (VNS).                                                                                            |
| SCH5127          | You are not allowed to put data TNs on a Voice Only ISDL card.                                                                                                        |
| SCH5128          | You are attempting to move a pair of TNs on a Voice Only ISDL card.                                                                                                   |

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| SCH5129 | You are attempting to move a pair of TNs on a Voice Only ISDL card.                           |
| SCH5130 | The customer number for that Data TN is not the same as the customer number for the Voice TN. |
| SCH5131 | Entering the {CR} is not allowed in response to the PRT or TASK prompts.                      |
| SCH5132 | The Maintenance threshold must be greater than or equal to the Out-of-Service threshold.      |
| SCH5133 | The Maintenance threshold must be less than or equal to the Out-of-Service threshold.         |
| SCH5134 | RPA package 187 is not equipped.                                                              |
| SCH5135 | Invalid input; RPCD/RPS/RPAX/TBL expected.                                                    |
| SCH5136 | Cannot end input with space.                                                                  |
| SCH5137 | TBL only valid with command CHG/PRT.                                                          |
| SCH5138 | RPCD only valid with command NEW/CHG/PRT.                                                     |
| SCH5139 | No RPA data exists for this customer.                                                         |
| SCH5140 | This system number is used for PSA code(s).                                                   |
| SCH5141 | RPCD data already exists.                                                                     |
| SCH5142 | No RPCD data exists.                                                                          |
| SCH5143 | No DN-PSA data exists.                                                                        |
| SCH5144 | CR only valid for PRT command.                                                                |
| SCH5145 | System number out-of-range (0-15).                                                            |
| SCH5146 | RPS data already exists.                                                                      |
| SCH5147 | No RPS data exists.                                                                           |
| SCH5148 | CR only valid for command PRT with RPS/RPAX/TBL.                                              |
| SCH5149 | Invalid input, SPCH, DIAL, or NONE expected.                                                  |
| SCH5150 | Cannot change to single if more than system 0 exists.                                         |

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| SCH5151 | Invalid input; TAB,TWO,THR, FOR, or NO expected. |
| SCH5152 | Warning: no RPS data found.                      |
| SCH5153 | Out-of-range (0-20).                             |
| SCH5154 | Out-of-range (0-120).                            |
| SCH5155 | Out-of-range (4-30).                             |
| SCH5156 | Out-of-range (1-7).                              |
| SCH5157 | Cannot change PSAL when DN-PSA tree exists.      |
| SCH5158 | {CR} only valid for CHG command.                 |
| SCH5159 | Out-of-range (0-630).                            |
| SCH5160 | Out-of-range (10-630).                           |
| SCH5161 | Warning: no PSA defined for this system.         |
| SCH5162 | Not an FFC DN.                                   |
| SCH5163 | All digits in the DN are not used.               |
| SCH5164 | Not an RPAX FFC.                                 |
| SCH5165 | No RPA data for this FFC.                        |
| SCH5166 | RPA data already exists.                         |
| SCH5167 | Out-of-range (0-127/511).                        |
| SCH5168 | Non-existing route number.                       |
| SCH5169 | Route not set up for RPA.                        |
| SCH5170 | Route not set up as RAN.                         |
| SCH5171 | Invalid input; MANU or AUTO expected.            |
| SCH5172 | Out-of-range (0-9).                              |
| SCH5173 | Out-of-range (0-7).                              |
| SCH5174 | Invalid input; NONE, SPCH, or RNGB expected.     |

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| SCH5175 | Invalid input; BOTH/INT expected.                     |
| SCH5176 | Only four characters allowed as RPAX FFC replacement. |
| SCH5177 | Invalid characters, A-Z or 1-9 expected.              |
| SCH5178 | Too many digits in PSA code.                          |
| SCH5179 | No PSA code has been entered.                         |
| SCH5180 | Too few digits have been entered for the PSA code.    |
| SCH5181 | The DN does not exist in the DN-PSA tree.             |
| SCH5182 | Invalid input; DNP, UPS, or NPS expected.             |
| SCH5183 | Second DN has to be larger than the first DN.         |
| SCH5184 | RPS block does not exist.                             |
| SCH5185 | Warning: no customer with RPCD data.                  |
| SCH5186 | Warning: no customer with RPS data.                   |
| SCH5187 | Warning: no RPAX FFC found.                           |
| SCH5188 | Warning: no RPAX data found.                          |
| SCH5189 | Warning: no customer with DN-PSA tree.                |
| SCH5190 | Warning: no system number found.                      |
| SCH5191 | Warning: the specified DN was not found.              |
| SCH5192 | Warning: no DN found for this system.                 |
| SCH5193 | Customer not set up to use DN-PSA tree.               |
| SCH5194 | No FFC tree for this customer.                        |
| SCH5195 | Leading space is not allowed.                         |
| SCH5196 | Corruption in the FFC/DN-PSA tree.                    |
| SCH5197 | Not allowed to run LD 58 as midnight routine.         |
| SCH5198 | This system number is used for RPAX FFC(s).           |

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| SCH5199 | An invalid internal DN has been entered for the CFW key. The entered DN is either a normal DN, or FFC+DN. The validation is done for both CFXD and CFXA classes of service. |
| SCH5205 | You are trying to include an undefined KLS in the Ringing Change KLS range.                                                                                                 |
| SCH5207 | IAMA and IRGA Class of Service cannot coexist.                                                                                                                              |
| SCH5208 | The COPY command is not allowed for IAMA class telephone sets.                                                                                                              |
| SCH5209 | The OUT command is not allowed when IRGA or IAMA Class of Service is defined.                                                                                               |
| SCH5210 | Require EES package 10 to configure a key on an Attendant Console.                                                                                                          |
| SCH5211 | Cannot disable AWU feature when RANF trunks are still defined.                                                                                                              |
| SCH5212 | Cannot disable AWU feature when RAN1 trunks are still defined.<br><b>Action:</b> Remove trunks and try again.                                                               |
| SCH5213 | Cannot disable AWU feature when RAN2 trunks are still defined.<br><b>Action:</b> Remove trunks and try again.                                                               |
| SCH5218 | The On Hold On Loudspeaker (OHOL) package 196 is not equipped.                                                                                                              |
| SCH5219 | The DN assigned here must be an OHOL unit.                                                                                                                                  |
| SCH5220 | OHOL DN can only have one 2/500 set appearance in DN group.                                                                                                                 |
| SCH5221 | Set with CLS = SPKA must enter valid Conference loop number on prompt DCLP.                                                                                                 |
| SCH5222 | ADL/CFW exceeds the maximum length of the template.                                                                                                                         |
| SCH5223 | Ringing Change and ACD are not allowed on the same set.                                                                                                                     |
| SCH5224 | Cannot move or swap 0L1_loop equipment to RPE2_remote_loop.                                                                                                                 |
| SCH5225 | RPE2 loop must be disabled.                                                                                                                                                 |
| SCH5226 | RPE2 loop must be disabled.                                                                                                                                                 |
| SCH5227 | Unit types R232 and R422 are only allowed on Superloops.<br><b>Action:</b> Define R232 and R422 on a Superloop.                                                             |
| SCH5228 | Data port number is out-of-range.                                                                                                                                           |

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|         | <b>Action:</b> Define R232 and R422 units as 0 - 5.                                                                                                                                                                           |
| SCH5229 | Invalid feature key assignment.<br><b>Action:</b> Refer to key definitions for LD 11.                                                                                                                                         |
| SCH5230 | Data port interface mode does not match the database configuration.<br><b>Action:</b> Check data port jumper selection against the database configuration.                                                                    |
| SCH5231 | Invalid input for this operational parameter. Corrective action depends on the operation attempted.: AUTO, DEM, DLNG, KBD, WIRE or PBDO.                                                                                      |
| SCH5232 | Key 7 is reserved for MSB feature. PBDO feature is currently enabled.                                                                                                                                                         |
| SCH5233 | Call Pickup not allowed on Data Access Card (DCA) ports.                                                                                                                                                                      |
| SCH5234 | No timing Call Register available for parameter uploading.<br><b>Action:</b> Repeat procedure and if problem persists contact the system administrator.                                                                       |
| SCH5235 | Cannot move Superloop data on a customer basis.                                                                                                                                                                               |
| SCH5236 | Not allowed to move non-Data Access Card units to a Data Access Card.                                                                                                                                                         |
| SCH5237 | The characters entered for the ID prompt exceed the range allowed.<br><b>Action:</b> Limit the string to no more than 16 characters.                                                                                          |
| SCH5238 | Group list does not exist.                                                                                                                                                                                                    |
| SCH5239 | Group list already assigned.                                                                                                                                                                                                  |
| SCH5240 | Group Call DN in FFC must be removed first.                                                                                                                                                                                   |
| SCH5242 | In the ICP block, you are trying to remove a TN that does not exist.                                                                                                                                                          |
| SCH5243 | Setting the increment value to zero does not change the threshold counter. Your system operation may not tolerate this event.<br><b>Action:</b> It is recommended that the increment value be set to a value other than zero. |
| SCH5244 | Setting the decrement value to zero does not change the threshold counter. Your system operation may not tolerate this event.<br><b>Action:</b> It is recommended that the decrement value be set to a value other than zero. |

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| SCH5245 | Warning: Only the spare loop is left in RPE2 group.                                                       |
| SCH5246 | Hospitality package not equipped.                                                                         |
| SCH5247 | Class of Service MRA required for HSPA.                                                                   |
| SCH5248 | Class of Service CCSA required for HSPA.                                                                  |
| SCH5249 | Class of Service HSPA and XFA are exclusive.                                                              |
| SCH5250 | Class of Service HSPA and Conference are exclusive.                                                       |
| SCH5251 | Class of Service HSPA and multiple appearance directory numbers are exclusive.                            |
| SCH5252 | Hospitality room set data cannot be modified (or removed) while the room is occupied.                     |
| SCH5253 | CLS AOS/DOS is only available to sets with CLS SPV.                                                       |
| SCH5254 | Hospitality primary DN key must be SCR or SCN.                                                            |
| SCH5255 | DTN is required for Fax Server operation.                                                                 |
| SCH5256 | CAW,FBA, and FNA are not compatible with Fax Server operation.                                            |
| SCH5257 | CFW is not compatible with Fax Server operation.                                                          |
| SCH5259 | Branch release failed.                                                                                    |
| SCH5260 | Length of Hospitality Authcode is limited to 4 digits.                                                    |
| SCH5261 | DID-DN conflicts with existing one in Hospitality tree.                                                   |
| SCH5262 | Another Hospitality tree already exists for this customer.                                                |
| SCH5263 | Data modification is denied while patient is in the room.                                                 |
| SCH5264 | MOV command is denied for a Hospitality tree.                                                             |
| SCH5265 | All tree branches must be released before an OUT or RPL request can be processed for an Hospitality tree. |
| SCH5266 | Hospitality Authcode must be defined in Authcode table first.                                             |
| SCH5267 | Tree table 0 is not allowed for a Hospitality tree.                                                       |

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| SCH5268 | The International Supplementary Features (SUPP) package 131 is not equipped.                                                                                                                                 |
| SCH5269 | The UK package 190 is not equipped.                                                                                                                                                                          |
| SCH5270 | That is an invalid trunk type for XCOT, XDID, or XFEM. Valid trunk types are listed here: XCOT = CO trunks; XDID = DID trunks; XFEM = MUS, PAG, RAN, and TIE trunks.                                         |
| SCH5272 | XUTJ does not support 900 or 1200 Ohm termination.                                                                                                                                                           |
| SCH5273 | Input out-of-range for make-break ratio (50 - 70).                                                                                                                                                           |
| SCH5274 | Both ND1 and ND2 were included in the capability list for the remote switch. ND1 and ND2 specify the protocol to be used for Network Name Delivery. Only one protocol can be used per interface.             |
| SCH5276 | RANF, RAN1, RAN2, LA11 through LA52 cannot be changed during an AWU call. Updates not saved.<br><b>Action:</b> Try again after AWU call is finished.                                                         |
| SCH5278 | JDID is only valid for Japan DID on XUT.                                                                                                                                                                     |
| SCH5279 | TYPE must be 2008.                                                                                                                                                                                           |
| SCH5280 | In procedure init_levelblk or traverse_idctree of sccndse2, value of global variable idc_cur_level is invalid. IDC_cur_level must be greater than -1 and less than .idcmaxsize (4 or 7).                     |
| SCH5281 | In procedure init_levelblk sccndse2, blk_size of current NFCR/IDC block is less than 3. Data may be corrupted.                                                                                               |
| SCH5283 | In procedure in_dcno of sccndse3, idc_no_trees: cdataptr[sccustno]= nil. Use LD 15 and specify the maximum number of idc tree in the customer data block (CDB) in order to create any idc tree in this load. |
| SCH5285 | In procedure in_dcno of sccndse3, input for idc tree number is out-of-range.                                                                                                                                 |
| SCH5286 | Invalid DN type.                                                                                                                                                                                             |
| SCH5288 | In procedure traverse_idctree of sccndse2, a CPND name for idc is found, and therefore the CPND data block cannot be removed.                                                                                |
| SCH5289 | In procedure in_dcno of sccndse3, the current idc tree is not yet created. Create it in LD 49 (scfcr).                                                                                                       |

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| SCH5290 | In procedure a_or_save_1stdgt, L_or_save_dn, check_idc_type, in_dc_idc, range_or_done, or save_dn of scsnd3, invalid or undefined idc input is detected.                                                     |
| SCH5291 | In procedure intype of scfcrse2, command rls (release) and rpl (replace) are blocked for idc type.                                                                                                           |
| SCH5292 | Type CDN cannot be selected without the EAR package being equipped.                                                                                                                                          |
| SCH5293 | CDN must exist for CHG, OUT or PRT command.                                                                                                                                                                  |
| SCH5294 | Unable to find a CDN block.                                                                                                                                                                                  |
| SCH5295 | CDN already exists.                                                                                                                                                                                          |
| SCH5296 | ACD data block for CDN must exist. Data corrupted. Do a sysload.                                                                                                                                             |
| SCH5297 | Specify an ACD-DN for the default DN of CDN.                                                                                                                                                                 |
| SCH5298 | CDN conflict.                                                                                                                                                                                                |
| SCH5299 | A valid local ACD DN must exist for the default ACD DN of the CDN.                                                                                                                                           |
| SCH5300 | Invalid DN type. Must specify an ACD-DN for the default DN of the CDN.                                                                                                                                       |
| SCH5301 | TSFT value is out-of-range (0-510).                                                                                                                                                                          |
| SCH5302 | This ACD-DN cannot be deleted because it is used as the default DN for some CDNs.                                                                                                                            |
| SCH5303 | Invalid DN type. Must specify a CDN for the CDN type and an ACD-DN for the ACD or NACD type.                                                                                                                 |
| SCH5304 | Cannot remove a CDN with calls still in queue.                                                                                                                                                               |
| SCH5305 | Cannot define a CDN as OVDN.                                                                                                                                                                                 |
| SCH5306 | Cannot have a Target DN as CDN.                                                                                                                                                                              |
| SCH5307 | Cannot remove a CDN if a supervisor has a DWC key defined for the CDN.                                                                                                                                       |
| SCH5308 | In procedure copy_tree of scfcrse3, "MOV" command cannot copy CPND names from originating tree to designated tree since the CPND data block for the designated customer is not yet created in LD 95 (scsnd). |
| SCH5313 | Warning: CNTA CLS is only allowed for ACD sets with DN on key 0. CNTD is used.                                                                                                                               |

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| SCH5314 | A six-digit or 10-digit level screening data is required for a newly defined NPA or NXX, respectively.                                                                                                                                                                           |
| SCH5316 | <p>The peripheral buffer card is bad, but there is no active call, so the trunk is allowed to be removed.</p> <p><b>Action:</b> The peripheral buffer card should be replaced.</p>                                                                                               |
| SCH5317 | Outing the DCHI used for DPNSS is not allowed until the DDSL block is removed first.                                                                                                                                                                                             |
| SCH5318 | MBG out-of-range 0-65535                                                                                                                                                                                                                                                         |
| SCH5319 | MBG1 is reserved for Public Network                                                                                                                                                                                                                                              |
| SCH5320 | BSGC out-of-range 0-65535                                                                                                                                                                                                                                                        |
| SCH5322 | MBGS out-of-range 0-65535                                                                                                                                                                                                                                                        |
| SCH5323 | NTBL out-of-range 0-63                                                                                                                                                                                                                                                           |
| SCH5324 | <p>The addition of the list being created would overflow/fill the estimated remaining disk space. The list is not stored.</p> <p><b>Action:</b> Create a smaller (DN or length) list, or delete other PDS equipment, or data dump to reduce the number of records estimated.</p> |
| SCH5325 | Warning: Multi-Language I/O Package, package 211 must be turned on to use a language other than English.                                                                                                                                                                         |
| SCH5326 | <p>1.5 Mb/s DTI/PRI pad category table does not exist.</p> <p><b>Action:</b> Create a pat category table using LD 73.</p>                                                                                                                                                        |
| SCH5327 | <p>PRI2 pad category tables cannot be used with DTI2 trunks.</p> <p><b>Action:</b> Enter a DTI2 pad category table</p>                                                                                                                                                           |
| SCH5328 | Port classification PRI is only allowed for 1.5 Mb/s PRI routes.                                                                                                                                                                                                                 |
| SCH5329 | International 1.5/2.0 Mb/s Gateway (GPRI) package 167 is restricted.                                                                                                                                                                                                             |
| SCH5330 | Code value entered is not allowed for DTI2 trunks. Valid values are: 0,1,2,3,4,5,6,8,10,15,16,17,18,20,25, and 26.                                                                                                                                                               |
| SCH5331 | The pad category table specified cannot be used with PRI2 trunks because DTI2 trunks are currently using this pad category table.                                                                                                                                                |

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| SCH5332 | Valid DN required for AUDN.                                                                                                                                           |
| SCH5334 | Not allowed to configure different member of the same group or same member of the same group on different keys for same TN.                                           |
| SCH5335 | Trunk install package is restricted.                                                                                                                                  |
| SCH5336 | Invalid input for the trunk model option.                                                                                                                             |
| SCH5337 | Invalid input character for selecting the trunk model option. Not allowed with autodial DN.                                                                           |
| SCH5338 | Null input is not allowed for MODL prompt.                                                                                                                            |
| SCH5339 | Model number is out-of-range (1-127).                                                                                                                                 |
| SCH5340 | Space is not allowed after input is entered.                                                                                                                          |
| SCH5341 | Space is not allowed before input.                                                                                                                                    |
| SCH5342 | The entered number has been used to define a model trunk.                                                                                                             |
| SCH5345 | No default value for new device.                                                                                                                                      |
| SCH5346 | Port must be disabled before changing.                                                                                                                                |
| SCH5347 | Baud rate invalid.                                                                                                                                                    |
| SCH5348 | Analog Private Network Switching System (APNSS) channel ID has reached its limit.                                                                                     |
| SCH5349 | Call forward features are not compatible with FAXS feature. FTR CFW has been removed and/or CLS FNA, FBA, CWA, CFTA, CFXA have been set to FND, FBD, CWD, CFTD, CFXD. |
| SCH5350 | FAXS package is not equipped.                                                                                                                                         |
| SCH5351 | Cannot remove a CDN when it has default calls in its default ACD-DN.                                                                                                  |
| SCH5352 | Model ACD sets cannot have a POS ID assigned to a key.                                                                                                                |
| SCH5353 | Model sets cannot have a DN assigned to a key.                                                                                                                        |
| SCH5354 | Model sets cannot be defined with the AINS package unequipped.                                                                                                        |
| SCH5355 | Models cannot be defined for this type.                                                                                                                               |

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| SCH5356      | Model sets cannot be moved or copied.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| SCH5357      | Model number is out-of-range.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| SCH5358      | Model set already exists.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| SCH5359      | Model set does not exist.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| SCH5360      | First Number DN conflicts with an existing DN.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| SCH5361      | Too many digits in the First Number DN.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| SCH5362      | Cannot remove an ACD-DN when the ICPM is monitoring it for statistics.                                                                                                                                                                                                                                                                                                                                                                                                                                |
| SCH5363      | Invalid Attendant Overflow DN type. CDN can not be allowed to be an AODN.                                                                                                                                                                                                                                                                                                                                                                                                                             |
| SCH5364      | All digits must be in the range 0-7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| SCH5366      | Protocol group already exists.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| SCH5367      | Protocol group does not exist.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| SCH5368 x    | <p>Protocol group x cannot be removed.</p> <p><b>Action:</b> Remove the DSL associated with this protocol and try again.</p>                                                                                                                                                                                                                                                                                                                                                                          |
| SCH5369      | Multi-purpose ISDN Signaling Processor (MISP) has already been enabled.                                                                                                                                                                                                                                                                                                                                                                                                                               |
| SCH5370      | Multi-purpose ISDN Signaling Processor (MISP) does not exist.                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| SCH5371      | Not a PRI/PRI2 loop or card.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| SCH5372      | I/O polling table is full.                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| SCH5373      | Cannot obtain MSDL/MISP index, table is full.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| SCH5374      | Warning: B-channel is not configured for packet data transmission.                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| SCH5375 l ch | <p>This PRI/PRI2 loop or card channel cannot be used for the BD nailed-up connection. The next line can be in a format of either:</p> <ol style="list-style-type: none"> <li>1. NO CH AVAIL IN LOOP l, or</li> <li>2. TRY x</li> </ol> <p>If output is format 1, there are no more B-channels available for a nailed-up connection on PRI loop. PRI is re-prompted and another loop can be entered. If output is format 2, channel x is available (enter x at the CH prompt to use this channel).</p> |

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| SCH5376 | The number of DSL in the system exceeded the limit.                                                              |
| SCH5377 | Card must be disabled for the change request or this is not an MISP card.                                        |
| SCH5378 | This is not an MISP loop.                                                                                        |
| SCH5379 | Maximum of 4 cards allowed per MISP.                                                                             |
| SCH5380 | Warning: You will not be able to configure DSL7 of this card because D-channel is configured for packet handler. |
| SCH5381 | Must be a superloop.                                                                                             |
| SCH5382 | Card must be disabled and all DSLs must be removed to out the card.                                              |
| SCH5383 | BRI line card already exists.                                                                                    |
| SCH5384 | BRI line card does not exist.                                                                                    |
| SCH5385 | Non BRI card is not allowed.                                                                                     |
| SCH5386 | Must be a DSL TN.                                                                                                |
| SCH5387 | Disable the BRI line card to before configuring its DSL.                                                         |
| SCH5388 | All DSLs must be removed to change the card type.                                                                |
| SCH5389 | DSL out-of-range (0-7).                                                                                          |
| SCH5390 | DSL data block does not exist.                                                                                   |
| SCH5391 | DSL data block already exists.                                                                                   |
| SCH5392 | B-channel packet data option is not enabled. Must be configured in MISP.                                         |
| SCH5393 | Warning: Make sure the call type matches the DN and TSP.                                                         |
| SCH5394 | At least one call type must be defined (VCE, DTA, or PMD).                                                       |
| SCH5395 | System contains additional LETIs.                                                                                |
| SCH5396 | Remove all TSPs before removing the DSL.                                                                         |
| SCH5397 | Enter three values: LTG, LTN and TEI.                                                                            |
| SCH5398 | The number of LTIDs in the system exceeded the limit.                                                            |

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| SCH5399 | Input exceeded the maximum LTEI allowed for this DSL.                                                 |
| SCH5400 | The LTEI pair does not exist.                                                                         |
| SCH5401 | Warning: Make sure MCAL value does not exceed the maximum number of calls for a DSL specified in TSP. |
| SCH5402 | System contains additional TSPs.                                                                      |
| SCH5403 | BRI DN is not allowed.                                                                                |
| SCH5404 | MISP loop is not allowed.                                                                             |
| SCH5405 | BRI SILC/UILC card not allowed. (Monitored set cannot be a BRI set).                                  |
| SCH5406 | Cannot configure this DSL because D-channel is configured for packet handler.                         |
| SCH5407 | LTID TEI block does not exist.                                                                        |
| SCH5408 | Must enter TEI to delete.                                                                             |
| SCH5409 | Must enter call type to delete.                                                                       |
| SCH5410 | Address translation failed.                                                                           |
| SCH5411 | This is not a DSL line. Enter the TN of a valid DSL line.                                             |
| SCH5412 | USID map is not defined.                                                                              |
| SCH5413 | Number of TSPs defined has reached the limit.                                                         |
| SCH5414 | TSP is already defined.                                                                               |
| SCH5415 | TSP does not exist.                                                                                   |
| SCH5416 | USID has not been removed.                                                                            |
| SCH5417 | TSP does not exist.                                                                                   |
| SCH5418 | At least one SPID must be defined.                                                                    |
| SCH5419 | SPID has not been defined.                                                                            |
| SCH5420 | Input has exceeded the maximum allowed SPIDs per TSP. Specify a maximum of eight SPIDs.               |
| SCH5421 | DN input is required.                                                                                 |

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| SCH5422 | DNs exceed the allowed limit.                                                                                             |
| SCH5423 | DN block does not exist.                                                                                                  |
| SCH5424 | DN does not exist in this TSP.                                                                                            |
| SCH5425 | DN has already been deleted.                                                                                              |
| SCH5426 | Invalid input.                                                                                                            |
| SCH5427 | Call Type is not defined in the DSL.                                                                                      |
| SCH5428 | Default DN must be entered.                                                                                               |
| SCH5429 | Warning: No current default DN is defined.                                                                                |
| SCH5430 | Insufficient memory.                                                                                                      |
| SCH5431 | DN tree corrupted.                                                                                                        |
| SCH5432 | DN exists and is not a BRI DN.                                                                                            |
| SCH5433 | DN is defined in other TN. Cannot have multiple appearance for BRI DN.                                                    |
| SCH5434 | USID does not exist.                                                                                                      |
| SCH5435 | SPID has been defined in TSP number.                                                                                      |
| SCH5436 | Input SPID is too long (maximum of 9 characters).                                                                         |
| SCH5437 | There is no TSP defined with the specified SPID.                                                                          |
| SCH5438 | Card does not exist in MISP block.                                                                                        |
| SCH5439 | BRI package not equipped.                                                                                                 |
| SCH5440 | Loop/Card has already been assigned.                                                                                      |
| SCH5441 | Cannot remove MISP because at least one BRI line card is associated with it.                                              |
| SCH5442 | Cannot move/swap BRI SILC/UILC line card.<br><b>Action:</b> Make sure all the DSLs have been removed from the card first. |
| SCH5443 | Customer night DN cannot be BRI DN.                                                                                       |
| SCH5444 | Loop pair is used by an MISP.                                                                                             |

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| SCH5445   | BRI DN cannot be a Hot Line DN.                                                                                                                                                                                                                                               |
| SCH5446   | BRI DN cannot be night DN.                                                                                                                                                                                                                                                    |
| SCH5447   | Attendant Overflow DN cannot be BRI DN.                                                                                                                                                                                                                                       |
| SCH5448 x | <p>Disconnect dedicated D-channel connection command for the specified MISP has failed. Where: x = card number.</p> <p><b>Action:</b> Check MISP status.</p>                                                                                                                  |
| SCH5449 x | <p>Send DSL or line card status command for the specified MISP has failed. Where: x = card number.</p> <p><b>Action:</b> Check MISP status.</p>                                                                                                                               |
| SCH5450 x | <p>Parameter download procedure for the specified MISP has failed. Where: x = card number.</p> <p><b>Action:</b> Check MISP status.</p>                                                                                                                                       |
| SCH5451 x | B-channel dedicated connection to PRI/PRI2 has failed.                                                                                                                                                                                                                        |
| SCH5452 x | Disconnect B-channel dedicated connection to PRI/PRI2 command has failed.                                                                                                                                                                                                     |
| SCH5453 x | Send maintenance pending message to MISP failed. Where: x = card number for.                                                                                                                                                                                                  |
| SCH5454   | <p>Invalid Logical Terminal Identifier (LTID) input. The combination of both Logical Terminal Group (LTG) and Logical Terminal Number (LTN) having their maximum values (LTG = 15 and LTN = 1023) is not valid.</p> <p><b>Action:</b> Use a smaller value for either one.</p> |
| SCH5455   | DSL already exists.                                                                                                                                                                                                                                                           |
| SCH5456   | DSL does not exist.                                                                                                                                                                                                                                                           |
| SCH5457   | Multi-purpose ISDN Signaling Processor (MISP) must be disabled.                                                                                                                                                                                                               |
| SCH5458   | TSP parameters downloading to the MISP failed.                                                                                                                                                                                                                                |
| SCH5459   | Send DSL status to line card failed.                                                                                                                                                                                                                                          |
| SCH5460   | Group Call group number cannot be a BRI DN.                                                                                                                                                                                                                                   |
| SCH5461   | DN does not exist or is not a PBX or BCS type.                                                                                                                                                                                                                                |
| SCH5462   | Build D-channel nailed up to MISP loop failed.                                                                                                                                                                                                                                |



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| SCH5463 | B-channel cannot be used for both packet mode data and voice/data.                                                                                                                                                                                                                                                                                                           |
| SCH5491 | <p>Bad CPNW configuration: the speed call list specified in the CPNW data block of LD18 is invalid.</p> <p><b>Action:</b> Change CPNW block in LD18.</p>                                                                                                                                                                                                                     |
| SCH5492 | <p>The PINX DN cannot be reached due to one of the following:</p> <ol style="list-style-type: none"><li>1. the configuration is invalid</li><li>2. the D-channel has been disabled</li><li>3. the local PINX DN is not defined</li></ol> <p><b>Action:</b> Check that the network numbering plan is valid.</p>                                                               |
| SCH5493 | TCAP or ROSE protocol error for CPNW feature. It is recommended that you report this problem.                                                                                                                                                                                                                                                                                |
| SCH5496 | An ACD DN defined for data service access may not be a default ACD DN or a CDN.                                                                                                                                                                                                                                                                                              |
| SCH5497 | <p>Unable to define a new BCHI with IFC=SL1.</p> <p><b>Action:</b> To define a new BCHI with IFC=SL1, default at RCVP on the first pass. Enter SL1 at IFC. Make a second pass from DCHI and enter YES at RCVP.</p>                                                                                                                                                           |
| SCH5498 | RCVP is set to "yes", which is only allowed for SL-1 interfaces.                                                                                                                                                                                                                                                                                                             |
| SCH5499 | Cannot change. There are Automatic Wake Up calls during this interval which must use this route data block. Wait until there are no more Wake Up calls before changing this route. If the background terminal is equipped, do a "PR WA MA" command to determine the next free five minute time interval. Note that this command does not list AWU re-tries for the interval. |
| SCH5500 | Input value out of range 0-3.                                                                                                                                                                                                                                                                                                                                                |
| SCH5501 | There can only be one Wake Up Key (WUK) per set. Before moving the WUK key, the existing WUK must be removed (NUL).                                                                                                                                                                                                                                                          |
| SCH5502 | MAXT + DCMX cannot be greater than 255.                                                                                                                                                                                                                                                                                                                                      |
| SCH5503 | Response to CTRQ must have 4 digits.                                                                                                                                                                                                                                                                                                                                         |
| SCH5504 | First field of the response to CTAL cannot be longer than 16 digits.                                                                                                                                                                                                                                                                                                         |
| SCH5505 | Second field of the response to CTAL is out-of-range (0-1023).                                                                                                                                                                                                                                                                                                               |

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| SCH5506 | Third field of the response to CTAL is out-of-range (0-4).                                                                                                                                                |
| SCH5507 | ACD stations not allowed MCTA Class of Service unless the EMCT package is equipped.                                                                                                                       |
| SCH5508 | Same card and port number has been used.                                                                                                                                                                  |
| SCH5509 | Warning! The entered DCH port may not be supported on your current configuration.                                                                                                                         |
| SCH5510 | The keycodes entered for modifying the ISM parameters failed the security check                                                                                                                           |
| SCH5511 | The loop type is out-of-range or not supported.                                                                                                                                                           |
| SCH5512 | Warning: the DWC key is defined for a CDN which is not in controlled mode. DWC for a CDN in default mode is meaningless.                                                                                  |
| SCH5514 | This APL-TTY port is configured for the intercept computer feature.                                                                                                                                       |
| SCH5516 | Incorrect response for RGTP. Enter 8 or 16.                                                                                                                                                               |
| SCH5518 | BGD package is restricted.                                                                                                                                                                                |
| SCH5519 | Incorrect TYPE entered when REQ is CHG or PRT.<br><b>Action:</b> Reenter a correct type.                                                                                                                  |
| SCH5522 | The specified TN is not defined.                                                                                                                                                                          |
| SCH5523 | A DST port type is not allowed when SAT = NO.                                                                                                                                                             |
| SCH5524 | DN xxxx NEW MARP I s c u    The current TN is no longer the MARP TN for Dn xxxx.<br>The new MARP for DN xxxx has defaulted to TN I s c u.                                                                 |
| SCH5525 | New TN(s) copied from a TN template with new DN(s) for the prime DN appearances. The new TNs are MARPs for the new prime DN(s). Secondary DN(s) are copied without retaining MARP designations.           |
| SCH5526 | Warning: In printing the DN block for a DN, no MARP or more than one MARP TN was found in the database. Only one MARP should be defined for a DN.<br><b>Action:</b> Changing the database is recommended. |
| SCH5527 | X3W trunk requires DID trunk type.                                                                                                                                                                        |
| SCH5528 | OHAS DN must be a Single Appearance, Multiple Appearance or ACD DN.                                                                                                                                       |

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| SCH5530 | The Set Relocation table does not exist; therefore, no operation may be performed on it. The Set Relocation package 53 may not be equipped.        |
| SCH5531 | Exactly eight characters must be entered at prompt NTCD.                                                                                           |
| SCH5532 | Exactly six characters must be entered at prompt SER.                                                                                              |
| SCH5533 | Exactly two characters must be entered at prompt COLR and RLS.                                                                                     |
| SCH5534 | Input must be a valid hexadecimal digit (0-9, A-F).                                                                                                |
| SCH5535 | That TN cannot be found in the Set Relocation table.<br><b>Action:</b> Print the relocation table to see the valid TNs.                            |
| SCH5536 | Autodial Timeout (ADLD) cannot be greater than dial tone interdigit timeout for 500 telephones (DIND) or 2500 telephones (DIDT).                   |
| SCH5537 | Invalid autodial DN.                                                                                                                               |
| SCH5538 | Invalid response to prompt PSEL.<br><b>Action:</b> Enter DMDM or TLNK.                                                                             |
| SCH5539 | Invalid response to prompt PSDS.<br><b>Action:</b> Enter YES or NO.                                                                                |
| SCH5540 | Invalid response to prompt V25.<br><b>Action:</b> Enter YES or NO.                                                                                 |
| SCH5541 | Only OUT or CHG is allowed for TYPE = MTRT.                                                                                                        |
| SCH5542 | TRAN must be SYN if PSDS = YES. Enter SYN to TRAN or set PSDS = NO before setting TRAN to ASYN.                                                    |
| SCH5543 | No customer or no customer with PREQ option set.                                                                                                   |
| SCH5544 | Illegal key word. Should be R232 or R422.                                                                                                          |
| SCH5545 | The group number must be input when a configuring a new device. No {cr} without input is allowed.                                                  |
| SCH5546 | Illegal key word. Should be DTE or DCE.                                                                                                            |
| SCH5547 | Out of memory. Cannot allocate unprotected AML data store.<br><b>Action:</b> To free some memory, deallocate I/O devices no longer in use, if they |

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|         | exist.                                                                                                                                                  |
| SCH5548 | Out of memory. Cannot allocate protected AML data store.<br><b>Action:</b> To free some memory, deallocate I/O devices no longer in use, if they exist. |
| SCH5549 | At least one user type must be defined.                                                                                                                 |
| SCH5550 | Out of memory. Cannot allocate required SDI memory.<br><b>Action:</b> To free some memory, deallocate I/O devices no longer in use, if they exist.      |
| SCH5551 | The given user type is not allowed on the MSDL card (i.e., APL, HSL, LSL, are not allowed on MSDL card).                                                |
| SCH5552 | Warning: To use the changed download parameters, must disable and enable the SDI port just modified.                                                    |
| SCH5554 | Invalid I/O progress marker detected.                                                                                                                   |
| SCH5555 | Invalid input for ADAN prompt.                                                                                                                          |
| SCH5556 | Wrong action entered for ADAN prompt.                                                                                                                   |
| SCH5557 | Invalid device type for ADAN.                                                                                                                           |
| SCH5558 | Invalid device type for ADAN.                                                                                                                           |
| SCH5559 | AML cannot be configured due to package restriction.                                                                                                    |
| SCH5560 | DCH cannot be configured due to package restriction.                                                                                                    |
| SCH5561 | Invalid I/O device.                                                                                                                                     |
| SCH5562 | No logical number entered for ADAN prompt.                                                                                                              |
| SCH5563 | Invalid logical number.                                                                                                                                 |
| SCH5564 | Primary DCH must be specified.                                                                                                                          |
| SCH5565 | Backup DCH already configured for this primary DCH.                                                                                                     |
| SCH5566 | No card type given.                                                                                                                                     |
| SCH5567 | Invalid card type for TTY device.                                                                                                                       |

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| SCH5568 | Invalid card type for AML device.                                                                         |
| SCH5569 | Invalid card type for DCH device.                                                                         |
| SCH5570 | Backup DCH must be on the same card type as primary DCH.                                                  |
| SCH5571 | No device number entered.                                                                                 |
| SCH5572 | No port number entered.                                                                                   |
| SCH5573 | Specified port not available, other ports are available.                                                  |
| SCH5574 | No port is available on the specified MSDL card.                                                          |
| SCH5575 | Invalid MSDL physical address.                                                                            |
| SCH5576 | Invalid device number.                                                                                    |
| SCH5577 | Incorrect number of parameters for ADAN prompt.                                                           |
| SCH5578 | Logical application must be disabled.                                                                     |
| SCH5579 | Physical I/O block pointer corruption.                                                                    |
| SCH5580 | TTY cannot be configured.                                                                                 |
| SCH5581 | TTY cannot be changed.                                                                                    |
| SCH5582 | Disk cannot be configured.                                                                                |
| SCH5583 | Disk cannot be changed.                                                                                   |
| SCH5584 | TTY cannot be outed.                                                                                      |
| SCH5585 | TTY is still enabled.                                                                                     |
| SCH5586 | Device must be disabled to be outed.                                                                      |
| SCH5587 | TTY error.                                                                                                |
| SCH5589 | Cannot out application from MSDL card, as this is the last application, the MSDL card has to be disabled. |
| SCH5590 | The number of new logical applications (AML or DCH) has exceeded its allowable system limit.              |
| SCH5591 | History File cannot be configured due to package restriction.                                             |

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| SCH5592 | History File cannot be configured due to no entry available in the I/O table.                                                                         |
| SCH5593 | History File does not exist; therefore, cannot use the chg or del command.                                                                            |
| SCH5594 | Data port out-of-range for MCU. Enter 8-15 on ISDL cards, 16-31 on DAC cards.                                                                         |
| SCH5596 | TRAN must be SYNC if PSDS = YES.                                                                                                                      |
| SCH5597 | BAUD must be 11 or 12 for PSDS = YES.                                                                                                                 |
| SCH5598 | Operating and system parameters may not be set properly for data option. Change PSEL or OPE if needed.                                                |
| SCH5599 | Operating and system parameters may not be set properly for data option. Change PSEL or OPE if needed.                                                |
| SCH5600 | Invalid input for DTAO. Enter MPDA or MCA.                                                                                                            |
| SCH5601 | Invalid input for PSEL. Enter DMDM or TLNK.                                                                                                           |
| SCH5602 | Invalid input for PSDS. Enter YES or NO.                                                                                                              |
| SCH5603 | Invalid input for V25. Enter YES or NO.                                                                                                               |
| SCH5605 | Invalid input for HDLC. Enter YES or NO.                                                                                                              |
| SCH5606 | MBGS number already assigned to another tenant. If necessary, use temporary value "MBGS 0" to switch the MBGS.                                        |
| SCH5607 | The route entered is not yet configured; cannot add to a customized CPG. Defaulted to CPG 0.<br><b>Action:</b> First configure the route and reenter. |
| SCH5608 | Input number might be lost due to busy system Input/Output.                                                                                           |
| SCH5609 | Clock controller must be disabled first.                                                                                                              |
| SCH5610 | The slot number is not a valid DTI/PRI slot. It must be defined in Overlay 17 first.                                                                  |
| SCH5611 | Input is conflict with the existing slot defined for secondary clock reference.                                                                       |
| SCH5612 | Wrong input field for AUXR prompt. It must be YES/NO or {CR}.                                                                                         |
| SCH5613 | Invalid input for AUXR prompt.                                                                                                                        |

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| SCH5614 | The slot number is not a valid DTI2/PRI2 slot. It must first be defined in Overlay 17 under the DTI2/PRI2 prompt. |
| SCH5615 | Existing clock controller must be disabled first. Primary/secondary reference must be set to freerun.             |
| SCH5616 | Primary/secondary clock reference loop must set equal to freerun before changes AUXR prompt to YES.               |
| SCH5617 | Clock slot number out-of-range.                                                                                   |
| SCH5618 | Must disable the existing clock controller and remove the clock data before doing any clock controller changes.   |
| SCH5619 | Must remove the clock controller data first before delete the digital loop.                                       |
| SCH5625 | Multiple Appearance data DN is not allowed.                                                                       |
| SCH5628 | Attendant Forward No Answer (AFNA) package 134 is not equipped.                                                   |
| SCH5629 | {CR} not allowed for the prompt NFNA when OPT is changed from DNCA to DNCS, or from DNCS to DNCA.                 |
| SCH5630 | Must be a DID/TIE DTI trunk.                                                                                      |
| SCH5631 | RVQ feature only applies to SL-1 interface.                                                                       |
| SCH5633 | Input out-of-range: 2-(10)-30 seconds.                                                                            |
| SCH5634 | Input out-of-range: 4-(5)-10 retries.                                                                             |
| SCH5635 | DTAD data does not exist.                                                                                         |
| SCH5636 | DTAD data already exists.                                                                                         |
| SCH5637 | Maximum number of digits reached, max is 5.                                                                       |
| SCH5638 | Maximum number of sequences reached, max is 20.                                                                   |
| SCH5639 | DTAD sequence does not exist. Cannot remove.                                                                      |
| SCH5640 | Multi-purposeSerial Data Link (MSDL) package 222 is restricted.                                                   |
| SCH5641 | HDTI trunk must have DTN CLS.                                                                                     |
| SCH5642 | There are no FGD blocks configured (for command PRT).                                                             |

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| SCH5643 | Only one memory card allowed.                                                                                                                                             |
| SCH5644 | 768K memory card not allowed. Enter 2M (2 Megabyte).                                                                                                                      |
| SCH5645 | Memory cannot exceed 4 Megabytes.                                                                                                                                         |
| SCH5646 | Cannot change memory card types from 768K to 2M, or vice versa without a sysload.<br><b>Action:</b> Install new memory cards, then do a sysload to auto-configure memory. |
| SCH5647 | MSDL RCAP capability only applies to SL-1 interface.                                                                                                                      |
| SCH5648 | History file is already configured.                                                                                                                                       |
| SCH5649 | Must enter user type if new D-channel.                                                                                                                                    |
| SCH5650 | Invalid primary D-channel number.                                                                                                                                         |
| SCH5651 | Invalid response for RTS. Enter ON or OFF.                                                                                                                                |
| SCH5652 | Cannot OUT or CHG that TN. Only entries which resulted from a Modular telephone relocation are eligible for manipulation in LD 50 TYPE = MTRT.                            |
| SCH5653 | Overlay 45 is not supported.                                                                                                                                              |
| SCH5654 | Before setting the SIAA option, you must define the intrusion tone in LD 56.                                                                                              |
| SCH5655 | A value greater than 25 has been entered for the TNDM prompt when the DPNSS package is equipped. The value 25 is used for DPNSS calls.                                    |
| SCH5656 | Invalid user types for this device.                                                                                                                                       |
| SCH5657 | Missing software for DSDL/MSIP or application running on it. Could be MISP, MSDL, BRI, SDI, DCH, or AML.                                                                  |
| SCH5658 | The card type entered is not valid for MSDL/MISP or application running on it. Valid types are MISP, MSDL, BRII, SDI, DCH, or AML.                                        |
| SCH5659 | Cannot add D-channel packet data option because DSL 7 of the last card associated with the MISP is configured.                                                            |
| SCH5660 | Cannot remove B-channel packet data option because at least one associated DSL has a B-channel with PMD call type.                                                        |
| SCH5661 | Cannot remove D-channel packet data option because at least one associated DSL has a LTEI pair defined.                                                                   |

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| SCH5662 | For the Meridian 911 package, the TN for the CWNT must be a 500/2500 telephone.                                                                                                                                                                  |
| SCH5663 | Entered DN does not exist.                                                                                                                                                                                                                       |
| SCH5664 | Invalid DN type for Nite LDN.                                                                                                                                                                                                                    |
| SCH5665 | This Nite LDN is not defined.                                                                                                                                                                                                                    |
| SCH5666 | No is only allowed when all Nite DN's are cleared.                                                                                                                                                                                               |
| SCH5667 | When configuring an MCU trunk, a corresponding voice TN must be configured.<br><b>Action:</b> Either “out” the unit in the voice TN or put the MCU trunk on a TN where the corresponding voice TN is empty.                                      |
| SCH5668 | A route used for the BRI packed handler (BRIP = YES) must be a PRI or PRI2 route.                                                                                                                                                                |
| SCH5670 | For Primary loop, the slot must be set equal to the clock controller slot number. For secondary loop, the slot must not set equal to the clock controller slot number.                                                                           |
| SCH5671 | The loop must be set to free run mode or switch the tracking to another reference before entering the changes.                                                                                                                                   |
| SCH5672 | Start arrangement for M911 trunk must be WNK.                                                                                                                                                                                                    |
| SCH5673 | For M911 trunks, signaling must be EAM, EM4 or LDR.                                                                                                                                                                                              |
| SCH5674 | For M911 trunks, AUTO DN must be a CDN.                                                                                                                                                                                                          |
| SCH5675 | Cannot change a non-Meridian 911 route to a Meridian 911 route.                                                                                                                                                                                  |
| SCH5676 | ACD listptr is nil.                                                                                                                                                                                                                              |
| SCH5677 | The primary D-channel cannot be removed, unless the backup D-channel is removed first.                                                                                                                                                           |
| SCH5679 | Not allowed to change the user from ISLD to PRA or SHA if the D-channel is equipped with backup D-channel.<br><b>Action:</b> First remove the backup D-channel. Then change the user from ISLD to PRA or SHA and add the backup D-channel again. |
| SCH5680 | The NEW MISP's application must be disabled for the change request.                                                                                                                                                                              |
| SCH5681 | Send line card status to MISP failed.                                                                                                                                                                                                            |

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| SCH5682 | tn l s c u Cannot update MARP TN designation: TN l s c u failed TNTRANS.<br><b>Action:</b> Check the status of the TN. MARP TN assignment in the database needs correction later.                                                                                   |
| SCH5683 | MOV or OUT not allowed on a telephone being used as a CWNT of an ACD                                                                                                                                                                                                |
| SCH5684 | Cannot remove a CDN if it is being used as an Auto-terminate DN (LD 23).                                                                                                                                                                                            |
| SCH5685 | The device must be disabled to change a group number.                                                                                                                                                                                                               |
| SCH5686 | Cannot remove a CDN if it is being used as an CWNT. Counter should never be negative. Design error has occurred                                                                                                                                                     |
| SCH5687 | Wrong extender. Enter 3PE.                                                                                                                                                                                                                                          |
| SCH5688 | Card slot out-of-range (1-13).                                                                                                                                                                                                                                      |
| SCH5689 | CNI port number out-of-range (0-1).                                                                                                                                                                                                                                 |
| SCH5690 | Network group out-of-range (0-4).                                                                                                                                                                                                                                   |
| SCH5691 | SIMM size out-of-range (1, 4, 8, 16).                                                                                                                                                                                                                               |
| SCH5692 | SIMMs must be entered in order descending size.                                                                                                                                                                                                                     |
| SCH5693 | HDK/FDK device types to the ADAN are not permitted on this system type.                                                                                                                                                                                             |
| SCH5694 | Service change is not allowed on this TN since it is currently active on an M911                                                                                                                                                                                    |
| SCH5695 | The flow control option is not available for this user type.                                                                                                                                                                                                        |
| SCH5696 | Invalid input entered for this prompt(ALOW/DENY expected).                                                                                                                                                                                                          |
| SCH5697 | General Carrier Restriction (GCR Yes) was specified for this route, but no Equal Access toll calls were restricted (both NTOL and ITOL are set to Allow). Either set GRC to NO or set one, or both of the Equal Access toll call sequences (NTOL and ITOL) to Deny. |
| SCH5698 | Equal Access call restriction was specified for this route (EQAR Yes), but a restriction type was not selected (GCR and SCR are both No).<br><b>Action:</b> Either set EQAR to No, or set one, or both of the restriction types (GCR and SCR) to Yes.               |

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| SCH5699 | <p>Equal Access call restriction was specified for this route (EQAR Yes), but a restriction type was not selected. (General Carrier Restriction was not activated (GCR No) and Selective Carrier Restriction (SCR) is not available because the NFCR package is not enabled).</p> <p><b>Action:</b> Either set EQAR to No, or set GCR to Yes.</p> |
| SCH5700 | <p>Warning: Table 0 has been configured for this card by default. Verify Table 0 in LD 97 contains the desired parameters for dial tone detection.</p>                                                                                                                                                                                            |
| SCH5701 | <p>XTD Table has not yet been defined in LD 97.</p>                                                                                                                                                                                                                                                                                               |
| SCH5703 | <p>Configure a DCH block for DPNSS in the LD 17 first.</p>                                                                                                                                                                                                                                                                                        |
| SCH5704 | <p>A maximum of 16 characters are allowed for DES.</p>                                                                                                                                                                                                                                                                                            |
| SCH5705 | <p>Input does not match the existing value of DES. Existing DES is not changed.</p> <p><b>Action:</b> To remove a DES, enter "X" followed by the exact characters of the existing DES.</p>                                                                                                                                                        |
| SCH5706 | <p>Input number of characters does not match the existing value of DES. Existing DES is not changed.</p> <p><b>Action:</b> To remove a DES, enter "X" followed by the exact characters of the existing DES.</p>                                                                                                                                   |
| SCH5707 | <p>DES value already exists.</p> <p><b>Action:</b> To change a DES, you must remove the current DES first. To remove a DES, enter "X" followed by the exact characters of the existing DES.</p>                                                                                                                                                   |
| SCH5708 | <p>This Primary Rate Interface B-channel is used for a connection between Basic Rate Interface and a packet handler. Remove the relationship in LD 27 first.</p>                                                                                                                                                                                  |
| SCH5710 | <p>XSM is not allowed to be enabled for an active TTY.</p>                                                                                                                                                                                                                                                                                        |
| SCH5711 | <p>Default XTD Table (Table 0) cannot be removed.</p>                                                                                                                                                                                                                                                                                             |
| SCH5712 | <p>Table cannot be removed because it is configured for an XTD card.</p> <p><b>Action:</b> Change XTD card configuration in LD 13 before removing Table.</p>                                                                                                                                                                                      |
| SCH5713 | <p>Warning: Make sure that this XTD Table is not defined in any Route Data Blocks.</p>                                                                                                                                                                                                                                                            |
| SCH5716 | <p>Warning: ARF is not allowed with BAT or LBS. Class of Service has been changed to ARF XBAT XLBS.</p>                                                                                                                                                                                                                                           |

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| SCH5717 | Warning: BAT is not allowed with ARF or LBS. Class of Service has been changed to BAT XARF XLBS.                                                                                                                                                                                                                                                                                |
| SCH5718 | Warning: LBS is not allowed with BAT or ARF. Class of Service has been changed to LBS XBAT XARF.                                                                                                                                                                                                                                                                                |
| SCH5719 | The XDID/EAM parameters may not be changed while the unit is busy.                                                                                                                                                                                                                                                                                                              |
| SCH5720 | <p>Service loop (CONF, MFS, TDS, or XCT) cannot be added because the maximum number of service loops already exists.</p> <p><b>Action:</b> To add an XCT one of the TDS, MFS, or CONF loop service limits may be exceeded. In Release 14 the maximum number of service loops allowed is 15. In Release 17 the maximum number is 16. In Release 18 the maximum number is 64.</p> |
| SCH5725 | Invalid Controller number (out-of-range or undefined).                                                                                                                                                                                                                                                                                                                          |
| SCH5726 | Cannot print an undefined Controller.                                                                                                                                                                                                                                                                                                                                           |
| SCH5727 | Cannot delete an undefined Controller.                                                                                                                                                                                                                                                                                                                                          |
| SCH5728 | <p>Cannot delete a Controller that is not empty.</p> <p><b>Action:</b> Remove TN assigned to superloops associated with this Controller first.</p>                                                                                                                                                                                                                              |
| SCH5729 | No free Controller available.                                                                                                                                                                                                                                                                                                                                                   |
| SCH5730 | Location cannot have more than 6 characters.                                                                                                                                                                                                                                                                                                                                    |
| SCH5731 | Media must be COP (copper).                                                                                                                                                                                                                                                                                                                                                     |
| SCH5735 | Remove all TNs assigned first.                                                                                                                                                                                                                                                                                                                                                  |
| SCH5738 | Superloop number must be multiple of 4.                                                                                                                                                                                                                                                                                                                                         |
| SCH5739 | <p>Cannot define that superloop. Some internal loops already exist as regular loops.</p> <p><b>Action:</b> Remove all TNs and route numbers for the four loops higher than the new superloop. For example, to add superloop 4, old loops 4, 5, 6, and 7 must be undefined.</p>                                                                                                  |
| SCH5740 | Cannot print a new superloop.                                                                                                                                                                                                                                                                                                                                                   |
| SCH5741 | Cannot delete a new superloop.                                                                                                                                                                                                                                                                                                                                                  |
| SCH5742 | Superloop number is out-of-range (0-156).                                                                                                                                                                                                                                                                                                                                       |

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| SCH5743 | Cannot remove a superloop that is not empty.<br><b>Action:</b> Remove all TNs assigned to this superloop first.                                 |
| SCH5744 | Wrong number of input fields for the prompt SLOT.<br><b>Action:</b> Enter LEFT or RIGHT.                                                        |
| SCH5745 | Invalid keyword for the prompt SLOT.                                                                                                            |
| SCH5746 | Cannot delete XPE0 for a new superloop. XPE0 does not exist.                                                                                    |
| SCH5747 | Cannot remove undefined XPE0.                                                                                                                   |
| SCH5748 | Cannot remove XPE0 that is not empty.<br><b>Action:</b> Remove all TNs assigned to this Controller.                                             |
| SCH5749 | Wrong number of inputs for the prompt XPE0.<br><b>Action:</b> Enter Controller number (0-95), starting segment (0-3), and ending segment (0-3). |
| SCH5750 | Peripheral number is not defined or out-of-range.                                                                                               |
| SCH5751 | XPE0 cannot have the same number as XPE1.<br><b>Action:</b> Remove XPE1 first.                                                                  |
| SCH5752 | Existing XPE0 is not empty.<br><b>Action:</b> Remove all information in order to change the Controller number.                                  |
| SCH5753 | Input segment number is out-of-range (0-3).                                                                                                     |
| SCH5754 | Another superloop already exists within the segments.                                                                                           |
| SCH5755 | Starting segment number must be smaller than ending segment number.                                                                             |
| SCH5756 | Cannot remove segments that are not empty.<br><b>Action:</b> Remove all TNs assigned to this superloop.                                         |
| SCH5757 | {CR} is not allowed for the input. XPE0 has been deleted and XPE1 does not exist.                                                               |
| SCH5758 | <b>Action:</b> Must define XPE0 or XPE1 for a superloop.                                                                                        |
| SCH5759 | Cannot remove XPE1 from a new superloop. XPE1 does not exist.                                                                                   |

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| SCH5760 | Cannot remove undefined XPE1.                                                                                                                                                     |
| SCH5761 | Cannot remove XPE1. XPE0 has been removed. Need information for XPE0 or XPE1.                                                                                                     |
| SCH5762 | Cannot remove XPE1.                                                                                                                                                               |
| SCH5763 | Wrong number of input field for the prompt XPE1.<br><b>Action:</b> Enter Controller number (0-95), starting segment (0-3), and ending segment (0-3).                              |
| SCH5764 | XPE1 cannot be the same as XPE0.                                                                                                                                                  |
| SCH5765 | Existing XPE1 is not empty.<br><b>Action:</b> Remove all information in order to change the Controller number.                                                                    |
| SCH5767 | Input value is out-of-range.                                                                                                                                                      |
| SCH5768 | Invalid input for prompt DTMF.                                                                                                                                                    |
| SCH5769 | Invalid input for prompt P10P.                                                                                                                                                    |
| SCH5770 | Invalid input for prompt S10P.                                                                                                                                                    |
| SCH5771 | Invalid input for prompt 20PP.                                                                                                                                                    |
| SCH5772 | Invalid input for INTN. Enter YES for A-law, NO for $\mu$ -law.                                                                                                                   |
| SCH5773 | Allowed values for quiet code are 0-3.                                                                                                                                            |
| SCH5774 | Input out-of-range for maintenance thresholds, Allowed values are 1-65532. CONT is the number of continuity faults per timeslot and CRCF is the number of CRC failures per cable. |
| SCH5775 | Input out-of-range for flash timer. FLSH can be 45-768 ms.                                                                                                                        |
| SCH5779 | Both destination TNs must be unoccupied.                                                                                                                                          |
| SCH5780 | TN cannot be 0 0 0 0.                                                                                                                                                             |
| SCH5781 | Card number for this superloop is invalid.                                                                                                                                        |
| SCH5782 | Cannot change card density for superloops.                                                                                                                                        |
| SCH5783 | SL-1 set cannot be located in a superloop.                                                                                                                                        |

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| SCH5784 | Cannot move a pair when source TN is not a digital set.                                                                                                                                     |
| SCH5785 | Cannot move a pair when one of the TNs does not exist.                                                                                                                                      |
| SCH5786 | Superloop does not exist.                                                                                                                                                                   |
| SCH5787 | Invalid trunk for Universal Trunk or E & M Dictation Trunk. Conflict with one trunk type has already been defined.                                                                          |
| SCH5788 | 1200 Ohm termination impedance applies only to RAN trunks.                                                                                                                                  |
| SCH5789 | LST is not allowed for JCO in XTRK.                                                                                                                                                         |
| SCH5790 | 1200 Ohm termination impedance should be used for RAN trunks in Universal Trunk.                                                                                                            |
| SCH5791 | 10PPS2 is for Universal Trunk or E & M Dictation Trunk only.                                                                                                                                |
| SCH5792 | Code-a-Phone is not allowed on Controller RAN trunks.                                                                                                                                       |
| SCH5793 | Superloop number is not allowed for busy lamp field array.                                                                                                                                  |
| SCH5794 | Cards 10 to 14 are invalid for Network/DTR/XMFC Card array.                                                                                                                                 |
| SCH5795 | Shelf number is not defined for this superloop.                                                                                                                                             |
| SCH5796 | TN 0 0 0 0 is not allowed. Use this TN for DTR/XMFC.                                                                                                                                        |
| SCH5797 | TDET cannot be defined in a superloop.                                                                                                                                                      |
| SCH5798 | Card density (DENS) must be defined.<br><b>Action:</b> Enter SDENS for single SDI ports (on CPU cards), DDEN for two port SDI cards (QPC139), QDEN for four port SDI cards (QPC841/NT8D41). |
| SCH5799 | Superloop must be disabled before removing.                                                                                                                                                 |
| SCH5803 | CPU number out-of-range (0-1).                                                                                                                                                              |
| SCH5804 | The specified CNI port is in-service.<br><b>Action:</b> Disable the CNI port before changing it.                                                                                            |
| SCH5805 | The specified group is configured for other CNI port.                                                                                                                                       |
| SCH5806 | The specified slot is configured other than as CNI.                                                                                                                                         |
| SCH5807 | Slot already exists for other card.                                                                                                                                                         |

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| SCH5808 | Error occurred in printing CINV.                                                                                                                                                                               |
| SCH5809 | Invalid DCH Monitor Level.                                                                                                                                                                                     |
| SCH5810 | Yellow alarm pattern of FDL can only be specified for ESF framing format. The software automatically enters YALM = DG2.                                                                                        |
| SCH5812 | Cannot delete DNCO, still in use.                                                                                                                                                                              |
| SCH5813 | A USR key cannot be configured on a data set (CLS DTA).                                                                                                                                                        |
| SCH5814 | A set cannot have USR key with USRD Class of Service.                                                                                                                                                          |
| SCH5815 | Terminal's Ringing Cycle Option (RCO) was reset from {old RCO} to default value 0, because the CLS was changed to FND and MWD.                                                                                 |
| SCH5816 | Warning: PBXT test scheduled for automatic execution in the daily routines                                                                                                                                     |
| SCH5817 | CONF loops can only be defined on loops 29, 30 & 31.                                                                                                                                                           |
| SCH5818 | Cannot define CONF loop on loop 31 if only 1 cabinet defined.                                                                                                                                                  |
| SCH5819 | <p>The VAS is in use in the customer data block under the VSID prompt.</p> <p><b>Action:</b> Delete the VAS from LD 15, then remove it from LD 17. To clear the VAS, use LD 15, and go to the VSID prompt.</p> |
| SCH5820 | <p>The VAS ID is in use by a CCR, Meridian Link, or Data application.</p> <p><b>Action:</b> Remove the VAS by using LD 23, then delete the VAS from LD 17.</p>                                                 |
| SCH5821 | <p>The VAS ID is in use by the teleset-messaging.</p> <p><b>Action:</b> Remove it in LD 23, then delete it from LD 17.</p>                                                                                     |
| SCH5822 | <p>The VAS ID is in use by the teleset-status.</p> <p><b>Action:</b> Remove it in LD 23, then delete it from LD 17.</p>                                                                                        |
| SCH5823 | <p>The VAS ID is in use by the CCR, or the Meridian Link application.</p> <p><b>Action:</b> Remove it in LD 23, then delete it from LD 17.</p>                                                                 |
| SCH5824 | <p>The VAS does not exist.</p> <p><b>Action:</b> First create the VAS in the LD 17, then use it in LD 15.</p>                                                                                                  |
| SCH5825 | This loop cannot be removed until its associated DDSL has been removed first.                                                                                                                                  |

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| SCH5826 | Cannot change or print the Class of Service MREA/MRED in the TN block without the option enabled in LD 15. Enable NMDR/DMDR in LD 15 before attempting the change.                                                                                                                                                                                                          |
| SCH5827 | Cannot assign a greater value to NMDR than to CFNA. Cannot assign a greater value to DMDR than to DFNA. Need to assign a value that is less than the value of CFNA or DFNA.                                                                                                                                                                                                 |
| SCH5828 | ARP only authorized for CO Trunks.                                                                                                                                                                                                                                                                                                                                          |
| SCH5829 | Maximum Dial Pulse time has to be greater than Minimum Dial Pulse time.                                                                                                                                                                                                                                                                                                     |
| SCH5830 | You cannot delete, add, and change a loop at the same time.                                                                                                                                                                                                                                                                                                                 |
| SCH5831 | TSA not allowed while FTR = PHD. XFA prerequisite.                                                                                                                                                                                                                                                                                                                          |
| SCH5832 | BPO type not allowed for XEM.                                                                                                                                                                                                                                                                                                                                               |
| SCH5833 | ARP only authorized for COT trunk.                                                                                                                                                                                                                                                                                                                                          |
| SCH5834 | Maximum Dial Pulse Time has to be greater than the minimum Dial Pulse Time.                                                                                                                                                                                                                                                                                                 |
| SCH5835 | Minimum Hook Flash Time has to be greater than the minimum Dial Pulse Time.                                                                                                                                                                                                                                                                                                 |
| SCH5836 | Access code contains an invalid character.                                                                                                                                                                                                                                                                                                                                  |
| SCH5837 | XPE package 203, SUPP package 131 or both packages are restricted.                                                                                                                                                                                                                                                                                                          |
| SCH5838 | No predefined table or customized table has yet been built for B34 Static Loss Plan. This is a prerequisite for B34 Dynamic Loss Switching.<br><b>Action:</b> Configure a table for B34 Static Loss Plan (TTYP = STAT) before configuring a table for B#\$Dynamic Lodd Switching.                                                                                           |
| SCH5839 | <b>Action:</b> Contact system distributor to request the LAPW package; otherwise, log into the system using appropriate password which is authorized for changes to "configuration data", or contact system distributor to have this data updated.                                                                                                                          |
| SCH5840 | When entering a customized Static Loss Plan Table (Base Level Table) or a customized Dynamic Loss Plan Table (Alternative Level Table), {cr} will not be allowed if a table has not been previously installed.<br><b>Action:</b> Enter all values for Rx and Tx or begin the command over and install a standard Predefined table, then customize a few values as required. |
| SCH5841 | Wrong number of parameters have been entered.<br><b>Action:</b> Enter two values, one for Rx, and the second for Tx (or enter {cr} only)                                                                                                                                                                                                                                    |

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|         | for all port types except RANR and PAGT. Enter one value for RANR (Rx) and PAGT (Tx), or enter {cr} only.                                                                                                                                                                                                   |
| SCH5842 | <p>B34 Dynamic Loss Switching is disabled. B34 Codec Static Loss Downloading is now in effect.</p> <p><b>Action:</b> Enter two values, one for Rx, and the second for Tx (or enter {cr} only) for all port types except RANR and PAGT. Enter one value for RANR (Rx) and PAGT (Tx), or enter {cr} only.</p> |
| SCH5843 | <p>The Table Number value entered is out-of-range.</p> <p><b>Action:</b> Enter a Table Number within the range, [1-25] for STYP, and [1-2] for DTYP.</p>                                                                                                                                                    |
| SCH5844 | <p>The coded Relative Input/Output Level (Rx or Tx) value is out-of-range.</p> <p><b>Action:</b> Enter correct ranges as follows:Rx - (0 - 31)Tx - (8 - 39)</p>                                                                                                                                             |
| SCH5845 | <p>Cannot change number of AOMs because it deletes the BFS key.</p> <p><b>Action:</b> Remove BFS key first.</p>                                                                                                                                                                                             |
| SCH5846 | <p>You answered YES to the DITI prompt, but the DID to TIE package 176 is equipped. DID to TIE calls are restricted by the DID to TIE package.</p>                                                                                                                                                          |
| SCH5847 | <p>CNI slot 8, port 0 cannot be changed or deleted.</p>                                                                                                                                                                                                                                                     |
| SCH5848 | <p>The specified application is not configured on this MISP.</p>                                                                                                                                                                                                                                            |
| SCH5849 | <p>BRI trunk types can only be TIE, COT, and DID.</p>                                                                                                                                                                                                                                                       |
| SCH5850 | <p>Cannot change these parameters without disabling all associated BRI trunk members.</p>                                                                                                                                                                                                                   |
| SCH5851 | <p>Interface type not valid for Basic Rate. This message indicates that the IFC trunk entered does not support Basic Rate trunks.</p>                                                                                                                                                                       |
| SCH5852 | <p>Cannot out BRIL application without disabling the application.</p>                                                                                                                                                                                                                                       |
| SCH5853 | <p>Cannot out BRIL application without outing all the associated DSLs.</p>                                                                                                                                                                                                                                  |
| SCH5854 | <p>The specified route is not a BRI route.</p>                                                                                                                                                                                                                                                              |
| SCH5855 | <p>BRIT package is not equipped.</p>                                                                                                                                                                                                                                                                        |
| SCH5856 | <p>The new MISP for this card does not have BRIL configured, but there is a BRIL DSL on this card.</p>                                                                                                                                                                                                      |

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| SCH5857 | BRI route is not allowed if a BRI Route Packet Handler exists.                                                  |
| SCH5858 | PRI is not supported if the DTI2 package and the PRI2 package are not equipped.                                 |
| SCH5859 | A DSL trunk in NT mode must be associated with a route on NET side.                                             |
| SCH5860 | Protocol group cannot be removed. Remove the route(s) associated with this protocol and try again.              |
| SCH5861 | Cannot out BRIT application without disabling the application.                                                  |
| SCH5862 | Cannot out BRIT application without outing all the associated DSLs.                                             |
| SCH5863 | The new MISP for this card does not have BRIT configured, but there is a BRIT DSL on this card.                 |
| SCH5864 | BRIL package is not equipped.                                                                                   |
| SCH5865 | ISDN option needs to be configured in the Customer Data Block before a BRI route can be configured.             |
| SCH5866 | Either the BRIL or the BRIT package needs to be equipped.                                                       |
| SCH5867 | Line card is not a BRI SILC line card.                                                                          |
| SCH5868 | {cr} is not allowed at TNUM prompt. Enter a Table Number within the range, [1-25] for STYP, and [1-2] for DTYP. |
| SCH5869 | Line card must be SILC for Numeris DSL.                                                                         |
| SCH5870 | Warning: Another device is configured on the same card.<br><b>Action:</b> Change the group number as well.      |
| SCH5871 | Warning: There may be other devices on the QSDI card.<br><b>Action:</b> Be sure the group number corresponds.   |
| SCH5872 | NPID table does not exist.                                                                                      |
| SCH5873 | The NPID type cannot be entered because M911 package 224 is not equipped.                                       |
| SCH5874 | NPID table already exists, use CHG command.                                                                     |
| SCH5875 | NPID table does not exist, use NEW command.                                                                     |
| SCH5876 | M911_NPID_MHPTR is Nil.                                                                                         |

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| SCH5877 | NPID table out-of-range (0-7).                                                                                                                                                                                                                                                                                       |
| SCH5878 | All applications on the MSDL card are affected by the group number change.                                                                                                                                                                                                                                           |
| SCH5879 | <p>The Filter trigger entered is identical to an Exception trigger, or the Exception trigger entered is identical to a Filter trigger.</p> <p><b>Action:</b> Enter a different string or change the other Filter/Exception string.</p>                                                                               |
| SCH5880 | <p>The mnemonic entered is invalid.</p> <p><b>Action:</b> Check and reenter the desired mnemonic.</p>                                                                                                                                                                                                                |
| SCH5881 | <p>The error code entered is invalid. Valid characters are 0-9 and + (plus sign).</p> <p><b>Action:</b> Check and reenter a valid character.</p>                                                                                                                                                                     |
| SCH5882 | <p>The SUPPRESS threshold cannot be less than the ESCALATE threshold.</p> <p><b>Action:</b> Check and reenter the desired threshold.</p>                                                                                                                                                                             |
| SCH5889 | <p>Entered a number outside of the range allowed for the parameter for NEW and CPY commands in LD 18. The valid range is 1-100.</p> <p><b>Action:</b> reenter the NEW or CPY command with a new parameter between 1 and 100.</p>                                                                                     |
| SCH5890 | <p>Available memory is below the minimum allowed when trying to add multiple speed call lists at once using the NEW and CPY commands in LD 18. Minimum is 2048 words.</p> <p><b>Action:</b> Create the Speed Call lists one at a time, or free up additional memory.</p>                                             |
| SCH5891 | <p>Use one of the following formats for DN block printing:</p> <ol style="list-style-type: none"><li>1. multiple DNs may be printed by listing them at the DN prompt using commas to separate the individual DNs</li><li>2. a range of DNs may be entered using a dash between the starting and ending DNs</li></ol> |
| SCH5892 | <p>Tried to disable B34 Static Loss Plan Download (SLPD) feature while B34 Dynamic Loss Switching (DLS) is still enabled. B34 SLPD not disabled.</p> <p><b>Action:</b> Disable B34 DLS before disabling B34 SLPD.</p>                                                                                                |
| SCH5893 | BIMP value not apply to XUT.                                                                                                                                                                                                                                                                                         |
| SCH5894 | 1200 OHM Termination impedance not apply to EXUT.                                                                                                                                                                                                                                                                    |

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| SCH5895 | Cannot select PSP/PIP without MR feature ON.                                                                                                                                          |
| SCH5896 | DWC key's DN does not match the ACD DN of the queue the agent is in.                                                                                                                  |
| SCH5897 | AWC key is already defined for this agent.                                                                                                                                            |
| SCH5898 | DWC key is already defined for this agent.                                                                                                                                            |
| SCH5899 | The appropriate DSL on this card (DSL #0 for PREF or DSL #1 for SREF) must be a trunk DSL.                                                                                            |
| SCH5900 | The appropriate DSL on this card (DSL #0 for PREF or DSL #1 for SREF) is not provisioned for a clock source.                                                                          |
| SCH5901 | Either no card exists in this slot, or the slot must be a DTI2, JDMI, or PRI2 slot.                                                                                                   |
| SCH5902 | Either the card in this slot is not a BRI SILC line card, or the slot must be a DTI2, JDMI, or PRI2 slot.                                                                             |
| SCH5903 | Either DSL #1 in this slot is not a trunk DSL, or the slot must be a DTI2, JDMI, or PRI2 slot.                                                                                        |
| SCH5904 | Either DSL #1 in this slot is not provisioned for a clock source, or the slot must be a DTI2, JDMI, or PRI2 slot.                                                                     |
| SCH5905 | The appropriate DSL on this card (DSL #0 for PREF or DSL #1 for SREF) is not configured.                                                                                              |
| SCH5906 | Either DSL #1 in this slot is not configured, or the slot must be a DTI2, JDMI, or PRI2 slot.                                                                                         |
| SCH5907 | <p>The clock on this DSL is referenced in the Digital Data Block.</p> <p><b>Action:</b> This reference must be removed in LD 73 before the mode can be changed to NT.</p>             |
| SCH5908 | <p>The clock on this DSL is referenced in the Digital Data Block.</p> <p><b>Action:</b> This reference must be removed in LD 73 before the CLOK can be changed to NO on this DSL.</p> |
| SCH5909 | The asterisk (*) is not a valid entry for this prompt.                                                                                                                                |
| SCH5910 | <p>Cannot remove or change a 500 telephone if its DN is equal to ALDN of the CDB.</p> <p><b>Action:</b> You must remove or change ALDN first.</p>                                     |

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| SCH5911 | The Move function for the entered card input is temporary denied due to SET/TRK installation/relocation is in process. The Move function will be permitted as soon as the installation/relocation process is completed. |
| SCH5912 | NPD ID out-of-range (0-9).                                                                                                                                                                                              |
| SCH5913 | Invalid NPA format.                                                                                                                                                                                                     |
| SCH5914 | Invalid response to TRMT prompt. Valid responses are NONE, TEST, FAIL, NPA, or {CR}.                                                                                                                                    |
| SCH5915 | Type of NPID allowed only if M911 package 224 is equipped.                                                                                                                                                              |
| SCH5916 | {CR} not allowed as valid input for IDTB prompt for NEW command.                                                                                                                                                        |
| SCH5919 | The clock on this DSL is referenced in the Digital Data Block.<br><b>Action:</b> This reference must                                                                                                                    |
| SCH5923 | LAPW is not allowed without Multi-User Login (MULTI_USER) package 242.                                                                                                                                                  |
| SCH5924 | Duplicate login name entered.                                                                                                                                                                                           |
| SCH5925 | Login name must be defined when LNAME_OPTION is YES.                                                                                                                                                                    |
| SCH5926 | The clock on this DSL is referenced by the DTI2/PRI2 system data.<br><b>Action:</b> This reference must be removed in LD 73 before the mode can be changed to NT.                                                       |
| SCH5927 | The clock on this DSL is referenced by the DTI2/PRI2 system data.<br><b>Action:</b> This reference must be removed in LD 73 before the CLOK can be changed to NO on this DSL.                                           |
| SCH5928 | The clock on this DSL is referenced by the DTI2/PRI2 system data.<br><b>Action:</b> This reference must be removed in LD 73 before the DSL can be outed.                                                                |
| SCH5929 | DTI package is restricted.<br><b>Action:</b> If the BRIT package is equipped, enter TYPE = DTI2 or TYPE = PRI2.                                                                                                         |
| SCH5930 | The slot number is not a valid DTI/PRI/MISP slot.                                                                                                                                                                       |
| SCH5931 | The slot number is not a valid DTI2/PRI2/MISP slot.                                                                                                                                                                     |
| SCH5932 | This MISP is referenced as a clock controller in the Digital Data Block.<br><b>Action:</b> This reference must be removed in LD 73 before the MISP can be outed.                                                        |

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| SCH5933     | <p>This MISP is referenced as a clock controller in the DTI2/PRI2 system data.</p> <p><b>Action:</b> This reference must be removed in LD 73 before the MISP can be outed.</p>                                                                                             |
| SCH5934     | <p>Answer supervision is selected and you cannot configure MR feature.</p> <p><b>Action:</b> Go to LD 14 to reset answer supervision.</p>                                                                                                                                  |
| SCH5936     | <p>The CWNT package must be enabled to assign CWNA Class of Service to a telephone.</p>                                                                                                                                                                                    |
| SCH5937     | <p>The M911 Package must be enabled to assign USMA Class of Service to a telephone.</p>                                                                                                                                                                                    |
| SCH5938     | <p>The requested change cannot be processed because the route would be changed to USR side, but there are NT mode DSL members on this route. NT mode DSLs must be on NET side.</p>                                                                                         |
| SCH5939     | <p>This is not an SILC card. This slot is valid input only for SILC clock references.</p>                                                                                                                                                                                  |
| SCH5941     | <p>That feature is not included in this package.</p>                                                                                                                                                                                                                       |
| SCH5942     | <p>Autobaud overwrites configured baud rate.</p>                                                                                                                                                                                                                           |
| SCH5943 x y | <p>MSDI SDI function conflicts with user type, the PARM setting or the BITL setting. The first conflicting pair is shown. Where:</p> <p>x = user type (e.g. APL, PMSI); DCE if MOD is specified; BITL if LME is specified</p> <p>y = MSDL SDI function (e.g. LME, ABD)</p> |
| SCH5944     | <p>DTE must be specified for a PRT device.</p>                                                                                                                                                                                                                             |
| SCH5945     | <p>MSDL SDI package is not equipped.</p> <p><b>Action:</b> Redefine the TTY/PRT on a non-MSDL SDI port.</p>                                                                                                                                                                |
| SCH5952     | <p>Cannot have more than one CSL for CCR VAS ID.</p>                                                                                                                                                                                                                       |
| SCH5953     | <p>Cannot take out CSL link that has a reverted DN.</p>                                                                                                                                                                                                                    |
| SCH5956     | <p>Cannot add Vas ID that has more than one link to a cdn.</p>                                                                                                                                                                                                             |
| SCH5957     | <p>At least one TRF user must be defined for a TTY or the History File.</p>                                                                                                                                                                                                |
| SCH5958     | <p>The primary PMSI port was removed in LD 17 (ADAN OUT xx). The re-transmission, polling, and message monitoring will not be serviced.</p>                                                                                                                                |
| SCH5959     | <p>That port number is either undefined, or not a PMSI port.</p>                                                                                                                                                                                                           |

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| SCH5960 | The input is beyond the allowed range for the PMCR prompt. The allowed range is 5 to 250 or 25 percent of total system Call Registers, whichever is less.                                                      |
| SCH5961 | Either the Ack timer (XTMR), or Polling timer (PTMR) is outside the range. The allowed ranges are XTMR = 0-6 and PTMR = 0-31.                                                                                  |
| SCH5962 | The number of re-transmission (XNUM) is outside the allowed range. The accepted range is 0-4.                                                                                                                  |
| SCH5963 | The polling Call Register was not allocated during wrap-up time in LD 17.                                                                                                                                      |
| SCH5964 | The number of PMCRs will be recalculated because the number of system Call Registers was reduced.                                                                                                              |
| SCH5970 | MFX Class of Service requires a DID trunk.                                                                                                                                                                     |
| SCH5971 | MFX Class of Service requires a IAO trunk.                                                                                                                                                                     |
| SCH5973 | If a link is removed from a Vas ID that is defined for one or more CDN, you must provide a new link.                                                                                                           |
| SCH5974 | Timer T2 should be smaller than T1.                                                                                                                                                                            |
| SCH5975 | Timer T3 should be greater than T1 when T3 is not zero.                                                                                                                                                        |
| SCH5976 | Cannot remove the protocol group because at least one MPH network interface or TSP refers to it.<br><br><b>Action:</b> Remove the association of the protocol group from the MPH network interface or the TSP. |
| SCH5977 | Meridian 1 Packet Handler package not included.                                                                                                                                                                |
| SCH5978 | DNA/NTN does not exist in the table.                                                                                                                                                                           |
| SCH5979 | DNA/NTN already exists in the system.                                                                                                                                                                          |
| SCH5980 | The input TN has been used by other network interface.                                                                                                                                                         |
| SCH5981 | MPH maintenance B channel time slot request failed.                                                                                                                                                            |
| SCH5983 | DNA table does not exist.                                                                                                                                                                                      |
| SCH5984 | DNA table already exist.                                                                                                                                                                                       |
| SCH5986 | DNA/NTN has too many digits. NTN maximum size is 10 digits, or DNA maximum is 14 digits.                                                                                                                       |

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| SCH5987 | Local DNA tables overflow. NTN of TSP (USID) DSL (TN) will not be in the local tables.                                                            |
| SCH5988 | NTN does not exist in any DNA table associated with the MPH, or MPH network interface.                                                            |
| SCH5989 | DNA table overflows.                                                                                                                              |
| SCH5990 | Only MPHI and OPE can be easy changed when MPHI = Yes.                                                                                            |
| SCH5991 | The input TN is used by D-channel packet data.                                                                                                    |
| SCH5992 | The input MPH loop does not exist.                                                                                                                |
| SCH5993 | Invalid entries for the LCN range<br><b>Action:</b> Enter the lowest LCN first, then the highest.                                                 |
| SCH5994 | Invalid order of LCN range selection. The lowest LCN has to be larger than the highest LCN of any configured LCN ranges.                          |
| SCH5995 | Cannot use this NTN because it is associated with a TSP.                                                                                          |
| SCH5996 | The input DNA table is used by another MPH network interface or another MISP.                                                                     |
| SCH5997 | Exceed the maximum number if B-channel connections.<br><b>Action:</b> Enter another available MPH loop number.                                    |
| SCH5998 | DSL B channel call type is not IPD.                                                                                                               |
| SCH6000 | NTN is not associated with a TSP.                                                                                                                 |
| SCH6001 | This LCN is not within the PVC range defined for the MPH network interface.<br><b>Action:</b> Check the range again and reenter an available LCN. |
| SCH6002 | The network interface is not configured for this MPH.                                                                                             |
| SCH6003 | Not a MPH loop.                                                                                                                                   |
| SCH6004 | PVC connection does not exist.                                                                                                                    |
| SCH6005 | Cannot remove this MISP because there is a PVC associated with it.                                                                                |
| SCH6006 | The PVC connection is enabled only if the associated TSPs and network interfaces are enabled.                                                     |

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| SCH6008 | The DNIC of the table is different from the MPH DNIC.<br><b>Action:</b> Enter another DNA table number.                                                                            |
| SCH6009 | The input MCU has been used by another MISP.                                                                                                                                       |
| SCH6010 | Cannot change the DNIC of a DNA table.                                                                                                                                             |
| SCH6011 | The MPH application does not exist.                                                                                                                                                |
| SCH6012 | Send maintenance pending message to the MPH application of loop X failed.                                                                                                          |
| SCH6013 | The MPH application must be disabled.                                                                                                                                              |
| SCH6014 | Cannot add ISDN BRI to the Dedicated MPH.                                                                                                                                          |
| SCH6015 | The MCU had been referenced by another network interface.                                                                                                                          |
| SCH6016 | The input MCU has no MPHI option.                                                                                                                                                  |
| SCH6017 | Cannot change the IPD call type because a TSP is using B channel for MPH.                                                                                                          |
| SCH6018 | Superloop must be entered as a multiple of 4.                                                                                                                                      |
| SCH6020 | Exceed the maximum number of supported DNA tables for a network interface.                                                                                                         |
| SCH6024 | Invalid operation for TCON.                                                                                                                                                        |
| SCH6025 | Cannot change the TSP NTN because it is associated with a PVC connection.                                                                                                          |
| SCH6026 | The tandem connection does not exist.                                                                                                                                              |
| SCH6027 | The MPH network interface does not exist.                                                                                                                                          |
| SCH6028 | Cannot change the DNIC because the MISP is associated with a TSP.                                                                                                                  |
| SCH6029 | The input TN is not an MCU.                                                                                                                                                        |
| SCH6030 | The MPH network interface must be disabled.                                                                                                                                        |
| SCH6031 | The input TN is not an M2008 telephone.                                                                                                                                            |
| SCH6032 | A Meridian Packet Handler interface with MCU cannot be changed to a non-MPHI MCU if the connection still exists in the software.<br><b>Action:</b> Remove the connection in LD 27. |
| SCH6033 | The DSL must be disabled before changing the call type IPD or PMD.                                                                                                                 |

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| SCH6034 | The terminal must be disabled.                                                                                                                      |
| SCH6035 | Cannot remove the TSP because it is part of an existing PVC connection.<br><b>Action:</b> Remove the PVC connection and try again.                  |
| SCH6036 | TN TRANS fails on MCU.                                                                                                                              |
| SCH6037 | Cannot add or change TSP for B-channel. The call type is not IPD, or the associated DSL has TSPs configured for all B-channel packet data with MPH. |
| SCH6041 | Exceed the maximum number of nailed-up connections with BRSC and/or MPH.                                                                            |
| SCH6042 | Old NTN is not defined in local or DNA table.                                                                                                       |
| SCH6043 | The selected LAPB protocol set group does not exist.                                                                                                |
| SCH6044 | The selected X25P protocol set group does not exist.                                                                                                |
| SCH6045 | Only two input fields are allowed.                                                                                                                  |
| SCH6046 | Must enter a number to delete.                                                                                                                      |
| SCH6047 | Illegal shelf entry for the MCU.                                                                                                                    |
| SCH6048 | Input exceed the maximum limit of the D-channel TSP for the associated MPH.                                                                         |
| SCH6049 | This TEI has been used by another TSP of the DSL.                                                                                                   |
| SCH6050 | DNIC must have four digits.                                                                                                                         |
| SCH6052 | Must enter NTN number to delete.                                                                                                                    |
| SCH6053 | The DNA table is empty. It requires at least one NTN number.                                                                                        |
| SCH6054 | The application option must be BRI Line.                                                                                                            |
| SCH6055 | The DSL must be disabled in order to change the MPH loop.                                                                                           |
| SCH6056 | The NTN range is 2 to 32.                                                                                                                           |
| SCH6058 | Disconnect BCH nailed-up connection failed.                                                                                                         |
| SCH6059 | The highest NTN input has more than 10 digits.                                                                                                      |
| SCH6061 | Cannot change the state of the network interface(s).                                                                                                |
| SCH6062 | MCU cannot be a BRI card.                                                                                                                           |

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| SCH6063 | Illegal card entry for MCU.                                                                                               |
| SCH6064 | Illegal unit entry for MCU.                                                                                               |
| SCH6065 | This MISP has network interface(s) associated with it.                                                                    |
| SCH6066 | The old MPH link interface is not disabled.                                                                               |
| SCH6067 | This MISP has D-channel terminal(s) associated with it.                                                                   |
| SCH6068 | Cannot add MPH application to this MISP. There is a BRSC associated with it.                                              |
| SCH6069 | This MISP has B-channel terminal(s) associated with it.                                                                   |
| SCH6070 | This MISP has dedicated connection(s) with BRSC and/or MPH.                                                               |
| SCH6071 | The input DNA table does not exist in any network interface.                                                              |
| SCH6072 | Cannot remove this DNA table because it is referenced by a PVC.                                                           |
| SCH6073 | The reference DNA table does not exist.                                                                                   |
| SCH6074 | Cannot remove link from a Vas ID that is defined for one or more CDN at the ADAN prompt.                                  |
| SCH6075 | Cannot add a Vas ID that has no link to a Control DN.                                                                     |
| SCH6076 | You cannot use an international interface for the ISA route.                                                              |
| SCH6077 | No TTY logical # is entered for STA administration terminal.                                                              |
| SCH6078 | No TTY logical # is entered for STA administration terminal.                                                              |
| SCH6079 | That STA administration terminal is not on MSDL.                                                                          |
| SCH6080 | Disable the TTY before configuring as the STA administration terminal.                                                    |
| SCH6081 | User types PMS, ACD, APL, HSL & PRT are not allowed on the TTY as the STA administration terminal.                        |
| SCH6082 | One of the ports allocated for STA application is already used by other MSDL application.                                 |
| SCH6083 | STA administration port cannot be removed using X.                                                                        |
| SCH6084 | Unable to use changed parameters.<br><b>Action:</b> To use the changed parameters, enable the STA application modified to |

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download.

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| SCH6085 | Cannot allocate protected or unprotected memory for STA configuration.                                                                             |
| SCH6086 | That TTY has already been configured with another STA application.                                                                                 |
| SCH6087 | <b>Action:</b> Remove nonexistent port(s).                                                                                                         |
| SCH6088 | Since this TTY is configured with an STA application, it cannot be removed until the STA is removed.                                               |
| SCH6089 | The MSDL package, BRIL package or, BRIT package needs to be equipped.                                                                              |
| SCH6090 | The system has automatically reset DLTN to NO because AUTO is equal to YES (auto terminated).                                                      |
| SCH6092 | The M911 Package 224 must be equipped to accept USMA/USMD Class of Service.                                                                        |
| SCH6093 | The CWNT Package 225 must be equipped to accept CWNA/CWND Class of Service.                                                                        |
| SCH6094 | CDR NEW package is not equipped.                                                                                                                   |
| SCH6095 | The Alarm table is full. No new entries can be configured until some existing are deleted.                                                         |
| SCH6096 | The Alarm table is empty. You cannot use the delete command for an empty table.                                                                    |
| SCH6097 | A digital telephone must have CWNA Class of Service to be used as a Call Waiting Notification TN.                                                  |
| SCH6098 | The MPH application of the input MPH loop is in waiting state. Wait for the application to be uploaded or downloaded. Disable the MPH application. |
| SCH6100 | Failed TN TRANS.                                                                                                                                   |
| SCH6101 | Protected loop pointer is NIL.                                                                                                                     |
| SCH6102 | Not a valid PRI loop.                                                                                                                              |
| SCH6103 | Either that channel is already used, or it is not a Packet Data channel.                                                                           |
| SCH6104 | The route is not configured for Packet Data.                                                                                                       |
| SCH6105 | Not configured for TCON.                                                                                                                           |

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| SCH6106 | The outgoing TN is the same as the incoming TN.                                                                                         |
| SCH6107 | The system nailed-up list is full.                                                                                                      |
| SCH6108 | The BRI application running on this MISP can only support 3 line cards.                                                                 |
| SCH6109 | There is more than 1 B-channel configured in the system. Non-dedicated Meridian Packet Handlers can only support 1 B-channel interface. |
| SCH6110 | Cannot change this MISP to a dedicated MPH because there is (are) line card(s) associated with it.                                      |
| SCH6115 | The new MISP cannot accommodate all D-channel numbers from the associated line card.                                                    |
| SCH6116 | The new MISP has different characteristics than the old MISP.<br><b>Action:</b> Check DPSD and MPHC prompts.                            |
| SCH6117 | The dedicated MPH can not associated with any line card(s).                                                                             |
| SCH6118 | PVC connection exists.                                                                                                                  |
| SCH6119 | DNAT database download failed.                                                                                                          |
| SCH6120 | This LCN has been used.                                                                                                                 |
| SCH6121 | CHG request is not allowed for PVC connection.                                                                                          |
| SCH6122 | This LCN is not defined for the associated TSP.                                                                                         |
| SCH6123 | PVC download failed.                                                                                                                    |
| SCH6124 | MPH maintenance D-channel time slot request failed.                                                                                     |
| SCH6125 | B-channel TN cannot be located in MPH block.                                                                                            |
| SCH6126 | Free B-channel slot cannot be located in MPH block.                                                                                     |
| SCH6127 | Cannot change the MPH loop because TSP still associated with this MPH.                                                                  |
| SCH6128 | Cannot get NWIF state.                                                                                                                  |
| SCH6129 | MPH maintenance network interface time slot request failed.                                                                             |
| SCH6130 | <b>Action:</b> Previous B-channel must be disabled in order to change.                                                                  |
| SCH6131 | Warning: All active calls that use the changed X25P group will be dropped.                                                              |

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| SCH6132 | Failed to send Customer Data Block Call Data Recording message.                                                                                                                                                                          |
| SCH6133 | MPH interface database download failed.                                                                                                                                                                                                  |
| SCH6134 | Send MPH TSP disable message failed.                                                                                                                                                                                                     |
| SCH6135 | MPH maintenance B channel interface change state failed.                                                                                                                                                                                 |
| SCH6136 | Cannot change the TSP terminal type because the MPH DNIC are not the same.                                                                                                                                                               |
| SCH6137 | The MPH is configured with more than 3 dedicated connections with BRSC and/or MISP.                                                                                                                                                      |
| SCH6138 | The associated BRSC is not set up for D-channel packet data with MPH.                                                                                                                                                                    |
| SCH6139 | The associated MISP is not set up for D-channel packet data with MPH.                                                                                                                                                                    |
| SCH6140 | Cannot find SAPI16 TN in the MPH loop block.                                                                                                                                                                                             |
| SCH6141 | All keys on the MCU are removed when MPH1 is changed to YES.                                                                                                                                                                             |
| SCH6155 | <p>Cannot configure BRSC on this IPE shelf because the total number of DPSD TSPs on this shelf will exceed the limit that an MPH can handle.</p> <p><b>Action:</b> Delete some DPSD TSPs first.</p>                                      |
| SCH6156 | <p>Cannot associate the BRSC with this MPH because the total number of DPSD TSPs the MPH will handle will exceed the limit.</p> <p><b>Action:</b> Delete some DPSD TSPs first or use another MPH.</p>                                    |
| SCH6157 | <p>Cannot NEW/CHG DSL or TSP of this ISDN BRI line card because it has no MISP/BRSC association.</p> <p><b>Action:</b> Configure a BRSC in the IPE shelf or perform a CHG CARD command to associate the line card with a MISP first.</p> |
| SCH6158 | <p>User type FIL excludes MTC, SCH, BUG, and CSC User types.</p> <p><b>Action:</b> Remove the conflicting user types before configuring FIL.</p>                                                                                         |
| SCH6161 | Using CHG or MOV command is not permitted when the application type is DPNSS. Use LD 74 to modify any DPNSS protocol or transmission parameter                                                                                           |
| SCH6162 | This logical port number is already used by another DPNSS1, DASS2 or APNSS link defined with a non MSDL card. Find a vacant logical port number.                                                                                         |
| SCH6163 | This DPNSS logical port number does not exist.                                                                                                                                                                                           |

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| SCH6164 | DTSL data structures still exist. Remove the DTSL data structures in LD 74                                                                                                                                                                                                          |
| SCH6166 | There is no digital trunk output buffer defined. Load LD 17 and define the number of digital trunk output buffers. Then, the system must be initialized before the change takes effect.                                                                                             |
| SCH6167 | <p>The following hardware modifications cannot be done by using this command:</p> <p>DCHI to MSD</p> <p>MSDL to DCHI</p> <p>DCHX to MSDL</p> <p>MSDL to DCHX</p> <p><b>Action:</b> Remove the existing data structures and reconfigure the link with the desired hardware type.</p> |
| SCH6168 | <p>This logical port number (dpnss link number) has not been defined in LD 74.</p> <p><b>Action:</b> Define a DPNSS logical port number in LD 17</p>                                                                                                                                |
| SCH6169 | <p>The DPNSS link number entered is already used by a DPNSS link on a non-MSDL card.</p> <p><b>Action:</b> Change the link number to a vacant one.</p>                                                                                                                              |
| SCH6174 | The TN is currently being used as a Call Waiting Notification TN, and therefore CWND Class of Service is not allowed.                                                                                                                                                               |
| SCH6177 | TDN or VOD can only be selected for PRI.                                                                                                                                                                                                                                            |
| SCH6178 | Feature is not defined in TSP (FEATID) database.                                                                                                                                                                                                                                    |
| SCH6179 | Feature input is invalid or not recognized.                                                                                                                                                                                                                                         |
| SCH6180 | No FA/FI IDs input.                                                                                                                                                                                                                                                                 |
| SCH6181 | Feature ID is out-of-range.                                                                                                                                                                                                                                                         |
| SCH6182 | FI ID input conflicts with FI ID of another feature.                                                                                                                                                                                                                                |
| SCH6183 | FA ID input conflicts with FA ID of another feature.                                                                                                                                                                                                                                |
| SCH6184 | Warning: the feature input is already defined in the database. The input FA/FI IDs will overwrite the existing FA/FI IDs for the feature.                                                                                                                                           |
| SCH6185 | Wrong number of input fields. Only two or three input fields are expected.                                                                                                                                                                                                          |



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| SCH6186      | Invalid Protocol ID.                                                                                                                                                                          |
| SCH6187      | <p>There are Feature IDs defined in the TSP(s) of this DSL.</p> <p><b>Action:</b> Delete the Feature IDs before changing the Protocol ID to other protocols.</p>                              |
| SCH6191      | <p>BRSC card TN cannot be 0.</p> <p><b>Action:</b> Configure the BRSC at slot 1 to 15 of loop 0 shelf 0.</p>                                                                                  |
| SCH6193      | <p>Application(s) are not configured on the MISP. Select an MISP with the application or configure the MISP with the application.</p>                                                         |
| SCH6194      | <p>Invalid LTID: LTG and LTN cannot be both 0.</p> <p><b>Action:</b> Reenter with LTG or LTN greater than 0.</p>                                                                              |
| SCH6195      | <p>BRSC-MPH interface must be disabled first.</p> <p><b>Action:</b> Disable the SAPI16 interface between the BRSC and the MPH MISP in LD 32.</p>                                              |
| SCH6196      | <p>Cannot add or change the card type UILC because there are 8 UILCs configured on this IPE shelf already.</p> <p><b>Action:</b> Configure the card as SILC, or put it in another shelf.</p>  |
| SCH6197      | <p>Cannot add or change the card type SILC because there are 15 SILCs configured on this IPE shelf already.</p> <p><b>Action:</b> Configure the card as UILC, or put it in another shelf.</p> |
| SCH6198      | <p>Cannot Move or Swap a BRSC card.</p> <p><b>Action:</b> Enter an appropriate TN.</p>                                                                                                        |
| SCH6199      | <p>BRSC card is not EI &amp; USI allowed for this command.</p> <p><b>Action:</b> Enter an appropriate TN.</p>                                                                                 |
| SCH6200      | <p>The BRSC must be disabled first. Disable the BRSC in LD 32.</p>                                                                                                                            |
| SCH6201      | <p>Input is not a BRSC card TN.</p> <p><b>Action:</b> Enter a BRSC card TN. For PRT command, you can enter {cr}, loop, or loop shelf.</p>                                                     |
| SCH6202 slot | <p>Card slot is configured. Where: slot = all available slots in the IPE shelf.</p> <p><b>Action:</b> Configure the BRSC in one of the slots listed.</p>                                      |

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| SCH6203 tn | A BRSC (tn) is configured in the IPE shelf.<br><b>Action:</b> Configure the BRSC in another IPE shelf.                                                                                                                    |
| SCH6204 tn | Disable BRI line cards (tn) first before adding a BRSC or removing.<br><b>Action:</b> Disable all line cards listed in LD 32.                                                                                             |
| SCH6205    | Cannot use MPH for DPSD because at least one DSL on the same IPE shelf has a LTEI pair defined.<br><b>Action:</b> Remove all LTIDs or use a PRI B channel for accessing the Packet Switched Data Network(PSDN).           |
| SCH6206    | Cannot use PRI Channel for DPSD connection because at least one DSL on the same IPE shelf has a DPSD TSP defined.<br><b>Action:</b> Remove all DPSD TSPs or use MPH for accessing the Packet Switched Data Network(PSDN). |
| SCH6207    | Cannot add a BRSC to this MISP. MISP has MPH application configured.<br><b>Action:</b> Pick another MISP without MPH application or remove the application.                                                               |
| SCH6208    | Cannot add a BRSC to this MISP. MISP has maximum number of BRSCs configured.<br><b>Action:</b> Pick another MISP.                                                                                                         |
| SCH6209    | Cannot add a BRSC to this MISP. MISP has too many LC configured.<br><b>Action:</b> Pick another MISP, or remove some line cards and disable the MISP.                                                                     |
| SCH6210    | The MISP must be disabled first. It was programmed to handle 4 line cards.<br><b>Action:</b> Disable the MISP in LD 32.                                                                                                   |
| SCH6211    | The MISP must be disabled first. It was programmed to handle 3 line cards and 1 BRSC.<br><b>Action:</b> Disable the MISP in LD 32.                                                                                        |
| SCH6212    | The MISP must be disabled first. It was programmed to handle 2 line cards and 8 BRSCs.<br><b>Action:</b> Disable the MISP in LD 32.                                                                                       |
| SCH6213    | Cannot add a BRSC to this MISP because it does not have MPH application configured.<br><b>Action:</b> Pick another MISP with MPH application, or configure the MISP with                                                  |

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MPH application first.

SCH6214 Cannot add a BRSC to this MPH MISP because it has the maximum number of SAPI16 connections configured.

**Action:** Pick another MPH MISP or remove one SAPI 16 connection from this MPH MISP first.

SCH6215 There are DSLs with both LTIDs and TSPs for D-channel PSD configured.

**Action:** If D-channel PSD is going to be provided and MPH is used, remove all configured LTIDs. If D channel PSD is going to be provided and an external packet handler is used, remove all configured TSPs for D-channel PSD. Otherwise, remove all LTID pairs AND TSPs for D-channel PSD.

SCH6216 There are DSLs with TSPs for D-channel PSD configured.

**Action:** Remove the TSPs for DPSD first.

SCH6217 There are DSLs with LTIDs for D-channel PSD configured.

**Action:** Remove the LTIDs first.

SCH6218 Cannot remove the MISP because at least one BRSC is associated with it.

**Action:** Disassociate the BRSCs by deleting them or change their Layer 3 MISP.

SCH6219 Cannot add BRI line card to this MISP because it has the maximum number of line cards configured.

**Action:** Add a BRSC to the IPE shelf, delete some line cards, or use another MISP.

SCH6220 Cannot remove or modify a BRSC because background maintenance task is in progress.

**Action:** Wait until the task is done or disable the BRSC in LD 32, then repeat the command.

SCH6222 The USR key must be removed before changing the telephone's Class of Service to DTA.

SCH6223 The TRIGGER string entered is not in the filter/exception table.

**Action:** Check then enter a correct string.

SCH6224 Another user is already accessing that TN.

SCH6225 Another user is already accessing that DN.

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| SCH6226 | A telephone with an ACD key cannot be assigned CCSA Class of Service.                                                                                                                                                                                                             |
| SCH6227 | A telephone with CCSA Class of Service, or non-zero SCI cannot be assigned an ACD key.                                                                                                                                                                                            |
| SCH6228 | ITPP=YES and METR=XPXX are incompatible.                                                                                                                                                                                                                                          |
| SCH6229 | ARFW package is not equipped.                                                                                                                                                                                                                                                     |
| SCH6230 | Input is not a valid RAN route.<br><b>Action:</b> When reprompted for RANR, a valid RAN route should be entered                                                                                                                                                                   |
| SCH6231 | Too many digits entered for DGTS.<br><b>Action:</b> When reprompted for DGTS, the correct number of digits should be entered.                                                                                                                                                     |
| SCH6232 | The interface type entered is incompatible with a CTYP of DCHI or SPDC. The CTYP must be MSDL. (To replace current version)                                                                                                                                                       |
| SCH6233 | The OHAS DN index is illegal. There is no ODN defined for it in LD 15. Be sure to check and enter a legal index.                                                                                                                                                                  |
| SCH6234 | A legal OHID index must be defined to have ASCA Class of Service.                                                                                                                                                                                                                 |
| SCH6235 | A legal FSVC index must be defined to have ASCA Class of Service.                                                                                                                                                                                                                 |
| SCH6236 | No legal ODNs are defined in LD 15. You must define the ODN before assigning indices.                                                                                                                                                                                             |
| SCH6240 | A telephone cannot use an ODN that is to be deleted.<br><b>Action:</b> Be sure the deleted ODN is not used by any telephone.                                                                                                                                                      |
| SCH6242 | Signaling must be standard when Equal Access toll call restrictions have been enabled for this route. (EQAR = Yes).<br><b>Action:</b> Remove the Equal Access toll call restrictions for this route by setting EQAR to No prior to changing the signaling arrangement.            |
| SCH6243 | DTI TIE routes must be voice only when Equal Access toll call restrictions have been enabled for this route. (EQAR = Yes).<br><b>Action:</b> Remove the Equal Access toll call restrictions for this route by setting EQAR to No prior to changing the voice and data calls type. |
| SCH6245 | That TN is not available.                                                                                                                                                                                                                                                         |

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**Action:** Use another one.

SCH6246 Cannot build/tear down the tandem connection.

**Action:** Check the PRI status

SCH6247 Cannot remove this TIE trunk because there is a tandem connection associated with it.

**Action:** Remove the tandem connection, then remove the trunk.

SCH6252 The MOV DCH command is not supported.

SCH6253 ISLD/VNS/VNSA user modes are not supported by the downloadable D-channel feature. Only shared modes SHA and SHAV can be used, as well as PRA and PRI.

SCH6261 The PNI number just entered is the same PNI number as currently programmed

SCH6262 % Maximum of 100 steps are allowed only.

SCH6263 BRIL and MPH applications may not be configured on the same MISP.

SCH6264 The ISA service route cannot be removed because there are calls active on that route.

SCH6265 Digits for insertion may be an invalid DN.

SCH6266 This DN cannot be removed from the Group Hunt list as it belongs to a set being relocated; moreover, the list cannot be outed, or resized down as to exclude this DN.

SCH6267 This DN cannot be added to a Group Hunt list as it also belongs to a set being relocated.

SCH6268 The response entered is not valid for the current ISDN IFC.

SCH6269 IFC (CNTY) does not correspond to the given DGTP.

SCH6270 Incorrect PWD2 password entered. Access to Loss Planning Data is not allowed.

SCH6271 DLSA is disabled. If any B34/B39 cards in the system, SLPD installation procedures must follow.

SCH6272 Start Arrangement for L1 signaling must be SEZA or PTSD.

SCH6273 Start Arrangement for RON/TRON signaling must be RT.

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| SCH6274 | Only LDR signaling is allowed for TIE trunk on XDID.                                                                                                                                                                                        |
| SCH6275 | The number of Meridian 1 Packet Handler Digital Subscriber Loops (DSLs) in the system has reached the limit.                                                                                                                                |
| SCH6276 | Warning: External DN of IDC tree not stored in corresponding SDID tree to prevent overwriting existing value. This inconsistency occurs in the SDID tree when more than one external DN terminates on the same internal DN in the IDC tree. |
| SCH6278 | Value out-of-range for TABL prompt. Accepted values are 0-15<br><b>Action:</b> Check the customer documentation on TDS tone tables.                                                                                                         |
| SCH6279 | Overlay code is compressed, but the decoding table does not exist.                                                                                                                                                                          |
| SCH6280 | Class of Service HSPA and TSA are exclusive.                                                                                                                                                                                                |
| SCH6281 | KD3 package unequipped.                                                                                                                                                                                                                     |
| SCH6282 | CLS cannot be configured as MFK TN is DID and DTI2.                                                                                                                                                                                         |
| SCH6283 | Overlay 16 - Warning - MFK Outgoing table will be cleared. Route members should not have MFK CLS if there is no incoming MFK table.                                                                                                         |
| SCH6284 | Overlay 16 - Warning - MFK Incoming table will be cleared. Route members should not have MFK CLS if there is no outgoing MFK table.                                                                                                         |
| SCH6285 | Overlay 16 - Attempt to mark a non-digital, non-DID route as MFK5 or MFK6 type of signalling.                                                                                                                                               |
| SCH6303 | Password must be entered, cr is not a valid input.                                                                                                                                                                                          |
| SCH6304 | Password entered is too long. Maximum length is 8 digits.                                                                                                                                                                                   |
| SCH6305 | Attendant RCFW password can only consist of digits between 0 and 9.                                                                                                                                                                         |
| SCH6307 | The Voice Mailbox Administration application block does not exist.                                                                                                                                                                          |
| SCH6308 | The Voice Mailbox already exists.                                                                                                                                                                                                           |
| SCH6309 | The Voice Mailbox does not exist.                                                                                                                                                                                                           |
| SCH6310 | The Voice Mailbox Administration package is not equipped.                                                                                                                                                                                   |
| SCH6311 | The VAS block cannot be removed because the application is configured.                                                                                                                                                                      |

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| SCH6312 | Warning: Delete is full. Failed to send delete message to Meridian Mail or Voice Mailbox was not deleted on Meridian Mail.                                             |
| SCH6313 | Package is restricted.                                                                                                                                                 |
| SCH6314 | Unexpected input type. Check input type for the prompt.                                                                                                                |
| SCH6315 | Inaccessible data for CFPD user. User is allowed to enter CFN or PWD as input for thie TYPE prompt.                                                                    |
| SCH6316 | VMB is already configured on VAS VASID.                                                                                                                                |
| SCH6321 | There are still Voice Mailboxes configured.                                                                                                                            |
| SCH6322 | The Voice Mailbox Administration application is already configured.                                                                                                    |
| SCH6323 | The Voice Mailbox Administration application is not yet configured.                                                                                                    |
| SCH6324 | The Voice Mailbox Administration application must be disabled before it can be removed.                                                                                |
| SCH6325 | The Voice Mailbox Administration application has already been configured on another VAS link.                                                                          |
| SCH6336 | Out-of-Service unit only valid for NEW and OUT commands.                                                                                                               |
| SCH6337 | The specified card does not exist, so the unit cannot be marked Out-of-Service.                                                                                        |
| SCH6338 | Invalid card density on a superloop.                                                                                                                                   |
| SCH6339 | ECHG of TIMP/BIMP only supported on XOPS card. In addition, TIMP/BIMP are not supported on the XOPS card when the CHINA package is equipped.                           |
| SCH6340 | Invalid combination of TIMP/BIMP specified.<br>Supported combinations are:<br>600/600 (only when CLS = ONS)<br>900/900<br>600/3COM<br>900/3COM<br>600/3CM2<br>900/3CM2 |
| SCH6341 | You do not have access to Loss Planning data.                                                                                                                          |

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| SCH6355 | Loop cannot be added to the DCH because the maximum number of loops is already defined.                                                                                                                                                                                                                                                                                                              |
| SCH6357 | Interface change is not allowed for UIPE D-channels.                                                                                                                                                                                                                                                                                                                                                 |
| SCH6358 | Interface change is not allowed for UIPE D-channels.                                                                                                                                                                                                                                                                                                                                                 |
| SCH6359 | Backup DCH is not allowed for UIPE D-channels.                                                                                                                                                                                                                                                                                                                                                       |
| SCH6360 | DCH move is not supported for UIPE D-channels.                                                                                                                                                                                                                                                                                                                                                       |
| SCH6372 | MR value cannot be changed.<br><b>Action:</b> Disable all trunks of the route first.                                                                                                                                                                                                                                                                                                                 |
| SCH6374 | This response is only allowed when CDRX = NO in LD 16.                                                                                                                                                                                                                                                                                                                                               |
| SCH6375 | This DN is an OHOL DN. Only one 2/500 set can exist, and all other members must be M2616 sets and have CLS DELA.                                                                                                                                                                                                                                                                                     |
| SCH6376 | Set must be M2616 with CLS DELA.                                                                                                                                                                                                                                                                                                                                                                     |
| SCH6377 | CLS DELD is invalid when set has LSPK key configured or a DN or HOT KEY configured with an OHOL DN (mixed appearance with 2/500 set with CLS SPKA).                                                                                                                                                                                                                                                  |
| SCH6378 | Set with LSPK key or OHOL DN configured must have CLS DELA.                                                                                                                                                                                                                                                                                                                                          |
| SCH6379 | Attempt to configure a non conference or non XCT loop as a dealer or spare dealer loop.                                                                                                                                                                                                                                                                                                              |
| SCH6380 | Spare dealer conference loop already configured in the system. Only one spare dealer loop can exist per system.                                                                                                                                                                                                                                                                                      |
| SCH6381 | The EUROISDN (EURO) package is not equipped.                                                                                                                                                                                                                                                                                                                                                         |
| SCH6382 | SLPD or DLS tables have to removed before setting NATP prompt to YES.                                                                                                                                                                                                                                                                                                                                |
| SCH6383 | NATP is disable and another pad functionality (static pad downloading, DLS or SLPD) has to be enable for XFEM, XFCOT or XDID cards on the system.                                                                                                                                                                                                                                                    |
| SCH6386 | Input TN cannot mix route type with TCNZ interface.                                                                                                                                                                                                                                                                                                                                                  |
| SCH6387 | Cannot get enough protected memory to build Advice of Charge Start of Call (AOCS) structures. AOCS supplementary service may not work properly.<br><b>Action:</b> A possible solution is to remove some metered trunks, or to switch to AOCD or, AOCE supplementary services. If the message is output in LD 16, the member number of the first trunk for which the problem occurred is printed out. |

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| SCH6388         | <p>ALT language database could not be loaded during previous disk OS start-up. Only help messages will be displayed in the alternate language.</p> <p><b>Action:</b> Refer to messages issued during the previous restart for the reason why the alternate language database was not loaded. Correct the errors and do a warm start.</p>                                                                 |
| SCH6389         | <p>Cannot get enough protected memory to build Advice of Charge During the Call (AOCD) structures. AOCD supplementary service may not work properly.</p> <p><b>Action:</b> A possible solution is to remove some metered trunks, or to switch to AOCE supplementary services. If the message is output in LD 16, the member number of the first trunk for which the problem occurred is printed out.</p> |
| SCH6390         | <p>Cannot get enough protected memory to build Advice of Charge End of Call (AOCE) structures. AOCE supplementary service may not work properly.</p> <p><b>Action:</b> A possible solution is to remove some metered trunks. If the message is output in LD 16, the member number of the first trunk for which the problem occurred is printed out.</p>                                                  |
| SCH6391 III     | Only PBX TNs can be configured on a phantom loop using Overlay 10.                                                                                                                                                                                                                                                                                                                                       |
| SCH6392 III mmm | Do not copy, move, or swap between phantom and non-phantom loops.                                                                                                                                                                                                                                                                                                                                        |
| SCH6393         | Phantom DN's must be defined and unique.                                                                                                                                                                                                                                                                                                                                                                 |
| SCH6394         | This prompt, Class of Service, or feature cannot be configured on a phantom TN.                                                                                                                                                                                                                                                                                                                          |
| SCH6395         | This prompt, Class of Service, or feature cannot be configured on a non-phantom TN.                                                                                                                                                                                                                                                                                                                      |
| SCH6396         | Warning: A Phantom TN has been configured without a CFW or DCFW DN.                                                                                                                                                                                                                                                                                                                                      |
| SCH6397         | Invalid DCFW DN.                                                                                                                                                                                                                                                                                                                                                                                         |
| SCH6398         | There are PVCs configured associated with the BRI line cards. The PVCs have to be removed in order to change the line cards, BRSC or MPH data.                                                                                                                                                                                                                                                           |
| SCH6399         | MTRO Keyword table is corrupted.                                                                                                                                                                                                                                                                                                                                                                         |
| SCH6400         | XOPS can only be configured on XOPS card or unconfigured card. This is due to wiring differences between XOPS and other analog line cards.                                                                                                                                                                                                                                                               |
| SCH6401         | Companding law chosen in INTN prompt to download to Peripheral Equipment in LD 97 is different from the PCML setting in the configuration record in LD 17.                                                                                                                                                                                                                                               |

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| SCH6402 | This NTN does not associate to the PVC MPH.                                                                                                                                                                  |
| SCH6403 | The SCDR package is not equipped.                                                                                                                                                                            |
| SCH6404 | No other user types can be entered with MTC while XSM is yes.<br><b>Action:</b> Due to the XSM hardware requirement, remove the XSM TTY configuration before you configure new users.                        |
| SCH6409 | A protocol engine active (inactive) interface type is only allowed to be changed to another protocol engine inactive (active) interface type only if there is no DSL associated with the route (Overlay 16). |
| SCH6410 | The route entered for BRIE APPL must have the protocol engine active; the route entered for BRIT APPL shouldn't have the protocol engine active (Overlay 27).                                                |
| SCH6411 | MPH application doesn't co-exist any other applications in a MISP card (Overlay 27).                                                                                                                         |
| SCH6412 | The new MISP for this card does not have BRIE configured, but there is a BRIE DSL on this card (Overlay 27).                                                                                                 |
| SCH6413 | Cannot have IPE shelf with BRSC and trunk DSLs. When command is NEW BRSC, TN of Line Card with Trunk DSLs is printed. When command is NEW DSL, TN of BRSC is printed (Overlay 27).                           |
| SCH6414 | ITNA option cannot be disabled when DGRP is defined.                                                                                                                                                         |
| SCH6415 | DGRP is out-of-range. Valid DGRP is from 1-5.                                                                                                                                                                |
| SCH6416 | Last AST key cannot be deleted when ITNA=YES.                                                                                                                                                                |
| SCH6417 | ITNA option must be enabled and DGRP must be defined if a TN is configured on a BCS phantom loop.                                                                                                            |
| SCH6418 | ITNA option is not supported for an ACD agent or supervisor.                                                                                                                                                 |
| SCH6419 | A BCS TN with ITNA=YES is not allowed to be copied to another TN.                                                                                                                                            |
| SCH6420 | Only BCS TN can be configured on BCS Phantom Loop via Overlay 11.                                                                                                                                            |
| SCH6426 | The Call Forward external allow/deny is only allowed for ETSI and NT-1 protocol.                                                                                                                             |
| SCH6427 | Invalid supplementary feature.                                                                                                                                                                               |
| SCH6428 | Cannot delete this Call Forwarding unconditional service because it is activated now.                                                                                                                        |

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| SCH6429 | Cannot subscribe Call Forwarding unconditional for this call type because DN does not subscribe this call type.            |
| SCH6430 | ACD Agent or Supervisor cannot be configured on a BCS Phantom Loop.                                                        |
| SCH6431 | Data block cannot be moved or swapped because either source or destination loop is BCS phantom loop.                       |
| SCH6432 | CSL package is not equipped.                                                                                               |
| SCH6433 | Standalone Mail Package is not equipped.                                                                                   |
| SCH6434 | Could not add Standalone Meridian Mail server TN to server table.                                                          |
| SCH6435 | Supplementary service is not defined in the database.                                                                      |
| SCH6436 | Invalid supplementary service.                                                                                             |
| SCH6437 | There are supplementary services defined in the TSP (s) of this DSL.                                                       |
| SCH6439 | To enable force, set RTQT to 0. To enable RTQT, set force to no.                                                           |
| SCH6440 | Can only create phantom superloops on vacant superloops.                                                                   |
| SCH6441 | Cannot change an existing phantom superloop since there is no data associated to a phantom superloop to be changed.        |
| SCH6442 | SBR package 281 is required.                                                                                               |
| SCH6443 | Must have SBRA Class of Service defined.                                                                                   |
| SCH6450 | 3wt requires DID trunk type.                                                                                               |
| SCH6451 | Reminder: The lampaudit has been turned off. The message will be printed once every hour until the lampaudit is turned on. |
| SCH6453 | VNS information still used, cannot be removed.                                                                             |
| SCH6454 | PSP not allowed for an XUT or EXUT.                                                                                        |
| SCH6455 | BAT/ARF/LBS were entered at the same time.                                                                                 |
| SCH6456 | PIP/PSP/BST STYP entered for an XCOT.                                                                                      |
| SCH6457 | BBTS is not supported by this card type.                                                                                   |

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| SCH6458 | JCO was entered for a trunk that that was not configured as a loop start, an XUT/EXUT, or the Japan Central Office Trunks (JPN) package 97 was not enabled.                                                                |
| SCH6459 | No parameters entered for SYTP when SUPN was changed from NO to YES.                                                                                                                                                       |
| SCH6460 | Warning: An SCPW must be defined for this set.                                                                                                                                                                             |
| SCH6461 | The ADMINSET package must be equipped.                                                                                                                                                                                     |
| SCH6462 | Service not allowed for this set type.                                                                                                                                                                                     |
| SCH6463 | Invalid character. SBA passwords must consist of digits only.                                                                                                                                                              |
| SCH6464 | At least one option must be allowed.                                                                                                                                                                                       |
| SCH6465 | Option not allowed for this access level.                                                                                                                                                                                  |
| SCH6466 | Warning: Disallowed Installer level options have been cleared.                                                                                                                                                             |
| SCH6467 | DRA is only allowed for DTI2 routes (DGTP=DTI2 in LD 16)                                                                                                                                                                   |
| SCH6469 | Warning: Equal Access toll call restriction was specified for this route, but no Equal Access toll calls were restricted. Either set EQAR to NO, or set on of the Equal Access toll call sequences to Deny (NTOL or ITOL). |
| SCH6470 | Cannot OUT this customer because CPG Level Services is defined. Multi-Tenant Service with CPG Level Services defined must first be removed via Overlay 93. (REQ=OUT, TYPE=TENS, CUST=customer number)                      |
| SCH6471 | No trailing blanks/spaces can be entered after the DN.<br><b>Action:</b> Reenter the DN correctly followed by carriage return.                                                                                             |
| SCH6472 | Cannot OUT this customer because Multi-Tenant is defined.<br><b>Action:</b> Multi-Tenant Service must first be removed via Overlay 93. (REQ=OUT, TYPE=TENS, CUST=customer number)                                          |
| SCH6473 | Cannot access the MARP TN for the current "MARP on TN I s c u" message when adding or changing a DN.<br><b>Action:</b> Check the DN block and try the DN change again later.                                               |
| SCH6474 | This TYPE not allowed a repeat count for NEW input.                                                                                                                                                                        |

- SCH6475      WARNING: The route being removed is the recorder route for Malicious Call Trace. Removing this route will cause the recorder to not be conferenced into the call when Malicious Call Trace is activated (unless a new recorder route is defined and MCRT in Overlay 15 is changed).
- Action:** Define a new recorder route and redefine MCRT in LD 15, or set RECD to NO in LD 15.
- SCH6476      WARNING: A Carriage Return has been entered for MCRT, but the route is not a recorder route or has no trunks defined.
- Action:** Enter a valid recorder route at MCRT or set RECD to NO.
- SCH6477      Events: BRI Supplementary Service is using this CallType.
- Action:** Delete the BRI Supplementary Service that is using this CallType in this DN before CallType can be changed.
- SCH6478      AHNT DN can be defined only if CLS=RTDA.
- Action:** Define CLS RTDA before defining AHNT.
- SCH6479      AEHT DN can be defined only if CLS=CFTA and RTDA.
- Action:** Define CLS CFTA RTDA before defining AEHT.
- SCH6480      You cannot configure a CHG key without the Charge Account for CDR (CHG) package 23.
- SCH6481      The card density of the source card (TN) and the destination card (TOTN) are different. The density of the destination card is used for the unit being moved.
- SCH6482      CIST package 221 should be equipped. (Used for CLS= DNAA or DNAD, when package is not equipped).
- Action:** Equip CIST package 221 or choose another answer.
- SCH6483      The number of M1 CT2 Mobility TNs in the system exceeded the number defined in the tape directory.
- SCH6484      May not remove ACD DN when DN still exists on some supervisor's NSVC key.
- SCH6486      AFD can be defined only if CLS=RTDA.
- SCH6487      AEFD DN can be defined only if CLS=CFTA and RTDA.
- Action:** Define CLS CFTA RTDA before defining AEFD.
- SCH6488      If CLS=HTA and RTDA then AHNT must be defined.

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|              | <b>Action:</b> Define AHNT for the TN.                                                                                                                                                                                                                                                                                                                               |
| SCH6489      | If CLS=HTA and CFTA and RTDA then AEHT must be defined.<br><b>Action:</b> Define AEHT for the TN.                                                                                                                                                                                                                                                                    |
| SCH6490      | Cannot use "X" to delete AFD/AHNT/AEFD/AEHT DN.<br><b>Action:</b> Change to CLS RTDD to remove AFD/AHNT/AEFD/AEHT.                                                                                                                                                                                                                                                   |
| SCH6491      | Start minute or end/hour/minute for alternate time option not defined.<br><b>Action:</b> Define all 4 fields that include the start hour, minute, and hour and end minute for the CRT x prompt.                                                                                                                                                                      |
| SCH6494      | List number already defined as Group Hunt list.                                                                                                                                                                                                                                                                                                                      |
| SCH6495      | Warning: 0 means the Station Control Passwords will no longer be required for User Level Access to Set Based Administration                                                                                                                                                                                                                                          |
| SCH6496      | Overlay 35 is no longer supported for this machine type.<br><b>Action:</b> Replace Overlay 35 with Overlay 135.                                                                                                                                                                                                                                                      |
| SCH6497      | TYPE = PWR only allowed for REQ=NEW or OUT.                                                                                                                                                                                                                                                                                                                          |
| SCH6498      | PVR, PVN do not allow multiple appearance DN.                                                                                                                                                                                                                                                                                                                        |
| SCH6504      | Illegal billing number length change.<br><b>Action:</b> If length is changed, a new billing number is required.                                                                                                                                                                                                                                                      |
| SCH6505      | FFC and/or NFCR package/packages must be equipped.                                                                                                                                                                                                                                                                                                                   |
| SCH6507      | CDTI2 prompt was answered with YES but this causes some discrepancy - the type of adjacent loop on the same common equipment shelf's card slot is unsuitable (it may be only DTI2 or undefined). CDTI2 is reprompted.<br><b>Action:</b> DCE1 is reprompted. Check the adjacent loop type (by CFN printing in LD 22) and, perhaps, precise loop definitions in LD 17. |
| SCH6508      | An attempt to define an unsuitable loop on the common equipment shelf's card slot, on which there is already a CIS DTI or CDTI2 card defined.<br><b>Action:</b> The second loop to be defined on such a card slot must be DT12 only.                                                                                                                                 |
| SCH6509 cnty | Invalid IFC/CNTY combination. This message may indicate that a user has entered an APISDN CNTY for EURO IFC, or an EURO CNTY for the APISDN IFC.                                                                                                                                                                                                                     |

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| SCH6510 | <p>The Collect Call Blocking (CCB) package 290 is not enabled.</p> <p><b>Action:</b> Equip CCB package and reload if CCB is required.</p>                                                                                                                                                                                                                          |
| SCH6511 | <p>Route changed to OGT. CCB is set to NO.</p>                                                                                                                                                                                                                                                                                                                     |
| SCH6512 | <p>Route type changed to ICT. CCBA is set to NO.</p>                                                                                                                                                                                                                                                                                                               |
| SCH6514 | <p>NFCR must = YES in the customer data block.</p>                                                                                                                                                                                                                                                                                                                 |
| SCH6515 | <p>At attempt to define a digital trunk on CDTI2 with CISFW = YES in a route which is neither ICOG = OGT (and TYPE = COT) nor ICOG = ICT (and TKTP=DID).</p> <p><b>Action:</b> Check the route data block definition and change it if necessary in LDs 21 and 16.</p>                                                                                              |
| SCH6516 | <p>An attempt to define SIGL = CIS in LD 14 for analog trunk on IPE CIS three wire trunks card in the route which is neither ICOG = OGT nor ICOG = ICT (and TYPE = DID).</p> <p><b>Action:</b> Check the route data block definition and change it if necessary by LDs 21 and 16.</p>                                                                              |
| SCH6517 | <p>An attempt to define a signaling related CLS's other than DIP/DIPF in LD 14 for a digital trunk on CDTI2/CSDTI2 with CISFW= YES.</p> <p><b>Action:</b> Enter CLS = DIP / DIPF or check CDTI2 prompt in LD 73 for given loop.</p>                                                                                                                                |
| SCH6518 | <p>P METR (R) prompt in LD 73 was not answered with "N" for loop on CDTI2/CSDTI2 card (CDTI2 = YES). P METR (R) is reprompted until the "N" answer will be entered. Note that "carriage return" entering in this case is allowed only if P METR (R) = N was already defined earlier.</p> <p><b>Action:</b> Enter the "N" or check definition for prompt CDTI2.</p> |
| SCH6520 | <p>Valid BTd Table is in the range from 0 to 7.</p> <p><b>Action:</b> Enter a number from 0 to 7.</p>                                                                                                                                                                                                                                                              |
| SCH6521 | <p>Valid Cadence Phase length is in the range from 0 to 1500 milliseconds.</p> <p><b>Action:</b> Enter a number from 0 to 1500</p>                                                                                                                                                                                                                                 |
| SCH6522 | <p>Two BTd Phases must be entered to describe the cadence.</p> <p><b>Action:</b> Enter values for two phases.</p>                                                                                                                                                                                                                                                  |
| SCH6523 | <p>If the first BCAD phase is 0, both phases must be 0.</p> <p><b>Action:</b> Enter 0 for both phases.</p>                                                                                                                                                                                                                                                         |

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| SCH6524 | <p>BTD package must be equipped.</p> <p><b>Action:</b> Add Busy Tone Detection Tone (BTD) package 294.</p>                                                                                                                                          |
| SCH6525 | <p>BTD table 0 cannot be removed</p>                                                                                                                                                                                                                |
| SCH6526 | <p>BTD table must be defined in Overlay 97</p>                                                                                                                                                                                                      |
| SCH6527 | <p>Required BTD table does not exist.</p>                                                                                                                                                                                                           |
| SCH6528 | <p>NI2 is entered at the IFC prompt in LD 16 or LD 17. However, North America National ISDN Class II Equipment (N12) package 291 is not equipped.</p> <p><b>Action:</b> Equip package 291 and reload if NI2 Primary Rate Interface is required.</p> |
| SCH6529 | <p>Digital Trunk Type (DGTP) must be PRI for NI2 interface.</p>                                                                                                                                                                                     |
| SCH6533 | <p>DN is already defined.</p> <p><b>Action:</b> The PINX DN should be a nonexistent DN selected in the customer's numbering plan.</p>                                                                                                               |
| SCH6534 | <p>The Speed Call list specified is not defined.</p> <p><b>Action:</b> Define the Speed Call list in LD 18 or input an existing Speed Call list number.</p>                                                                                         |
| SCH6535 | <p>BAT/ARF/LBS STYP requires an XCOT.</p>                                                                                                                                                                                                           |
| SCH6536 | <p>The response TAT is not allowed if Trunk Antitromboning (TAT) package 293 is not equipped. RCAP is reprompted.</p> <p><b>Action:</b> Equip Package 293 and reload to enter TAT feature</p>                                                       |
| SCH6537 | <p>The response TAT is allowed for only D100 / SL-1 / S100 / D250 and Release 21 or higher for SL-1.</p> <p><b>Action:</b> Check the IFC and RLS prompts.</p>                                                                                       |
| SCH6538 | <p>The response TAT is not allowed when VTRO =YES.</p> <p><b>Action:</b> In LD 17, set VTRO = NO</p>                                                                                                                                                |
| SCH6539 | <p>The response TAT is not allowed if at least one route associated with this D-channel has TRO option on.</p> <p><b>Action:</b> In LD 16, turn off TRO options in all routes associated with this D-channel.</p>                                   |



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| SCH6540 | <p>The response TRO is not allowed if the D-channel associated with this route has TAT set in RCAP</p> <p><b>Action:</b> In LD 17, set XTAT in RCAP of the associated D-channel configuration.</p>                                                                                                                 |
| SCH6541 | MFC on 1.5 Mb/s DTI is not supported.                                                                                                                                                                                                                                                                              |
| SCH6542 | ADL feature must be equipped for BNRA Class of Service. Class of Service is changed to BNRD.                                                                                                                                                                                                                       |
| SCH6543 | FFC or ADL package(s) must be equipped.                                                                                                                                                                                                                                                                            |
| SCH6544 | Two-star (**) and/or four-star (****) abort is not allowed during the critical sessions of adding (NEW), changing (CHG) or deleting (OUT) the data. To abort the session, enter carriage return for each prompt except SLV3 and SLV6 prompts. For SLV3 and SLV6 prompts, enter NXX and SUB responses respectively. |
| SCH6545 | <p>VTRO is not allowed if TAT is set in the RCAP</p> <p><b>Action:</b> In LD 17, set XTAT in RCAP of the associated D-channel configuration.</p>                                                                                                                                                                   |
| SCH6546 | <p>Route and member are not allowed if this route has TRO and the associated D-channel has TAT set in the RCAP</p> <p><b>Action:</b> In LD 16 turn off TRO or in LD 17, set XTAT in RCAP</p>                                                                                                                       |
| SCH6547 | TRO or TAT ios not allowed if TAT package 293 is not equipped.                                                                                                                                                                                                                                                     |
| SCH6548 | Invalid Privacy Indicator entered for DTPI or DPPI prompt.                                                                                                                                                                                                                                                         |
| SCH6549 | CLBA/CLBD is not allowed if Calling Party Privacy (CCP) package 301 is not equipped.                                                                                                                                                                                                                               |
| SCH6550 | CPNW list already exists for this customer                                                                                                                                                                                                                                                                         |
| SCH6551 | CPNW list does not exist for this customer                                                                                                                                                                                                                                                                         |
| SCH6552 | ISDN package 145 is needed for CPNW feature                                                                                                                                                                                                                                                                        |
| SCH6553 | Warning: Adjacent loop is a DTI2 loop defined as being on a CDTI2 card. This loop must be defined in LD 73 as CDTI2=YES or the adjacent loop must be changed to CDTI2=NO.                                                                                                                                          |
| SCH6554 | Warning: Adjacent loop is DTI2 loop with CDTI2 prompt defined differently from this loop. Such a discrepancy must be removed by defining the same CDTI2 value for the adjacent loop.                                                                                                                               |
| SCH6575 | .REMOTE_IPE_I is not equipped.                                                                                                                                                                                                                                                                                     |

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| SCH6576 | Missing LCRI S/W from disk.                                                                                                                                                                                                                 |
| SCH6577 | Cannot change SUPT in the defined superloop.                                                                                                                                                                                                |
| SCH6578 | File I/O: error string - database access error.                                                                                                                                                                                             |
| SCH6579 | Conf: error string - configuration error.                                                                                                                                                                                                   |
| SCH6583 | <p>China Attendant Monitor Package (CHINA) package 285 is not equipped. Options AMA/AMD/TOA/TOD cannot be entered in LD 15.</p> <p><b>Action:</b> Equip package 285 and re-load if Attendant Monitor is required.</p>                       |
| SCH6592 | <p>Warning: Table has been removed. Using Overlay 20, ensure that this BTD table is not assigned to any trunk card.</p> <p><b>Action:</b> Print out blocks using Overlay 20 and check BTDT.</p>                                             |
| SCH6593 | BTS is not supported on Japan trunks and is no longer required.                                                                                                                                                                             |
| SCH6594 | BTS is only supported on CO trunks with loopstart signalling.                                                                                                                                                                               |
| SCH6595 | IFC type and Loop type mismatch. This message may indicate that a user has entered a PRI loop as DCHL for a PRI2 IFC, or visa-versa.                                                                                                        |
| SCH6596 | When updating SDID tree after the change in the IDC tree, a SDID tree branch is found missing, which indicates there was an inconsistency between the SDID and the IDC tree. Process as normal. The inconsistency is removed automatically. |
| SCH6597 | <p>Invalid input for NATP.</p> <p>Enter YES for North American Transmission Plan.</p> <p>Enter NO for other transmission plans.</p>                                                                                                         |
| SCH6598 | FLEN must not be less than the length of the longest SDRR plus the length of the SPN.                                                                                                                                                       |
| SCH6599 | Suppress has to be greater than ESCALATE.                                                                                                                                                                                                   |
| SCH6600 | Default ESCALATE has to be smaller than current SUPPRESSION.                                                                                                                                                                                |
| SCH6601 | <p>The ALRM_FILTER package is restricted.</p> <p><b>Action:</b> None. The requested action is denied.</p>                                                                                                                                   |
| SCH6602 | System Event List is empty.                                                                                                                                                                                                                 |

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**Action:** None. Events cannot be printed.

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| SCH6605 | Duplicate event.                                                                                               |
| SCH6606 | Escalate must be less than suppress.                                                                           |
| SCH6607 | Event not in Event Preference Table.                                                                           |
| SCH6608 | Invalid escalate                                                                                               |
| SCH6609 | Invalid event id.                                                                                              |
| SCH6610 | Invalid new size; out of valid range.                                                                          |
| SCH6611 | Invalid severity.                                                                                              |
| SCH6612 | Log resize aborted.                                                                                            |
| SCH6613 | Log resize failed.                                                                                             |
| SCH6614 | Missing event id                                                                                               |
| SCH6615 | New suppress threshold is out of valid range.                                                                  |
| SCH6616 | Suppress must be greater than the maximum escalate value in the event preference table (EPT).                  |
| SCH6617 | Timer value is out of valid range.                                                                             |
| SCH6618 | Event Preference Table (EPT) is full.                                                                          |
| SCH6619 | Call Park data block number out of range. The valid range is 1-5.<br><b>Action:</b> Enter valid input.         |
| SCH6622 | Mutually exclusive supervision types entered.                                                                  |
| SCH6623 | Must create data block 0 before creating other data blocks.                                                    |
| SCH6624 | Must delete/out other data blocks before deleting/out data block 0.                                            |
| SCH6625 | Invalid input. For card 0, units 0-7 must all be of the same type and units 8-15 must all be of the same type. |
| SCH6626 | Invalid input. For card 0, the valid unit range for MFC/MFE/MFK5/MFK6/MFR units is 8-11.                       |
| SCH6627 | ARDL package is not equipped (Overlay 11, 16, 81).                                                             |

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|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SCH6628 | ARDL feature is not allowed for SL-1 and ARIES sets only (Overlay 11).                                                                                                                                                                                                                                                 |
| SCH6634 | This DN cannot be used as it would create an illegal multiple appearance of the data DN of a dynamic voice/data TN.                                                                                                                                                                                                    |
| SCH6635 | DTM key could not assigned with current set configuration. The DTM key has been removed.                                                                                                                                                                                                                               |
| SCH6636 | Only one DTM key is allowed per TN.                                                                                                                                                                                                                                                                                    |
| SCH6638 | PGND/PGNA is not a valid input. The PAGENET package is not equipped.<br><b>Action:</b> Contact NT representative for correct package configuration.                                                                                                                                                                    |
| SCH6639 | PTU Package not equipped.<br><b>Action:</b> Equip PTU package and reload if PTU package is required.                                                                                                                                                                                                                   |
| SCH6640 | Cannot change agent ID mode (AID) to “no” if MQA option is enabled. MQA option must be disabled first.                                                                                                                                                                                                                 |
| SCH6641 | Cannot remove an ADS block if the MQA option is enabled first, which requires the MAX HSL to be disabled.                                                                                                                                                                                                              |
| SCH6642 | The MQA option cannot be changed (“yes” to “no” or “no” to “yes”) if the High Speed is up.                                                                                                                                                                                                                             |
| SCH6643 | The Report Control Option cannot be disabled if MQA agents belong to the queue.                                                                                                                                                                                                                                        |
| SCH6644 | An MQA agent has logged into this queue since the Report Control option (RPRT) was changed. Since this option cannot be disabled when MQA agents are serving the queue, the option is rset to its original value (“yes”).                                                                                              |
| SCH6645 | Only one ADS block per system can have MQA enabled.                                                                                                                                                                                                                                                                    |
| SCH6646 | A piolt DN of USE=SLCU (Speed Call List User) cannot be a member of the Speed Call list it accesses.                                                                                                                                                                                                                   |
| SCH6647 | The ACD DN specified is not compatible with MQA. Specifically, one of the following is true for the ACD DN specified: IVMS, IMS, IVR, or DAL is enabled, or RPRT is disabled. This message is just a warning. The ACD DN specified will be assigned to the agent, but the agent set can no longer be an MQA ACD agent. |
| SCH6649 | Cause: VNS DN ALREADY DEFINED the response cannot be accepted because at least one VDN is already defined in another VDN block, Impact: the response is not accepted and VNDN is prompted again.                                                                                                                       |

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**Action:** Check which are the VDNs already defined and configure blocks of DN's without them. Output data: no output data.

SCH6650 Missing FNET L/W/ from disk.

SCH6651 Missing FPEC L/W from disk.

SCH6652 The superloop specified is not configured as a Fiber Remote superloop.

SCH6653 TN on Phantom DTI2 loop must be TIE or DID.

**Action:** Restart LD 14 and answer TIE to the prompt TYPE, or answer the prompt TN by choosing a loop which is not defined as a Phantom DTI2 loop.

SCH6654 Cannot move a TN located on a Phantom DTI2 loop.

**Action:** Restart the LD14 and answer NEW to the prompt REQ, or answer the prompt TN by choosing a loop which is not defined as a Phantom DTI2 loop.

SCH6655 n Error during the ISPC trunk configuration. The format is SCH6655 n, where n represents the error cause:

1. ISPC Reference number already exists. In Overlay 14, in answer to the prompt SREF, an ISPC reference number which is already configured for the system, is not allowed.
2. The trunk must be a TIE trunk.
3. The trunk must be configured with the DTN class of service.
4. Data corruption with the route pointer.
5. The route is not an ISL route.
6. The trunk is not a DID trunk.
7. The route is not configured with DSEL=DTA.
8. The route must not be an ISL route.
9. The route is not configured with DLTN=YES
10. The route is not configured as incoming.
11. The route is not configured with PRDL=BSY
12. The route is not configured with DTD=YES
13. The route is not configured as outgoing.
14. The route is not configured with NEDC+ETH
15. The route is not configured with FEDC=ETH

16. The route is not configured with CPDC=NO

17. DDD\_PACKAGE is restricted.

**Action:** Check the validity of the SPC reference number provided by the telecommunication administration.

SCH6656 The ISPC package 313 is mandatory to configure a Phantom DTI2 loop.

**Action:** Enable the ISPC Package 313 and reload the PBX if Phantom DTI2 loop is required.

SCH6657 You are not allowed to create more than one TN at the time on a Phantom DTI2 loop.

When required to configure more than one TN on a Phantom DTI2 loop, it is mandatory to complete the command sequence in LD14 for each additional TN.

SCH6658 Service change is not allowed on unit currently involved in a Broadcast call.

SCH6659 CLID entry no defined for the customer.

SCH6660 Service change is not allowed on this TN since it is currently pending for this application Login or logout event.

SCH6661 Request to create a DISA block for the customer is not allowed because the customer already has 240 DISA Blocks defined.

SCH6662 This set type cannot have the FLXA class of service.

SCH6663 A DTM key cannot be on key 00.

SCH6664 The FLXA class of service is required for a voice TN on a high unit or a data TN on a low unit.

SCH6665 The VDN block does not exist. In overlay 79, the VDN entered at the prompt VNDN is not accepted when the request is OUT, DIS, or ENL.

**Action:** Enter a correct value, which must be the first VDN of an existing VDN block.

SCH6666 The maximum number of VDN's for a customer has been exceeded. The FLXA class of service is required for a voice TN on a high unit or a data TN on a low unit.

**Action:** Re-enter a number for your VDN block which does not exceed your customer limit.

SCH6667 The change is not accepted because VNS calls are still using this D-channel.

**Action:** All calls using this D-channel must be cleared before VNS parameters of the D-channel can be modified.

SCH6668 Card O not supported in this overlay.

SCH6669 WARNING: New MFC/MFE/MFK5/MFK6 units on Card 0 can only be enabled by ENLX in LD 34.

**Action:** After configuration of these units, go into LD 34 and perform ENLX 0.

SCH6670 QSIGGF package is restricted.

SCH6672 Master Mode package is restricted.

SCH6678 Supervised DID: JDID requires Japan Trunk Package (97), loop start signalling and XUTJ pack.

SCH6679 Warning: The prime key does not have any of the following functions: SCR, MCR, SCN, MCN, ACD. The model is invalid for Automatic Set installation.

SCH6680 Only JDID and BTS CLS are allowed for Loopstart DID trunks.

SCH6681 CPK is not a legal response because the release ID at the far end is below rls22 or the interface type of the D-channel is not SL1.

**Action:** Change the release ID or change the interface type.

SCH6682 CPK is not a legal response because the package, CPRKNET, is not equipped.

**Action:** CHNge the package restriction.

SCH6683 The position ID cannot be changed while this agent is acquired.

SCH6684 This DN cannot be used with a DTM key as it is already in use.

SCH6685 NAC is not a valid RCAP; BRI route IFC configuration is not SL1.

SCH6686 RCAP is changed to XNAC due to incompatible IFC configuration.

SCH6687 NAC is not a valid RCAP. The D-channel IFC configuration is not SL1; or RLS configuration is less than 22.

SCH6688 RCAP is changed to XNAC due to incompatible RLS configuration.

SCH6689 Customer option is changed to CPD due to Call Park database memory allocation problem.

SCH6690 FLXA class of service is allowed only on Aries sets connected to XDLC cards.

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|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SCH6691    | The associated DSLs must be removed before changing the BRIT route interface type to ISGF or ESGF.                                                                                                       |
| SCH6692 x1 | x1 = %Invalid input when the MMCS package is not equipped.                                                                                                                                               |
| SCH6693 x2 | x2 = %DTIM should be defined to have PRDL=DNIS                                                                                                                                                           |
| SCH6694 x3 | x3 = % The route is not DNIS.                                                                                                                                                                            |
| SCH6695 x4 | x4 = %Invalid entry for FDG, FEX and WATS routes.                                                                                                                                                        |
| SCH6696 x5 | (x5 = %INDI + NDGT) greater than or equal to 31 is not acceptable for autoterminate routes.                                                                                                              |
| SCH6697 x6 | x6 = %DTIM only supported for DID, TIE or IDA trunks.                                                                                                                                                    |
| SCH6698    | <p>There is a conflict in the configuration of RCAP and NASA, ie. if RCAP's CPK is set, then NASA is not allowed to be defined as "NO".</p> <p><b>Action:</b> Change either configuration as needed.</p> |
| SCH6699    | CAB number out of range.                                                                                                                                                                                 |
| SCH6700    | Invalid TTY_TYPE.                                                                                                                                                                                        |
| SCH6701    | Only 1 TTY allowed per expansion cabinet.                                                                                                                                                                |
| SCH6702    | There is no TTY configured on this expansion cabinet.                                                                                                                                                    |
| SCH6703    | Only 4 TTYs with TTY_TYPE PTY may be configured.                                                                                                                                                         |
| SCH6704    | Only 3 TTYs with TTY_TYPE LSL may be configured.                                                                                                                                                         |
| SCH6705    | Invalid FLOWTYPE.                                                                                                                                                                                        |
| SCH6706    | Invalid FLOWTYPE for Low Speed Link on Card 0.                                                                                                                                                           |
| SCH6707    | LSL and XLSL not valid.                                                                                                                                                                                  |
| SCH6708    | Low speed link not allowed on Card 0 Port 0.                                                                                                                                                             |
| SCH6709    | CLID block is not defined in the Customer Data Block.                                                                                                                                                    |
| SCH6710    | A warning message. CLID Entry is not defined in the CLID block of the Customer Data Block. The CLID Entry is stored in the database.                                                                     |
| SCH6711    | No trailing blanks/spaces can be entered after the CLID entry.                                                                                                                                           |

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**Action:** Enter {CR} after the CLID entry.

SCH6712 The input for the CLID entry should be an integer or a “D” .

SCH6713 Cannot decrease CLID table size. Entries to be removed are not empty.

**Action:** Remove the unnecessary CLID entries first. Then decrease the CLID table entry size.

SCH6714 CLID Entry or Entries are not defined since the entry or entries are not configured.

SCH6715 x7 x7 = x7 %DTIM not supported for routes with ISL mode.

SCH6720 One or more of the packages to operate the OPEN\_ALARM feature is missing. This feature requires the following packages: MAT, ALARM\_FILTER and OPEN\_ALARM.

SCH6722 Digit Insertion function does not support SPRE/FFC digits.

**Action:** Users may dial manually.

SCH6723 Cannot “out” a dch/dsl while there are call-independent connections on the dch/dsl interface.

SCH6755 CLID entry D is not allowed to be assigned to all the DN keys on the set.

**Action:** Assign a non-D CLID entry to the DN key of the BCS set.

SCH8781 DCHI or BCHI cannot be 0. Enter new value 1 - 15.

SCH8783 The monitored or monitoring set cannot be moved or copied.

SCH8784 The Busy/Forward Status package is restricted. BFS key is not allowed.

SCH8785 An invalid TN has been entered for the Busy/Forward Status (BSF) key.

SCH8786 That monitored set is on a different customer.

SCH8788 The monitored set may not have an ACD-DN.

SCH8789 That set is already monitored by 16 other sets.

SCH8790 That telephone is already monitored by 16 other telephones.

SCH8791 Monitored telephone cannot be BRI.

SCH8798 RPE2 data block has not been created by LD 52.

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|         |                                                                                                                                                                    |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SCH8799 | Operation not allowed. Remove loop from RPE2 group. Use LD 52.                                                                                                     |
| SCH8802 | Illegal answer to prompt TASK.                                                                                                                                     |
| SCH8803 | Group is spared.                                                                                                                                                   |
| SCH8804 | Command is NEW and group exists.                                                                                                                                   |
| SCH8805 | Command is CHG or OUT and group does not exist.                                                                                                                    |
| SCH8806 | {CR} only allowed for PRT on GRP prompt.                                                                                                                           |
| SCH8807 | Command is not NEW and RPE2 data does not exist.                                                                                                                   |
| SCH8811 | CORP/CORX can only be configured on 2.0 Mb digital CO trunks if the International Supplementary Features (SUPP) package 131 and the DTI2 package 129 are equipped. |
| SCH8813 | Group Hunt pilot DN function is not supported.                                                                                                                     |
| SCH8814 | PLDN entered is invalid.                                                                                                                                           |
| SCH8815 | PLDN size is out-of-range.                                                                                                                                         |
| SCH8816 | Customer is undefined.                                                                                                                                             |
| SCH8817 | PLDN package is unequipped.                                                                                                                                        |
| SCH8818 | TN translation has failed.                                                                                                                                         |
| SCH8819 | Unable to obtain a PDS/UDS.                                                                                                                                        |
| SCH8820 | The DN entered is not valid for the GHT list.                                                                                                                      |
| SCH8821 | The LIST TYPE does not match REQ TYPE.                                                                                                                             |
| SCH8822 | The associated PLDN must be removed first.                                                                                                                         |
| SCH8823 | The GHT list number is out-of-range.                                                                                                                               |
| SCH8824 | The PLDN and GHT customer numbers do not match.                                                                                                                    |
| SCH8825 | The DN must first be removed from the GHT list.                                                                                                                    |
| SCH8826 | The GHT list is already associated with another PLDN.                                                                                                              |
| SCH8827 | PLDN USE and LIST TYPE do not match.                                                                                                                               |

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# SCH

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|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SCH8831      | Password does not exist.                                                                                                                                                                                                                                                                 |
| SCH8832      | Cannot remove logged on password.                                                                                                                                                                                                                                                        |
| SCH8833      | Only administrator is allowed to print audit trail.                                                                                                                                                                                                                                      |
| SCH8834      | The occupied buffer area larger than the requested size and therefore cannot be reduced.<br><b>Action:</b> Print buffer first.                                                                                                                                                           |
| SCH8835      | Invalid LAPW password option selected.                                                                                                                                                                                                                                                   |
| SCH8836      | Password has print-only Class of Service.                                                                                                                                                                                                                                                |
| SCH8837      | Audit Trail buffer size must be 50-1000 and divisible by 50.                                                                                                                                                                                                                             |
| SCH8838      | LAPW users are not allowed to print SPWD passwords.                                                                                                                                                                                                                                      |
| SCH8839      | User is restricted from printing Speed Call List.                                                                                                                                                                                                                                        |
| SCH8840      | Feature is not available without LAPW package.                                                                                                                                                                                                                                           |
| SCH8841      | User does not have access to this data.                                                                                                                                                                                                                                                  |
| SCH8842      | Valid password must be entered.                                                                                                                                                                                                                                                          |
| SCH8843      | Only 32 CUSTOMER TENANT combinations are allowed.                                                                                                                                                                                                                                        |
| SCH8844      | This tenant is already allowed/denied for this customer.                                                                                                                                                                                                                                 |
| SCH8845      | Password conflicts with existing passwords.                                                                                                                                                                                                                                              |
| SCH8846      | Illegal character entered for password. Must be 0-9, A-Z, or a-z.                                                                                                                                                                                                                        |
| SCH8847      | Warning: Display DN does not start with an ENP pilot DN.                                                                                                                                                                                                                                 |
| SCH8848      | ICP cannot co-exist with anything else.                                                                                                                                                                                                                                                  |
| SCH8849 xxxx | This is an X20 error message. Read the 3 or 4 digit number following the SCH message and look up the error message meaning here:<br>139 : Channel number out-of-range<br>219 : Cannot configure analog trunk in digital route<br>279 : Unable to match input field with stored mnemonics |

597 : Required number of TN blocks not configured or removed because maximum channel number was reached

969 : Burst parameter cannot have a value less than that of the replenishment parameter

970 : Unable to match input field with stored mnemonics

971 : Invalid response

972 : Input out-of-range

974 : DTSL/DDSL specified is not configured as a public network link

1300 : Wrong number of input fields for prompt DTSL/DDSL (DPNSS)

1301 : DTSL/DDSL number out-of-range (0-159) (DPNSS)

1302 : DTSL/DDSL block already exists (DPNSS)

1303 : DTSL/DDSL block does not exist (DPNSS)

1304 : No DTSL/DDSL blocks exist (DPNSS)

1305 : Signaling link still in service (DPNSS)

1306 : DTSL/DDSL still enabled (DPNSS)

1307 : DTSL number does not belong to a DASS signaling card (DPNSS)

1308 : DTIB/DTOB must be set up in LD 17. Digital trunk input/output buffers are zero. (DPNSS)

1310 : Wrong number of input fields in response to LTYP prompt (DPNSS)

1311 : Unable to match input with stored mnemonics (DPNSS)

1315 : Unable to match input with stored mnemonics (DPNSS)

1316 : Wrong number of input fields (DPNSS)

1317 : Number out-of-range (DPNSS)

1320 : Wrong number of input fields in response to DDCS prompt (DPNSS)

1321 : DDCS number out-of-range (DPNSS)

1322 : DDCS not configured (DPNSS)

1329 : Cannot out a DTSL/DDSL if a channel is configured«

1330 : Wrong number of input fields for prompt DTSL/DDSL (APNSS)

1331 : DTSL/DDSL number out-of-range (0-159) (APNSS)

1332 : DTSL/DDSL block already exists (APNSS)

1333 : DTSL/DDSL block does not exist (APNSS)

1334 : No DTSL/DDSL blocks exist (APNSS)  
1335 : Signaling link still in service (APNSS)  
1336 : DTSL/DDSL still enabled (APNSS)  
1338 : DTIB/DTOB must be set up in LD 17. Digital trunk input/output buffers are zero. (APNSS)  
1340 : Wrong number of input fields in response to LTYP prompt (APNSS)  
1341 : Unable to match input with stored mnemonics (APNSS)  
1345 : Unable to match input with stored mnemonics (APNSS)  
1346 : Wrong number of input fields (APNSS)  
1347 : Number out-of-range (APNSS)  
1350 : Wrong number of input fields in response to DDCS prompt (APNSS)  
1351 : DDCS number out-of-range (APNSS)  
1352 : DDCS not configured (APNSS)  
1355 : DDSL mismatch  
2071 : Package not configured  
2073 : IDA route cannot be changed to non-IDA and vice versa  
8000 : PBX Reference Number does not begin with Location Reference Number (Warning only—entry as accepted)  
8001 : NCOP transmission must be used

|         |                                                                        |
|---------|------------------------------------------------------------------------|
| SCH8850 | Route List Block (RLB) dose not exist.                                 |
| SCH8851 | Input out-of-range (0-999).                                            |
| SCH8852 | ESN data block does not exist.                                         |
| SCH8853 | Input out-of-range (1-10).                                             |
| SCH8854 | Input out-of-range (2-8).                                              |
| SCH8855 | Route List Block (RLB) with Digit Manipulation Index (DMI) is invalid. |
| SCH8860 | Tenant number out-of-range (0-511).                                    |
| SCH8861 | Link used by other customer.                                           |
| SCH8862 | Cannot change set with IRGA CLS from AAPBX.                            |

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|         |                                                                                                                                                 |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| SCH8863 | Cannot change set with IPNA CLS from AABCS.                                                                                                     |
| SCH8864 | Cannot use IRGA/IRGD together with NEW X command.                                                                                               |
| SCH8865 | Cannot use the OUT command on a set with IRGA CLS.                                                                                              |
| SCH8866 | ICP cannot be removed with agents still defined.                                                                                                |
| SCH8867 | ICP cannot be set up for an ACD DN with agents.                                                                                                 |
| SCH8868 | Response NO not allowed when ICP is defined.                                                                                                    |
| SCH8869 | Cannot remove a tenant which is owner of ICP.                                                                                                   |
| SCH8870 | Cannot remove MC when ICP is allowed.                                                                                                           |
| SCH8871 | ICDN must be entered.                                                                                                                           |
| SCH8872 | Maintenance message out-of-range (0-9).                                                                                                         |
| SCH8873 | Maintenance message must be entered (0-9).                                                                                                      |
| SCH8874 | APL not defined for ICP in LD 17.                                                                                                               |
| SCH8875 | APL number must be entered (0-15).                                                                                                              |
| SCH8876 | Cannot decrease NIPN when higher IPN/IRG defined.                                                                                               |
| SCH8877 | Cannot remove ICP when ACD group defined for APL.                                                                                               |
| SCH8878 | Cannot remove ICP when IPN/IRG sets exist.                                                                                                      |
| SCH8879 | Terminal/printer number must be entered (0-{NIPN}).                                                                                             |
| SCH8880 | Both DSET and DCON packages must exist.                                                                                                         |
| SCH8881 | Must be quad loop for digital console.                                                                                                          |
| SCH8882 | LANG number out-of-range (0-15) for digital console.                                                                                            |
| SCH8883 | Primary and secondary TNs must be on the same Loop, Shelf and Card.                                                                             |
| SCH8884 | Unit number out-of-range for digital consoles.                                                                                                  |
| SCH8885 | Warning: The active password length is changed only if new configuration data is dumped, and a complete data load and program load takes place. |
| SCH8886 | Cannot remove customer while Flexible Feature Code tree exists.                                                                                 |

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|---------|------------------------------------------------------------------------------------------------|
| SCH8887 | An invalid value for the Electronic Lock password was entered.                                 |
| SCH8888 | The Station Control Password can only use digits 0-9.                                          |
| SCH8889 | CEPT default does not match the password length defined in LD 15.                              |
| SCH8890 | Digit entered for REP causes replacement CEPT code to conflict with existing DN.               |
| SCH8891 | Maximum number of FFCs outed in this pass.                                                     |
| SCH8892 | FFC was defined earlier in this program.                                                       |
| SCH8893 | Specified DN conflicts with an existing DN.                                                    |
| SCH8894 | FFC package is not equipped.                                                                   |
| SCH8895 | FFC code does not exist.                                                                       |
| SCH8896 | FFC data does not exist.                                                                       |
| SCH8897 | FFC data already defined for a customer.                                                       |
| SCH8898 | FFC package is not enabled.                                                                    |
| SCH8899 | 511 is an invalid entry for a ring cadence.                                                    |
| SCH8900 | No FDTD table configured.                                                                      |
| SCH8901 | COOP package is not equipped.                                                                  |
| SCH8902 | Pointer to COOP_CPG_ICCOUNT array not defined.                                                 |
| SCH8904 | Cannot define a non-terminal loop as a GEC loop.                                               |
| SCH8905 | Cannot set subtype if TYPE = TIE.                                                              |
| SCH8907 | Cannot use OUT command on console with ICP.                                                    |
| SCH8908 | Cannot use OUT command on a set with IPNA CLS.                                                 |
| SCH8909 | ICP already configured for this customer.                                                      |
| SCH8910 | Packages 35 (IMS), 40 (BACD), 46 (MWC), 109 (APL), 131 (SUPP), and 139 (FFC) must be included. |
| SCH8911 | Terminal/printer number is already used.                                                       |

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|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SCH8912 | Terminal/printer number out-of-range (0-99).                                                                                                                                              |
| SCH8913 | ICP is not configured for this customer or tenant.                                                                                                                                        |
| SCH8914 | FDTD table does not exist.                                                                                                                                                                |
| SCH8915 | Trying to remove a nonexistent digit sequence.                                                                                                                                            |
| SCH8916 | Table full, no more sequences allowed.                                                                                                                                                    |
| SCH8917 | FDTD digit sequence already exists in table.                                                                                                                                              |
| SCH8918 | FDTD table does not exist (REQ = OUT/CHG).                                                                                                                                                |
| SCH8919 | FDTD table exists (REQ = NEW).                                                                                                                                                            |
| SCH8920 | OPCB package is restricted.                                                                                                                                                               |
| SCH8921 | Invalid entry for ALDN. ALDN can only be configured on a CHG command.                                                                                                                     |
| SCH8922 | DN conflicts with ALDN.                                                                                                                                                                   |
| SCH8923 | Input number is out-of-range (0 - 10).<br><b>Action:</b> Choose a number 0 - 9.                                                                                                           |
| SCH8924 | Category code out-of-range (1-10).                                                                                                                                                        |
| SCH8925 | No current entry in list.                                                                                                                                                                 |
| SCH8926 | At least one of call types CDPC/TOLL/ALRM/TNDM/SSUC must be set.<br>This error message may appear if SSUC is answered with NO (SSUC is now the last prompt among SSDG's call type marks). |
| SCH8927 | SSL not applicable to move command.                                                                                                                                                       |
| SCH8928 | SSL list already full (100 entries).                                                                                                                                                      |
| SCH8929 | SSL entry out-of-range (0-9999).                                                                                                                                                          |
| SCH8930 | SSL entry does not exist.                                                                                                                                                                 |
| SCH8931 | Category code out-of-range.                                                                                                                                                               |
| SCH8932 | List number out-of-range (0-15)                                                                                                                                                           |
| SCH8933 | SSL list does not exist                                                                                                                                                                   |

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# SCH

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|---------|---------------------------------------------------------------------|
| SCH8934 | HWTT input out-of-range (0-600).                                    |
| SCH8936 | Same digit cannot be assigned to two programmable control digits.   |
| SCH8948 | LAPW - Print Speed Call List is not allowed.                        |
| SCH8949 | Digital set cannot have LVXA Class of Service.                      |
| SCH8950 | ACD set cannot have LVXA Class of Service.                          |
| SCH8951 | Cannot have MTA and LVXA Class of Service.                          |
| SCH8952 | CMOP - Package is not equipped.                                     |
| SCH8953 | TVT - Volume key may not be changed using Attendant Administration. |
| SCH8954 | TVT - Only one of Volume Up/Down keys are configured.               |
| SCH8955 | TVT - Attempt to define a non-terminal loop as a TVT loop.          |
| SCH8956 | TVT - Before changes to OGTPECL/DCTI must be reset.                 |
| SCH8957 | ICP data is not copied.                                             |
| SCH8958 | This set does not have IPNA CLS.                                    |
| SCH8959 | This set does not have IRGA CLS.                                    |
| SCH8960 | ICP package 143 not equipped.                                       |
| SCH8961 | PPM - Input value out-of-range (0-9999 inclusive).                  |
| SCH8962 | PPM - Input value out-of-range (0-15 inclusive).                    |
| SCH8963 | Warning: Port has been configured as a background terminal.         |
| SCH8964 | PPM - Input value out-of-range. Value must be (0-3).                |
| SCH8965 | PPM - Input value out-of-range. Value must be (0-7).                |
| SCH8966 | PPM - Input value out-of-range. Value must be (0-28).               |
| SCH8967 | PPM - Input value out-of-range. Value must be (0-23).               |
| SCH8968 | PPM - Input not allowed; only allowed for daily print.              |
| SCH8969 | PPM - No space allowed after second hour input.                     |

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|         |                                                                                    |
|---------|------------------------------------------------------------------------------------|
| SCH8970 | PPM - No prime DN specified. MRA CLS changed to MRD.                               |
| SCH8971 | PPM - MR package is not equipped.                                                  |
| SCH8972 | PPM - Meter associated with this set/route is being deleted.                       |
| SCH8973 | ALP - Input is out-of-range (0-7) for APAD in CDB.                                 |
| SCH8974 | DTI2 - Route is not a 2.0 Mb/s digital route.                                      |
| SCH8975 | DTI2 - PAD category does not exist.                                                |
| SCH8976 | DTI2 - JDML package not equipped.                                                  |
| SCH8977 | DTI2 - Route is not a JDML route.                                                  |
| SCH8978 | DTI2 - 1.5 Mb/s DTI is invalid for private line routes.                            |
| SCH8979 | DTI2 - DTA is an invalid DSEL for RML and RLT routes.                              |
| SCH8985 | TBAR - Invalid group hunt member encountered all routes are assigned ART # O.      |
| SCH8986 | SUPP package 131 not equipped.                                                     |
| SCH8987 | TBAR - ARTs do not exist.                                                          |
| SCH8988 | TBAR - out-of-range (1-63).                                                        |
| SCH8989 | TBAR - ART already exists.                                                         |
| SCH8990 | RAN, MUSIC, AWU, and CAS routes cannot be barred.                                  |
| SCH8991 | AFBT cannot be greater than AFNT.                                                  |
| SCH8992 | MPO package is not equipped.                                                       |
| SCH8993 | AFBT is greater than AFNT, AFBT has been set to.                                   |
| SCH8994 | Cannot delete ART as it is used as default.                                        |
| SCH8995 | MCT & MFC packages must be equipped.                                               |
| SCH8996 | RART, REQ = NEW, or OUT is disallowed. New routes are created/removed using LD 16. |
| SCH8997 | 0, 1, and 2 are the only inputs allowed for RVDL.                                  |
| SCH8998 | RCDT, REQ = NEW, or OUT is disallowed.                                             |

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|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SCH8999 | ART not defined for ART number entered.                                                                                                                            |
| SCH9002 | CDN cannot be allowed as nite DN.                                                                                                                                  |
| SCH9949 | GPT Integrated Digital Access Service Change x x x x x.                                                                                                            |
| SCH9950 | Reserved Message                                                                                                                                                   |
| SCH9951 | Reserved Message                                                                                                                                                   |
| SCH9952 | <p>Call Forward All Calls DN size exceeds M2317 or M3000 maximum length of 23 digits.</p> <p><b>Action:</b> Enter the correct number of digits between 4 - 23.</p> |
| SCH9953 | Class of service FLXA/VCE is required for a DTM key.                                                                                                               |
| SCH9954 | This set cannot be copied as it contains a DTM key. The DTM key must first be deleted before copying to prevent a multiple appearance of a data DN.                |
| SCH9955 | <p>It is not allowed to configure a phantom DTI2 loop as tracking for the clock controller.</p> <p><b>Action:</b> Enter another loop number.</p>                   |
| SCH9959 | FCDR is set to OLD whereas CDRM was previously equal to YES. As it is incompatible for CDRM feature, DUR5 is reset to NO.                                          |
| SCH9960 | CDRM is set to YES whereas DUR5 was previously set to YES. As it is incompatible for CDRM feature, DUR5 is reset to NO.                                            |
| SCH9962 | In Overlay 25, the commands MOVE and SWAP are not allowed on a phantom DTI2 loop.                                                                                  |