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Meridian SL-100

Commercial Systems

Service Order Reference Manual

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Meridian SL-100

Commercial Systems

Service Order Reference Manual

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Version 13.01 is updated in a color template.

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Version 13.01, MSL16, Preliminary release. This release introduces the Individual MADN Hold feature (CNA16).

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Version 12.02, MSL15, Standard release. This release has been updated to reflect revisions to the Virtual Office Worker (VOW) feature and introduces the new line option UNIQID (unique identifier).

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Version 11.01, MSL 14 Standard release. This release has been updated to reflect the new MSL14 feature SMDI ID Override (IDOVR). This option enables passing intermediate DNs in a call forward chain to the voice message system.

May 2000

Version 10.01, MSL12 Standard release. This version represents the standard release of this document. Option AUTODISP has been updated to include MSL-specific information. This version also includes some minor pagination and graphics differences from the previous version.

Contents

About this document

Purpose

This document provides information on using the Service Order and Query System on Meridian SL-100 offices.

This software delivery is part of an on-going evolution. This book is one of several transitional documents that must be used with the *NA DMS-100 Service Order Reference Manual*, 297-8001-808, for the full complement of DMS-100 and XPM documentation.

Disregard the signaling point (SP), Traffic Operator Position System (TOPS), and SuperNode Data Manager (SDM) information in the *DMS-100, Service Order Reference Manual*, 297-8001-808, as it does not apply to the Meridian SL-100 switch.

How to check the version and issue of this document

The version and issue of the document are indicated by numbers, for example, 01.01.

The first two digits indicate the version. The version number increases each time the document is updated to support a new software release. For example, the first release of a document is 01.01. In the next software release cycle, the first release of the same document is 02.01.

The second two digits indicate the issue. The issue number increases each time the document is revised but rereleased in the same software release cycle. For example, the second release of a document in the same software release cycle is 01.02.

To determine which version of this document applies to the software in your office and how documentation for your product is organized, check the release information in *Master Index of Publications*.

References in this document

The following documents are referred to in this document:

- *NA DMS-100 Service Order Reference Manual,* 297-8001-808
- *Translations Guide,*555-4031-350
- *Office Parameters Reference Manual,* 555-4031-855
- *Customer Data Schema Reference Manual,* 555-4031-851
- *DMS-100 Integrated Services Digital Network Service Orders for ISDN Terminal Reference Manual,* 297-2401-310
- *Customer Data Change Operating Company Guide*, 297-2061-312
- *Customer Data Change End User Guide,* 297-2061-900
- *Automatic Call Distribution Product Guide,* 297-2041-500
- *DMS-100 Wireless Service Implementation Guide*, 297-8091-021
- *Input/Output system reference Manual,* 297-1001-129
- *Basic Administration Procedures*, 297-1001-300
- *Basic Translations Tools Guide*, 297-1001-360
- *Operational Measurements Reference Manual,* 555-4031-814
- *NA DMS-100 Service Order Reference Manual,* 297-8001-808

What precautionary messages mean

The types of precautionary messages used in Nortel Networks documents include attention boxes and danger, warning, and caution messages.

An attention box identifies information that is necessary for the proper performance of a procedure or task or the correct interpretation of information or data. Danger, warning, and caution messages indicate possible risks.

Examples of the precautionary messages follow.

ATTENTION - Information needed to perform a task

ATTENTION
If the unused DS-3 ports are not deprovisioned before a DS-1/VT Mapper is installed, the DS-1 traffic will not be carried through the DS-1/VT Mapper, even though the DS-1/VT Mapper is properly provisioned.

DANGER - Possibility of personal injury

DANGER
Risk of electrocution
Do not open the front panel of the inverter unless fuses F1, F2, and F3 have been removed. The inverter contains high-voltage lines. Until the fuses are removed, the high-voltage lines are active, and you risk being electrocuted.

WARNING - Possibility of equipment damage

WARNING
Damage to the backplane connector pins
Align the card before seating it, to avoid bending the backplane connector pins. Use light thumb pressure to align the card with the connectors. Next, use the levers on the card to seat the card into the connectors.

CAUTION - Possibility of service interruption or degradation

CAUTION
Possible loss of service
Before continuing, confirm that you are removing the card from the inactive unit of the peripheral module. Subscriber service will be lost if you remove a card from the active unit.

How commands, parameters, and responses are represented

Commands, parameters, and responses in this document conform to the following conventions.

Input prompt (>)

An input prompt (>) indicates that the information that follows is a command:

>BSY

Commands and fixed parameters

Commands and fixed parameters that are entered at a MAP terminal are shown in uppercase letters:

```
>BSY CTRL
```

Variables

Variables are shown in lowercase letters:

```
>BSY  CTRL  ctrl_no
```

The letters or numbers that the variable represents must be entered. Each variable is explained in a list that follows the command string.

Responses

Responses correspond to the MAP display and are shown in a different type:

```
FP 3 Busy CTRL 0: Command request has been submitted.

FP 3 Busy CTRL 0: Command passed.
```

The following excerpt from a procedure shows the command syntax used in this document:

Procedure 1

At your location

1 Manually busy the CTRL on the inactive plane by typing

>BSY CTRL ctrl_no

and pressing the Enter key.

where

ctrl_no is the number of the CTRL (0 or 1)

Example of a MAP Response:

FP 3 Busy CTRL 0: Command request has been submitted.

FP 3 Busy CTRL 0: Command passed

Basic service order information

Purpose

This chapter provides an introduction to the DMS-100 switch query command and service order system (SERVORD). The SERVORD changes, adds, or deletes options and services on the subscriber lines. Operating companies use the query commands in the input and output system of the DMS switch. The companies use these commands to determine the characteristics of telephone lines. Service order and query commands consist of a command name and a series of parameters.

Query commands

Some user have access to a DMS-100 switch input and output device (IOD). Query commands allow these users to determine the status of directory numbers (DN) or line equipment numbers (LEN) for lines. Examples of DN or LEN status are working or not assigned. This information helps users prepare service orders.

Query command reports can tell the end user important information. This information includes the line class code (LCC) and if an option is assigned to a line.

The *NA DMS-100 Service Order Reference Manual,* 297-8001-808 describes all the query commands.

Service order commands

End users enter service orders into an IOD to control a DMS-100 switch. This manual describes service orders that the user can enter in a DMS-100 switch. Refer to the *Input/Output System Reference Manual,* 297-1001-129. This manual describes the classes and function of the IODs for DMS-100 switches.

Change LEN (CLN) is an example of a service order command. The user enters the CLN command, along with any parameters that apply into an IOD that is online to a DMS switch. The switch changes the

LEN of each specified telephone subscriber. The Service order commands table in Chapter 2 of this manual provides a list of service order commands.

Entering and exit the SERVORD environment

To enter the SERVORD environment, type *SERVORD* at an input prompt after you log on to a valid service order IOD. After you press ENTER, the switch responds with the *SO:* prompt. Enter the desired service order command at the input prompt.

To exit the SERVORD environment, type *QUIT* or *LEAVE* and press ENTER at the input prompt. This command produces the response *CI:* from the switch. If you look at a datafill table when you attempt to exit, *QUIT* brings you back to the *SO:* prompt. A second *QUIT* takes you to the *CI:* prompt. To exit directly back to *CI:* after you look at a table in SERVORD, type *QUIT ALL* and press ENTER.

Command structure in this manual

The “Service order commands" chapter The *NA DMS-100 Service Order Reference Manual,* 297-8001-808 contains information on service order commands.

For each service order command, the following information appears:

Description

This section describes the purpose of the command and how to use the command.

Applicability

This section lists the types of LCCs, hunt groups, customer groups, and lines that the command can affect. For example, in the “Applicability" section of the CICP command, you learn that the CICP command applies to a line with an unassigned DN.

Example

This section contains an example of the command as used in SERVORD, in both prompt and no-prompt modes. The example begins with an explanation of the SERVORD command and ends with the last prompt for the command.

Note: Examples do not show the yes/no (Y/N) data entry to complete a command sequence. If you do not end the sequence with a Y or an N, SERVORD prompts you for a response. The example does not include the display of the service order that the DMS switch provides after you complete the command sequence.

Prompts

This section provides information about each prompt of the referenced command. The section presents a description of the information that each prompt requires and the valid inputs for the prompt.

Option format in this manual

The “Service order options" chapter in this manual contains information on MSL-100 options that you can add to a line. Use SERVORD to add the options.

For each option, the following information appears:

Description

This section describes the purpose of the option.

Example

This section contains an example of the option the user adds to a line, in both prompt and no-prompt modes. The example begins with the SERVORD command that adds the option and ends with the last prompt for the option. The DMS switch displays the service order again, after the user enters the last prompt. The example does not include the display of this service order.

Prompts

This section provides information about each prompt of the referenced option. The section describes the information required for each prompt and valid inputs for each prompt.

Option to LCC compatibility

This section features a chart that divides all LCCs into functional classifications. These classifications include: single lines, coin lines, WATS lines, and data lines. For each LCC grouping, a Yes or a No appears. Yes means that the option is compatible with the LCC. No means that the option is not compatible with the LCC. The system presents more information in the form of a note. This note appears with the table. The “Line class codes and compatible option" table lists all LCCs and compatible options.

The following table lists each LCC entry and the appropriate LCCs:

Table 1
Option to LCC compatibility entries

LCC grouping	LCCs
1FR, 1MR	1FR, 1MR
RES	RES
IBN	IBN
ISDN	ISDNKSET
2FR-10FR	2FR, 4FR, 8FR, 10FR
CSD	CSD
KEYSET LCCs	ATA, M2006, M2008, M2009, M2016S, M2018, M2112, M2216A, M2216B, M2317, M2616, M2616CT, M3000, M5009, M5112, M5209, M5312, MCA, PSET
DATA, PDATA	DATA, PDATA
MADO, MPDA	MADO, MPDA
WATSLCC	2WW, EOW, ETW, INW, OWT
COINLCC	CCF, CDF, CFD, CSP
PBX LCC	PBM, PBX
TWX LCC	TWX
ZMD, ZMZPA	ZMD, ZMZPA

Assigning options

This section describes how to assign the option to a Meridian business set (MBS) as a DN, Key, Set, or Subset feature. For more information on these classifications, refer to the section “Line service options and features" in this chapter.

Option requirements

This section specifies the other options required, before the the user can add the option to a line. For example, the user only can add the ALI option to a line that already has the LINEPSAP or ACDPSAP option.

Notes

This section contains additional information about the option. For example, the “Notes" section of the NAME option refers the user to the *Translations Guide* for more information on the option.

Feature identification

This section presents the feature number and feature package number of the option.

Parameters

Parameters follow commands. These parameters define the specifications of the command act upon and determine what effect the command can have.

Line class codes

An LCC is an alphanumeric code that identifies the class of service assigned to a line. An example of an LCC is M5009. The Meridian M5009 business sets have nine keys. The “Line class codes" table in the chapter about Service Order options in this manual contains a list of LCCs.

Line service options and features

The user uses line service options and features to add services to a line. An example of an optional service is three-way calling (3WC). This service allows a telephone subscriber to talk to a third party without operator support. The “Line service options" table in the chapter about Service Order options in this manual provides a list of line service options.

This book refers to SERVORD options and features as *options*. The differences that arise between the options and features does not affect the way the book uses the term. Refer to the following paragraph for a description of these differences.

To enter an option, type in the name of the option at the appropriate prompt. A $ informs the system that you finished with the option. For example, to add the reverse coin disposal (RCD) option, enter the following:

Figure 1
Example of the RCD option

```
SO:
>ADO
SONUMBER: NOW 92 4 17 AM
>$
DN_OR_LEN:
>6210000
OPTION:
>RCD
OPTION:
>$
COMMAND AS ENTERED:
ADO NOW 92 4 17 AM 6210000 ( RCD ) $
ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT
>Y
```

The user adds features in the same fashion, but the features require additional information. This information describes the parameters of the option. After the user enters the option, the system presents the next prompt. This prompt and entry sequence repeats until the user enters all the required parameters. For example, to add the automatic call forwarding (CFW) feature to a line, the user defines:

- the type of call forwarding that the subscriber wants
- the type of screening desired
- the number of calls that the user can forward at one time

A $ informs the system that the user finished with the feature. The system displays the command sequence that the user enters. To confirm the sequence and have the command take effect, enter Y. Enter N to reject, or E to edit.

The following example shows the CFW option added to a line with a unique directory number:

Figure 2
Example of the CFW option

```
>ADO
SONUMBER: NOW 92 4 17 AM
>$
DN_OR_LEN:
>6210000
OPTION:
>CFW
CFWTYPE:
>C
SCRNCL:
>NSCR
NUMCALLS:
>3
OPTION:
>$
COMMAND AS ENTERED:
ADO NOW 92 4 17 AM 6210000 ( CFW C NSCR 3 ) $
ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT
>Y
```

With the introduction of local number portability duplicate DNs can occur within a switch. If the system detects a duplicate DN it will display an error message prompting the user to enter the full ten digit number. The following example shows the CFW option added to a line that has a duplicate seven digit directory number:

```
>ADO
SONUMBER: NOW 92 4 17 AM
>$
DN_OR_LEN:
>6210000
***Error, Ambiguous Office Code***
DN_OR_LEN:
>6136210000
OPTION:
>CFW
CFWTYPE:
>C
SCRNCL:
>NSCR
NUMCALLS:
>3
OPTION:
>$
COMMAND AS ENTERED:
ADO NOW 92 4 17 AM 6136210000 ( CFW C NSCR 3 ) $
ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT
>Y
```

Set, subset, key, and DN features

Each feature must be one of four types. Set features associate with all the DN appearances on the set. Subset features associate with a subset of the DN appearances on the set. The DN keylist specifies this subset when SERVORD assigns the feature to a line. Key features must function separately from the other keys on the set. DN features do not require a separate key on the set. DN features associate with single DN appearances. The DN features are assigned to the key of the appropriate DN appearance.

For additional information about each feature and associated service orders, refer to the feature planning guides and translation manuals.

Prompts

The prompts you see on-screen can be different from the prompts in this document. System prompts differ from feature to feature. The prompts also differ according to the information the user enters. Local differences also cause prompt differences. These differences include: feature packages, office parameters, enhanced software versions, and BCS load.

The example below shows how the information the user enters can cause the prompts to vary. When the user adds the OBS option to a line, the OBSTYPE parameter branches the prompts in one of three ways. The way that the prompt branches depends on user selection (BASIC, EXTENDED, or FOBS).

Figure 3
Example of the OBS feature in prompt mode

```
>ADO
SONUMBER:      NOW  92  3 23 PM
>
DN_OR_LEN:
>6211234
OPTKEY:
>4
OPTION:
>OBS
OBSTYPE:
>BASIC
ACDGROUP:
>ACDGRP4
OPTKEY:
>$

                    >EXTENDED
                    OPTKEY:
                    >$

                                        >FOBS
                                        FOBS_ACDGROUP:
                                        >ACDGRP1
                                        FOBSTYPE:
                                        >SUBGROUP
                                        FOBS_SUBGROUP:
                                        >2
                                        OPTKEY:
                                        >$
```

Input and output devices

End users enter service orders or query commands to control a DMS-100 switch. End users enter these orders/commands through an IOD. The *Input/Output System Reference Manual,* 297-1001-129, describes the IODs for DMS-100 switches. Each IOD has a prime function and only accepts commands that are appropriate to its prime function. Operating companies can modify IODs to accept different commands.

Service order entry rules

A service order command consists of a command name and a series of parameters. Each service order has a different name. For example, the new DN command is NEWDN. The user enters the parameters that follow the command either in prompt or no-prompt mode.

The end user enters a command at an IOD to control the switch. The software prompts the end user to enter the first parameter. If the end user enters a valid parameter, the system prompts for the next parameter. This process continues until the user enters all the required parameters. If the end user enters an invalid parameter, the switch prompts the end user to try again.

Sample service order in prompt mode

The service order NEWDN command adds DNs to an office line. In the following example, a block of consecutive DNs from 2265400 to 2265999 is assigned to route 12. None of the new numbers cause duplicate DNs.

Figure 4
Example of the NEWDN command in prompt mode, unique DNs

```
CI:
>SERVORD
SO:
>NEWDN
SONUMBER: NOW 92 4 17 AM
>
BLOCK_OF_DNS:
>YES
FROM_DN:
>2265400
TO_DN:
>999
DNTYPE:
>RTE
ROUTE:
>OFRT
RTEIDX:
>12
COMMAND AS ENTERED:
NEWDN NOW 92 4 17 PM YES 2265400 999 RTE OFRT 12
ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT
>Y
```

Due to directory number portability the addition of new DNs can cause duplicate seven digit DNs to appear on the switch.

Figure 5
Example of the NEWDN command in prompt mode, multiple DNs

```
CI:
>SERVORD
SO:
>NEWDN
SONUMBER: NOW 92 4 17 AM
>
BLOCK_OF_DNS:
>YES
FROM_DN:
>2265400
***Error, all the digits of the DN are required to be
entered***
FROM_DN:
>6132265400
TO_DN:
>999
DNTYPE:
>RTE
ROUTE:
>OFRT
RTEIDX:
>12
COMMAND AS ENTERED:
NEWDN NOW 92 4 17 PM YES 6132265400 999 RTE OFRT 12
ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT
>Y
```

Sample service order in no-prompt mode

An end user also can enter a command and not wait for each parameter prompt. To accomplish this action, the end user enters a command and all appropriate parameters on the same line. The end user must enter the parameters in the correct order, and spaces must separate the items.

The NEWDN command example appears as follows if the user enters the command in no-prompt mode:

Figure 6
Example of the NEWDN command in no-prompt mode, unique DNs

```
>NEWDN $ YES 2265400 999 RTE OFRT 12
```

Figure 7
Example of the NEWDN command in no-prompt mode, duplicate DNs

```
>NEWDN $ YES 2265400 999 RTE OFRT 12

***Error, all the digits of the DN are required to be
entered***
>NEWDN $ YES 6132265400 999 RTE OFRT 12
```

If the end user enters an invalid parameter, the switch reverts to prompt mode. The prompting begins after the user enters the last valid parameter in the sequence.

Processing service orders

The switch can process service orders in three different ways: immediately, pending for future activation, and in bulk for future activation. The following paragraphs explain each alternative.

Immediate activation

Service orders that the user enters with the date as its SO number receive immediate activation. When the switch receives a service order assigned in this way, the switch processes the order immediately. The current date is the default value for the SO number. The user presses ENTER to accept this SO number.

Figure 8
Example of default SONUMBER in prompt mode

```
>NEWDN
SONUMBER: NOW 92 4 17 AM
>
```

Pending service orders

Pending service orders are service orders that the user enters with a valid number and a future date. When the DMS-100 switch receives a pending service order from an IOD, the switch processes the service order on the date specified.

The procedure used to create pending service orders is almost the same as the procedure used to create service orders for immediate activation. Pending service orders require the user to enter a future time and date. The pending order subsystem of the switch stores the pending service orders.

Appendix A of this manual describes the pending order subsystem in more detail. For additional information, refer to *Basic Translations Tools Guide*, 297-1001-360.

Bulk service orders

Bulk service orders are service orders that a user enters in groups with valid numbers and an assigned date for activation. Each group is called a batch. On the specified date, the switch processes the service orders. The user can enter batch service orders on a local or remote IOD.

The user can create bulk service orders in the store file system. The user can copy the system file to a magnetic tape or disk drive device. The user can transfer files on the tape or disk to the switch at a later time. For additional information on the bulk command, see the “Service order commands" chapter in this manual.

The procedure used to create bulk service orders is almost the same as the procedure used to create pending service orders. The difference is that the user enters a batch and not a single order.

Option incompatibility

Some options are not compatible with other options. For example, the answer emergency message key (AEMK) option is not compatible with the uniform call distribution (UCD) option. The “Options incompatibility" table (OPTOPT) in the chapter about Service Order options in this manual lists the options that are not compatible for each option.

Some options are not compatible with LCCs. For example, AEMK is not compatible with M2009 that do not have an answer emergency message key. The M2009 is the LCC for Meridian M2009 business sets. The “Line class codes and compatible options" table (LCCOPT) in the chapter about Service Order options in this manual lists the options that are compatible with specified LCCs.

The user cannot modify the LCCOPT and OPTOPT tables. These tables are read-only. When the user adds lines by service orders, the system references these tables to retain compatibility between LCCs and options. The system references these tables to make sure that the user does not add options that are not compatible to the same line. Note that during bulk data entry, the line tables LCCOPT and OPTOPT are not referenced.

Table control does not always perform option error checking when the user enters data in a table. The user uses the table editor to enter the data. The recommended method to assign line options is service orders.

Refer to the data schema section of the *Translations Guide* for additional information on OPTOPT and LCCOPT.

Using the edit function

When entry of a service order or query command is complete, the system displays the complete service order or query command. The system displays the order or command for verification purposes. The switch prompts for a Y to confirm, an N to reject, or an E to edit.

Enter Y if the system displays the correct data. Enter N if the service order or query command is not correct. If the order or command is not correct the user must abort the process. Enter E to display the complete service order or query command in the prompt mode. The system displays each prompt with the data as entered. If the data requires no change, enter a null. To change the data, the end user enters new information.

If the user enters Y, the switch verifies the service order or query command. If the switch detects an error of this type, the switch rejects the service order or query command. The system displays or prints the reason for the rejection.

Edit functions do not appear in examples of service orders in this manual.

Journal files

The day-to-day changes to the database of the DMS-100 switch are recorded on a storage device called a journal file. When the journal file is active, the system records service orders set for immediate activation. The system records the orders in a batch or set for pending on the day the system activates the orders. The user can use the journal file to enter a service order again if a switch failure occurs.

If the user enters a valid service order and the journal file is active, the user receives a message like the following:

Figure 9
Example of active journal file

```
1992/01/08 10:49:02.751 THU. JOURNAL FILE RECORD ID 259
```

If the journal file is not active, the user receives a message like the following:

Figure 10
Example of inactive journal file

```
JOURNAL FILE IS INACTIVE, SERVICE ORDERS NOT ALLOWED
SHOULD ORDER BE ALLOWED ANYWAY? (Y or N)
```

If you receive this message, notify switch personnel before you enter the service order. You risk loss of data if a switch failure occurs before the system records the results of service orders.

Cancelling a service order

To end a service order in mid-entry, type *ABORT* at the input prompt and press the ENTER key. The system disregards the previous input for that service order or command sequence.

Error messages

Several different messages can occur while the user enters service orders. The switch provides error messages when the user enters a service order sequence. The switch also provides error messages when the user confirms a service order.

Error messages in a service order sequence

When the user uses the prompt mode, an error message occurs if the response is not a valid parameter. The system provides additional information on the prompt, and the system waits for input. If the user enters a second invalid response, the user receives additional information about the prompt.

The example that follows displays the result of the entry of a value (“321") for the ALTLSC prompt outside the acceptable range. The second attempt (“268") that is not correct produces an error message that supplies the range of recognized responses (0 to 255).

Figure 11
Example of an invalid parameter

```
ALTLSC:
>321

*** ERROR ***

TYPE OF ALTLSC IS LSC_FLAG_COMBINATION_NUMBER
PLEASE ENTER:
ALTLSC:
>268

*** ERROR ***

TYPE OF ALTLSC IS LSC_FLAG_COMBINATION_NUMBER
TYPE IS LSC_FLAG_COMBINATION_NUMBER {0 TO 255}
PLEASE ENTER:
ALTLSC:
```

Error messages during service order acceptance

When the user attempts to confirm a service order with the Edit function the system can generate an error message. The user can receive error messages that do not allow the user to reject or edit the service order. If the user receives this sort of message, query the data for that set and examine the data. Normally the system does not accept all or part of the service order. The user must press *N* to abort the order.

Correcting errors

If you make a keying error, and the cursor is on the same line, backspace to the error. Type out the characters that remain in the entry, and press ENTER.

Service orders for DMS-100 Wireless switch

To provision wireless data on the DMS-100 Wireless switch, operating companies use the MSERVORD (Mobile Service Order) provisioning tool. Operation of MSERVORD on the DMS-100 Wireless switch is almost the same as the wireless DMS-MTX version of SERVORD. The difference is that the operating company personnel enter the MSERVORD command and not the SERVORD command.

The following figure describes how to access provisioning for wireline and wireless data on the NA100 switch. Note that the user enters the command “MSERVORD" for wireless data.

Figure 12
SERVORD and MSERVORD interaction on the DSN switch

```
CI:
>SERVORD
SO:
> HELP
HELP IS AVAILABLE FOR THE COMMANDS:
HELP, ADD, ADO, CDN CICP, CLN, ABNN, DBNN, DEL, DEO, EST, NEW,
OUT, PLP, RES, SUS, NEWDN, OUTDN, SWAP, BULK, CHF, DSP, CHG, ADA,
DEA, CKLN, SLT, DELCF, SUSGRP, RESGRP, SADO, SDEO, CLTG, SDNA,
SETPH, ADDPH, CHAPH, DELPH, SWLT, CISG, CHDN, NEWACD, CHL, COPYSET
TYPE EHLP CMDNAME FULL FOR SYNTAX
TYPE HELP CMDNAME fieldname FOR SYNTAX OF A FIELD
> HELP NEW
Service Order Command–NEW in line
Establishes initial service for all non-hunt lines
> SERVORD
Already in SERVORD
>MSERVORD
MSO:
> HELP
HELP IS AVAILABLE FOR THE COMMANDS:
HELP, ADO, DEO, NEW OUT, RES, SUS, BULK, ECHO, STOPECHO, CSN, CCG,
CHPIN, CEPGRP, DELGRP, CEPMEM, DELMEM, CSV
TYPE HELP CMDNAME FULL FOR SYNTAX
TYPE HELP CMDNAME fieldname FOR SYNTAX OF A FIELD
> HELP NEW
Service Order Command–New
Establishes initial service for Cellular Subscribers
> MSERVORD
Already in MSERVORD
```

Note: Notice that the error response `ALREADY in SERVORD [or MSERVORD]` displays if the user attempts to access the provisioning tool again.

Service order echo

The service order echo feature is only available in offices that have BCS12 or later software and feature package NTX901AA. This feature allows you to send a summary of data that results from the entry of a valid service order. The feature allows the user to send the summary to an IOD that is online with the DMS switch.

The end user must log in at an IOD to activate the service order echo feature. The user must assign the IOD in the terminal device (TERMDEV) system data table. The data schema section of the

Translations Guide describes the TERMDEV system data table. For additional information, refer to the “Service order commands" chapter in this manual.

SERVORD help

The user can use the HELP command to find information on SERVORD and PENDING commands. Query commands do not have help features. From the SERVORD subsystem, the user can obtain a listing of input commands. The user can use the HELP command to research the input commands. Do not attempt to use HELP when in the middle of a service order or command sequence. (For information on how to obtain help with an error, use the procedure in *Customer Data Change (CDC) End User Guide,* 297-2061-900.)

To access HELP, type HELP at the cursor and press ENTER, as described in the following example:

Figure 13
Example of HELP

```
SO:
>HELP
HELP IS AVAILABLE FOR THE COMMANDS:
ABNN, ADA, ADD, ADDPH, ADO, BULK, CDN, CHAPH, CHDN, CHF,
CHG, CHL, CICP, CISG, CKLN, CLN, CLTG, DBNN, DEA, DEL,
DELCF, DELPH, DEO, DSP, EST, HELP, NEW, NEWACD, NEWDN,
OUT, OUTDN, PLP, RES, RESGRP, SADO, SDEO, SDNA, SETPH,
SLT, SUS, SUSGRP, SWAP, SWLT
TYPE HELP CMDNAME FULL FOR SYNTAX
TYPE HELP CMDNAME fieldname FOR SYNTAX OF A FIELD
>
```

To research a service order command, at the input prompt type HELP, the command, and then the ENTER key. The system provides you with a definition of the command. For example, the entry of the SUSGRP command produces the following:

Figure 14
Example of command HELP

```
SO:
>HELP SUSGRP
SUSGRP: SUSPEND SERVICE OF A GROUP OF LINES
THE TYPE OF GROUPINGS ARE:
   NCOS:CUSTOMER GROUP AND NETWORK CLASS OF SERVICE
```

To receive syntax information, type HELP, the command name, FULL, and press ENTER:

Figure 15
Example of full command HELP

```
SO:
>HELP SUSGRP FULL

SUSGRP: SUSPEND SERVICE OF A GROUP OF LINES
THE TYPE OF GROUPINGS ARE:
   NCOS:CUSTOMER GROUP AND NETWORK CLASS OF SERVICE
FOR COMMAND SUSGRP ENTER:

   SONUMBER          NEW_SO_DUE
   GROUPDATA
   GROUPTYPE         {NCOS} :
   {NCOS}            MULTIPLE WITH
    CUSTGRP          CUSTOMER_GROUP
    NCOS                 {0 TO 255}
```

For syntax information on a field, type HELP, the command name, the field name, and press ENTER:

Figure 16
Example of field HELP

```
SO:
>HELP SUSGRP GROUPDATA
   GROUPDATA
    GROUPTYPE           {NCOS} :
    {NCOS}          MULTIPLE WITH
        CUSTGRP         CUSTOMER_GROUP
        NCOS                {0 TO 255}
```

Service order simplification

Make sure the appropriate feature is present and field RES_AS_POTS of office parameter RES_SO_SIMPLIFICATION is set to *Y*. This state allows the user to convert a POTS line to Residential Enhanced Services (RES). The user can make this conversion when the user adds a RES-specific option to the line. For additional information, refer to table OFCVAR in *Office Parameters Reference Manual.* When you remove the last RES-specific option from the line, the system converts the line back to the original LCC. This service order simplification capability is limited to certain types of lines. The following table indicates the applicable line types and the corresponding features required:

Table 2 Service order simplification prerequisite features

Line type	Feature	Feature name	Functionality
1FR	AG1246	RES/CLASS Service Order Simplification and OA&M	NTXA64AA
Hunt group lines	AG1542	RES: Service Order Simplification for Hunt Groups	NTXA64AA
1MR	AG1544	RES: 1MR Service in RES	NTXA64AA
WATS lines	AF2244	WATS on RES	NTXA64AA
Coin lines	NC0369	RES Platform Enhancements	NTXQ90AB
ZMD, ZMZPA	NC0485	RES Platform Enhancements Phase 2	NTXQ90AB

Office parameter RES_SO_SIMPLIFICATION contains two fields, RES_AS_POTS (default is Y) and ENHANCED_POTS_OPTIONS (default is N). Field RES_AS_POTS controls the automatic change of LCC capability, as mentioned in the preceding text. This field controls the query display (for example, QDN) of RES or POTS lines and RES-specific options. These options are RES-specific for the purpose of service order simplification: ACB, ACRJ, AR, ARDDN, CALLOG, CFRA, CNAB, CNAMD, CND, CNDBO COT, CPU, CWR, CXR, DDN, DRCW, DSCWID, FTRGRP, GIC, MDN, MSB, MWT, NFA, RCHD, SACB, SC3, SCA, SCF, SCRJ, SCU, SCWID, SL, SLVP, SMDI, WUC, XXTRG.

Field ENHANCED_POTS_OPTIONS controls the prompting for RES-specific fields when the user adds POTS options to a line. The user can add POTS option CFDA (Call Forwarding Do Not Answer) to a line with ENHANCED_POTS_OPTIONS set to *Y*. If the user takes this action, the system prompts an extra field CFDACNTL. If ENHANCED_POTS_OPTIONS is set to *N*, the service order operates like the POTS example. For more information, refer to table OFCVAR in *Office Parameters Reference Manual.*

Hunt-specific options cannot function on RES zero minus denied (ZMD)/zero minus zero plus accepted (ZMZPA) lines. The options do not function on these lines because the lines cannot be part of hunt groups.

The user can use the new MAKERES command at the CI level:

- to convert POTS lines to RES
- to allocate the necessary data store
- to assign incoming and outgoing call memory to each line

Service order options

Purpose

This chapter lists the valid MSL-100 service order options that the DMS-100 system recognizes. This chapter provides examples on how to use service order options. This chapter also provides special information that relates to each option. Some options do not appear in all software loads because of local differences. Local differences can be the settings of office parameters or the absence of important feature packages.

Information about 30-option limit in service orders (SERVORD)

For assignment of line options to a line that uses SERVORD commands, a maximum of 30 options can appear on the line. The total includes all current options in any table and all additional options.

Different DMS tables can store the line options and these tables have different limits. The size restrictions of these tables can prohibit the assignment of 30 options to a line. A DMS table can store a line option that appears as one option as two or more options. The system can add more options automatically.

Table KSETLINE stores basic line data entry and other telephone options for telephone lines. Any tuple in table KSETLINE can contain a maximum of 20 options. Each tuple represents one key on a telephone or ISDN telephone. Tables like KSETFEAT store other options. It is possible that the other options do not require space in the KSETLINE table.

The addition of the correct options to a line allows one tuple in table KSETLINE to contain 20 options for a telephone. Attempts to add another option, that requires space in this tuple in table KSETLINE, to this line causes SERVORD command failure. SERVORD limits do not cause the SERVORD command failure. Underlying table limits cause the SERVORD command failure. SERVORD allows the addition of options if space is available in the KSETLINE tuple. If the changes do

not exceed the underlying table limits, additions can continue to a maximum of 30 total options.

The stored number of options for the RES line in a table, can exceed the number that the SERVORD query commands display. The SERVORD query commands displays the RES line options with POTS names, but tables store RES line options with IBN names. A single POTS option can require multiple IBN options. For example, the POTS option CFDA maps internally to CFD and CFDVT.

Tables can store 30 options to a line. Use of QDN or QLEN to query the line can display a smaller number of options. SERVORD will not allow the addition of options because the number of stored options corresponds to the limit. The underlying table limits can affect the assignment of options to this line.

In some instances, added line options result in automatically added options. Added line options differ from the mapping with TES lines in that the system displays the automatically added options when queried. As an example, assume an IBN line has 29 options. The user attempts to add the SCWID option to that line. If the line does not have a CWT present, the system automatically adds the CWT. Two options would exceed the limit, the system does not allow this command.

International options and ISDN options

The following chapter describes options that apply to ISDN terminals. For information on ISDN-specific options, refer to *Service Orders for ISDN Terminals*. For information on international options, refer to Appendix C of this manual.

Module organization

This lists options in alphanumeric order. The chapter presents information for each option as follows:

- the option name
- a short description
- an example
- the prompts for the option
- assignability information
- line class code compatibility information
- option requirements
- feature identification
- additional notes

AAB – Auto Answer Back

Description

The AAB option allows an incoming call to a primary directory number (PDN), secondary directory number (SDN), or Group Intercom (GIC) to be answered automatically. When a call is presented to any DN (PDN, SDN, or GIC) on the set for which AAB is active, the call is answered automatically after four seconds of ringing without physical intervention. When the incoming call is answered, a special tone splash is heard by the called or terminating party to indicate that the call has been answered in handsfree mode.

The AAB option must be assigned to a blank key on the set but can be activated for any DN on the set.

Example

The following examples show the AAB option assigned to key 5 on the set. The option can be activated on DN key 1 and DN key 2 in these examples.

Example of the AAB option

```
>ADO
SONUMBER:     NOW  99  3 26 AM
>
DN_OR_LEN:
>0 0 8 10
OPTKEY:
>5
OPTION:
>AAB
KEYLIST:
>1
KEYLIST:
>2
KEYLIST:
>$
OPTKEY:
>$
```

Example of the AAB option in no-prompt mode

```
>ADO $ 0 0 8 10 (5 AAB (1) (2) $) $ Y Y
```

AAB – Auto Answer Back (continued)

Prompts

The following table provides the system prompts for the AAB option.

Input prompts for the AAB option

Prompt	Valid input	Explanation
SONUMBER	Refer to SONUMBER in the "Prompts" table in the chapter about Service Order options in this manual for information on valid inputs.	The unique number of the service order to be entered.
DN_OR_LEN	Refer to DN and LEN_OR_LTID in the "Prompts" table in the chapter about Service Order options in this manual for information on valid inputs.	Enter the DN or LEN of the line. In the case of an MDN line or MLH/DLH hunt members, if a DN is specified then the user is prompted for the LEN. If the LEN is entered, the user is not prompted for the DN.
OPTKEY		The AAB option must be assigned to a blank key on the set but can be activated for any DN on the set.
KEYLIST	$ or key numbers	If AAB is required for all DNs on the set, enter a $ for the keylist. If AAB is not required for all DNs on the set, enter the key numbers of those DNs that require AAB.

AAB to line class code compatibility

The following table shows AAB compatibility to LCC.

AAB to LCC compatibility

Line class code	Compatible?
1FR-1MR:	No
RES:	No
IBN:	No
2FR-10FR:	No
CSD:	No
KEYSET LCCs:	Yes (See Notes 1, 2, and 3.)
DATA-PDATA:	No
MADO-MPDA:	No
WATSLCC:	No
COIN LCC:	No
PBX LCC:	No
TWX LCC:	No
ZMD, ZMZPA:	No
Note 1: AAB is compatible with M2008, M2112, M2616, M2616CT, M3000, M3902, M3903, M3904, M3905, M5112, M5312, M5316, and M5317 LCCs. ***Note 2:*** ISDNKSETS must have an LTCLASS of BRAMFT. ***Note 3:*** Sets must have Handsfree enabled.	

Assignability

The following functionalities apply to this option:

- set functionality: no
- subset functionality: yes
- DN functionality: no
- key functionality: no

AAB – Auto Answer Back (end)

Option prerequisites

AAB has the following prerequisites:

- The set must have Handsfree enabled.
- AAB must be assigned to a blank key.

Notes

The following notes apply to AAB:

- When a call comes into a DN that has AAB active but the set is busy on another the call, the incoming call must be answered manually.
- When an incoming call is answered manually before four seconds of ringing (that is, before the AAB timer expires and and the call is answered automatically), a tone splash is heard.

Feature identification

Functionality: MSL00007

Feature number: 59007002

AUTODISP – Automatic Display

Description

The automatic display (AUTODISP) option automatically shows information on incoming calls to a Meridian business set (MBS) and Intergrated Voice Data (IVD) sets with display.

This option provides the capability of presenting incoming call information (eq., calling name, number) automatically on the display of Meridian Business Sets (MBS) as calls are presented to the set.

Example

An example of the AUTODISP option follows. This example assigns AUTODISP to an current MBS with display capability.

Example of the AUTODISP option in prompt mode

```
> ADO
SONUMBER:      NOW  92  3 26 AM
>
DN_OR_LEN:
> 6213001
OPTKEY:
> 1
OPTION:
> AUTODISP
CWT:
> Y
KEYLIST:
> $
OPTKEY:
> $
```

Example of the AUTODISP option in no-prompt mode

```
> ADO $ 6213001 1 AUTODISP Y $ $
```

AUTODISP – Automatic Display (continued)

Prompts

The system prompts for the AUTODISP option appear in the following table.

Input prompts for the AUTODISP option

Prompt	Valid input	Explanation
SONUMBER	Refer to SONUMBER in the Prompts table in Chapter 2 for information on valid inputs.	The number of the service order to be entered.
DN_OR_LEN	Refer to DN and LEN_OR_LTID in the Prompts table in Chapter 2 for information on valid inputs.	Enter DN or LEN. For a MDN line or MLH/DLH hunt members, if the user specifies a DN, the system prompts the user for the LEN. If the user enters the LEN, the system does not prompt the user for the DN.
OPTKEY	1-9 for business set; 1, 2, 3, 4, or 7 for data unit	Identifies option key on business set or data unit.
OPTION	Refer to the Line service options table in Chapter 2 for a list of valid inputs.	Option(s) associated with a service to be established, modified or deleted. The user can specify up to a maximum of 20 options in a single ADD, ADO, EST, or NEW command.
CWT	Y = Yes, N = No	Indicates if the CWT option is active.
KEYLIST	Key number; list of key numbers or $	This prompt appears when a multi-line set gets a subset option. It specifies key numbers of the DNs an option must apply to.

AUTODISP to line class code compatibility

The following table shows AUTODISP compatibility to LCC.

AUTODISP to LCC compatibility (Sheet 1 of 2)

Line class code	Compatible?
1FR-1MR:	No
RES:	No
IBN:	No
2FR-10FR:	No
Note: AUTODISP does not work with the M2009, M2018, and M2112 LCCs.	

AUTODISP to LCC compatibility (Sheet 2 of 2)

Line class code	Compatible?
CSD:	No
KEYSET LCCs:	Yes (refer to note)
DATA-PDATA:	No
MADO-MPDA:	No
WATSLCC:	No
COIN LCC:	No
PBX LCC:	No
TWX LCC:	No
ZMD, ZMZPA:	No
Note: AUTODISP does not work with the M2009, M2018, and M2112 LCCs.	

Assigning AUTODISP

The following functionalities apply to the AUTODISP option:

- set functionality does not apply
- subset functionality applies
- DN functionality does not apply
- key features does not apply

Option requirements

There are no requirements for this option.

Limitations

This option is not compatible with ACD agents and if datafilled against an agent which has callforce tone option set against the ACD group, the callforce tone will be disabled for that agent.

Notes

This option is intended for sets used in executive applications and not call coverage or answering positions, or other very high traffic applications such as Automatic Call Distribution (ACD) or Uniform Call Distribution (UCD).

AUTODISP – Automatic Display (end)

AUTODISP can only be added to a display set.

Feature identification

Functionality: NTXE40AB

Feature number: AG1549

CFTOD – Call Forward Time of Day

Description

The CFTOD option provides the functionality and enhancements to the existing call forwarding features, Call Forward Internal (CFI) and Call Forward Universal (CFU), to allow for provisioning of phone sets to be call forwarded for certain times of the day. The CFTOD feature also provides capabilities to forward for day of the week and day of the year.

Note: For information on datafilling tables TODHEAD, TIMEODAY, CFTODDN, see the *Data Schema Reference Manual*.

Example

The following is an example of the CFTOD option.

Example of the CFTOD option

```
>ADO
SONUMBER:  NOW 98 2 06  AM
>
DN_OR_LEN
> 7895432
OPTKEY
> 1
OPTION
> CFTOD
TODNAME_INT:
> DESIGN1
TODNAME_EXT:
> DESIGN2
TODNAME_DATA:
> DESIGN3
OPTKEY
>$
```

CFTOD – Call Forward Time of Day (continued)

Prompts

The following table provides the system prompts for the CFTOD option.

Input prompts for the CFTOD option

Prompt	Valid input	Explanation
SONUMBER	Refer to SONUMBER in the "Prompts" table in Chapter 2 for information on valid inputs.	The unique number of the service order to be entered.
DN_OR_LEN	Refer to DN and LEN_OR_LTID in the "Prompts" table in Chapter 2 for information on valid inputs.	Enter DN or LEN of the line. If a DN is specified for a MDN line or MLH/DLH members, the user is prompted for the LEN. If the LEN is entered, the user is not prompted for the DN.
OPTKEY	CFTOD allowed on Key1 only	Identifies key on business set or data unit to which an option is assigned.
OPTION	CFTOD is the valid input for this feature. Refer to the "Line service options" table in Chapter 2 for a list of valid inputs for other features.	Enter CFTOD. Option(s) associated with a service to be established, modified, or deleted. A maximum of 20 options can be specified in any single ADD, ADO, EST, or NEW command.
TODNAME_INT	alphanumeric character (1 to 8 characters)	Enter valid internal TOD Name found in table TODHEAD.
TODNAME_EXT	alphanumeric character (1 to 8 characters)	Enter valid external TOD Name found in table TODHEAD.
TODNAME_DATA	alphanumeric character (1 to 8 characters)	Enter valid data TOD Name found in table TODHEAD.

CFTOD to line class code compatibility

The following table shows CFTOD compatibility to LCC.

CFTOD to LCC compatibility

Line class code	Compatible?
1FR-1MR:	No
RES:	No
IBN:	Yes
2FR-10FR:	No
CSD:	No
KEYSET LCCs:	Yes
DATA-PDATA:	Yes
MADO-MPDA:	Yes
WATSLCC:	No
COIN LCC:	No
PBX LCC:	No
TWX LCC:	No
ZMD, ZMZPA:	No
Note: Field TODNAME_DATA is displayed when SERVORD provisioning sets that are capable of receiving data calls.	

Assignability

The following functionalities apply to this option:

- set functionality: yes
- subset functionality: no
- DN functionality: no
- key functionality: no

CFTOD – Call Forward Time of Day (end)

Option prerequisites

CFTOD has the following prerequisites:

- CFTOD is assigned on the same LEN or set as CFI and CFU and must be assigned to key one on the set.
- Applicable tables must be datafilled prior to assignment of CFTOD in SERVORD.
- CFI or CFU must be assigned prior to assigning CFTOD.

Notes

Each phone can be provided its own forwarding scheme as they are assigned in SERVORD. SERVORD provides the prompts necessary for CFTOD after the appropriate tables have been datafilled.

Feature identification

Functionality: MSL00007 Station Features

Feature number: AX0914, AX0946

CLLG – Call Log

Description

The CLLG option provides one-button access to the Call Log on the M3903, M3904, and M3905 telephone sets. When this feature is assigned to the context sensitive softkeys and/or the programmable feature keys, pressing the button takes the user to the Call Log feature.

Keys 28 is designated as the context sensitive key for this line option.The following programmable keys may also be used in the following keys:

- M3903: keys 2 through 4
- M3904: keys 2 through 12
- M3905: keys 2 through 8

The CLLG option may be added to multiple programmable keys as well as to the context sensitive keys simultaneously.

Example

The following examples show the CLLG option added to a line and deleted from a line as if changed from one key to another.

Example of adding the CLLG option in prompt mode:

```
>ADO
SONUMBER:     NOW 01 8 10 PM
>
DN_OR_LEN:
>8664060
OPTKEY:
>6
OPTION:
>CLLG
OPTKEY:
>$
```

Example of adding the CLLG option in no-prompt mode

```
>ADO $ 8664060 6 CLLG $
```

CLLG – Call Log (continued)

Example of deleting the CLLG option in prompt mode:

```
>DEO
SONUMBER:     NOW 01 8 10 PM
>
DN_OR_LEN:
>8664060
OPTKEY:
>6
OPTION:
>CLLG
OPTKEY:
>$
```

Example of deleting the CLLG option in no-prompt mode

```
>DEO $ 8664060 6 CLLG $
```

Prompts

The following table provides the system prompts for the CLLG option.

Input prompts for the CLLG option

Prompt	Valid input	Explanation
SONUMBER	Refer to SONUMBER in the "Prompts" table in Chapter 2 for information on valid inputs.	The unique number of the service order to be entered.
DN_OR_LEN	Refer to DN and LEN_OR_LTID in the "Prompts" table in Chapter 2 for information on valid inputs.	Enter the DN or LEN of the line. In the case of an MDN line or MLH/DLH hunt members, if a DN is specified then the user is prompted for the LEN. If the LEN is entered, the user is not prompted for the DN.
OPTKEY		To be assigned.
OPTION		The CLLG option may be assigned to multiple programmable or context sensitive keys.

CLLG to line class code compatibility

The following table shows CLLG compatibility to LCC.

CLLG to LCC compatibility

Line class code	Compatible?
M3903	Yes
M3904	Yes
M3905	Yes

Assignability

The following functionalities apply to this option:

- set functionality: yes
- subset functionality: no
- DN functionality: no
- key functionality: no

Option prerequisites

CLLG has no prerequisites.

Notes

None.

Feature identification

Functionality: MSL15

Feature number: AT.59023539

COMMUNICTR – Communicator

Description

The COMMUNICTR option is assigned to data sets and Integrated Voice and Data (IVD) sets that are supported by the Nortel Networks Symposium Personal Computer (PC) Communicator card. This set option indicates that the Line Equipment Number (LEN) is attached to a Communicator card, and the set will be diagnosed with a reduced set of extended line diagnostics. This reduced set contains signaling looparounds only.

Example

The following is an example of the COMMUNICTR option in prompt mode.

Example of the COMMUNICTR option in prompt mode

```
>ADO
SONUMBER NOW 97 12 12 PM
>
DN_OR_LEN:
> IPE0 00 0 00 00
OPTKEY:
> 1
OPTION:
> COMMUNICTR
OPTKEY:
> $
```

The following is an example of the COMMUNICTR option in no-prompt mode.

Example of the COMMUNICTR option in no-prompt mode

```
>ADO $ IPE0 00 0 00 00 ( 1 COMMUNICTR) $
```

Prompts

The following table provides the system prompts for the COMMUNICTR option.

Input prompts for the COMMUNICTR option

Prompt	Valid input	Explanation
SONUMBER	Refer to SONUMBER in the "Prompts" table in Chapter 2 for information on valid inputs.	The unique number of the service order to be entered.
DN_OR_LEN	Refer to DN and LEN_OR_LTID in the "Prompts" table in Chapter 2 for information on valid inputs.	Enter the DN or LEN of the line. In the case of an MDN line or MLH/DLH hunt members, if a DN is specified then the user is prompted for the LEN. If the LEN is entered, the user is not prompted for the DN.
OPTKEY	Key 1 only	Set options are assignable to Key 1 only.
OPTION	COMMUNICTR is the valid input for this feature. Refer to the "Line service options" table in Chapter 2 for a list of valid inputs for other features.	Set is diagnosed for signaling looparounds only.

COMMUNICTR – Communicator (continued)

COMMUNICTR to line class code compatibility

The following table shows COMMUNICTR compatibility to LCC.

COMMUNICTR to LCC compatibility

Line class code	Compatible?
1FR-1MR:	No
RES:	No
IBN:	No
2FR-10FR:	No
CSD:	No
KEYSET LCCs:	Yes (See Note 1.)
DATA-PDATA:	Yes (See Note 2.)
MADO-MPDA:	No
WATSLCC:	No
COIN LCC:	No
PBX LCC:	No
TWX LCC:	No
ZMD, ZMZPA:	No
Note 1: The COMMUNICTR option is compatible with the M2008, M2216A, M2216B, M2616, and M2616CT sets that are attached to a Communicator card. ***Note 2:*** MCA only.	

Assignability

The following functionalities apply to this option:

- set functionality: yes
- subset functionality: no
- DN functionality: no
- key functionality: no

Option prerequisites

There are no prerequisites for this option.

Notes

The set being assigned this option must be connected to an Intelligent Periperhal (IPE) digital line card.

Feature identification

Functionality: MSL00003 Integrated Voice and Data

Feature number: AX0947, AX0913, AX0942

CWTACT – Call Waiting Active

Description

The CWTACT option gives users the ability to selectively activate or deactivate Call Waiting (CWT). With CWTACT, the subscriber can activate or deactivate CWT indefinitely. The subscriber activates and deactivates CWTACT by means of two feature access codes, CWTACT and CWDEACT. These access codes must be present in table IBNXLA.

Example

The following is an example of the CWTACT option.

Example of the CWTACT option

```
> ADO
SONUMBER:      NOW  97 10 3 AM
>
DN_OR_LEN:
> 8664005
OPTION:
> CWTACT
CWT_ACTIVE:
> Y
OPTION:
>$
```

Prompts

The following table provides the system prompts for the CWTACT option.

CWTACT option

Prompt	Valid input	Explanation
SONUMBER	Refer to SONUMBER in the "Prompts" table in Chapter 2 for information on valid inputs.	The unique number of the service order to be entered.
DN_OR_LEN	Refer to DN and LEN_OR_LTID in the "Prompts" table in Chapter 2 for information on valid inputs.	Enter the DN or LEN of the line. In the case of an MDN line or MLH/DLH hunt members, if a DN is specified then the user is prompted for the LEN. If the LEN is entered, then the user is not prompted for the DN.
OPTION	Refer to the "Line service options" table in Chapter 2 for a list of valid inputs.	Option(s) associated with a service to be established, modified, or deleted. A maximum of 20 options can be specified in any single ADD, ADO, EST, or NEW command.
CWT_Active	Y or N	Enter Y to activate CWT. Enter N to deactivate CWT.

CWTACT to line class code compatibility

The following table shows CWTACT compatibility to LCC.

CWTACT to LCC compatibility (Sheet 1 of 2)

Line class code	Compatible?
1FR-1MR:	No
RES:	No
IBN:	Yes (See Note.)
2FR-10FR:	No
CSD:	No
Note: CWTACT is compatible with IBN sets only.	

CWTACT – Call Waiting Active (continued)

CWTACT to LCC compatibility (Sheet 2 of 2)

Line class code	Compatible?
KEYSET LCCs:	No
DATA-PDATA:	No
MADO-MPDA:	No
WATSLCC:	No
COIN LCC:	No
PBX LCC:	No
TWX LCC:	No
ZMD, ZMZPA:	No
Note: CWTACT is compatible with IBN sets only.	

Assignability

The following functionalities apply to this option:

- set functionality: no
- subset functionality: no
- DN functionality: yes
- key functionality: no

Option prerequisites

CWTACT has the following prerequisites:

- CWT must be assigned
- CWT cannot be deleted if CWTACT is on the line

Notes

The following notes apply to CWTACT:

- When CWT_ACT is set to N, CWT is disabled. Therefore, the subscriber will not hear a call waiting tone if another caller attempts to terminate while the subscriber is busy. In addition, call waiting will not be applied to the call.
- If CWTACT is set to N, Call Waiting Origination and Dial Call Waiting will receive a busy tone.

CWTACT – Call Waiting Active (end)

- When CWT_ACTIVE is set to Y, CWT functions as if CWTACT is not available.
- If CWTACT is assigned to a line and set to N, Call Forward functions as if CWT is not assigned.
- CWT takes precedence of Call Forward Busy (CFB) and Call Forward Do Not Answer (CFD)
- CWTACT disables a CWT tone for any other feature attempting to call wait

Feature identification

Functionality: MSL00003 Integrated Voice and Data

Feature number: AX0687

DTMK – Data Mode Key

Description

The DTMK option is used in conjunction with the Flexible Voice/Data LEN (FLXA) feature, a supported M2000 series set, and Nortel Networks Symposium Personal Computer (PC) Communicator card to provide data bearer or voice bearer capability on the same Line Equipment Number (LEN).

When two Integrated Voice and Data (IVD) sets are datafilled on the even and odd LENs of one IPE digital line card port the user has full advantage of voice calls from his telephone set, fax, modem capability from the odd port and 128K video from the secondary data keys datafilled with the DTMK option.

When a user presses the secondary DN assigned with the DTMK option assigned to it, the key depression is ignored. Only originations from the communicator card are accepted from the secondary key. The RLS key releases the voice or data call currently active on the set.

Note: The DTMK option provides the option to run a reduced set of diagnostics. For more information, see the COMMUNICTR option.

Example

The following is an example of the DTMK option.

Example of the DTMK option

```
>ADO
SONUMBER: NOW 96 2 14 AM
>
DN_OR_LEN
> 7059934
OPTKEY:
> 2
OPTION:
>DTMK
OPTKEY:
> $
```

The following is an example of the DTMK option in no-prompt mode.

Example of the DTMK option in no-prompt mode

```
>ADO $ IPE0 00 0 00 00 ( 2 DTMK ) $
```

Prompts

The following table provides the system prompts for the DTMK option.

Input prompts for the DTMK option

Prompt	Valid input	Explanation
SONUMBER	Refer to SONUMBER in the “Prompts” table in Chapter 2 for information on valid inputs.	The unique number of the service order to be entered.
DN_OR_LEN	Refer to DN and LEN_OR_LTID in the “Prompts” table in Chapter 2 for information on valid inputs.	Enter the DN or LEN of the line. In the case of an MDN line or MLH/DLH hunt members, if a DN is specified then the user is prompted for the LEN. If the LEN is entered, then the user is not prompted for the DN.
OPTKEY	2-69 for business sets with the DTMK feature. Primary DN (Key 1) not allowed assignment.	Identifies key on business set or data unit to which an option is assigned.
OPTION	DTMK is the valid input for this feature. Refer to the “Line service options” table in Chapter 2 for a list of valid inputs for other features.	DTMK provides bearer capability on M2008, M2216A, M2216B, M2616, and M2616CT. Option(s) associated with a service to be established, modified, or deleted. A maximum of 20 options can be specified in any single ADD, ADO, EST, or NEW command.

DTMK – Data Mode Key (continued)

DTMK to line class code compatibility

The following table shows DTMK compatibility to LCC.

DTMK to LCC compatibility

Line class code	Compatible?
1FR-1MR:	No
RES:	No
IBN:	No
2FR-10FR:	No
CSD:	No
KEYSET LCCs:	Yes (See Note.)
DATA-PDATA:	No
MADO-MPDA:	No
WATSLCC:	No
COIN LCC:	No
PBX LCC:	No
TWX LCC:	No
ZMD, ZMZPA:	No
Note: The DTMK option is assigned to only one secondary DN key on a set and is restricted to the M2008, M2216A, M2216B, M2616, and M2616CT.	

Assignability

The following functionalities apply to this option:

- set functionality: no
- subset functionality: no
- DN functionality: yes (see note)
- key functionality: no

Note: The DTMK option is assignable to one and only one secondary DN. Also, the LEN associated to that DN must be connected to an Intelligent Peripheral Equiment (IPE) digital line card.

DTMK – Data Mode Key (end)

Option prerequisites

There are no prerequisites for this option.

Feature identification

Functionality: MSL00003 Integrated Voice and Data

Feature number: AX0913, AX0942, AX0947

FXR – Fast Transfer

Description

The FRX option reduces the number of keystrokes required to transfer a call. The FXR option allows the user to transfer a call without conferencing all of the parties first.

Example

The following is an example of the FXR option. This example adds FXR to a line associated with line equipment number (LEN) 0 0 8 15.

Example of the FXR option in prompt mode

```
>ADO
SONUMBER:     NOW  92  5 12 PM
>
DN_OR_LEN:
>0 0 8 15
OPTKEY:
>2
OPTION:
>FXR
FXRRCL:
>Y
TIMER:
>12
OPTKEY:
>$
```

Example of the FXR option in no-prompt mode

```
>ADO $ 0 0 8 15 2 FXR Y 12 $
```

FXR – Fast Transfer (continued)

Prompts

The following table provides the system prompts for the FXR option.

Input prompts for the FXR option

Prompt	Valid input	Explanation
SONUMBER	Refer to SONUMBER in the "Prompts" table in Chapter 2 for information on valid inputs.	The unique number of the service order to be entered.
DN_OR_LEN	Refer to DN and LEN_OR_LTID in the "Prompts" table in Chapter 2 for information on valid inputs.	Enter the DN or LEN of the line. In the case of an MDN line or MLH/DLH hunt members, if a DN is specified then the user is prompted for the LEN. If the LEN is entered, then the user is not prompted for the DN.
OPTION	Refer to the "Line service options" table in Chapter 2 for a list of valid inputs.	Option(s) associated with a service to be established, modified, or deleted. A maximum of 20 options can be specified in any single ADD, ADO, EST, or NEW command.
OPTKEY	1-69 for business set; 1, 2, 3, 4, or 7 for data unit	Identifies the key on a business set or data unit to which an option is assigned.
FXRRCL	Y = Yes, N = No	Fast transfer recall. Enter Y to recall the transferring party when the transferred call is unanswered after a specified time expires. Otherwise, enter N to indicate no call-back. If Y is entered, the TIMER prompt must be completed.
TIMER	12-120	Enter the time in seconds before a fast transfer recall occurs.

FXR – Fast Transfer (continued)

FXR to line class code compatibility

The following table shows FXR compatibility to LCC.

FXR to LCC compatibility

Line class code	Compatible?
1FR-1MR:	No
RES:	No
IBN:	No
2FR-10FR:	No
CSD:	No
KEYSET LCCs:	Yes
DATA-PDATA:	No
MADO-MPDA:	No
WATSLCC:	No
COIN LCC:	No
PBX LCC:	No
TWX LCC:	No
ZMD, ZMZPA:	No

Assignability

The following functionalities apply to this option:

- set functionality: yes
- subset functionality: no
- DN functionality: no
- key functionality: no

Option prerequisites

There are no prerequisites for this option.

Notes

As of MSL05, MBS call supervision is provided to eliminate interactions with 911 Emergency Service.

FXR – Fast Transfer (end)

Feature identification

Functionality: MDC000013

Feature number: AD7662, AD7658

GLISTEN – Group Listen

Description

The GLISTEN option allows the user to turn on the loudspeaker of an M3902, M3903 and M3904 digital terminal at the same time that the handset is in use. This allows a group of people to listen to the audio, but only the handset transmits voice. Handsfree must be enabled to active Group Listen. Group listening differs from Handsfree in that only the loudspeaker, and not the handsfree microphone, is enabled. In addition, the handset is off hook and the audio paths of the handset are functional.

The GLISTEN option is available when enabled and assigned to the terminal through SERVORD. When the feature is not available, it will not show up in the program menu lists.

To use the GLISTEN option, the user must enable the feature by using the options key. When GLISTEN is enabled, the Group Listening icon is visible.

When the GLISTEN option is enabled, the handsfree key turns the speaker on and off. (The handsfree indicator will show the status.) To turn off the speaker, the user presses the handsfree key a second time. The speaker turns on if the handset is off hook. The speaker automatically turns off when the handset is placed on hook.

To activate handsfree when the GLISTEN option is in use, the user must press and hold the handsfree key, place the handset on hook, and release the handsfree key. Alternatively, the user can place the call on hold by pressing the hold key, place the handset on hook, and press the directory number (DN) key that has the held call.

Example

The following is an example of the GLISTEN option using the NEW command. The NEW command is used to prompt the GROUP_LISTEN field when the craftsperson enters Y in the HANDSFREE field.

Example of the option in prompt mode

```
>NEW
SONUMBER: NOW 99 1 1  AM
>
DN_OR_LEN:
> 2461006
LCC_ACC
> M3902
HANDS_FREE:
> Y
GROUP_LISTEN:
> Y
GROUP:
> BNRRCH
SUBGROUP:
> 0
NCOS:
> 0
SNPA:
> 214
KEY:
> 1
RINGING:
> Y
LTG:
> 0
LEN_OR_LTID:
> IPE0 0 0 0 0
OPTEY:
> $
```

The following is an example of the GLISTEN option using the NEW command in no-prompt mode.

Example of the GLISTEN option using the NEW command in no-prompt mode

```
>NEW  $ 2461006 M3902  Y Y BNRRCH 0 0  214 1 Y 0 IPE 00 0 00 0 $
```

GLISTEN – Group Listen (continued)

The following is an example of the GLISTEN option using the NEWACD command when the craftsperson enters Y in the HANDSFREE field.

Example of the GLISTEN option using the NEWACD command

```
>NEWACD
SONUMBER: NOW 99 1 1  AM
>
DN:
> 2461006
ACDSETTYPE:
> AGENT
LCC:
> M3902
HANDS_FREE:
> Y
GROUP_LISTEN:
> Y
GROUP:
> BNRRCH
SUBGROUP:
> 0
NCOS:
> 0
SNPA:
> 214
LATANAME:
> NILLATA
LTG:
> 0
LEN_OR_LTID:
> IPE0 0 0 0 0
ACDGROUP:
> ACDGRP1
ACDSGRP:
> 0
IDNUM:
> Y
POSID:
> 1111
TEMPLATE:
> SUPER
OPTKEY:
> $
```

The following is an example of the GLISTEN option using the NEWACD command in no-prompt mode.

Example of the GLISTEN option using the NEWACD command in no-prompt mode

```
>NEWACD  $  2461006 AGENT M3902 Y Y BNRRCH 0 0 214 NILLATA 0
IPE0 00 0 00 00 ACDGRP1 0 Y 1111 SUPER $ $
```

The following is an example of the GLISTEN option using the EST command when the craftsperson enters Y in the HANDSFREE field.

GLISTEN – Group Listen (continued)

Example of the GLISTEN option using the EST command

```
>EST
SONUMBER: NOW 99 1 1  AM
>
GROUPTYPE:
> MLH
PILOT_DN:
> 9975010
LCC:
> M2616
RINGTYPE:
>FH
HANDS_FREE:
> Y
GROUP:
> BNRRCH
SUBGROUP:
> 0
NCOS:
> 0
SNPA:
> 214
KEY:
> 1
RINGING:
> Y
LTG:
> 0
PILOT_LEN:
> IPE2 02  0 00 16
MEM_LEN:
> IPE01 00  0 00
LINE_CLASS:
> M3902
KEY:
> 1
HANDS_FREE:
> Y
GROUP_LISTENING:
> Y
MEM_LEN:
> $
OPTION:
> $
GROUPSIZE:
> 2
```

The following is an example of the GLISTEN option using the EST command in no-prompt mode.

Example of the GLISTEN option using the EST command in no-prompt mode

```
>EST MLH 9955010 M2616 FH Y BNRRCH 0 0 214 1 Y 0 IPE2 02 0 00 16
 IPE1 01 0 00 00 M3902 1 Y Y  $ $ 2
```

The following is an example of the GLISTEN option using the ADD command when the craftsperson enters Y in the HANDSFREE field.

Example of the GLISTEN option using the ADD command

```
>ADD
SONUMBER: NOW 99 1 1  AM
>
GROUPTYPE:
> MLH
LINK_LEN:
> IPE1 1 0 0 0
KEY:
> 1
MEM_LEN:
> IPE0 0 0 0 14
LINE_CLASS:
> M3903
KEY:
> 1
HANDS_FREE:
> Y
GROUP LISTEN:
> Y
MEM_LEN:
> $
OPTION:
> $
GROUPSIZE:
> 3
```

The following is an example of the GLISTEN option using the ADD command in no-prompt mode.

GLISTEN – Group Listen (continued)

Example of the GLISTEN option using the ADD command in no-prompt mode

```
>ADD MLH  IPE1 01 0 00 1 IPE1 00 0 00 14 M3903 1 Y Y $ $ 3
```

The following is an example of the GLISTEN option using the CHF command to change the value in the GROUP_LISTEN field.

Example of the GLISTEN option using the CHF command

```
>CHF
SONUMBER: NOW 99 1 1  AM
>
DN_OR_LEN:
>9975432
OPTKEY:
> 1
OPTION:
>GLISTEN
GROUP_LISTEN:
> Y
OPTKEY:
> $
```

The following is an example of the GLISTEN option using the CHF command in no-prompt mode.

Example of the GLISTEN option using the CHF command in no-prompt mode

```
>CHF $ 9975432 1 GLISTEN Y  $
```

Prompts

The following table provides the system prompts for the GLISTEN option.

Input prompts for the GLISTEN option

Prompt	Valid input	Explanation
SONUMBER	Refer to SONUMBER in the "Prompts" table in Chapter 2 for information on valid inputs.	The unique number of the service order to be entered.
DN_OR_LEN	Refer to DN and LEN_OR_LTID in the "Prompts" table in Chapter 2 for information on valid inputs.	Enter the DN or LEN of the line. In the case of an MDN line or MLH/DLH hunt members, if a DN is specified then the user is prompted for the LEN. If the LEN is entered, the user is not prompted for the DN.
OPTION	GLISTEN	Enter GLISTEN during initial terminal provisioning in SERVORD.
GROUP_LISTEN	Y or N	Enter Y to activate group listening or N to de-activate group listening.

GLISTEN to line class code compatibility

The following table shows GLISTEN compatibility to LCC.

GLISTEN to LCC compatibility (Sheet 1 of 2)

Line class code	Compatible?
1FR-1MR:	No
RES:	No
IBN:	No
2FR-10FR:	No
CSD:	No
Note: The GLISTEN option is compatible with the M3902, M3903, and M3904 LCCs.	

GLISTEN – Group Listen (continued)

GLISTEN to LCC compatibility (Sheet 2 of 2)

Line class code	Compatible?
KEYSET LCCs:	Yes (See Note.)
DATA-PDATA:	No
MADO-MPDA:	No
WATSLCC:	No
COIN LCC:	No
PBX LCC:	No
TWX LCC:	No
ZMD, ZMZPA:	No
Note: The GLISTEN option is compatible with the M3902, M3903, and M3904 LCCs.	

Assignability

The following functionalities apply to this option:

- set functionality: yes
- subset functionality: no
- DN functionality: no
- key functionality: no

Error messages

The following is a list of possible error messages and explanations.

Error messages and explanations

Error message	Explanation
Group listening requires HANDSFREE. Use the CHF command to add HANDSFREE.	When an attempt is made to add the GLISTEN option by using the CHF command when HANDSFREE is not on the set.
Removing HANDSFREE will also remove group listening.	When an attempt is made to remove HANDSFREE using the CHF command when GLISTEN is on the terminal.

GLISTEN – Group Listen (end)

Option prerequisites

GLISTEN has the following prerequisites:

- Handsfree must be assigned for this option to be enabled.
- Only a craftsperson can assign this option.

Notes

There are no notes for this option.

Feature identification

Functionality: MSL00003

Feature number: 59007124

IDOVR – SMDI ID Override

Description

The new line option MSL100 SMDI ID Override (IDOVR) feature enables the passing of intermediate Directory Numbers (DN) to the Voice Messaging Service (VMS) over SMDI links, allowing the customer to determine which DN's greeting will be presented to the caller in a call forward chain.

Without IDOVR assigned to a line, it is not possible to pass an intermediate DN in a call forward chain. In other words, without IDOVR, either the call forward originating DN or the last forwarding DN is passed to the VMS over SMDI links.

The following scenario explains how the SMDI ID Override feature works if assigned.

Scenario: A call forward chain scenario with three DNs: A, B and C.

IDOVR is assigned to B and B has a voice mailbox on the VMS (APP=Y). In this case, B's DN is forwarded to SMDI links regardless of the options assigned to the SMDI links (B's greeting answers the call).

IDOVR is assigned to B and B does not have a voice mailbox on the VMS (APP=N). In this case, the call forward chain continues to C. C's DN is forwarded instead of B's to the SMDI links, regardless of options assigned to the SMDI links (C's greeting answers the call).

Example: SO command ADO

An example of the SO command ADO for assigning the option in prompt mode follows.

Example of the option in prompt mode

```
SO:
>ADO
SONUMBER:     NOW  99 12 20 PM
>$
DN_OR_LEN:
>0 0 8 5
OPTKEY:
>1
OPTION:
>IDOVR
APP:
>Y
OPTION:
$
COMMAND AS ENTERED
ADO NOW 99 12 20 PM HOST 00 0 08 05 ( 1 IDOVR Y ) $
SHOULD ORDER BE DONE ANYWAY? (Y OR N)
>Y
> QLEN HOST 00 0 08 05
------------------------------------------------------------
--
LEN:     HOST  00 0 08 05
TYPE: SINGLE PARTY LINE
SNPA: 919
DIRECTORY NUMBER:    2462767
LINE CLASS CODE:  M5316 SET
CUSTGRP:              BNR  SUBGRP: 0  NCOS: 0  RING: Y
CARDCODE:  6X21AC    GND: N  PADGRP: STDLN  BNV: NL MNO: Y
PM NODE NUMBER     :    43
PM TERMINAL NUMBER :    262
OPTIONS:

   KEY       DN
   ---       --
     1       DN          9192462767

   KEY     FEATURE
    ---      ---------
    1          IDOVR   Y
```

IDOVR – SMDI ID Override (continued)

An example of the SO command ADO for assigning the option in no-prompt mode follows.

Example of the option in no-prompt mode

```
SO:
> ADO $ 2462767 1 IDOVR Y $
SHOULD ORDER BE DONE ANYWAY? (Y OR N)
>Y
> QLEN HOST 00 0 08 05
-----------------------------------------------
-----------
LEN:     HOST  00 0 08 05
TYPE: SINGLE PARTY LINE
SNPA: 919
DIRECTORY NUMBER:   2462767
LINE CLASS CODE:  M5316 SET
CUSTGRP:           BNR  SUBGRP: 0  NCOS: 0  RING: Y
CARDCODE:  6X21AC    GND: N  PADGRP: STDLN  BNV:
NL MNO: Y
PM NODE NUMBER     :    43
PM TERMINAL NUMBER :    262
OPTIONS:

   KEY       DN
   ---       --
     1       DN          9192462767
```

Example: SO command DEO

An example of the SO command DEO for assigning IDOVR in prompt mode follows:

Example of the IDOVR option in prompt mode

```
SO:
>DEO
SONUMBER:     NOW  99 12 20 PM
>$
DN_OR_LEN:
>0 0 8 5
OPTKEY:
>1
OPTION:
>IDOVR
OPTION:
>$
SHOULD ORDER BE DONE ANYWAY? (Y OR N)
>Y
> QLEN HOST 00 0 08 05
------------------------------------------------------------
LEN:     HOST  00 0 08 05
TYPE: SINGLE PARTY LINE
SNPA: 919
DIRECTORY NUMBER:    2462767
LINE CLASS CODE:  M5316 SET
CUSTGRP:             BNR  SUBGRP: 0  NCOS: 0  RING: Y
CARDCODE:  6X21AC    GND: N  PADGRP: STDLN  BNV: NL MNO: Y
PM NODE NUMBER     :    43
PM TERMINAL NUMBER :    262
OPTIONS:

   KEY       DN
   ---       --
     1       DN          9192462767

   KEY     FEATURE
           NONE
```

IDOVR – SMDI ID Override (continued)

Example of the IDOVR option in no-prompt mode

```
SO:
> DEO $ 2462767 1 IDOVR $
SHOULD ORDER BE DONE ANYWAY? (Y OR N)
>Y
> QLEN HOST 00 0 08 05
------------------------------------------------------------
LEN:     HOST  00 0 08 05
TYPE: SINGLE PARTY LINE
SNPA: 919
DIRECTORY NUMBER:    2462767
LINE CLASS CODE:  M5316 SET
CUSTGRP:              BNR  SUBGRP: 0  NCOS: 0  RING: Y
CARDCODE:  6X21AC     GND: N  PADGRP: STDLN  BNV: NL MNO: Y
PM NODE NUMBER     :    43
PM TERMINAL NUMBER :    262
OPTIONS:
   KEY       DN
   ---       --
     1       DN          9192462767
```

Example: SO Command CHF

Example of SO command CHF to assign IDOVR option in prompt mode:

```
> QLEN HOST 00 0 08 05
------------------------------------------------------------
LEN:     HOST  00 0 08 05
TYPE: SINGLE PARTY LINE
SNPA: 919
DIRECTORY NUMBER:     2462767
LINE CLASS CODE:  M5316 SET
CUSTGRP:              BNR  SUBGRP: 0  NCOS: 0  RING: Y
CARDCODE:  6X21AC     GND: N  PADGRP: STDLN  BNV: NL MNO: Y
PM NODE NUMBER      :    43
PM TERMINAL NUMBER :    262
OPTIONS:
   KEY       DN
   ---       --
     1       DN          9192462767
   KEY     FEATURE
    ---       --------
    1           IDOVR    N
------------------------------------------------------------
SO:
>CHF
SONUMBER:     NOW  99 12 20 PM
>$
DN_OR_LEN:
>0 0 8 5
OPTKEY:
>1
OPTION:
>IDOVR
APP:
>Y
OPTION:
>$
SHOULD ORDER BE DONE ANYWAY? (Y OR N)
>Y
> QLEN HOST 00 0 08 05
------------------------------------------------------------
LEN:     HOST  00 0 08 05
TYPE: SINGLE PARTY LINE
SNPA: 919
DIRECTORY NUMBER:     2462767
LINE CLASS CODE:  M5316 SET
CUSTGRP:              BNR  SUBGRP: 0  NCOS: 0  RING: Y
CARDCODE:  6X21AC     GND: N  PADGRP: STDLN  BNV: NL MNO: Y
PM NODE NUMBER      :    43
PM TERMINAL NUMBER :    262
OPTIONS:
   KEY       DN
   ---       --
     1       DN          9192462767

   KEY     FEATURE
```

IDOVR – SMDI ID Override (continued)

Example of IDOVR in No-Prompt Mode

```
SO:
> DEO $ 2462767 1 IDOVR $
SHOULD ORDER BE DONE ANYWAY? (Y OR N)
>Y
> QLEN HOST 00 0 08 05
------------------------------------------------------------
LEN:     HOST  00 0 08 05
TYPE: SINGLE PARTY LINE
SNPA: 919
DIRECTORY NUMBER:    2462767
LINE CLASS CODE:  M5316 SET
CUSTGRP:             BNR  SUBGRP: 0  NCOS: 0  RING: Y
CARDCODE:  6X21AC    GND: N  PADGRP: STDLN  BNV: NL MNO: Y
PM NODE NUMBER     :    43
PM TERMINAL NUMBER :    262
OPTIONS:

   KEY       DN
   ---       --
     1       DN          9192462767
```

Example: SO command NEW

Assign IDOVR in prompt-mode with SO command NEW:

```
SO:
>NEW
SONUMBER:     NOW  99 12 20 PM
>$
DN:
>2462767
LCC_ACC:
>m5316
GROUP:
>bnr
SUBGRP:
>0
NCOS:
>0
SNPA:
>919
KEY:
>1
RINGING:
>n
LATANAME:
>nillata
LTG:    0
>
LEN_OR_LTID:
>0 0 8 5
OPTKEY:
>1
OPTION:
> IDOVR
APP:
> Y
OPTION:
>$
SHOULD ORDER BE DONE ANYWAY? (Y OR N)
>Y
> QLEN HOST 00 0 08 05
------------------------------------------------------------
LEN:     HOST  00 0 08 05
TYPE: SINGLE PARTY LINE
SNPA: 919
DIRECTORY NUMBER:    2462767
LINE CLASS CODE:  M5316 SET
CUSTGRP:             BNR  SUBGRP: 0  NCOS: 0  RING: Y
CARDCODE:  6X21AC    GND: N  PADGRP: STDLN  BNV: NL MNO: Y
PM NODE NUMBER     :    43
PM TERMINAL NUMBER :    262
OPTIONS:
   KEY       DN
   ---       --
     1       DN          9192462767
   KEY     FEATURE
    ---      --------
      1        IDOVR   Y
```

IDOVR – SMDI ID Override (continued)

IDOVR in no-prompt mode

```
SO:
> NEW $ 2462767 M5316 BNR 0 0 919 1 N NILLATA 0 HOST 00 0 08 05
(1 IDOVR Y) $
SHOULD ORDER BE DONE ANYWAY? (Y OR N)
>Y
> QLEN HOST 00 0 08 05
------------------------------------------------------------
LEN:     HOST  00 0 08 05
TYPE: SINGLE PARTY LINE
SNPA: 919
DIRECTORY NUMBER:     2462767
LINE CLASS CODE:  M5316 SET
CUSTGRP:              BNR  SUBGRP: 0  NCOS: 0  RING: Y
CARDCODE:  6X21AC     GND: N  PADGRP: STDLN  BNV: NL MNO: Y
PM NODE NUMBER      :     43
PM TERMINAL NUMBER :     262
OPTIONS:

   KEY        DN
   ---        --
     1        DN           9192462767

   KEY      FEATURE
   ---      --------
```

Prompts

The table that follows provides the system prompts for the option.

Input prompts for the option

Prompt	Correct input	Explanation
APP	Y/N	Representation of voice mail box on VMS for the DN to which the feature is assigned.

to line class code compatibility

The table that follows provides to LCC compatibility.

to LCC compatibility

Line class code	Compatible?
ALL*	Yes
*1FR and multi FR lines are not supported in the MSL100 market. Otherwise, IDOVR is applicable on a per-DN basis.	

Assignability

The functionalities that follow apply to this option:

- set functionality: no
- subset functionality: no
- DN functionality: yes
- key functionality: no

Option prerequisites

There are no prerequisites for this option.

Notes

There are no notes for this option.

Feature identification

Functionality: SMDI ID Override

Feature number: A59019794

IPCLIENT – IP Client

Description

The IP Client Manager (IPCM) is a UNIStim telephone gateway that hosts several models of IP phones in a Communication Server 2100 or Meridian SL-100 network.

FOR MORE INFORMATION

For a detailed description of the IP Client Manager, see the "Gateways" chapter (for CS 2100 configurations) or the "Meridian SL-100 peripherals" chapter (for Meridian SL-100 configurations) of the *Meridian SL-100/Communication Server 2100 Product Guide*.

Prior to this feature, technicians provisioned IP phones as M5216 sets on the switch using the M5216 Line Class Code (LCC). However, there was no indication in the core of a line being an IPCM line (for example, as in a QLEN or QDN output).

The Line Option for IPCM Phones feature delivers the IPCLIENT line option. This option distinguishes lines with actual M5216 phones from IPCM lines that have UNIStim phones. The Line Option for IPCM Phones feature provides the ability to use SERVORD to provision the IPCLIENT option to indicate that a line with the M5216 LCC is an IPCM line.

You can assign or remove the IPCLIENT option from a line using the following SERVORD commands:

- NEW
- NEWACD
- ADO
- EST
- ADD
- DEO

In addition, the COPYSET, CKLN and CHF commands are supported.

End users have the ability to "hot-desk" from IPCM phone to IPCM phone. However, hot-desking may not occur that frequently and there may be a phone that is the end-user's primary phone. Therefore, when

IPCLIENT – IP Client (continued)

IPCLIENT is entered as an option, the system prompts the technician for the primary set type. The available options are as follows:

- I2001
- I2002
- I2004
- SOFTCLIENT
- OTHER

Lines assigned the IPCLIENT option are indicated as IP clients in the output of query commands such as QLEN, QDN, QLENWRK, QDNWRK and QCUST.

The count of M5216 lines with the IPCLIENT option assigned appears in the COUNTALL OPT output. For DMSMON and ALMSTAT line output and COUNTALL output by Line Class Code, IPCM lines continue to be counted as M5216 lines.

Example: NEW IPCLIENT option SERVORD configuration

The NEW command establishes service for all non hunt lines. An example of the option in prompt mode follows.

NEW IPCLIENT option SERVORD configuration example (Sheet 1 of 2)

```
>NEW
SONUMBER:      NOW   3  9 15 PM
>
DN:
>9975890
LCC_ACC:
>M5216
GROUP:
>BNRRCH
SUBGRP:
>0
NCOS:
>0
SNPA:
>214
KEY:
>1
```

IPCLIENT – IP Client (continued)

NEW IPCLIENT option SERVORD configuration example (Sheet 2 of 2)

```
RINGING:
>y
LTG:
>0
LEN_OR_LTID:
>IPCM 00 0 00 10
OPTKEY:
>1
OPTION:
>IPCLIENT
PRIM_SET_TYPE:
>I2004
OPTKEY:
>$
COMMAND AS ENTERED:
NEW NOW 3 9 15 PM 9975890 M5216 BNRRCH 0 0 214 1 Y 0 IPCM 00 0 00 10
(1 IPCLIENT I2004) $
ENTER Y TO CONFIRM,N TO REJECT OR E TO EDIT
>y
MACHINES ARE OUT OF SYNC, SERVICE ORDERS NOT ALLOWED
JOURNAL FILE IS INACTIVE, SERVICE ORDERS NOT ALLOWED
SHOULD ORDER BE DONE ANYWAY? (Y OR N)

Unprompted:

NEW $ 9975890 M5216 BNRRCH 0 0 214 1 Y 0 IPCM  00 0 00 10 1 IPCLIENT I2004
```

Example: NEWACD IPCLIENT option SERVORD configuration

The NEWACD command establishes initial service for a new Automatic Call Distribution (ACD) business set. An example of the option in prompt mode follows.

NEWACD IPCLIENT option SERVORD configuration example (Sheet 1 of 2)

```
>NEWACD
SONUMBER:     NOW   3  9 15 PM
>
DN:
>9975890
ACDSETTYPE:
>AGENT
```

NEWACD IPCLIENT option SERVORD configuration example (Sheet 2 of 2)

```
>AGENT
LCC:
>M5216
GROUP:
>BNRRCH
SUBGRP:
>0
NCOS:
>0
SNPA:
>214
LATANAME:
>NILLATA
LEN_OR_LTID:
>IPCM 00 0 00 10
ACDGROUP:
>SCAIGRP1
ACDSGRP:
>1
IDNUM:
>Y
POSID:
>5890
TEMPLATE:
>AGENTTEMP
TEMPLATE:
>$
OPTKEY:
>1
OPTION
>IPCLIENT
PRIM_SET_TYPE
>I2004
OPTKEY:
>$
COMMAND AS ENTERED:
NEWACD NOW 3 9 15 PM 9975890 AGENT M5216 BNRRCH 0 0 214 NILLATA IPCM 00 0
00 10 SCAIGRP1 1 Y 5890 ( AGENTTEMP) $ ( 1 IPCLIENT I2004 ) $
ENTER Y TO CONFIRM,N TO REJECT OR E TO EDIT
>y
MACHINES ARE OUT OF SYNC, SERVICE ORDERS NOT ALLOWED
JOURNAL FILE IS INACTIVE, SERVICE ORDERS NOT ALLOWED
SHOULD ORDER BE DONE ANYWAY? (Y OR N)

Unprompted:

NEWACD $ 9975890 AGENT M5216 BNRRCH 0 0 214 NILLATA IPCM 00 0 00 10 SCAIGRP1
1 Y 5890 AGENTTEMP $ 1 IPCLIENT I2004 $ Y Y
```

IPCLIENT – IP Client (continued)

Example: ADO IPCLIENT option SERVORD configuration

The ADO command add options to individual lines and hunt group members. An example of the option in prompt mode follows.

ADO IPCLIENT option SERVORD configuration example

```
>ADO
SONUMBER:     NOW   3 10 27 PM
>
DN_OR_LEN:
>9975890
OPTKEY:
>1
OPTION:
>IPCLIENT
PRIM_SET_TYPE:
>I2004
OPTKEY:
>$
COMMAND AS ENTERED:
ADO NOW 3 10 27 PM 9975890 ( 1 IPCLIENT I2004) $
ENTER Y TO CONFIRM,N TO REJECT OR E TO EDIT
>Y
JOURNAL FILE IS INACTIVE, SERVICE ORDERS NOT ALLOWED
SHOULD ORDER BE DONE ANYWAY? (Y OR N)
>Y

Unprompted:

ADO $ 9975890 1 IPCLIENT I2004 $ Y Y
```

Example: DEO IPCLIENT option SERVORD configuration

The DEO command deletes options from individual lines and hunt group members. An example of the option in prompt mode follows.

DEO IPCLIENT option SERVORD configuration example

```
>DEO
SONUMBER:     NOW   3 10 29 PM
>
DN_OR_LEN:
>9975890
OPTKEY:
>1
OPTION:
>IPCLIENT
OPTKEY:
>$
COMMAND AS ENTERED:
DEO NOW 3 10 29 PM 9975890 ( 1 IPCLIENT ) $
ENTER Y TO CONFIRM,N TO REJECT OR E TO EDIT
>Y
MACHINES ARE OUT OF SYNC, SERVICE ORDERS NOT ALLOWED
JOURNAL FILE IS INACTIVE, SERVICE ORDERS NOT ALLOWED
SHOULD ORDER BE DONE ANYWAY? (Y OR N)
>Y

Unprompted:

DEO $ 9975890 1 IPCLIENT $ Y Y
```

IPCLIENT – IP Client (continued)

Example: EST IPCLIENT option SERVORD configuration

The EST command establishes hunt groups. An example of the option in prompt mode follows.

EST IPCLIENT option SERVORD configuration example (Sheet 1 of 2)

```
>EST
SONUMBER:     NOW   3  9 24 AM
>
GROUPTYPE:
>MLH
PILOT_DN:
>9975890
LCC:
>M5216
GROUP:
>BNRRCH
SUBGRP:
>0
NCOS:
>0
SNPA:
>214
KEY:
>1
RINGING:
>Y
PILOT_LEN:
>IPCM 00 0 0 10
MEM_LEN:
>$
OPTION:
>IPCLIENT
PRIM_SET_TYPE:
>I2004
GROUPSIZE:
>3
```

EST IPCLIENT option SERVORD configuration example (Sheet 2 of 2)

```
ENTER Y TO CONFIRM,N TO REJECT OR E TO EDIT
>Y
MACHINES ARE OUT OF SYNC, SERVICE ORDERS NOT ALLOWED
JOURNAL FILE IS INACTIVE, SERVICE ORDERS NOT ALLOWED
SHOULD ORDER BE DONE ANYWAY? (Y OR N)
>Y
WARNING - MNO (MANUAL OVERRIDE) FIELD HAS BEEN SET TO Y
>
Unprompted:
EST $ MLH 9975890 M5216 BNRRCH 0 0 214 1 Y IPCM 00 0 00 10 $ IPCLIENT I2004 3 Y Y
```

Example: ADD IPCLIENT option SERVORD configuration

The ADD command adds hunt group members. Only DNH, DLH and MLH type groups are supported. In addition, tuple HNT_SO_SIMPLIFICATION must be set to “Y” in Table OFCOPT and tuple PROMPT_HUMT_MEM_LCC must be set to “Y” in Table OFCVAR for the Line_Class prompt to appear. An example of the option in prompt mode follows.

IPCLIENT – IP Client (continued)

ADD IPCLIENT option SERVORD configuration example

```
>ADD
SONUMBER:     NOW   3  9 24 AM
>
GROUPTYPE:     MLH
>
LINK_LEN: IPCM  00 0 00 10  1
>
KEY:
>1
MEM_LEN:
>IPCM 00 0 00 09
LINE_CLASS:
>M5216
KEY:
>2
MEM_LEN:
>$
OPTION:
>IPCLIENT
PRIM_SET_TYPE:
>SOFTCLIENT
GROUPSIZE:
>2
COMMAND AS ENTERED:
ADD NOW 3 9 24 AM MLH IPCM 00 0 00 10 1 ( IPCM 00 0 00 09 M5216 2 ) $ IPCLIENT
SOFTCLIENT 2
ENTER Y TO CONFIRM,N TO REJECT OR E TO EDIT
>Y
MACHINES ARE OUT OF SYNC, SERVICE ORDERS NOT ALLOWED
JOURNAL FILE IS INACTIVE, SERVICE ORDERS NOT ALLOWED
SHOULD ORDER BE DONE ANYWAY? (Y OR N)
>Y
WARNING - MNO (MANUAL OVERRIDE) FIELD HAS BEEN SET TO Y
Unprompted:
ADD $ MLH IPCM 00 0 00 10 1 IPCM 00 0 00 09 M5216 2 $ IPCLIENT SOFTCLIENT 2 Y Y
```

Example: CHF IPCLIENT option SERVORD configuration

The CHF command changes feature data for options on a line. You can change the primary set type with the CHF command. An example of the option in prompt mode follows.

CHF IPCLIENT option SERVORD configuration example

```
>CHF
SONUMBER:     NOW   3 10 29 PM
>
DN_OR_LEN:
>9975890
OPTKEY:
>1
OPTION:
>IPCLIENT
PRIM_SET_TYPE:
>I2002
OPTKEY:
>$
COMMAND AS ENTERED:
CHF NOW 3 10 29 PM 9975890 ( 1 IPCLIENT I2002 ) $
ENTER Y TO CONFIRM,N TO REJECT OR E TO EDIT
>Y
MACHINES ARE OUT OF SYNC, SERVICE ORDERS NOT ALLOWED
JOURNAL FILE IS INACTIVE, SERVICE ORDERS NOT ALLOWED
SHOULD ORDER BE DONE ANYWAY? (Y OR N)
>Y

Unprompted:

CHF $ 9975890 1 IPCLIENT I2002 $ Y Y
```

IPCLIENT – IP Client (continued)

Prompts

The table that follows provides the system prompts for the option.

Input prompts for the option

Prompt	Correct input	Explanation	Areas affected by prompts
OPTION	IPCLIENT	Assign IPCLIENT to lines configured with IP terminals.	PRIM_SET_TYPE which has the following valid responses: • I2001 • I2002 • I2004 • SOFTCLIENT • OTHER

Line class code compatibility

This activity introduces the IPCLIENT line option. It can only be assigned to a line with an M5216 LCC. It must be assigned to key 1. It does not have any incompatibilities with other options.

Meridian Digital Centrex feature assignment requirements

Feature	500 2500	MDC SET	ISDN SET	MDC Set ISDN Set Relationship							
				SET	SUBSET	KEY	DN	DEDKEY	LAMP	CODE	DISPLAY
IPCLIENT				**X**							

Assignability

The functionalities that follow apply to this option:

- set functionality: no
- subset functionality: no
- DN functionality: no
- key functionality: no

IPCLIENT – IP Client (end)

Option prerequisites

Not applicable.

Notes

This option supports the Redundant Feature capability. For Redundant Feature support, tuples SO_ALLOW_REDUNDANT_FEATURE and SO_ALLOW_REDUNDANT_FEATURE_CHF must be set to “Y” in Table OFCVAR.

By having the Redundant Feature capability, the IPCLIENT option can be assigned to a line using the ADO command that already has the option assigned. If the ADO command includes a different primary set type, the command works like the CHF command.

Using the CHF command to attempt to change the Primary Set Type on a line that does not have IPCLIENT assigned has the same affect as assigning the option with the ADO command.

With the Redundant Feature capability, deleting the IPCLIENT option from a line without the option assigned using the DEO command will not cause an error.

Feature identification

The feature number for Line Option for IPCM Phones is A00003653.

JOIN – Call Join

Description

The JOIN option allows a Meridian business set (MBS) or integrated voice and data set (IVD) user to add a held call onto the second leg of a Conference call (CNF) or Three Way Call (3WC). The user can also conference all parties if necessary. This feature works in conjunction with the CNF or 3WC key and requires Join be assigned to the set.

The CNF option allows a user to establish a call on an MBS set by dialing and adding a potential conferee to a conference call with the CNF key. The 3WC option allots the same feature capability to conference parties in by dialing the third party and adding them by use of the 3WC key.

The JOIN option enables the MBS or IVD user to conference a held party into an active call without having to drop and redial the held party.

This feature uses either the CNF or 3WC key in the process of adding the held party to the conference.

This feature extends the existing MBS conference and 3WC operation.

Operation

Conference Join

The following must be present before beginning a conference join operation:

- A CNF key
- The JOIN option must be assigned to the MBS or IVD sets.
- The user must be on an active call.
- A call that is to be joined must be on hold on the same MBS or IVD sets.

The conference controller performs a Conference Join operation as follows:

- Another call on a secondary directory number (SDN) is on hold.
- While on Active call, press the CNF key.
- Receive special dial tone. The CNF lamp lights, and the PDN lamp flashes.
- Press the HOLD DN key to add the held call to the conference. The dial tone stops, the CNF lamp remains solid, and the controller is

placed in private consult mode with the added party. The lamp of the HOLD key extinguishes. The display updates as necessary.

Note: The remainder of the operation works like the existing MBS 30-port conference functionality.

- While the controller converses with the private party, the controller can return to the conference by pressing the DN key. The private party is placed on hold. The CNF lamp flashes and the PDN lamp becomes solid. To return to the party on hold press the CNF key. The controller can switch back and forth as necessary.
- To add the party to the conference, press the CNF key again. The CNF lamp extinguishes and the PDN lamp becomes solid. A conference tone alerts the conferees that a party is joining the conference. The tone is applied when a party exits the conference as well.

3WC Join

The following must be present before beginning a conference join operation:

- A CNF key
- The JOIN option must be assigned to the MBS or IVD sets.
- The user must be on an active call.
- A call that is to be joined must be on hold on the same MBS or IVD sets.

A 3WC conference controller performs a 3WC Join operation as follows:

- Press the 3WC key and receive special dial tone. The 3WC lamp lights and the active DN lamp flashes.
- Press the HELD call key to add the held call to the second leg of the three way call. The dial tone stops, the 3WC lamp remains solid and the controller converses with the private party. The lamp of the HOLD key extinguishes. The display updates accordingly.

Note: The remainder of the operation works like the existing 3WC functionality.

- Once the controller is conversing with the private party, the controller can return to the conference by pressing the PDN key. The private party is placed on hold, the 3WC lamp flashes, and the

JOIN – Call Join (continued)

PDN lamp becomes solid. To return to the party on hold, the controller can switch back and forth as necessary.

- To add the party to the conference, press 3WC. The 3WC lamp extinguishes and the PDN lamp becomes solid. A conference tone alerts the conferees that a party is joining the 3WC conference. The tone is applied as parties exit the conference as well.
- To drop the private party added, the controller presses the 3WC key a second time.

Example

The following is an example of the Call Join option.

```
>ADO
SONUMBER: NOW 96 2 14 AM
>
DN_OR_LEN
> 2642000
OPTKEY:
> 1
OPTION:
>JOIN
OPTKEY:
> $
```

Prompts

The following table provides the system prompts for the Call Join option.

Input prompts for the Call Join option

Prompt	Valid input	Explanation
SONUMBER	Refer to SONUMBER in the “Prompts” table in Chapter 2 for information on valid inputs.	The unique number of the service order to be entered.
DN_OR_LEN	Refer to DN and LEN_OR_LTID in the “Prompts” table in Chapter 2 for information on valid inputs.	Enter the line's DN or LEN. In the case of an MDN line or MLH/DLH hunt members, if a DN is specified then the user is prompted for the LEN. If the LEN is entered, then the user is not prompted for the DN.
OPTKEY	1-69 for business set.	Enter key 1. Identifies key on business set or data unit to which an option is assigned.
OPTION	Refer to the “Line service options” table in Chapter 2 for a list of valid inputs.	Enter Join. Option(s) associated with a service to be established, modified, or deleted. A maximum of 20 options can be specified in any single ADD, ADO, EST, or NEW command.

JOIN – Call Join (continued)

Call Join to line class code compatibility

The following table shows Call Join compatibility to LCC.

Call Join to LCC compatibility

Line class code	Compatible?
1FR-1MR:	No
RES:	No
IBN:	No
2FR-10FR:	No
CSD:	No
KEYSET LCCs:	Yes
DATA-PDATA:	No
MADO-MPDA:	No
WATSLCC:	No
COIN LCC:	No
PBX LCC:	No
TWX LCC:	No
ZMD, ZMZPA:	No

Assignability

The following functionalities apply to this option:

- set functionality: yes
- subset functionality: no
- DN functionality: no
- key functionality: no

Option prerequisites

Call Join has the following prerequisites:

Call Join must have the CNF or 3WC feature assigned prior to activation.

Interactions

After the private leg of a CNF call is established, the MBS 30-port conference feature handles further interactions through the remainder of the call.

After the private leg of a 3WC conference is established, the 3WC feature handles further interactions through the remainder of the call.

The following feature interactions are specific to the Join feature:

- Attendant Console: If the held call to be joined is extended from an attendant console, then the join is not allowed. The controller receives NACK treatment.
- Call Waiting: Only an answered call on a Call Waiting key is joined.
- Call Transfer: The call transfer type applies to the 3WC Join.
- Flexible Station Controlled Conference, Meet-Me Conference, Preset Conference: If the held call is part of another conference, the join is not allowed. The controller receives NACK treatment.
- 3WC: If the call to be joined is a terminating leg of another 3WC the join is not allowed. The controller receives NACK treatment.
- MADN: The existing feature interactions with MBS conference and 3WC also apply to the Join feature.
  - If the controller is on a MADN bridged call, then Conference Join is not allowed.
  - 3WC Join is allowed on a MADN bridged call by controller.
  - If the held call is part of a MADN bridged call, it is not allowed.
- If the held call to be joined is connected to a remote 3WC, Flexible Station Controlled Conference, Meet-Me Conference, or Preset Conference by means of a trunk, the 3WC or CNF Call Join operation can join the call successfully.
- A held MADN SCA call can only be joined from the same set as the MADN member that placed the call on hold. Any other member of the MADN group must first become the active member on the call and place the call on hold before the held MADN SCA call can be joined.

JOIN – Call Join (continued)

Limitations and Restrictions

The call to be joined by this feature must be in the held state, and of one of the following call appearance:

- DN
- Intercom
- Group Intercom
- Call Waiting
- ACD Incalls
- UCD
- MADN

Call Join is restricted to MBS and IVD sets only.

The existing limitations and restrictions of Station Controlled Conference and 3WC apply to the Join operation where applicable.

The existing conference and 3WC functionality applies to Join where applicable. Example, Call transfer limitations that apply to conference apply to Join.

The operational differences between CNF and 3WC is maintained in the Join feature where applicable. An example would be the number of ports allowed for CNF or 3WC.

If CNF or 3WC are assigned to the PDN, activation codes can be used as Join is compliant with existing operation.

Join is not supported through the Access Feature Group or Power Features.

Notes

The following conference features are not affected by the Conference Join feature:

- Preset conference
- Meet me conference

When Join is denied due to error condition, the conference controller receives negative acknowledgement (NACK) treatment.

An error condition occurs when the held call is on a call appearance, but cannot be joined because it is part of another conference, 3WC, or extended from the attendant console.

The Join option is only assigned to the PDN of the MBS or IVD set. A check is made by the system to ensure CNF or 3WC is assigned.

Feature identification

Functionality: MSL0007 Station Features

Feature number: AX0941

KBA – Key Based Access Expansion Accessory

Description

The KBA option allows M3904 and M3905 terminal users to add the key-based access expansion module. The KBAs are equipped with 22 keys that can be used as additional keys beyond the currently available physical and self-labeled programmable feature keys on the specified Meridian Digital terminals. These additional keys can be used as a directory number or feature keys.

The M3904 and M3905 Meridian digital terminals have 32 keys. These terminals can support up to two KBAs with 22 keys each. Therefore, with one KBA, the key numbers are from 1 to 54. With two KBAs, the key numbers are from 1 to 76.

Commands NEW, NEWACD, ADO, DEO and CHF can be used with the KBA option. These commands allow the KBA option to be added, changed, or deleted.

Example

The following is an example of the KBA using the ADO command.

Example of the KBA option using the ADO command

```
>ADO
SONUMBER: NOW 99 1 1  AM
>
DN_OR_LEN:
> HOST 4 0 9 8
OPTKEY:
> 1
OPTION:
>KBA
KBA_COUNT:
> 1
OPTKEY:
> $
```

The following is an example of the KBA option using the ADO command in no-prompt mode.

KBA – Key Based Access Expansion Accessory (continued)

Example of the KBA option using the ADO command in no-prompt mode

```
>ADO  $  HOST 04 0 09 08 1 KBA 1 $
```

The following is an example of the KBA option using the NEW command.

Example of the KBA option using the NEW command

```
>NEW
SONUMBER: NOW 99 1 1  AM
>
DN_OR_LEN:
> 8052461006
LCC_ACC
> M3904
HANDS_FREE:
>Y
GROUP_LISTEN:
>Y
GROUP:
> NV
SUBGROUP:
> 0
NCOS:
> 0
SNPA:
> 919
KEY:
> 1
RINGING:
> Y
LTG:
> 0
LEN_OR_LTID:
> IPE2 2 0 8 14
OPTKEY:
> 1
OPTION:
> KBA
KBA_COUNT:
> 1
OPTKEY:
> $
```

KBA – Key Based Access Expansion Accessory (continued)

The following is an example of the KBA option using the NEW command in no-prompt mode.

Example of the KBA option using the NEW command in no-prompt mode

```
>NEW  $ 8052461006  M3904 Y Y 0 0 1 Y 0 IPE 02 0 08 14 1 KBA  $
```

Prompts

The following table provides the system prompts for the KBA option.

Input prompts for the KBA option

Prompt	Valid input	Explanation
SONUMBER	Refer to SONUMBER in the “Prompts” table in Chapter 2 for information on valid inputs.	The unique number of the service order to be entered.
DN_OR_LEN	Refer to DN and LEN_OR_LTID in the “Prompts” table in Chapter 2 for information on valid inputs.	Enter the DN or LEN of the line. In the case of an MDN line or MLH/DLH hunt members, if a DN is specified then the user is prompted for the LEN. If the LEN is entered, the user is not prompted for the DN.
OPTKEY	1	Key 1 is the only key associated with the KBA option.
OPTION	KBA	Specifies the KBA option.
KBA_COUNT	1 or 2	Specifies 1 or 2 add-on units with 22 keys per unit.

KBA – Key Based Access Expansion Accessory (continued)

KBA to line class code compatibility

The following table shows KBA compatibility to LCC.

KBA to LCC compatibility

Line class code	Compatible?
1FR-1MR:	No
RES:	No
IBN:	No
2FR-10FR:	No
CSD:	No
KEYSET LCCs:	Yes (See Note.)
DATA-PDATA:	No
MADO-MPDA:	No
WATSLCC:	No
COIN LCC:	No
PBX LCC:	No
TWX LCC:	No
ZMD, ZMZPA:	No
Note: The KBA option is compatible with the M3904 and M3905 LCCs.	

Assignability

The following functionalities apply to this option:

- set functionality: yes
- subset functionality: no
- DN functionality: yes
- key functionality: no

KBA – Key Based Access Expansion Accessory (continued)

Option prerequisites

KBA has the following prerequisites:

- Requires the SERVORD to activate the add-on units before the additional keys on these units can be provisioned.
- Only terminals M3904 and M3905 can be provisioned with the KBA option.

Error messages

The following is a list of possible error messages and explanations.

Error messages and explanations (Sheet 1 of 2)

Error message	Explanation
KBA did NOT pass checking.	This message accompanies the following error messages.
KBA is already assigned to the key. This set already has the KBA option. To change KBA information, use the CHF command.	An attempt is made to add the KBA option when the M3904 or M3905 terminal already has KBA assigned.
This set has no KBA option to change.	An attempt is made to change the KBA option when the M3904 or M3905 terminal when the KBA is not assigned.
KBA 22 key addon option cannot be associated with this set type.	An attempt is made to assign the KBA option to a terminal other than the M3904 or M3905 terminal.
KBA cannot be added using ADD command.	An attempt is made to add the KBA option through the ADD command.
KBA cannot be added using EST command.	An attempt is made to add the KBA option through the EST command.
KBA must be assigned to key 1.	An attempt is made to add the KBA option to any key other than key 1.
Option specified is not on key : <key no>	An attempt is made to delete the KBA option to any key other than key 1.
This set already has the KBA option.	An attempt is made to add the KBA option to a terminal that already has the KBA option.
DBA and KBA are not compatible.	An attempt is made to add the DBA option to a terminal that already has the KBA option.

KBA – Key Based Access Expansion Accessory (end)

Error messages and explanations (Sheet 2 of 2)

Error message	Explanation
Set must first exist in table IVDINV for this operation.	An attempt is made to add the KBA option to a LEN that does not exist in table IVDINV.
Features/DNs must be removed from the addon before it can be deleted.	An attempt is made to remove the KBA option from the terminal before removing features or DNs assigned to the add-on unit.

Notes

There are no notes for this option.

Feature identification

Functionality: MSL00003

Feature number: 59007106

MOT – Music on Transfer

Description

The MOT option provides audio to the held party of a three-way call (3WC) or call transfer (CXR) when the conference or transfer is initiated.

When caller A is transferred or conferenced by caller B to caller C, caller A is connected to an audio source such as music. When the call is completely transferred or conferenced, or the second leg is dropped by caller B, the call is reestablished on the line and the audio sources is terminated.

Example

The following is an example of the MOT option assigned to a keyset using the NEW command.

Example of the MOT option assigned to a keyset using the NEW command

```
>NEW
SONUMBER: NOW 99 1 1 AM
>
DN_OR_LEN:
> 2461006
LCC_ACC
> M5316
GROUP:
>BNR
SUBGROUP
> 0
NCOS:
> 0
SNPA:
> 919
KEY:
> 1
RINGING:
> Y
LEN_OR_LTID:
> 00 0 00 20
OPTKEY:
> 1
OPTION:
> MOT
OPTKEY:
> $
```

The following is an example of the MOT option assigned to a keyset using the NEW command in no-prompt mode.

Example of the MOT option assigned to a keyset using the NEW command in no-prompt mode

```
>NEW  $ 2461006 M5316 BNR 0 0 919 1 Y  00 0 0 20 1 MOT $
```

The following is an example of the MOT option assigned to an IBN set using the NEW command in the prompt mode.

Example of the MOT option assigned to an IBN set using the NEW command in the prompt mode

```
>NEW
SONUMBER: NOW 99 1 1 AM
>
DN:
> 2461006
LCC_ACC
> IBN
GROUP:
>BNR
SUBGROUP
> 0
NCOS:
> 0
SNPA:
> 919
LEN_OR_LTID:
> 00 0 06 3
OPTION:
> MOT
OPTION:
> $
```

The following is an example of the MOT option assigned to an IBN set using the NEW command in no-prompt mode.

Example of the MOT option assigned to an IBN set using the NEW command in no-prompt mode

```
>NEW  $ 2461006 IBN BNR 0 0 919 0 00 06 03 MOT $
```

MOT – Music on Transfer (continued)

The following is an example of the MOT option assigned to a keyset using the ADO command.

Example of the MOT option assigned to a keyset using the ADO command

```
>ADO
SONUMBER: NOW 99 1 1 AM
>
DN_OR_LEN
> 2461120
OPTKEY:
> 1
OPTION:
>MOT
OPTKEY:
> $
```

The following is an example of the MOT option assigned to a keyset using the ADO command in no-prompt mode.

Example of the MOT option assigned to a keyset using the ADO command in no-prompt mode

```
>ADO $  2461120 1 MOT $
```

The following is an example of the MOT option assigned to an IBN set using the ADO command.

Example of the MOT option assigned to an IBN set using the ADO command

```
>ADO
SONUMBER: NOW 99 1 1 AM
>
DN_OR_LEN
> 2461120
OPTION:
> MOT
OPTION:
>$
```

The following is an example of the MOT option assigned to an IBN set using the ADO command in no-prompt mode.

Example of the MOT option assigned to a keyset using the ADO command in no-prompt mode

```
>ADO $ 2461120  MOT $
```

Prompts

The following table provides the system prompts for the MOT option.

Input prompts for the MOT option

Prompt	Valid input	Explanation
SONUMBER	Refer to SONUMBER in the “Prompts” table in Chapter 2 for information on valid inputs.	The unique number of the service order to be entered.
DN_OR_LEN	Refer to DN and LEN_OR_LTID in the “Prompts” table in Chapter 2 for information on valid inputs.	Enter the DN or LEN of the line. In the case of an MDN line or MLH/DLH hunt members, if a DN is specified then the user is prompted for the LEN. If the LEN is entered, the user is not prompted for the DN.
OPTKEY	1	Key 1 is the only key on which the MOT option can be assigned.
OPTION	MOT	Enter MOT to assign the Music On Transfer option to a set.

MOT – Music on Transfer (continued)

MOT to line class code compatibility

The following table shows MOT compatibility to LCC.

MOT to LCC compatibility

Line class code	Compatible?
1FR-1MR:	No
RES:	No
IBN:	Yes
2FR-10FR:	No
CSD:	No
KEYSET LCCs:	Yes (See Note.)
DATA-PDATA:	No
MADO-MPDA:	No
WATSLCC:	No
COIN LCC:	No
PBX LCC:	No
TWX LCC:	No
ZMD, ZMZPA:	No
Note: The MOT option is compatible with the M2006, M2008, M2009, M2016, M2018, M2112, M2216, M2317, M2616, M3901, M3902, M3903, M3904, M3905, M5008, M5009, M5112, M5208, M5209, M5212, M5216, M5312, M5316, and PSET LCCs.	

Assignability

The following functionalities apply to this option:

- set functionality: yes
- subset functionality: no
- DN functionality: no
- key functionality: no

MOT – Music on Transfer (end)

Option prerequisites

The MOT option has the following prerequisites:

- The MOT option can only be assigned to the line when 3WC or CXR is already assigned to the line.
- Although a user can assign the MOT option to a primary directory number (PDN) even though tables CUSTSTN and AUDIO are not datafilled, the option works only when the tables are datafilled and the option is assigned to a set using SERVORD.

Notes

The MOT option can be deleted from the line when 3WC or CXR is deleted from the line.

Feature identification

Functionality: MSL00007

Feature number: 59006994

MWINK – MADN WINK

Description

A59028416 (Individual MADN Hold) provides a different wink to a MADN member of SCA and CACH MADN groups that has placed a call with an external party on HOLD.

The MWINK option provides a slower, distinctive wink for the MADN hold controller (the person who has placed a call with an external party on hold). The slower wink will easily distinguish the MADN HOLD controller from other members of the MADN group.

MDN option must be assigned to a line before MWINK option is assigned. MWINK option can only be assigned to MADN SCA and CACH groups. If the MADN group type is changed, an error message is prompted and the change is rejected. The MWINK option is assigned to the MADN group by assigning it to any member of the MADN group. Similarly, the MWINK option can be removed from the MADN group by deassigning it from any member of the MADN group.
This feature can be provisioned on the following telephone sets:

- Meridian Business Set (KSET)
- Integrated Business Network (IBN)
- Integrated Services Digital Network (ISDN)
- Residential Enhanced Services (RES)

The MWINK option, when assigned to a MADN group, causes the MADN group member who has placed a call with an external party on HOLD (the MADN HOLD controller) to wink at a slower rate than other members of the MADN group. Without MWINK option assigned to the MADN group, all the members of the MADN group including the MADN HOLD controller wink in an identical manner.

MWINK affects the SERVORD commands ADO, DEO, and NEW. The examples that appear on the following pages illustrate the way MWINK option is assigned to and removed from a MADN group through SERVORD commands. Any member of the MADN group can be used to assign and remove MWINK option from a MADN group.

Example: SO command ADO for assigning MWINK along with MDN option

An example of MDN and option in prompt mode follows.

Example of assigning along with MDN option in prompt mode (SO command ADO)

```
>:SO
>ADO
SONUMBER:   NOW  76  213PM
>
DN OR LEN
>2461170
OPTKEY
>2
OPTION:
>MDN
MDNTYPE:
>SCA
PRIMARY:
>Y
DIR_NUMBER:         9192461170
>
DENIAL_TRMT:
>TONE
BRIDGING
>Y
CONF_SIZE:
>30
BRIDGE_TONE:
>Y
INIT STAT:
>PRIVATE
PRL MODE:
>AUTO
OPTKEY:
>2
OPTION:
>MWINK
OPTKEY:
>$
COMMAND AS ENTERED:
ADO NOW 76 2 13 PM 2461170 (2 MDN SCA Y 9192461170 TONE Y 30
Y PRIVATE AUTO) (2 MWINK) $
ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT
>Y
MACHINES ARE OUT OF SYNC, SERVICE ORDERS NOT ALLOWED
JOURNAL FILE IS INACTIVE, SERVICE ORDERS NOT ALLOWED
SHOULD ORDER BE DONE ANYWAY? (Y OR N)
>Y
```

MWINK – MADN WINK (continued)

Example: SO command ADO for assigning MWINK option to an existing MADN group

An example of the option in prompt mode follows.

Example of assigning the option to an existing MADN group in prompt mode (SO command ADO)

```
>ADO
SONUMBER:   NOW  76  213PM
>
DN OR LEN
>4811520
LEN:
>0 0 8 10
OPTKEY:
>1
OPTION:
>MWINK
OPTKEY:
>$
COMMAND AS ENTERED:
ADO NOW 76 2 13 PM 4811520 HOST OO O O8 10( 1 MWINK ) $
ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT
>Y
ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT
>Y
MACHINES ARE OUT OF SYNC, SERVICE ORDERS NOT ALLOWED
JOURNAL FILE IS INACTIVE, SERVICE ORDERS NOT ALLOWED
SHOULD ORDER BE DONE ANYWAY? (Y OR N)
>Y
```

An example of the option in no-prompt mode follows.

Example of the option in no-prompt mode (SO command ADO)

```
>ADO $ 4811520 0 0 8 101 MWINK $ YY
COMMAND AS ENTERED:
ADO NOW 76 2 13 PM 4811520 HOST 00 0 8 10 ( 1 MWINK ) $
MACHINES ARE OUT OF SYNC, SERVICE ORDERS NOT ALLOWED
JOURNAL FILE IS INACTIVE, SERVICE ORDERS NOT ALLOWED
```

Example: SO command DEO to remove MWINK from an existing MADN group

An example of the option in prompt mode follows.

Example of the option in prompt mode (SO command DEO)

```
>DEO
SONUMBER: NOW 76 2 13 PM
>
DN_OR_LEN:
>4811580
>LEN
>0 0 8 10
>OPTKEY:
>1
>OPTION:
>MWINK
>OPTKEY:
>$
COMMAND AS ENTERED:
DEO NOW 76 2 13 PM 4811520 HOST 00 0 08 10 ( 1 MWINK ) $
ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT
>Y
MACHINES ARE OUT OF SYNC, SERVICE ORDERS NOT ALLOWED
JOURNAL FILE IS INACTIVE, SERVICE ORDERS NOT ALLLOWED
SHOULD ORDER BE DONE ANYWAY? (Y OR N)
>Y
```

An example of the option in no-prompt mode follows.

Example of the option in no-prompt mode (SO command DEO)

```
>SO
>DEO $ 4811520 0 0 8 10 1 MWINK $ YY
>COMMAND AS ENTERED:
DEO NOW 76 2 13 PM 4811520 HOST 00 0 08 10 1 ( 1 MWINK ) $
MACHINES ARE OUT OF SYNC, SERVICE ORDERS NOT ALLOWED
JOURNAL FILE IS INACTIVE, SERVICE ORDERS NOT ALLOWED
```

Example: SO command NEW for provisioning a new MADN group and assigning MWINK option.

An example of the option in prompt mode follows.

MWINK – MADN WINK (continued)

Example of the MDN and options in prompt mode (SO command NEW)

```
SO:
>NEW
SONUMBER:    NOW  1  1  11  AM
>
DN:
>4811520
LCC_ACC:
>M5312
GROUP:
>LONS634
SUBGRP:
>0
SNPA:
>103
KEY:
>1
RINGING:
>Y
LTG:   0
>
LEN_OR_LTID:
>00 0 02 03
OPTKEY:
>1
OPTION:
>MDN
MDNTYPE:
>SCA
PRIMARY:
>Y
(CONTINUED ON NEXT PAGE)
```

Continued on next page - an example of the option in prompt mode follows.

Example of the option in prompt mode - continued from previous page

```
(CONTINUED FROM PREVIOUS PAGE)

DENIAL_TRMT:
>TONE
BRIDGING:
>Y
CONF_SIZE:
>25
>Y
BRIDGE_TONE:
>Y
INIT_STAT:
>PRI_MODE
>MANUAL
OPTKEY:
>1

OPTION:
>MWINK
OPTKEY:
>$
COMMAND AS ENTERED
NEW NOW 1 1 11 AM6340203 M5312 LONS634 O O 103 1 Y O HOST 00
O 02 03 ( 1 MDN SCA Y TONE Y 25 Y PRIVATE MANUAL ) (1 MWINK) $
ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT
>Y
MACHINES ARE OUT OF SYNC, SERVICE ORDERS NOT ALLOWED
JOURNAL FILE IS INACTIVE, SERVICE ORDERS NOT ALLOWED
SHOULD ORDER BE DONE ANYWAY? (Y OR N)
>Y
```

Prompts

The table that follows provides the system prompts for the option.

Input prompts for the option

Prompt	Correct input	Explanation	Areas affected by prompts
OPTION	MWINK	Assign MWINK to MADN group	MDN options for SCA and CACH MADN groups

MWINK – MADN WINK (continued)

Line class code compatibility

The table that follows provides to LCC compatibility.

to LCC compatibility

Line class code	Compatible?
MDC:	Yes
RES:	Yes
IBN:	Yes
ISDN:	Yes

Assignability

The functionalities that follow apply to this option:

- set functionality: no
- subset functionality: no
- DN functionality: yes
- key functionality: no

Option prerequisites

The following prerequisite applies to the option:

- MDN option must be assigned to the line before: MWINK option is assigned to the line or MDN and MWINK options are assigned to the line in the same command

Notes

The following notes apply to the option:

- the MWINK option, when assigned to a MADN group, is displayed with the QDN and QGRP commands for ISDN, EBS and 500/2500 sets.
- MWINK will appear with a QLEN on a 500/2500 set.
- The following applies with a QLEN on an EBS set and QLT on an ISDN set:
  - MWINK will appear only for the MADN DN that is assigned to Key 1 of the set
  - when a MADN DN is assigned to any key other than key 1 on an EBS or an ISDN set, the QLEN and QLT command will not show

the MWINK option. This occurs because several MADN groups could have appearances on the set and each could have a separate MADN group information.

Feature identification

The feature number for Individual MADN Hold is AT.59028416.

MSMWI – Multiple Station Message Waiting Indicators

Description

This feature provides functionality for the Multiple Station Message Waiting Indicators (MSMWI) to be a keyset or data set feature. The MSMWI option provides a visual indication of a message waiting for a primary terminal on one or more secondary terminals. A primary terminal must be datafilled with the Message Waiting (MWT) or Executive Message Waiting (EMW) feature. All attempts to remove MWT or EMW from the primary terminal are blocked until all MSMWI assignments associated with that primary terminal are removed from the corresponding secondary terminals. A primary and secondary terminal can be either a single-line set (IBN terminal supporting CLASS) or multi-line set.

The MSMWI option allows the keyset feature MSMWI to be datafilled through tables KSETFEAT and IBNFEAT. Using SERVORD, MSMWI tuples are updated through tables KSETFEAT and IBNFEAT and stored in table MSMWI.

The following table lists terminals against which the MSMWI option can be assigned.

MSMWI assignable terminals (Sheet 1 of 3)

Terminal description		Terminal type
Proprietary Business Sets		PSET
		PSET with display
M2000 Digital Telephones (Digital IVD Sets)		M2009 M2018 M2112 M2317
Meridian Modular Telephones (Digital)		M2006
Note 1: MSMWI can be assigned to IBN sets without visual indicators; however, no indication will be provided. ***Note 2:*** The 4500 and 4600 are manufacturer discontinued. ***Note 3:*** Since the switch considers the Companion C3050 sets to be single-line analog IBN terminals, the C3050 can receive a visual indication of messages waiting on the primary terminal.		

MSMWI – Multiple Station Message Waiting Indicators (continued)

MSMWI assignable terminals (Sheet 2 of 3)

Terminal description		Terminal type
Meridian Modular Telephones (digital)		M2008 M2008HF M2016S M2216A M2216B M2616 M2616CT
Meridian Business Sets		M5008 M5009 M5112 M5208 M5209 M5212 M5216 M5312 M5316
IBN sets (See Note 1.)		2500
	Maestro	1500 2500 3500
IBN sets (See Note 1.)		4500 CW (See Note 2.) 4600 CW (See Note 2.) 4525 CT 4526 CT
	Powertouch	225 250 450 360
	Meridian Phone Sets	M8001 M8003 M8009 M8314 M8417 M9216 M9316 M9316 CW M9417 M9417 CW

Note 1: MSMWI can be assigned to IBN sets without visual indicators; however, no indication will be provided.

Note 2: The 4500 and 4600 are manufacturer discontinued.

Note 3: Since the switch considers the Companion C3050 sets to be single-line analog IBN terminals, the C3050 can receive a visual indication of messages waiting on the primary terminal.

MSMWI – Multiple Station Message Waiting Indicators (continued)

MSMWI assignable terminals (Sheet 3 of 3)

Terminal description		Terminal type
IBN sets (See Note 1.)		M9515 M9516 CW
IBN sets (See Note 1.)		M9617 CW
	Quick Touch	100 200
	Silhouette	
	Companion	C3050 (See Note 3.)

Note 1: MSMWI can be assigned to IBN sets without visual indicators; however, no indication will be provided.

Note 2: The 4500 and 4600 are manufacturer discontinued.

Note 3: Since the switch considers the Companion C3050 sets to be single-line analog IBN terminals, the C3050 can receive a visual indication of messages waiting on the primary terminal.

Example

The following is an example of the MSMWI option for IBN sets. In this example, the secondary terminal (directory number 9975126) is datafilled against the primary LEN (LCM0 0 1 9 31), which in this example has already been datafilled with either the MWT or EMW message waiting feature on key 1.

Example of the MSMWI option for IBN

```
>ADO
 SONUMBER:   NOW 96 4 13 PM
>
 DN_OR_LEN:
>9975126
 OPTION:
>MSMWI
 PRIMARY_LEN
>LCM0  0 1 9 31
 PRIMARY_KEY
>1
 OPTKEY:
>$
```

MSMWI – Multiple Station Message Waiting Indicators (continued)

The following is an example of the MSMWI option for keysets. In this example, the secondary terminal (directory number 9975126) is datafilled on key 4. The MSMWI option is datafilled against the primary LEN (LCM0 0 0 8 31), which in this example has already been datafilled with either the MWT or EMW message waiting feature on key 1.

Example of the MSMWI option for keysets

```
> ADO
SONUMBER:      NOW  96  4 13 PM
>
DN_OR_LEN:
> 9975126
OPTKEY:
> 4
OPTION:
> MSMWI
PRIMARY_LEN:
> LCM0 0 0 8 31
PRIMARY_LKEY:
> 1
OPTKEY:
> $
```

Prompts

The following table provides the system prompts for the MSMWI option.

Input prompts for the MSMWI option (Sheet 1 of 2)

Prompt	Valid input	Explanation
SONUMBER	Refer to SONUMBER in the "Prompts" table in Chapter 2 for information on valid inputs.	The unique number of the service order to be entered.
DN_OR_LEN	Refer to DN and LEN_OR_LTID in the "Prompts" table in Chapter 2 for information on valid inputs.	This prompt appears only if the DN_OR_LEN is a keyset. Enter the DN or LEN of the line. In the case of an MDN line or MLH/DLH hunt members, if a DN is specified then the user is prompted for the LEN. If the LEN is entered, then the user is not prompted for the DN.

MSMWI – Multiple Station Message Waiting Indicators (continued)

Input prompts for the MSMWI option (Sheet 2 of 2)

Prompt	Valid input	Explanation
OPTKEY	1-69	Enter the key number to which the option is assigned.
OPTION	Refer to the "Line service options" table in Chapter 2 for a list of valid inputs.	Option(s) associated with a service to be established, modified, or deleted. A maximum of 20 options can be specified in any single ADD, ADO, EST, or NEW command.
PRIMARY_LEN	Refer to LEN_OR_LTID in the "Prompts" table in Chapter 2 for information on valid inputs.	Enter the LEN for the primary terminal. The PRIMARY_LEN can be an IBN set or a keyset.
PRIMARY_LKEY	1-69 (keysets) or 0-6 (IBN)	Enter the key number on the primary terminal that is datafilled with either the Message Waiting (MWT) or Executive Message Waiting (EMW) feature. If the PRIMARY_LEN is a keyset, enter a number from 1-69. If the PRIMARY_LEN is an IBN set, enter a number from 0-6.

MSMWI to line class code compatibility

The following table shows MSMWI compatibility to LCC.

MSMWI to LCC compatibility (Sheet 1 of 2)

Line class code	Compatible?
1FR-1MR:	No
RES:	No
IBN:	Yes (see the table of MSMWI assignable terminals)
2FR-10FR:	No
CSD:	No

MSMWI – Multiple Station Message Waiting Indicators (continued)

MSMWI to LCC compatibility (Sheet 2 of 2)

Line class code	Compatible?
KEYSET LCCs:	Yes (See the table of MSMWI assignable terminals.)
DATA-PDATA:	No
MADO-MPDA:	No
WATSLCC:	No
COIN LCC:	No
PBX LCC:	No
TWX LCC:	No
ZMD, ZMZPA:	No

Assignability

The following functionalities apply to this option:

- set functionality: no
- subset functionality: no
- DN functionality: no
- key functionality: yes

Option prerequisites

The MSMWI option provides a visual indication of a message waiting for a primary terminal on one or more secondary terminals. The primary terminal has the following prerequisites:

- Message Waiting (MWT) or Executive Message Waiting (EWM)
- of the options MWT, EWM, and MSMWI, only one maybe assigned at a time to IBN sets

Notes

The MSMWI option supports IBN CLASS terminals that have visual indicators.

Feature identification

Functionality: MSL STATION FEATURES

MSMWI – Multiple Station Message Waiting Indicators (end)

Feature number: AD8422, AX0427

NAME24 – Name Display Character Extension

Description

The NAME24 option provides the option to display up to 24 characters on each directory number (DN). This feature is available for phones that are physically capable of displaying 24 characters. To accommodate longer surnames, the number of characters displayed is increased from 15 to 24. This could prevent truncation of most surnames. This does not affect the existing 15-character NAME option.

Example

The following is an example of the NAME24 option in prompt mode.

Example of the NAME24 option in prompt mode

```
>ADO
MISSING DN_OR_LEN:
9975120
OPTKEY:
> 1
OPTION:
> NAME
NETNAME:
> PUBLIC
DISPLAYNAME:
>G_WASHINGTON
NETNAME:
> $
OPTKEY:
>1
OPTION:
>NAME24
DISPLAY_NAME:
>GEORGE_WASHINGTON
OPTKEY:
$
```

Example of the NAME24 option in no-prompt mode

```
>ADO NOW 98  12 18 AM 9975120 ( 1 NAME (PUBLIC G_WASHINGTON )
$ ) ( 1 NAME24 GEORGE_WASHINGTON ) $
```

NAME24 – Name Display Character Extension (continued)

Prompts

The following table provides the system prompts for the NAME24 option.

Input prompts for the NAME24 option

Prompt	Valid input	Explanation
DISPLAY_NAME	Vector of up to 24 characters	Enter the characters to be displayed.

NAME24 to line class code compatibility

The following table shows NAME24 compatibility to LCC.

NAME24 to LCC compatibility

Line class code	Compatible?
1FR-1MR:	No
RES:	No
IBN:	No
2FR-10FR:	No
CSD:	No
KEYSET LCCs:	Yes (See Note.)
DATA-PDATA:	No
MADO-MPDA:	No
WATSLCC:	No
COIN LCC:	No
PBX LCC:	No
TWX LCC:	No
ZMD, ZMZPA:	No
Note: The NAME24 option is compatible with the following LCCs: M2006, M2008, M2016S, M2216A, M2216B, M2616, M2616CT, M5208, M5209, M5212, M5213, M5216, M5312.	

NAME24 – Name Display Character Extension (end)

Assignability

The following functionalities apply to this option:

- set functionality: no
- subset functionality: no
- DN functionality: yes
- key functionality: no

Option prerequisites

There are no prerequisites for this option.

Notes

The following notes apply to NAME24:

- the option is limited to the terminals that are capable of handling 24-digit display per line.
- the option is limited to the private branch exchange (PBX) environment.

Feature identification

Functionality: MSL00007 Station Features

Feature number: AX1240

RDLL – Redial List

Description

The RDLL option provides one-button access to the Redial List on the M3903, M3904, and M3905 telephone sets. When this feature is assigned to the context sensitive softkeys and/or the programmable feature keys, pressing the button takes the user to the Redial List feature.

Key 29 is designated as the context sensitive key for this line option.The following programmable keys may also be used in the following keys:

- M3903: keys 2 through 4
- M3904: keys 2 through 12
- M3905: keys 2 through 8

The RDLL option may be added to multiple programmable keys as well as to the context sensitive keys simultaneously.

Example

The following examples show the RDLL option added to a line and deleted from a line as if changed from one key to another.

Example of adding the RDLL option in prompt mode

```
>ADO
SONUMBER:     NOW 01 8 10 PM
>
DN_OR_LEN:
>8664060
OPTKEY:
>6
OPTION:
>RDLL
OPTKEY:
>$
```

Example of adding the RDLL option in no-prompt mode

```
>ADO $ 8664060 6 RDLL$
```

Example of deleting the RDLL option in prompt mode

```
>DEO
SONUMBER:      NOW 01 8 10 PM
>
DN_OR_LEN:
>8664060
OPTKEY:
>6
OPTION:
>RDLL
OPTKEY:
>$
```

Example of deleting the RDLL option in no-prompt mode

```
>DEO $ 8664060 6 RDLL$
```

Prompts

The following table provides the system prompts for the RDLL option.

Input prompts for the RDLL option

Prompt	Valid input	Explanation
SONUMBER	Refer to SONUMBER in the "Prompts" table in Chapter 2 for information on valid inputs.	The unique number of the service order to be entered.
DN_OR_LEN	Refer to DN and LEN_OR_LTID in the "Prompts" table in Chapter 2 for information on valid inputs.	Enter the DN or LEN of the line. In the case of an MDN line or MLH/DLH hunt members, if a DN is specified then the user is prompted for the LEN. If the LEN is entered, the user is not prompted for the DN.
OPTKEY		To be assigned.
OPTION		The RDLL option may be assigned to multiple programmable or context sensitive keys.

RDLL – Redial List (continued)

RDLL to line class code compatibility

The following table shows RDLL compatibility to LCC.

RDLL to LCC compatibility

Line class code	Compatible?
M3903	Yes
M3904	Yes
M3905	Yes

Assignability

The following functionalities apply to this option:

- set functionality: yes
- subset functionality: no
- DN functionality: no
- key functionality: no

Option prerequisites

RDLL has no prerequisites.

Notes

None.

Feature identification

Functionality: MSL15

Feature number: AT.59023539

RDLL to line class code compatibility

The following table shows RDLL compatibility to LCC.

RDLL to LCC compatibility

Line class code	Compatible?
M3903	Yes
M3904	Yes
M3905	Yes

Assignability

The following functionalities apply to this option:

- set functionality: yes
- subset functionality: no
- DN functionality: no
- key functionality: no

Option prerequisites

RDLL has no prerequisites.

Notes

None.

Feature identification

Functionality: MSL15

Feature number: AT.59023539

SECURE – Secure Set Feature Support for MSL

Description

The SECURE option activates the Secure Set option (Secure) for the M5009S and the M2016S secure sets using the following layers:

- Meridian stored logic (MSL)
- DMS-100 common (CCM)
- C-north american (CNA)
- extended peripheral module (XPM)

The MSL layer relies on software support from the CCM, CNA, and XPM layers to add the Secure Set feature as an option to an M5009S secure set in tables KSETINV and IVDINV.

The CCM layer contains particular type definitions, constants, and initialization codes which are needed for the Secure Set option to function properly with respect to the M5009S secure phone set.

The XPM layer uses the Secure Set option sent from the computing module (CM) to differentiate a secure set from a non-secure set. The Secure Set function uses a local ringer to generate a warble tone that notifies the user of an incoming call terminating on any other directory number (DN). A buzzer is used to notify the user of a non-secure set.

Additionally, this option provides service order (SERVORD) functionality for the Secure Set option. The Secure Set option is assigned to the M5009S on a per set basis using the first DN key on the phone set.

Example

The following is an example of the Secure Set option.

Example of the Secure Set option

```
>ADO
SONUMBER: NOW 96 2 14 AM
>
DN_OR_LEN
> LCM0 0 0 18 30
OPTKEY:
> 1
OPTION:
>SECURE
OPTKEY:
> $
```

Prompts

The following table provides the system prompts for the Secure Set option.

Input prompts for the Secure Set option (Sheet 1 of 2)

Prompt	Valid input	Explanation
SONUMBER	Refer to SONUMBER in the "Prompts" table in Chapter 2 for information on valid inputs.	The unique number of the service order to be entered.
DN_OR_LEN	Refer to DN and LEN_OR_LTID in the "Prompts" table in Chapter 2 for information on valid inputs.	Enter the DN or LEN of the line. In the case of an MDN line or MLH/DLH hunt members, if a DN is specified then the user is prompted for the LEN. If the LEN is entered, then the user is not prompted for the DN.

SECURE – Secure Set Feature Support for MSL (continued)

Input prompts for the Secure Set option (Sheet 2 of 2)

Prompt	Valid input	Explanation
OPTKEY	1-69 for business set; 1, 2, 3, 4, or 7 for data unit	Identifies key on business set or data unit to which an option is assigned.
OPTION	Refer to the “Line service options" table in Chapter 2 for a list of valid inputs.	Option(s) associated with a service to be established, modified, or deleted. A maximum of 20 options can be specified in any single ADD, ADO, EST, or NEW command.

Secure Set option to line class code compatibility

The following table shows Secure Set option compatibility to LCC.

Secure Set option to LCC compatibility (Sheet 1 of 2)

Line class code	Compatible?
KEYSET LCCs:	Yes
1FR-1MR:	No
RES:	No
CSD:	No
M2016S:	Yes
IBN:	No
2FR-10FR:	No
PSET LCCs:	Yes
DATA-PDATA:	No
COIN LCC:	No
MADO-MPDA:	No
PBX LCC:	No
Note: Secure Set option is compatible only with the M5009S and M2016S secure sets.	

SECURE – Secure Set Feature Support for MSL (continued)

Secure Set option to LCC compatibility (Sheet 2 of 2)

Line class code	Compatible?
TWX LCC:	No
ZMD, ZMZPA:	No
Note: Secure Set option is compatible only with the M5009S and M2016S secure sets.	

Assignability

The following functionalities apply to this option:

- set functionality: yes
- subset functionality: no
- DN functionality: no
- key functionality: no

Option prerequisites

There are prerequisites for this option.

The following special hardware is required for the Secure Set option:

- The M5009S secure set.
- The M2016S secure set.

Notes

The following notes apply to Secure Set option:

The M5009S has hardware modifications that make it incapable of buzzer notification. Because of this interaction, the following features receive flashing lamp notification instead of audible ring or buzzer notification:

- QBS (Query Busy Station)
- CBQ (Call Back Queueing)
- GIC (Group Intercom)
- CWT (Call Waiting)

The Secure Set option is added to tables KSETINV and IVDINV as an option with the datafill entry of SECURE.

SECURE – Secure Set Feature Support for MSL (end)

If a MADN group contains M5009 phone sets that possess the Secure Set option along with M5009 phone sets that do not have the Secure Set option, an incoming call that is slated for a secure phone set can be answered by a non-secure phone set.

The MADN feature must be used in conjunction with the Secure Set option only if all phone sets of the MADN group are secure sets.

Feature identification

Functionality: MSL Secure Set Support

Feature number: AD8419

UNIQID – Unique Id

Description

The new line option UNIQID, associates a DN with a unique identifier. The unique identifier will be used for the syncing of the Meridian SL-100 with the LDAP version 3 server. This feature can be provisioned on the following telephone sets:

- Meridian Business Set (KSET)
- Integrated Voice and Data (IVD)
- Integrated Business Network (IBN)
- Integrated Services Digital Network (ISDN)
- Residential Enhanced Services (RES)

UNIQID affects the SERVORD commands ADO, DEO, CHF, and NEW. Examples of these commands follow on the next pages.

Example: SO command ADO

The following is an example of the ADO command for assigning the UNIQID option in prompt mode.

UNIQID – Unique Id (continued)

Example of ADO command in prompt mode

```
SO:
>ADO
SONUMBER:     NOW  99 12 20 PM
>$
DN_OR_LEN:
>0 0 8 5
OPTKEY:
>1
OPTION:
>UNIQID
UID:
>0189474
OPTION:
>$
COMMAND AS ENTERED
ADO NOW 99 12 20 PM HOST 00 0 08 05 ( 1 UNIQID 0189474) $
SHOULD ORDER BE DONE ANYWAY? (Y OR N)
>Y
WARNING: The Public Name in the
table DNATTRS for this DN will
be datafilled as UNKNOWN

> QLEN HOST 00 0 08 05
------------------------------------------------------------
LEN:     HOST  00 0 08 05

TYPE: SINGLE PARTY LINE
SNPA: 919
DIRECTORY NUMBER:    2462767
LINE CLASS CODE:  M5316 SET
CUSTGRP:              BNR  SUBGRP: 0  NCOS: 0  RING: Y
CARDCODE:  6X21AC     GND: N  PADGRP: STDLN  BNV: NL MNO: Y
PM NODE NUMBER     :    43
PM TERMINAL NUMBER :    262
OPTIONS:
NAME PUBLIC UNKNOWN
UNIQID 0189474

   KEY       DN
   ---       --
     1       DN          9192462767

   KEY     FEATURE
    ---       ---------
    1          UNIQID      0189474
```

Example: using ADO command to assign UNIQID option in no-prompt mode

```
SO:
> ADO $ 2462767 1 UNIQID 0189474 $ Y Y
COMMAND AS ENTERED
ADO NOW 99 12 20 PM HOST 00 0 08 05 ( 1 UNIQID 0189474) $
SHOULD ORDER BE DONE ANYWAY? (Y OR N)
>Y
WARNING: The Public Name in the
table DNATTRS for this DN
be datafilled as UNKNOWN

> QLEN HOST 00 0 08 05
------------------------------------------------------------
LEN:     HOST  00 0 08 05
TYPE: SINGLE PARTY LINE
SNPA: 919
DIRECTORY NUMBER:    2462767
LINE CLASS CODE:  M5316 SET
CUSTGRP:              BNR  SUBGRP: 0  NCOS: 0  RING: Y
CARDCODE:  6X21AC     GND: N  PADGRP: STDLN  BNV: NL MNO: Y
PM NODE NUMBER     :    43
PM TERMINAL NUMBER :    262
OPTIONS:
NAME PUBLIC UNKNOWN
UNIQID 0189474

    KEY       DN
    ---       --
     1         DN          9192462767

   KEY     FEATURE
    ---      --------
    1          UNIQID      0189474
```

SO command DEO for removing UNIQID

The following is an example of the DEO command used to remove UNIQID in prompt mode.

UNIQID – Unique Id (continued)

Example: using DEO command to remove UNIQID option in prompt mode

```
SO:
>DEO
SONUMBER:     NOW  99 12 20 PM
>$
DN_OR_LEN:
>0 0 8 5
OPTKEY:
>1
OPTION:
>UNIQID
OPTION:
>$
COMMAND AS ENTERED
DEO NOW 99 12 20 PM HOST 00 0 08 05 ( 1 UNIQID) $
SHOULD ORDER BE DONE ANYWAY? (Y OR N)
>Y

> QLEN HOST 00 0 08 05
------------------------------------------------------------
LEN:     HOST  00 0 08 05
TYPE: SINGLE PARTY LINE
SNPA: 919
DIRECTORY NUMBER:    2462767
LINE CLASS CODE:  M5316 SET
CUSTGRP:              BNR  SUBGRP: 0  NCOS: 0  RING: Y
CARDCODE:  6X21AC     GND: N  PADGRP: STDLN  BNV: NL MNO: Y
PM NODE NUMBER     :    43
PM TERMINAL NUMBER :    262
OPTIONS:
NAME PUBLIC UNKNOWN

   KEY       DN
   ---       --
     1       DN          9192462767

   KEY     FEATURE
        NONE
```

The following is an example of the DEO command used for removing UNIQID in no-prompt mode.

Example: using DEO command to remove UNIQID option in no-prompt mode

```
SO:
>DEO $ 2462767 1 UNIQID $
COMMAND AS ENTERED
DEO NOW 99 12 20 PM HOST 00 0 08 05 ( 1 UNIQID) $
SHOULD ORDER BE DONE ANYWAY? (Y OR N)

>Y
> QLEN HOST 00 0 08 05
------------------------------------------------------------
LEN:     HOST  00 0 08 05
TYPE: SINGLE PARTY LINE
SNPA: 919
DIRECTORY NUMBER:    2462767
LINE CLASS CODE:  M5316 SET
CUSTGRP:             BNR  SUBGRP: 0  NCOS: 0  RING: Y
CARDCODE:  6X21AC    GND: N  PADGRP: STDLN  BNV: NL MNO: Y
PM NODE NUMBER     :    43
PM TERMINAL NUMBER :    262
OPTIONS:
NAME PUBLIC UNKNOWN

   KEY       DN
   ---       --
     1       DN          9192462767

   KEY     FEATURE
        NONE
```

SO command CHF

The following is an example of the CHF command used to change the UNIQID option.

UNIQID – Unique Id (continued)

Example: changing the UNIQID in prompt mode using the CHF command.

```
LEN:     HOST  00 0 08 05
TYPE: SINGLE PARTY LINE
SNPA: 919
DIRECTORY NUMBER:     2462767
LINE CLASS CODE:  M5316 SET
CUSTGRP:              BNR  SUBGRP: 0  NCOS: 0  RING: Y
CARDCODE:  6X21AC     GND: N  PADGRP: STDLN  BNV: NL MNO: Y
PM NODE NUMBER     :    43
PM TERMINAL NUMBER :    262
OPTIONS:
NAME PUBLIC UNKNOWN
UNIQID 0189474
   KEY       DN
   ---       --
     1       DN          9192462767

   KEY     FEATURE
    ---        --------
    1           UNIQID    0189474
------------------------------------------------------------
SO:
>CHF
SONUMBER:     NOW  99 12 20 PM
>$
DN_OR_LEN:
>0 0 8 5
OPTKEY:
>1
OPTION:
>UNIQID
UID:
>0189495
OPTION:
>$
COMMAND AS ENTERED
CHF NOW 99 12 20 PM HOST 00 0 08 05 ( 1 UNIQID 0189495) $
SHOULD ORDER BE DONE ANYWAY? (Y OR N)
>Y
> QLEN HOST 00 0 08 05
------------------------------------------------------------
LEN:     HOST  00 0 08 05
TYPE: SINGLE PARTY LINE
SNPA: 919
DIRECTORY NUMBER:     2462767
LINE CLASS CODE:  M5316 SET
CUSTGRP:              BNR  SUBGRP: 0  NCOS: 0  RING: Y
CARDCODE:  6X21AC     GND: N  PADGRP: STDLN  BNV: NL MNO: Y
PM NODE NUMBER     :    43
PM TERMINAL NUMBER :    262
OPTIONS:
NAME PUBLIC UNKOWN
UNIQID 0189295
   KEY       DN
   ---       --
     1       DN          9192462767
KEY     FEATURE
---      --------
 1       UNIQID    0189495
```

The following is an example of the CHF command with the UNIQID option in no-prompt mode.

Example: CHF command changing UNIQID option in no-prompt mode

```
> QLEN HOST 00 0 08 05
------------------------------------------------------------
LEN:     HOST  00 0 08 05
TYPE: SINGLE PARTY LINE
SNPA: 919
DIRECTORY NUMBER:     2462767
LINE CLASS CODE:  M5316 SET
CUSTGRP:              BNR  SUBGRP: 0  NCOS: 0  RING: Y
CARDCODE:  6X21AC     GND: N  PADGRP: STDLN  BNV: NL MNO: Y
PM NODE NUMBER     :    43
PM TERMINAL NUMBER :    262
OPTIONS:
NAME PUBLIC UNKNOWN
UNIQID 0189474
   KEY       DN
   ---       --
     1       DN          9192462767
   KEY     FEATURE
     ---       --------
       1         UNIQID           0189474
------------------------------------------------------------
SO:
> CHF $ 2462767 1 UNIQID 0189495 $
COMMAND AS ENTERED
CHF NOW 99 12 20 PM HOST 00 0 08 05 ( 1 UNIQID 0189495) $
SHOULD ORDER BE DONE ANYWAY? (Y OR N)
>Y
> QLEN HOST 00 0 08 05
------------------------------------------------------------
LEN:     HOST  00 0 08 05
TYPE: SINGLE PARTY LINE
SNPA: 919
DIRECTORY NUMBER:     2462767
LINE CLASS CODE:  M5316 SET
CUSTGRP:              BNR  SUBGRP: 0  NCOS: 0  RING: Y
CARDCODE:  6X21AC     GND: N  PADGRP: STDLN  BNV: NL MNO: Y
PM NODE NUMBER     :    43
PM TERMINAL NUMBER :    262
OPTIONS:
NAME PUBLIC UNKNOWN
UNIQID 0189495
   KEY       DN
   ---       --
     1       DN          9192462767

   KEY     FEATURE
     ---       --------
       1         UNIQID           0189495
```

SO command NEW

The following is an example of the SO command NEW for assigning the UNIQID option in prompt mode.

UNIQID – Unique Id (continued)

Example: SO command NEW, UNIQID option in prompt mode

```
SO:
>NEW
SONUMBER:     NOW  99 12 20 PM
>$
DN:
>2462767
LCC_ACC:
>m5316
GROUP:
>bnr
SUBGRP:
>0
NCOS:
>0
SNPA:
>919
KEY:
>1
RINGING:
>n
LATANAME:
>nillata
LTG:    0
>
LEN_OR_LTID:
>0 0 8 5
OPTKEY:
>1
OPTION:
>UNIQID
UID:
>0189474
OPTION:
>$
COMMAND AS ENTERED
NEW NOW 99 12 20 PM 2462767 M5316 BNR 00 919 1 N NILLATA 0
HOST 00 0 8 5 ( 1 UNIQID 0189474) $
SHOULD ORDER BE DONE ANYWAY? (Y OR N)
>Y
WARNING: The Public Name in the
table DNATTRS for this DN will
be datafilled as UNKNOWN
> QLEN HOST 00 0 08 05
-----------------------------------------------------
LEN:     HOST  00 0 08 05
TYPE: SINGLE PARTY LINE
SNPA: 919
DIRECTORY NUMBER:    2462767
LINE CLASS CODE:  M5316 SET
CUSTGRP:             BNR  SUBGRP: 0  NCOS: 0  RING: Y
CARDCODE:  6X21AC GND: N  PADGRP: STDLN  BNV: NL MNO: Y
PM NODE NUMBER     :    43
PM TERMINAL NUMBER :    262
OPTIONS:
NAME PUBLIC UNKNOWN
UNIQID 0189474
   KEY       DN
   ---       --
     1       DN          9192462767
   KEY     FEATURE
    ---       --------
      1         UNIQID            0189474
```

The following is an example of the NEW command with the UNIQID option in no-prompt mode.

Example: SO command NEW, UNIQID option in no-prompt mode

```
SO:
> NEW $ 2462767 M5316 BNR 0 0 919 1 N NILLATA 0 HOST 00 0 08
05 (1 UNIQID 0189474) $
COMMAND AS ENTERED
NEW NOW 99 12 20 PM 2462767 M5316 BNR 00 919 1 N NILLATA 0
HOST 00 0 8 5 ( 1 UNIQID 0189474) $
SHOULD ORDER BE DONE ANYWAY? (Y OR N)
>Y
WARNING: The Public Name in the
tabel DNATTRS for this DN will
be datafilled as UNKNOWN

> QLEN HOST 00 0 08 05
------------------------------------------------------------
LEN:     HOST  00 0 08 05
TYPE: SINGLE PARTY LINE
SNPA: 919
DIRECTORY NUMBER:    2462767
LINE CLASS CODE:  M5316 SET
CUSTGRP:             BNR  SUBGRP: 0  NCOS: 0  RING: Y
CARDCODE:  6X21AC    GND: N  PADGRP: STDLN  BNV: NL MNO: Y
PM NODE NUMBER     :    43
PM TERMINAL NUMBER :    262
OPTIONS:
NAME PUBLIC UNKNOWN
UNIQID 0189474


   KEY       DN
   ---       --
     1       DN          9192462767

   KEY     FEATURE
    ---       --------
      1         UNIQID          0189474
```

SO command OUT

The following is an example of using the OUT command to remove UNIQID option from a line.

UNIQID – Unique Id (continued)

Example of the OUT command, UNIQID option in prompt mode

```
> QLEN HOST 00 0 08 05
------------------------------------------------------------
LEN:     HOST  00 0 08 05
TYPE: SINGLE PARTY LINE
SNPA: 919
DIRECTORY NUMBER:    2462767
LINE CLASS CODE:  M5316 SET
CUSTGRP:              BNR  SUBGRP: 0  NCOS: 0  RING: Y
CARDCODE:  6X21AC     GND: N  PADGRP: STDLN  BNV: NL MNO: Y
PM NODE NUMBER     :    43
PM TERMINAL NUMBER :    262
OPTIONS:
NAME PUBLIC UNKNOWN
UNIQID 0189474

   KEY       DN
   ---       --
     1       DN          9192462767

   KEY     FEATURE
    ---       --------
      1        UNIQID          0189474
------------------------------------------------------------
>out
SONUMBER:     NOW  76  1 12 AM
>$
DN:
>9192462767
LEN_OR_LTID:
>00 0 08 05
INTERCEPT_NAME:
>bldn
COMMAND AS ENTERED
OUT NOW 76 1 12 AM 9192462767 HOST 00 0 08 05 BLDN
SHOULD ORDER BE DONE ANYWAY? (Y OR N)
>y
```

The following is an example of the OUT command with UNIQID option in no-prompt mode.

Example: OUT command, UNIQID option in no-prompt mode

```
------------------------------------------------------------
> QLEN HOST 00 0 08 05
------------------------------------------------------------
LEN:     HOST  00 0 08 05
TYPE: SINGLE PARTY LINE
SNPA: 919
DIRECTORY NUMBER:    2462767
LINE CLASS CODE:  M5316 SET
CUSTGRP:             BNR  SUBGRP: 0  NCOS: 0  RING: Y
CARDCODE:  6X21AC    GND: N  PADGRP: STDLN  BNV: NL MNO: Y
PM NODE NUMBER     :    43
PM TERMINAL NUMBER :    262
OPTIONS:

   KEY       DN
   ---       --
     1       DN          9192462767

   KEY     FEATURE
    ---      --------
      1        UNIQID         0189474
------------------------------------------------------------
SO:
>out $ 9192462767 00 0 08 05 bldn
COMMAND AS ENTERED
OUT NOW 76 1 12 AM 9192462767 HOST 00 0 08 05 BLDN
SHOULD ORDER BE DONE ANYWAY? (Y OR N)
>Y
```

Prompts

The following table provides the system prompts for the UNIQID option.

Input prompts for the UNIQID option on a keyset

Prompt	Valid input	Explanation
UID Note: There are no areas affected by this prompt	Sixteen character vector	Represents the unique identifier associated with a DN. This unique identifier is used to synchronize the MSL-100 switch with the LDAP version 3 server.

UNIQID to line class code (LCC) compatibility

Option UNIQID is compatible with all LCCs (IBN, RES, KSET, ISDN and IVD) and is applicable on a per-DN basis.

UNIQID – Unique Id (end)

Assignability

The following functionalities apply to this option:

- set functionality: no
- subset functionality: no
- DN functionality: yes
- key functionality: no

Option prerequisites

There are no prerequisites for this option.

Error messages

None.

Notes

When uniqid option is present on a DN, the name option cannot be removed from that DN through servord without removing the uniqid option. The public network name cannot be removed from the DNATTRS table through table control when uniqid option is present on that DN.

Feature identification

Functionality: LDAP Syncing with the Meridian SL-100

Feature number: A59019809

VOW – Virtual Office Worker

Description

The VOW option allows access to a dedicated directory number (DN) and associated features from any of a pre-designated group of the following telephone sets:

- Meridian Business Set (MBS)
- Integrated Voice and Data (IVD)
- Integrated Business Network (IBN)

Keyset example for ADO command

The following is an example of the ADO command with the VOW option on a keyset in prompt mode.

Example of the ADO command with the VOW option on a keyset in prompt mode

```
>ADO
SONUMBER: NOW 98 9 24 AM
>
DN_OR_LEN:
> 9975057
OPTKEY:
> 1
OPTION:
> VOW
VOWPID:
> 12345
OPTKEY:
> $
```

The following is an example of the ADO command with the VOW option on a keyset in no-prompt mode.

Example of the ADO command with the VOW option on a keyset in no-prompt mode

```
> ADO $ 9975057 ( 1 VOW ) $
```

VOW – Virtual Office Worker (continued)

Keyset example for NEW command

The following is an example of the NEW command with the VOW option on a keyset in prompt mode.

Example of the NEW command with the VOW option on a keyset in prompt mode

```
>NEW
SONUMBER: NOW 98 9 29 AM
>
DN:
> 9975059
LCC_ACC:
> PSET
GROUP:
> BNRRCH
SUBGRP:
> 0
NCOS:
> 0
SNPA:
> 214
KEY:
> 1
RINGING:
>Y
LTG:
> 0
LEN_OR_LTID:
> LCM2  00 0 06 31
OPTKEY:
> 1
OPTION:
> VOW
VOWPID:
>12345
OPTKEY:
>$
```

The following is an example of the NEW command with the VOW option on a keyset in no-prompt mode.

Example of the NEW command with the VOW option on a keyset in no-prompt mode

```
> NEW  $ 9975059 PSET  BNRRCH 0 0 214  1 Y 0 LCM2 00 0 06 31
( 1 VOW 12345 ) $
```

Keyset example for DEO command

The following is an example of the DEO command with the VOW option on a keyset in prompt mode.

Example of the DEO command with the VOW option on a keyset in prompt mode

```
>DEO
SONUMBER: NOW 98 9 29 AM
>
DN_OR_LEN:
> LCM2 00 0 06 31
OPTKEY:
> 1
OPTION:
>VOW
OPTKEY:
> $
```

The following is an example of the DEO command with the VOW option on a keyset in no-prompt mode.

Example of the DEO command with the VOW option on a keyset in no-prompt mode

```
> DEO  $ LCM2 00 0 06 31 ( 1 VOW 12345 ) $
```

Non-keyset example for ADO command

The following is an example of the ADO command with the VOW option on a non-keyset in prompt mode.

VOW – Virtual Office Worker (continued)

Example of the ADO command with the VOW option on a non-keyset in prompt mode

```
>ADO
SONUMBER: NOW 98 9 24 AM
>
DN_OR_LEN:
> 9975003
OPTION:
> VOW
VOWPID:
> 12345
OPTION:
> $
```

The following is an example of the ADO command with the VOW option on a non-keyset in no-prompt mode.

Example of the ADO command with the VOW option on a non-keyset in no-prompt mode

```
> ADO $ 9975003 ( VOW 12345 ) $
```

Non-keyset example for NEW command

The following is an example of the NEW command with the VOW option on a non-keyset in prompt mode.

Example of the NEW command with the VOW option on a non-keyset in prompt mode

```
>NEW
SONUMBER: NOW 98 9 29 AM
>
DN:
> 9975007
LCC_ACC:
> IBN
GROUP:
> BNRRCH
SUBGRP:
> 0
NCOS:
> 0
SNPA:
> 214
LTG: 0
> 0
LEN_OR_LTID:
> LCM1  00  1 18 00
OPTION:
> VOW
VOWPID:
>12345
OPTION:
>$
```

The following is an example of the NEW command with the VOW option on a non-keyset in no-prompt mode.

Example of the NEW command with the VOW option on a non-keyset in no-prompt mode

```
> NEW $ 9975007 IBN BNRRCH 0 0 214 0 LCM1 00 1 18 00
( VOW 12345 ) $
```

Non-keyset example for DEO command

The following is an example of the DEO command with the VOW option on a non-keyset in prompt mode.

VOW – Virtual Office Worker (continued)

Example of the DEO command with the VOW option on a non-keyset in prompt mode

```
>DEO
SONUMBER: NOW 98 9 29 AM
>
DN_OR_LEN:
> LCM2 00 0 06 31
OPTION:
>VOW
OPTKEY:
> $
OPTION:
> $
```

The following is an example of the NEW command with the VOW option on a keyset in no-prompt mode.

Example of the DEO command with the VOW option on a non-keyset in no-prompt mode

```
> DEO  $ LCM2 00 0 06 31 ( VOW ) $
```

Prompts

The following table provides the system prompts for the VOW option.

Input prompts for the VOW option on a keyset

Prompt	Valid input	Explanation
VOWPID	10-digit directory number	When adding VOW to a set, an initial passcode must be specified for the associated VOW user. This value is a digit register between 4 and 10 digits in length as specified by the PCCLEN field of the VOWDN tuple for the corresponding customer group in table CUSTSTN.

VOW – Virtual Office Worker (continued)

VOW to line class code compatibility

The following table shows VOW compatibility to LCC.

VOW to LCC compatibility

Line class code	Compatible?
1FR-1MR:	No
RES:	No
IBN:	Yes
2FR-10FR:	No
CSD:	No
KEYSET LCCs:	Yes (See Note.)
DATA-PDATA:	No
MADO-MPDA:	No
WATSLCC:	No
COIN LCC:	No
PBX LCC:	No
TWX LCC:	No
ZMD, ZMZPA:	No
Note: VOW is compatible with the following LCCs: IBN, M2006, M2008, M2009, M2016S, M2018, M2112, M2216A, M2216B, M2317, M2616, M2616CT, M5008, M5009, M5112, M5208, M5212, M5216, M5313, M5316, PSET	

Assignability

The following functionalities apply to this option:

- set functionality: no
- subset functionality: yes
- DN functionality: no
- key functionality: no

Option prerequisites

There are no prerequisites for this option.

VOW – Virtual Office Worker (end)

Notes

The VOW line option must be assigned to the Primary Directory Number (PDN) of a keyset with a line format in table KSETLINE of DN or to an IBN set with a line format in table IBNLINES of STN. As such, VOW is incompatible with Multiple Appearance Directory Numbers (MADNs), Automatic Call Distribution (ACD), and attendant consoles.

The VOW line option is also incompatible with Multiple Directory Numbers (MDNs) or HUNT groups and the various Hunt-related line options. In addition, the VOW line option is incompatiable with the Network Facility Access (NFA) line options: ACB, AR, BLF, C2USER, CALLOG, DLH, DNH, DRING, MLH, NFA, SIMRING, SLU, TRANSFER, VOWDN, and XFER.

Feature identification

Functionality: MSL00007 Station Features

Feature number: AX1232, AX1233, AX1236

VOWDN – Virtual Office Worker Directory Number

Description

The VOWDN option allows access to a dedicated DN and associated features from any of a pre-designated group of the following telephone sets:

- Meridian Business Set (MBS)
- Integrated Voice and Data (IVD)
- Integrated Business Network (IBN)

Keyset example for ADO command

The following is an example of the ADO command with the VOWDN option on a keyset in prompt mode.

Example of the ADO command with the VOWDN option on a keyset in prompt mode

```
>ADO
SONUMBER: NOW 98 9 24 AM
>
DN_OR_LEN:
> 9975057
OPTKEY:
> 1
OPTION:
> VOWDN
OPT KEY:
> $
```

Example of the ADO command with the VOWDN option on a keyset in no-prompt mode

```
> ADO $ 9975057 ( 1 VOWDN ) $
```

Keyset example for NEW command

The following is an example of the NEW command with the VOWDN option on a keyset in prompt mode.

VOWDN – Virtual Office Worker Directory Number (continued)

Example of the NEW command with the VOWDN option on a keyset in prompt mode

```
>NEW
SONUMBER: NOW 98 9 29 AM
>
DN:
> 9975059
LCC_ACC:
> PSET
GROUP:
> BNRRCH
SUBGRP:
> 0
NCOS:
> 0
SNPA:
> 214
KEY:
> 1
RINGING:
>Y
LTG:
> 0
LEN_OR_LTID:
> LCM2  00 0 06 31
OPTKEY:
> 1
OPTION:
> VOWDN
OPTKEY:
$
```

The following is an example of the NEW command with the VOWDN option on a keyset in no-prompt mode.

Example of the NEW command with the VOWDN option on a keyset in no-prompt mode

```
> NEW  $ 9975059 PSET  BNRRCH 0 0 214  1 Y LCM2 00 0 06 31
( 1 VOWDN ) $
```

Keyset example for DEO command

The following is an example of the DEO command with the VOWDN option on a keyset in prompt mode.

VOWDN – Virtual Office Worker Directory Number (continued)

Example of the DEO command with the VOWDN option on a keyset in prompt mode

```
>DEO
SONUMBER: NOW 98 9 29 AM
>
DN_OR_LEN:
> LCM2 00 0 06 31
OPTKEY:
> 1
OPTION:
>VOWDN
OPTKEY:
> $
```

The following is an example of the DEO command with the VOWDN option on a keyset in no-prompt mode.

Example of the DEO command with the VOWDN option on a keyset in no-prompt mode

```
> DEO  $ LCM2 00 0 06 31 ( 1 VOWDN ) $
```

Non-keyset example for ADO command

The following is an example of the ADO command with the VOWDN option on a non-keyset in prompt mode.

Example of the ADO command with the VOWDN option on a non-keyset in prompt mode

```
>ADO
SONUMBER: NOW 98 9 24 AM
>
DN_OR_LEN:
> 9975003
OPTION:
> VOWDN
OPTION:
> $
```

The following is an example of the ADO command with the VOWDN option on a non-keyset in no-prompt mode.

VOWDN – Virtual Office Worker Directory Number (continued)

Example of the ADO command with the VOWDN option on a non-keyset in no-prompt mode

```
> ADO $ 9975003 ( VOWDN ) $
```

Non-keyset example for NEW command

The following is an example of the NEW command with the VOWDN option on a non-keyset in prompt mode.

Example of the NEW command with the VOWDN option on a non-keyset in prompt mode

```
>NEW
SONUMBER: NOW 98 9 29 AM
>
DN:
> 9975007
LCC_ACC:
> IBN
GROUP:
> BNRRCH
SUBGRP:
> 0
NCOS:
> 0
SNPA:
> 214
LTG: 0
> 0
LEN_OR_LTID:
> LCM1  00  1 18 00
OPTION:
> VOWDN
OPTION:
$
```

The following is an example of the NEW command with the VOWDN option on a non-keyset in no-prompt mode.

VOWDN – Virtual Office Worker Directory Number (continued)

Example of the NEW command with the VOWDN option on a non-keyset in no-prompt mode

```
> NEW $ 9975007 IBN BNRRCH 0 0 214 0 LCM1 00 1 18 00
( VOWDN ) $
```

Non-keyset example for DEO command

The following is an example of the DEO command with the VOWDN option on a non-keyset in prompt mode.

Example of the DEO command with the VOWDN option on a non-keyset in prompt mode

```
>DEO
SONUMBER: NOW 98 9 29 AM
>
DN_OR_LEN:
> LCM2 00 0 06 31
OPTION:
>VOWDN
OPTION:
> $
```

The following is an example of the NEW command with the VOWDN option on a keyset in no-prompt mode.

Example of the DEO command with the VOWDN option on a non-keyset in no-prompt mode

```
> DEO  $ LCM2 00 0 06 31 ( VOWDN ) $
```

Prompts

None.

VOWDN – Virtual Office Worker Directory Number (continued)

VOWDN to line class code compatibility

The following table shows VOWDN compatibility to LCC.

VOWDN to LCC compatibility

Line class code	Compatible?
1FR-1MR:	No
RES:	No
IBN:	Yes
2FR-10FR:	No
CSD:	No
KEYSET LCCs:	Yes (See Note.)
DATA-PDATA:	No
MADO-MPDA:	No
WATSLCC:	No
COIN LCC:	No
PBX LCC:	No
TWX LCC:	No
ZMD, ZMZPA:	No
Note: VOWDN is compatible with the following LCCs: M2006, M2008, M2009, M2016S, M2018, M2112, M2216A, M2216B, M2317, M2616, M2616CT, M5008, M5009, M5112, M5208, M5212, M5216, M5313, M5316, PSET	

Assignability

The following functionalities apply to this option:

- set functionality: no
- subset functionality: yes
- DN functionality: no
- key functionality: no

Option prerequisites

There are no prerequisites for this option.

VOWDN – Virtual Office Worker Directory Number (end)

Notes

VOWDN is incompatible with all line options.

Feature identification

Functionality: MSL00007 Station Features

Feature number: AX1232, AX1233, AX1236

Meridian SL-100

Commercial Systems

Service Order Reference Manual

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