

MITEL

5000

Administrator Endpoint
Guide



System and Diagnostics Administrator Features

Quick Reference Guide

This guide provides information for frequently used administrator endpoint features. For more information about these and other features, refer to the *Administrator Endpoint Guide*.

Enabling or Disabling System Diagnostics Mode

While on-hook, enter the Diagnostics Mode feature code (**9900** or **9100**) to enable/disable diagnostics mode. DIAGNOSTICS ON/OFF appears. Then enter one of the following diagnostics feature codes shown below.

Feature Name	Code (U.S./Eur.)
Diagnostic – ASAI Snoop Off	9926/9126
Diagnostic – ASAI Snoop On	9927/9127
Diagnostic – Dump Extension	9933/9133
Diagnostic – Dump Node Info	9936/9136
Diagnostic – Heap Dump	9943/9143
Diagnostic – Heap Statistics	9947/9147
Diagnostic – ISDN View	9948/9148
Diagnostic – Major Reset	9962/9162
Diagnostic – Mark as Leaks	9945/9145
Diagnostic – Mark as Quiescent	9946/9146
Diagnostic – Minor Reset	9964/9164
Diagnostic – Network Freeze Zone - System Histories	9939/9139
Diagnostic – Network Groups	9963/9163
Diagnostic – Network Unfreeze Zone - System History	9989/9189
Diagnostic – Print Auxdata	9972/9172
Diagnostic – Print Message Log	9975/9175
Diagnostic – Print Network Log	9976/9176
Diagnostic – Query Node Traffic	9978/9178
Diagnostic – Show Version	9928/9128
Diagnostic – SIP View	9987/9187
Diagnostic – Spare 1–3	9910-9912/ 9110-9112
Diagnostic – System History	9974/9174
Diagnostic – View Displays	9983/9183
Seize Device	9973/9173
System History Freeze	9993/9193
System History Unfreeze	9998/9198

Default Administrator Feature Codes

Feature Name	Code (U.S./Eur.)
Automatic Diagnostics Delivery On/Off	9823
Clear Network Alarm	9851
Clear System Alarm	9850
Compression On/Off	9982/9182
Compression Statistics	9981/9181
Diagnostics On/Off	9900/9100
Enable Network Day	9862
Enable Network Night	9861
Modem Disable	9867
Modem Enable	9866
Modem Reset	9869
Night Ring On/Off	9860
Periodic Diagnostics On/Off	9825
Program Database	9932/9132
Program System Speed Dial	9801
Set Network Date/Time	9810
Set Time/Date	9800
Synchronize Network Time	9811

System Administrator Features

Use the administrator endpoint to program the following system features.

Setting the System Day or Night Mode

Dial **9860**. NIGHT MODE IS ON (or OFF) appears followed by THE SYSTEM IS IN NIGHT MODE, if the system is in Night Mode. In Day Mode, the display returns to the idle state.

Responding to Alarm Messages

1. When a minor alarm indication appears, write down the alarm information.
2. While on-hook, dial **9850** (Clear System Alarm) or dial **9851** (Clear Network Alarm).
3. Look up the alarm in the administrator guide and take the appropriate action.

Setting the System or Network Date and Time

1. Dial **9800** (single node) or **9810** (multi-node). The programmed date appears.
2. Use the dialpad buttons to enter the month, day, and year. For example, enter **020308** for February 3, 2008.
3. Use the dialpad buttons to enter the time in hours and minutes. For example, enter **0900** for 9:00.
4. If the system is set for 12-hour display format, SELECT AM OR PM appears. Press **1** (or the **AM** menu button) for A.M. or press **2** (or the **PM** menu button) for P.M. SYSTEM DATE AND TIME UPDATED appears.

Synchronizing Network Time

Dial **9811**. NETWORK TIME SYNCHRONIZED appears.

Programming System Speed-Dial Numbers

1. Dial **9801**. PROGRAM SYS SPD # <number range> appears.
2. Enter the System Speed Dial location code (**000–999** or **0000–4999**). ENTER NAME <current name> appears.
3. Enter the name or leave the existing name. See the table below for dialpad characters.
4. Press **#** or the **ACCEPT** menu button. ENTER NUMBER appears.
5. Enter the number, up to 48 digits, using one of the following methods:
 - Press the **REDIAL** menu button to enter the last *external* number dialed or saved.
 - Use the dialpad to enter the number. In Numeric Mode, you can press **#** to enter a hyphen (-) or press ***** to enter a colon (:). If you make a mistake, press the backspace button to delete the last characters entered.
6. Press **#** or the **ACCEPT** menu button to save the number. SYS SPD BIN # <number> UPDATED appears.

Number of Times Button is Pressed in Alpha Mode											
	1	2	3	4	5	6	7	8	9	10	11
Button	English/Spanish Characters					Japanese (Katakana) Characters ¹					
1	-	&	()	1	A	I	U	E	O	a
2	A	B	C	'	2	KA	KI	KU	KE	KO	i
3	D	E	F	!	3	SA	SHI	SU	SE	SO	u
4	G	H	I	*	4	TA	CHI	TSU	TE	TO	e
5	J	K	L	#	5	NA	NI	NU	NE	NO	o
6	M	N	O	ñ	6	HA	HI	FU	HE	HO	tsu
7	P	Q	R	S	7	MA	MI	MU	ME	MO	ya
8	T	U	V	?	8	YA	YU	YO	.	,	yu
9	W	X	Y	Z	9	RA	RI	RU	RE	RO	yo
0	@	:	.	,	0	WA	WO	N	pa	ba	long

1. Japanese characters are supported on Inter-Tel Protocol (ITP) Mode display endpoints only, and only if the Multilingual feature is enabled and Japanese is installed as the secondary language.

Part Number
580.8001



Mitel 5000
Administrator Endpoint Guide

Issue 3.1, December 2008

Notice

This document is released by Mitel Networks Corporation as a guide for endpoint administrators. It provides information necessary to properly administer the system.

The contents of this document reflect current company standards and are subject to revision or change without notice. Some features or applications mentioned may require a future release and are not available in this release. Future product features are subject to availability and cost. Some features may require additional hardware and/or specific software.

The contents of this guide may include technical or other inaccuracies. Mitel reserves the right to make revisions or changes without prior notice. Software packages released after the publication of this guide will be documented in addenda to the guide or succeeding issues of the guide.

For sales, service, or technical support, contact you local authorized Mitel provider.

Enter provider information above.

If you do not know the contact information for your local provider, use the “Strategic Partners & Resellers – Mitel Partner Locator” link at the top of the [Mitel Web site](http://www.mitel.com) (www.mitel.com) to locate a nearby office.

If you have any questions or comments regarding this guide or other technical documentation, contact the Technical Publications Department (USA) at:

tech_pubs@mitel.com

Mitel® is a registered trademark of Mitel Networks Corporation.
Inter-Tel® is a registered trademark of Inter-Tel (Delaware), Incorporated.

All other trademarks mentioned in this document are the property of their respective owners, including Mitel Networks Corporation and Inter-Tel (Delaware), Incorporated. All rights reserved.

© 2005–2008 Mitel Networks Corporation

Personal use of this material is permitted. However, permission to reprint/republish this material for advertising or promotional purposes or for creating new collective works for resale or redistribution to servers or lists, or to reuse any copyrighted component of this work in other works must be obtained from Mitel Networks Corporation.

Contents

Overview	1
Introduction	2
Administrator Types	2
Additional References	3
System Networks and Nodes	3
Multicultural English References	4
Endpoint and System Administration	5
Introduction	7
Endpoint Feature Button Differences	7
Dialpad Character Descriptions	7
Single-Node and Network (Multi-Node) Configurations	8
System Day and Night Modes	8
Setting a Single-Node System in Day or Night Mode	8
Selecting Nodes for Day or Night Mode	8
System Date and Time	9
Setting the System Date and Time	9
Synchronizing Network Times	10
System Speed Dial	10
Station (Endpoint) Programming Options	11
Enabling or Disabling Other Endpoints as Administrator Endpoints	11
Enabling or Disabling Attendant Endpoints	12
Programming Extension User Names	13
Programming Endpoint Toll Restrictions	14
System Programming Options	18
Entering an Administrator Endpoint Password	18
Changing Do-Not-Disturb (DND) Messages	19
Changing Default Reminder Messages	20
Changing Endpoint Extension Numbers	21
Swapping Endpoint Extension Numbers	22

Individual Trunk Programming Options	24
Programming the Trunk Answer Supervision Type	24
Programming Caller ID	26
Programming the Hybrid Balance Option	27
Programming DTMF or Dial Pulse Signalling	28
Programming Trunk Group Assignments	29
Programming the Busy Trunk Option	30
Trunk Group Programming Options	31
Programming Trunk Group Day or Night Answer Access	31
Programming Trunk Group Day or Night Ring-in	32
Programming Trunk Group Toll Restrictions	33
Programming Trunk Group Trunk Lists	34
Alarms	37
Alarm Types	37
Network Alarms	37
Alarm Differences	38
Responding to Alarms	38
Clearing Alarms	39
Internal Modem	41
Enabling or Disabling the Internal Modem	41
Resetting the Internal Modem	41
Network Group Diagnostics	42
Running Network Group Diagnostics	42
Seizing a Device	43
History Freezes	44
Freezing or Unfreezing the System History	44
Freezing or Unfreezing the Network History	44

Reference	45
<hr/>	
Troubleshooting Tips	46
System Administrator and Provider Information	46
Administrator Troubleshooting Tips	46
Programming Planning Sheets	47
Administrator Endpoint Password	47
Endpoint Information	47
Do-Not-Disturb Messages	48
Reminder Messages	49
Changing Station Extension Numbers	50
Swapping Stations	50
Individual Trunk Programming	51
Trunk Group Programming	51
Default Feature Codes	52
Administrator Feature Codes	52
Diagnostics Feature Codes	53
Trunk Access Codes	56
Endpoint Feature Codes	56
Index	63

Overview

Introduction	2
Administrator Types	2
Additional References	3
Feature References	3
Previous Software and Hardware Versions	3
Administrator Programming Planning Sheets	3
System Networks and Nodes	3
Multicultural English References	4

Introduction

This *Mitel 5000 Administrator Endpoint Guide* provides instructions to use your administrator endpoint to perform basic user and system administration. For quick access to frequently used feature instructions, you can use the removable Quick Reference Guide included with this guide.

You must have access to an administrator endpoint, an endpoint designated to perform system and endpoint administrative tasks, to perform tasks described in this guide. The system administrator assigns the administrator endpoint in the Mitel 5000 Database (DB) Programming application. See “[Administrator Types](#)” below.

For ease of use, when programming administrator features and to manage system alarm messages, Mitel recommends using a display endpoint, such as the Model 5340 IP endpoint, the 8662 IP endpoint, the Model 8660 IP endpoint, or the Model 8560 digital endpoint. You cannot use a single line (analog) endpoint as an administrator endpoint. See “Endpoint Feature Button Differences” on [page 7](#) for more details about these endpoints.

Administrator Types

The following administrator types are referenced in this guide:

- **Endpoint administrator** (the audience for this guide): Uses the administrator endpoint to perform various administrative functions such as changing system modes, managing alarms, and programming basic endpoint administration.
- **Voice Mail administrator**: Uses the administrator voice mailbox to perform end-user level voice mail administration. Refer to the appropriate Voice Mail Administrator Guide:
 - For Enterprise® Messaging and Basic Voice Mail, refer to the *Enterprise Messaging and Basic Voice Mail Administrator Guide*, part number 580.8009.
 - For NuPoint Messenger, refer to the NuPoint Messenger documentation at [Mitel Online Web site](#) (<http://www.edocs.mitel.com>). For NuPoint administration, refer to the *Web Console Help* and the *Technical Documentation Online Help*.
- **System administrator**: Uses the Mitel 5000 DB Programming application to configure all phone system and voice mail features for your organization. Your system administrator may be onsite, or you may rely on your local provider (the company that installed your phone system and now services it) for system administration. All sales, service, and technical support are handled at the local level by your authorized Mitel provider. If you do not know the contact information for your local provider, use the “Strategic Partners & Resellers – Mitel Partner Locator” link at the top of the [Mitel Web site](#) (www.mitel.com) to locate a nearby office.
- **Network administrator**: Maintains the network and performs network-related tasks.

Additional References

Refer to the following references for additional information.

Feature References

The administrator endpoint functions as both a standard system endpoint and an administrator endpoint. However, because this guide describes features that are programmed from the administrator endpoint only, refer to the appropriate endpoint user guides for detailed feature descriptions and end-user instructions.

Previous Software and Hardware Versions

This guide provides instructions for Mitel 5000 Network Communications Solutions v3.1 software. You may find that some features referenced in this guide do not apply to your system. For more information, refer to the hardware or software manuals for your product or software version. Contact your local authorized Mitel provider (the company that installed your phone system and now services it) for more information. If you do not have the contact information for your local provider, use the “Strategic Partners & Resellers – Mitel Partner Locator” link at the top of the [Mitel Web site](http://www.mitel.com) (www.mitel.com) to locate a nearby office.

Administrator Programming Planning Sheets

You can use the programming planning sheets to help you plan your site system and voice mail programming requirements. For programming planning sheets and default system feature codes, see the “Reference” chapter beginning on [page 45](#).

System Networks and Nodes

Two or more Mitel 5000 systems can be connected to form a network, providing a seamless interface between the systems. For example, a Mitel 5000 system in Phoenix, Arizona can be connected to another Mitel 5000 system in Tampa, Florida. System users can place calls across the network to other extensions as if they were in the same building. However, each system can have its own time settings, call configurations, System Speed-Dial contacts, and so on.

In this guide, all references to a *network* mean two or more connected systems. Each system in a network is called a *node*.

The maximum capacities for networking appear in [Table 1](#).

Table 1. *System Network Capacities*

Network Node or Device	Capacity
System Nodes per network	99
Local devices per node	304 ¹
Off-node devices per node	10,000 ²
Devices per network	40,000

1. The maximum number of endpoints and trunks that can be installed is limited by the number of voice channels and system memory resources available.
2. Depends on system licensing.

Multicultural English References

This guide is intended for audiences in the United States (U.S.) and in the Mitel European market, which includes the United Kingdom (U.K.). Because of this dual support, dual references are made to industry features, standards, and jargon, as appropriate throughout the document. For the purposes of this administrator guide, British English terms are assumed to apply to other English-speaking European cultures, as well.

For example, the U.S. telecom industry refers to an audio communication line between a public switching system and a private switching system as a “central office (CO) trunk.” In the U.K., this same type of line is called a “local exchange trunk.”

This guide does not make a distinction between American English and British English spellings of common words. Only American English spellings appear in this manual. For example, the word “analog” is not spelled as “analogue.”

Endpoint and System Administration

Introduction	7
Endpoint Feature Button Differences	7
Dialpad Character Descriptions	7
Single-Node and Network (Multi-Node) Configurations	8
System Day and Night Modes	8
Setting a Single-Node System in Day or Night Mode	8
Selecting Nodes for Day or Night Mode	8
System Date and Time	9
Setting the System Date and Time	9
Synchronizing Network Times	10
System Speed Dial	10
Station (Endpoint) Programming Options	11
Enabling or Disabling Other Endpoints as Administrator Endpoints	11
Enabling or Disabling Attendant Endpoints	12
Programming Extension User Names	13
Programming Endpoint Toll Restrictions	14
System Programming Options	18
Entering an Administrator Endpoint Password	18
Changing Do-Not-Disturb (DND) Messages	19
Changing Default Reminder Messages	20
Changing Endpoint Extension Numbers	21
Swapping Endpoint Extension Numbers	22
Individual Trunk Programming Options	24
Programming the Trunk Answer Supervision Type	24
Programming Caller ID	26
Programming the Hybrid Balance Option	27
Programming DTMF or Dial Pulse Signalling	28
Programming Trunk Group Assignments	29
Programming the Busy Trunk Option	30
Trunk Group Programming Options	31
Programming Trunk Group Day or Night Answer Access	31
Programming Trunk Group Day or Night Ring-in	32
Programming Trunk Group Toll Restrictions	33
Programming Trunk Group Trunk Lists	34

Alarms	37
Alarm Types	37
Network Alarms	37
Alarm Differences	38
Responding to Alarms	38
Clearing Alarms	39
Internal Modem	41
Enabling or Disabling the Internal Modem	41
Resetting the Internal Modem	41
Network Group Diagnostics	42
Running Network Group Diagnostics	42
Seizing a Device	43
History Freezes	44
Freezing or Unfreezing the System History	44
Freezing or Unfreezing the Network History	44

Introduction

You can use the administrator endpoint for several simple system administrative tasks. You may notice some feature differences between the endpoint types, as described below. Use a Model 5340, 8662, 8660, or 8560 endpoint to administer the system.

Endpoint Feature Button Differences

Table 2 describes differences between the Model 5340, 8662, 8660, and 8560 endpoints when using feature buttons to enter dialpad characters or activate features. For ease of use, this guide refers to buttons in procedures by name instead of the icon designation. For example, a procedure may refer to the **Backspace** button, which can be either the  (Mute) button (Models 8662, 8660, and 8560) or the  (Hold) button (Model 5340). Refer to the appropriate endpoint user guide for detailed endpoint feature descriptions.

Table 2. Model 8560, 8660, 8662, and 5340 Endpoint Button Differences

Button as Referenced in Procedures	Model 8562, 8660 and 8560	Model 5340
Backspace: Moves the cursor to the previous position when entering characters.	 (Mute)	 (Hold)
Forward: Moves the cursor to the next position when entering characters.	 (Forward)	 (Transfer)
Special: Sometimes required to enter feature codes.	 (Special)	 (Special)

Dialpad Character Descriptions

Table 3 shows dialpad character descriptions. When entering dialpad characters:

- To switch from Alpha Mode to Numeric Mode, press the **Message** button (button designation depends on endpoint type) or the **USE ALPHA MODE/USE NUMERIC MODE** menu button. The Message button and lamp button are lit in Alpha Mode. They are off in Numeric Mode.
- In Numeric Mode, you can press # for a hyphen (-) or * for a colon (:).

Table 3. Alphanumeric Equivalents for Dialpad Programming

Button	Number of Times Button is Pressed										
	1	2	3	4	5	6	7	8	9	10	11
	English/Spanish Characters					Japanese (Katakana) Characters ¹					
1	-	&	()	1	A	I	U	E	O	a
2	A	B	C	'	2	KA	KI	KU	KE	KO	i
3	D	E	F	!	3	SA	SHI	SU	SE	SO	u
4	G	H	I	*	4	TA	CHI	TSU	TE	TO	e
5	J	K	L	#	5	NA	NI	NU	NE	NO	o
6	M	N	O	ñ	6	HA	HI	FU	HE	HO	tsu
7	P	Q	R	S	7	MA	MI	MU	ME	MO	ya
8	T	U	V	?	8	YA	YU	YO	.	,	yu
9	W	X	Y	Z	9	RA	RI	RU	RE	RO	yo
0	@	:	.	,	0	WA	WO	N	pa	ba	long

1. Japanese characters are supported on Inter-Tel Protocol (ITP) Mode display endpoints only, and only if the Multilingual feature is enabled and Japanese is installed as the secondary language.

Single-Node and Network (Multi-Node) Configurations

Your system may be a stand-alone system (single node) or it may be connected to more than one node as a network (multi-node). In some cases, you can use the administrator endpoint to configure network node features. See “System Networks and Nodes” on [page 3](#) for more information.

System Day and Night Modes

Day or Night Mode determines a system trunk access, toll restriction, emergency outgoing access, and related features for all endpoints on a node. Active calls are not affected when you switch to Day or Night Mode.

Setting a Single-Node System in Day or Night Mode

You can set the local node in Day or Night Mode.

To set the Day or Night Mode status for a single-node:

Dial **9860**. NIGHT MODE IS ON (or OFF) appears followed by THE SYSTEM IS IN NIGHT MODE, if the system is in Night Mode. If the system is in Day Mode, the display returns to the idle state.

Selecting Nodes for Day or Night Mode

You can select system nodes for Day or Night Mode.

To turn on Night Mode for a specific node:

1. Dial **9861**. ENABLE NIGHT MODE ON NODE appears.
2. Enter the node number (**01–99**), or enter **00** to select all nodes (00 can also be used for a single-node configuration). ENABLED NETWORK NIGHT MODE appears followed by THE SYSTEM (or NODE <number>) IS IN NIGHT MODE.

To turn on Day Mode for a specific node:

1. Dial **9862**. ENABLE DAY MODE ON NODE appears.
2. When prompted, enter the node number (**01–99**). To select all nodes or for a single-node configuration, enter **00**. ENABLED NETWORK DAY MODE appears. The display then returns to the idle state.

System Date and Time

You can reset the system time or date when it is necessary, for example, when the system is defaulted or for daylight-savings time. The date and time are shown on all display endpoints and Station Message Detail Recording (SMDR) reports, which record call activity data.

If enabled in DB Programming, the Mitel 5000 supports Automatic Daylight Savings Time (British Summer Time, in Europe). If Network Time Protocol (NTP) is enabled for your system, the network date and time automatically synchronize daily at 12:15 A.M. with an identified atomic clock. Contact your system administrator for more information.

Setting the System Date and Time

You can change the date and time for an individual node or the entire network.

To set the system date and time:

NOTES

At any time, you can press * to return to the previous menu, or press the Speaker button to exit programming and cancel any unsaved changes.

The Japanese language is not supported on Mitel 5000-series endpoints.

For the Japanese language, enter the date as year, month, day. For example, **080203** for February 3, 2008. Also, time prompts are reversed, and you set AM or PM before the hour and minutes.

1. Dial **9800** (single node) or **9810** (multi-node). The programmed date appears.
If you do not need to change the date, press # or the **ACCEPT** menu button to skip to the TIME <programmed time> prompt, and then go to step 3.
2. Use the dialpad buttons to enter the month, day, and year. For example, enter **020308** for February 3, 2008. The day of the week is automatically calculated and set by the system when the date is entered. When finished, the displays shows the current time. If you entered the date incorrectly, INVALID DATE appears, and you are prompted to enter a new date.
If you do not need to change the time, press # or the **ACCEPT** menu button twice to exit. SYSTEM DATE AND TIME UPDATED appears.
3. Use the dialpad buttons to enter the time in hours and minutes. For example, enter **0900** for 9:00. If you entered the time incorrectly, INVALID TIME appears and you are prompted to enter a new time.
4. If the system is set for 12-hour display format, SELECT AM OR PM (AM=1 PM=2) appears. Press **1** (or the **AM** menu button) for A.M. or press **2** (or the **PM** menu button) for P.M. SYSTEM DATE AND TIME UPDATED appears. (If you press any button other than 1 or 2, INVALID TIME appears, and you are prompted to enter a new time.)

Synchronizing Network Times

You can synchronize the minutes past the hour across a network configuration without changing the hour. This is useful when nodes are in different time zones. If a node time is off by more than 30 minutes, synchronizing the minutes may cause the hour to change. Also, network time is automatically synchronized every day at 12:30 A.M. (00:30), using the time setting on the lowest node number.

NOTE

If enabled, an NTP synchronization overrides the Mitel 5000 system synchronization on any node that has NTP enabled (see “[System Date and Time](#)” above). Contact your system administrator for more information.

To synchronize the clocks in all nodes in the network:

Dial **9811**. NETWORK TIME SYNCHRONIZED appears.

System Speed Dial

You can program System Speed Dial numbers. Any system user can then use the System Speed Dial feature to dial the programmed numbers.

System Speed Dial numbers can include hookflashes or pauses for dialing a series of numbers. For example, a Speed Dial number can contain a pause, an access code, and a phone number.

To program or change System Speed Dial numbers and names:

NOTE

At any time, you can press * to return to the previous menu, or press the Speaker button to exit the programming session and cancel any unsaved changes.

1. Dial **9801**. PROGRAM SYS SPD # (**000-999**) appears.
2. Enter the Speed Dial location code (**000-999**). ENTER NAME *<current name>* appears.
3. Do one of the following:
 - Enter the name (or leave the existing name).
 - Press the **CLEAR** menu button or the backspace button (see [page 7](#)) repeatedly to erase the current name and leave it blank.
4. Press # or the **ACCEPT** menu button. ENTER NUMBER appears.
5. Enter the number, up to 48 digits, using one of the following methods:
 - Press the **REDIAL** menu button to enter the last *external* number dialed or saved.
 - Use the dialpad to manually enter the number. If you make a mistake, you can press the backspace button (see [page 7](#)) to move the cursor backward and delete the last characters entered.

NOTES

You can press the Special button (see [page 7](#)) once for an asterisk (*), twice for a pound (#), three times for a hookflash (F), or four times for a pause (P).

To use Private Branch Exchange (PBX) trunks in Speed Dial numbers, enter the other system trunk access codes followed by a pause. The lengths of the hookflash and the pause are determined by the programmable Central Office (CO) Hookflash and Pause Digit timers.

6. Press # or the **ACCEPT** menu button to save the number. You hear a single progress tone when the number is accepted. SYS SPD BIN # *<number>* UPDATED appears.

To delete System Speed Dial names or numbers:

1. Dial **9801**. PROGRAM SYS SPD # (**000–999**) appears.
2. Enter the Speed Dial location code (**000–999**). ENTER NAME <current name> appears.
3. Press the **CLEAR** menu button or the backspace button (see [page 7](#)) repeatedly until the name is deleted, and then press **#** or the **ACCEPT** menu button. ENTER NUMBER appears.
4. Press the backspace button (see [page 7](#)) repeatedly until the number is deleted.
5. Press **#** or the **ACCEPT** menu button to exit. SYS SPD BIN # <number> UPDATED appears.

Station (Endpoint) Programming Options

NOTE

Because the following programming changes are saved in the system database, you cannot make changes if the Mitel 5000 DB Programming application is open. If you try to make changes, DATABASE IN USE BY OTHER APPLICATIONS appears. The application must be closed before you can use the administrator endpoint to make changes. Contact your system administrator for more information.

The following sections describe station (endpoint) options that you can program with the administrator endpoint:

- “[Enabling or Disabling Other Endpoints as Administrator Endpoints](#)” below
- “[Enabling or Disabling Attendant Endpoints](#)” on [page 12](#)
- “[Programming Extension User Names](#)” on [page 13](#)
- “[Programming Endpoint Toll Restrictions](#)” on [page 14](#)

See Figure 1 on [page 17](#) for the Database Option flowchart.

Enabling or Disabling Other Endpoints as Administrator Endpoints

You can enable or disable other endpoints as additional administrator endpoints. However, you cannot use the administrator endpoint to disable itself.

To enable or disable administrator endpoints:

NOTE

At any time, you can press * to return to the previous menu, or press the Speaker button to exit the programming session and cancel any unsaved changes.

1. Dial **9932** (**9132** in Europe). If a password is required (see [page 18](#)), ENTER PASSWORD appears (otherwise, go to [step 3](#)).
2. Enter the password, and then press **#**. ENTER DATABASE OPTION (1 - 3) appears.
3. Press **1** or the **STATION** menu button. ENTER STATION EXTENSION appears.
4. Enter the extension number, or enter a partial extension number, and then press **#** or the **ACCEPT** menu button. The extension information that best matches the partial number appears. You can use the Volume buttons or the **NEXT** and **PREVIOUS** menu buttons to scroll through entries.
5. Press **#** or the **ACCEPT** menu button to accept the entry.
6. Press **1** or the **STATION FLAGS** menu button. ADMINISTRATOR (ON = 1 OFF = 2) appears.

7. Press **1** or the **ON** menu button to enable the endpoint as an administrator endpoint, or press **2** or the **OFF** menu button to disable the endpoint as an administrator endpoint.
8. Press **#** or the **ACCEPT** menu button. DATABASE UPDATED appears.
9. When you are finished with all programming, press the Speaker button or **#** repeatedly to exit the programming session.

Enabling or Disabling Attendant Endpoints

You can enable or disable other endpoints as Attendant endpoints. Attendant endpoints can be called by dialing 0 at the endpoints they serve. Usually, they are also programmed to provide these services:

- Central operators for incoming calls
- Message centers
- Recall endpoints for unanswered calls

To enable or disable Attendant endpoints:

NOTE At any time, you can press ***** to return to the previous menu, or press the Speaker button to exit the programming session and cancel any unsaved changes.

1. Dial **9932** (**9132** in Europe). If a password is required (see [page 18](#)), ENTER PASSWORD appears (otherwise, go to [step 3](#)).
2. Enter the password, and then press **#**. ENTER DATABASE OPTION (1 - 3) appears.
3. Press **1** or the **STATION** menu button. ENTER STATION EXTENSION appears.
4. Enter the extension number, or enter a partial extension number, and then press **#** or the **ACCEPT** menu button. The extension information that best matches the partial number appears. You can use the Volume buttons or the **NEXT** and **PREVIOUS** menu buttons to scroll through entries.
5. Press **#** or the **ACCEPT** menu button to accept the entry.
6. Press **2** or the **STATION INFO** menu button. ENTER STN INFO OPTION (1-2) appears.
7. Press **1** or the **ATTENDANT** menu button. ENTER ATTENDANT EXTENSION appears.

NOTE If NO ATTENDANTS PROGRAMMED appears, attendants must be programmed in DB Programming before you can assign other stations as attendants. If applicable, contact your system administrator for assistance.

8. Enter the extension of the endpoint to be assigned as an Attendant. When the display shows the circuit information, press **#** again to return to the ENTER STATION INFO OPTION prompt. If necessary, repeat steps [7](#) and [8](#) for additional Attendant endpoints.
9. When you are finished with all programming, press the Speaker button or **#** repeatedly to exit the programming session.

Programming Extension User Names

You can assign user names (the name shown on the display) to other system endpoints. You can also change existing user names.

To program user names:

NOTE

At any time, you can press * to return to the previous menu, or press the Speaker button to exit the programming session and cancel any unsaved changes.

1. Dial **9932** (**9132** in Europe). If a password is required (see [page 18](#)), ENTER PASSWORD appears (otherwise, go to [step 3](#)).
2. Enter the password, and then press #. ENTER DATABASE OPTION (1 - 3) appears.
3. Press **1** or the **STATION** menu button. ENTER STATION EXTENSION appears.
4. Enter the extension number, or enter a partial extension number, and then press # or the **ACCEPT** menu button. The extension information that best matches the partial number appears. You can use the Volume buttons or the **NEXT** and **PREVIOUS** menu buttons to scroll through entries.
5. Press # or the **ACCEPT** menu button to accept the entry. ENTER STATION OPTION (1 - 3) appears.
6. Press **2** or the **STATION INFO** menu button. ENTER STATION INFO OPTION (1 - 2) appears.
7. Press **2** or the **USERNAME** menu button. ENTER USERNAME appears.
8. Enter the user name (up to 10 characters) using the dialpad buttons. See "Dialpad Character Descriptions" on [page 7](#) for dialpad character descriptions.
9. Press # or the **ACCEPT** menu button. DATABASE UPDATED appears.
10. When you are finished with all programming, press the Speaker button or # repeatedly to exit the programming session.

Programming Endpoint Toll Restrictions

You can program toll restriction classes of service (COS) for specific system endpoints. A COS restricts or allows certain digit patterns when external phone numbers are dialed. COS options are programmed individually for endpoints, voice processing system applications, and trunk groups. Separate COS designations are available for Day and Night Modes. An endpoint or trunk group can have a combination of COS restrictions. See [page 16](#) for instructions.

NOTES	<p>System Speed Dial numbers can be programmed to bypass COS restrictions on a system-wide basis. If the option is not enabled, all System Speed Dial numbers are subject to toll restriction.</p> <p>Because conditions may exist when critical or life-threatening situations need to be reported, the Emergency Call access code (911 U.S. or 999/112 Europe) overrides all toll restrictions and trunk access programming.</p>
--------------	--

Table 4 below and Table 5 on [page 15](#) describe default U.S. and European COS values.

Table 4. Default U.S. Class of Service Values

COS	Name	Restriction
01	ARS Only	<i>This is an endpoint class of service only. It is not used for trunk groups. Also, the Automatic Route Selection (ARS) feature, which is standard on the Mitel 5000 platform, is required. Calls can only be placed using the ARS feature. The user hears reorder tones when attempting to place a call using any other method. A restricted user can still select individual trunks if the trunks are designated as “exempt from ARS Only,” or if they were transferred, were placed on hold, or are recalling or ringing. Trunk restriction determines which trunks in the ARS route group can be selected by the endpoint or application.</i>
02	Deny Area/Office	This restriction is divided into eight user groups to allow the use of varying area/office code restriction tables. This is useful for reducing restrictions for some of the endpoints, applications, or trunk groups while increasing restrictions for others. Each endpoint, application, and trunk group is assigned a day mode and a night mode user group in DB Programming. Within each user group, area codes can be designated as restricted, allowed, or extended. Restricting an area code prevents users from placing calls to that area code. Allowing an area code allows all office codes within that area code. Designating an area code as extended allows the programmer to determine which office codes (up to 800) are allowed or restricted within that area code.
03	Deny Operator	Calls to operator numbers are restricted.
04	Deny Toll Access	Calls to numbers containing a toll string (defaults to 1) are restricted.
05	Deny International	Calls to international numbers are restricted.
06	Deny Equal Access	Calls that begin with equal access digits (10XXX or 101XXXX) are restricted.
07	Deny Local Calls	Calls to local numbers are restricted.
08	Denied Numbers	Calls to programmed “denied” numbers (defaults to 1900NXXXXXX+ and 976XXXX+) are restricted.
09	Allowed Numbers	Calls to programmed “allowed” numbers (defaults to 1800NXXXXXX+) are allowed, even if number also matches a dial pattern in a restricted class of service that is assigned to the endpoint, application, or trunk group being used.
COS designations 01 to 09 have default values. COS designations (10 to 16) do not have default values and are blank. All COSs are programmable. Each may be specified as an “allowed” or “denied” class of service, dialing patterns can be programmed for each, and each can be assigned to endpoints and trunk groups as needed.		

Table 5. *Default European Class of Service Values*

COS	Name	Restriction
01	ARS Only	<i>This is an endpoint class of service only. It is not used for trunk groups. Also, the Automatic Route Selection (ARS) feature, which is standard on the Mitel 5000 platform, is required. Calls can only be placed using the ARS feature. The user hears reorder tones when attempting to place a call using any other method. A restricted user can still select individual trunks if the trunks are designated as “exempt from ARS Only,” or if they were transferred, were placed on hold, or are recalling or ringing. Trunk restriction determines which trunks in the ARS route group can be selected by the endpoint or application.</i>
02	Deny Operator	Calls to operator numbers are restricted.
03	Deny Toll Access	Calls to numbers containing a toll string (TN+, TE, 010+, and T1+) are restricted.
04	Deny International	Calls to international numbers (I+) are restricted.
05	Deny Local Calls	Calls to local numbers (N+) are restricted.
06	Denied Numbers	Calls to programmed “denied” numbers (0891+ and 0898+) are restricted.
07	Allowed Numbers	Calls to programmed “allowed” numbers (0345+, 0500+, 0645+, and 0800+) are allowed, even if number also matches a dial pattern in a restricted class of service that is assigned to the endpoint, application, or trunk group being used.
<p>Calls are restricted only if the dialed patterns match the denied pattern exactly. COS designations 01–07 have default values. COS designations 10–16 do not have default values and are blank. All of the classes of service are programmable. Each may be specified as an “allowed” or “denied” class of service, dialing patterns can be programmed for each, and each can be assigned to endpoints and trunk groups as needed.</p>		

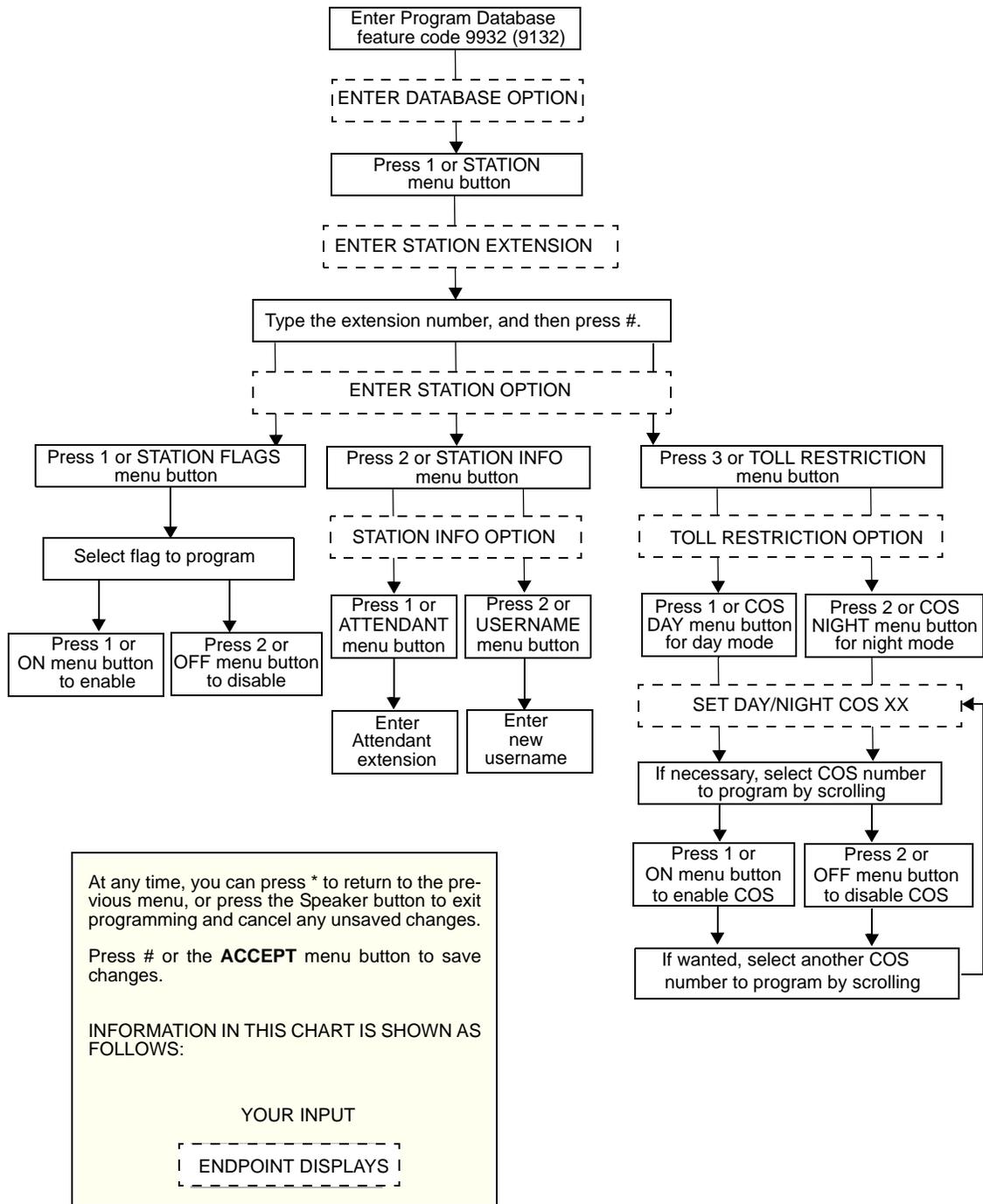
To program toll restrictions for specific endpoints:

NOTE

At any time, you can press * to return to the previous menu, or press the Speaker button to exit the programming session and cancel any unsaved changes.

1. Dial **9932** (**9132** in Europe). If a password is required (see [page 18](#)), ENTER PASSWORD appears (otherwise, go to [step 3](#)).
2. Enter the password, and then press #. ENTER DATABASE OPTION (1 - 3) appears.
3. Press **1** or the **STATION** menu button. ENTER STATION EXTENSION appears.
4. Enter the extension number, or enter a partial extension number, and then press # or the **ACCEPT** menu button. The extension information that best matches the partial number appears. You can use the Volume buttons or the **NEXT** and **PREVIOUS** menu buttons to scroll through entries.
5. Press # or the **ACCEPT** menu button to accept the entry. ENTER STATION OPTION (1 - 3) appears.
6. Press **3** or the **TOLL RESTRICTION** menu button. TOLL RESTRICTION OPTION (1 - 2) appears.
7. Do one of the following:
 - Press **1** or the **COS DAY** menu button for day mode.
 - Press **2** or the **COS NIGHT** menu button for night mode.SET DAY (or NIGHT) COS XX appears. If this is not the COS you want to program, use the Volume buttons or the **NEXT** and **PREVIOUS** menu buttons to scroll through the options. See Table 4 on [page 14](#) (U.S.) or Table 5 on [page 15](#) (Europe) for COS descriptions.
8. When the display shows the correct COS, press **1** or the **ON** menu button to enable the toll restriction, or press **2** or the **OFF** menu button to disable it.
9. Press # or the **ACCEPT** menu button to save the COS programming. DATABASE UPDATED appears followed by the TOLL RESTRICTION OPTION menu.
10. Repeat steps **6** through **8** as necessary to program additional toll restrictions.
11. When you are finished with all programming, press the Speaker button or # repeatedly to exit the programming session.

Figure 1. Station Programming Flowchart



System Programming Options

The following sections describe system options that you can program with the administrator endpoint:

- “Entering an Administrator Endpoint Password” below
- “Changing Do-Not-Disturb (DND) Messages” on [page 19](#)
- “Changing Default Reminder Messages” on [page 20](#)
- “Changing Endpoint Extension Numbers” on [page 21](#)
- “Swapping Endpoint Extension Numbers” on [page 22](#)

See Figure 2 on [page 23](#) for the System Database flowchart.

Entering an Administrator Endpoint Password

Because several of the features described in this guide are accessed and configured in the system database, you should use a password to prevent unauthorized access.

You cannot use your administrator endpoint to assign passwords to other administrator endpoints. Passwords must be assigned at the administrator endpoint where the password is used.

To enter an administrator endpoint password:

NOTE

At any time, you can press * to return to the previous menu, or press the Speaker button to exit the programming session and cancel any unsaved changes.

1. Dial **9932** (**9132** in Europe).
2. Press **2** or the **SYSTEM** menu button. ENTER SYSTEM OPTION (1 - 4) appears.
3. Press **2** or the **PASSWORD** menu button. CHANGE PASSWORD TO appears.
4. Do one of the following:
 - Enter a password (1 to 8 digits), and then press **#**.
 - Press **#** to erase the password and leave it blank.VERIFY PASSWORD appears.
5. Enter the password exactly as you did in [step 4](#) above followed by **#**. DATABASE UPDATED appears followed by the ENTER SYSTEM OPTION (1 - 4) menu. If you hear reorder/fast-busy tones and see an error message, the passwords did not match and you must start over at the CHANGE PASSWORD prompt.
6. When you are finished with all programming, press the Speaker button or **#** repeatedly to exit the programming session.

Changing Do-Not-Disturb (DND) Messages

You can delete or change the default DND messages. An endpoint in DND halts all pages, incoming intercom calls, camped-on calls, and transferred calls to that endpoint. Queue callbacks, recalls, and direct ring-in calls are not blocked. Another user calling the endpoint while it is in DND hears a repeating signal of four fast tones and a pause. Display endpoints show the DND message. The caller cannot camp on, but can queue or leave a station message at the endpoint.

In a network, each node has a list of DND messages that can be used only on that node. For reference, you can view default DND messages and record new messages in Table 9 on [page 48](#). Refer to the appropriate endpoint user guide for more information about using DND Messages.

NOTES

When using primary and secondary languages, the system has default DND messages in both languages. When changing DND messages, you should keep the meanings for the messages in both lists the same. For example, if you change the primary language DND message “02” to “PAGE ME,” program a similar message for message “02” in the secondary language.

You must use a Model 8660/8662 six-line display endpoint to reprogram messages that use Katakana (Japanese) characters. The Japanese language is not supported on the 5000-series endpoints.

To program DND messages:

NOTE

At any time, you can press * to return to the previous menu, or press the Speaker button to exit the programming session and cancel any unsaved changes.

1. Dial **9932** (**9132** in Europe). If a password is required (see [page 18](#)), ENTER PASSWORD appears (otherwise, go to [step 3](#)).
2. Enter the password, and then press #. ENTER DATABASE OPTION (1 - 3) appears.
3. Press **2** or the **SYSTEM** menu button. ENTER SYSTEM OPTION (1 - 4) appears.
4. Press **1** or the **DND MESSAGES** menu button. SELECT DND MESSAGE # (01 - 20) appears.
5. Do one of the following:
 - Enter a message number, and then press #.
 - Press the **SCROLL** menu button, and then use the Volume buttons or the **NEXT** and **PREVIOUS** menu buttons to scroll through the options.
6. When the display shows the message that you want to change, enter the 1- to 16-character new message (you do not have to select the message). See “Dialpad Character Descriptions” on [page 7](#) for dialpad character descriptions.
7. Press # or the **ACCEPT** menu button. <Message> SCROLL OR EDIT appears.
8. Press # or the **ACCEPT** menu button again. SELECT DND MESSAGE # (01 - 20) appears. To program another message, scroll to the message you want and repeat steps [6](#) and [7](#). After programming all messages, press # while the display shows SELECT DND MESSAGE # (01 - 20). DATABASE UPDATED appears followed by ENTER SYSTEM OPTION (1 - 4).

NOTE

You must return to the ENTER SYSTEM OPTION (1 - 4) menu to save DND message changes.

9. When you are finished with all programming, press the Speaker button or # repeatedly to exit the programming session.

Changing Default Reminder Messages

You can delete or change the default Reminder Messages. Reminder messages are set to signal an endpoint at a specified time. The user can select one of 20 different messages and set the reminder time up to 24 hours in advance.

In a network, each node has a list of Reminder Messages that can be used only on that node. For reference, you can view default Reminder Messages or record new messages in the table on Table 10 on [page 49](#). Refer to the appropriate endpoint user guide for more information about using Reminder Messages.

NOTES

When using primary and secondary languages, the system has default Reminder messages in both languages. When changing Reminder messages, you should keep the meanings for the messages in both lists the same. For example, if you change the primary language DND message "02" to "Go to Airport," program a similar message for message "02" in the secondary language.

You must use a Model 8660/8662 six-line display endpoint to reprogram messages that use Katakana (Japanese) characters. The Japanese language is not supported on the 5000-series endpoints.

To change default Reminder Messages:

NOTE

At any time, you can press * to return to the previous menu, or press the Speaker button to exit the programming session and cancel any unsaved changes.

1. Dial **9932** (**9132** in Europe). If a password is required (see [page 18](#)), ENTER PASSWORD appears (otherwise, go to [step 3](#)).
2. Enter the password, and then press #. ENTER DATABASE OPTION (1 - 3) appears.
3. Press **2** or the **SYSTEM** menu button. ENTER SYSTEM OPTION (1 - 4) appears.
4. Press **3** or the **REMINDER MSGS** menu button. SELECT REMINDER MSG # (1 - 20) appears.
5. Do one of the following:
 - Enter a message number, and then press #.
 - Press the **SCROLL** menu button, and then use the Volume buttons or the **NEXT** and **PREVIOUS** menu buttons to scroll through the options.
6. When the display shows the message that you want to change, enter the 1- to 16-character new message (you do not have to select the message). See "Dialpad Character Descriptions" on [page 7](#) for dialpad character descriptions.
7. Press # or the **ACCEPT** menu button. <Message> SCROLL OR EDIT appears.
8. Press # or the **ACCEPT** menu button again. SELECT REMINDER MESSAGE # (01 - 20) appears. To program another message, scroll to the message you want and repeat steps [6](#) and [7](#). After programming all messages, press # while the display shows SELECT REMINDER MESSAGE # (01 - 20). DATABASE UPDATED appears followed by ENTER SYSTEM OPTION (1 - 4).

NOTE

You must return to the ENTER SYSTEM OPTION (1 - 4) menu to save Reminder Message changes.

9. When you are finished with all programming, press the Speaker button or # repeatedly to exit the programming session.

Changing Endpoint Extension Numbers

You can change the extension number for any system endpoint. The new extension number cannot be the same as an existing number.

To change an endpoint extension number:

NOTE At any time, you can press * to return to the previous menu, or press the Speaker button to exit the programming session and cancel any unsaved changes.

1. Dial **9932** (**9132** in Europe). If a password is required (see [page 18](#)), ENTER PASSWORD appears (otherwise, go to [step 3](#)).
2. Enter the password, and then press #. ENTER DATABASE OPTION (1 - 3) appears.
3. Press **2** or the **SYSTEM** menu button. ENTER SYSTEM OPTION (1 - 4) appears.
4. Press **4** or the **STN EXTENSION** menu button. ENTER SYS STN OPTION (1 - 2) appears.
5. Press **1** or the **CHANGE EXT** menu button. ENTER STATION EXTENSION appears.
6. Enter the extension number, or enter a partial extension number, and then press # or the **ACCEPT** menu button. The extension information that best matches the partial number appears. You can use the Volume buttons or the **NEXT** and **PREVIOUS** menu buttons to scroll through entries.
7. Press # or the **ACCEPT** menu button to accept the entry.
After you select an extension, CHANGE <extension> TO EXTENSION appears.
8. Enter the new extension number for the endpoint, and then press # or the **ACCEPT** menu button to accept the entry. UPDATING DATABASE appears for approximately four seconds followed by DATABASE UPDATED.

NOTE If you entered an extension number that is already assigned, CONFLICTING EXTENSION appears. After ENTER STATION EXTENSION appears, enter another extension number.

9. When you are finished with all programming, press the Speaker button or # repeatedly to exit the programming session.

Swapping Endpoint Extension Numbers

An endpoint extension number can be reassigned to (swapped with) another endpoint. To swap extensions, the two affected endpoints must meet the following criteria:

- Both endpoints (and the administrator endpoint) must reside on the same node.
- Both endpoints must be the same type. For example, if you are swapping a Model 8662 ITP Mode endpoint extension number with another system extension number, the other extension number must be assigned to another ITP Mode Model 8662. This applies to all device types.
- Neither device can be the administrator endpoint performing the swap.

To swap endpoint extension numbers:

NOTE

At any time, you can press * to return to the previous menu, or press the Speaker button to exit the programming session and cancel any unsaved changes.

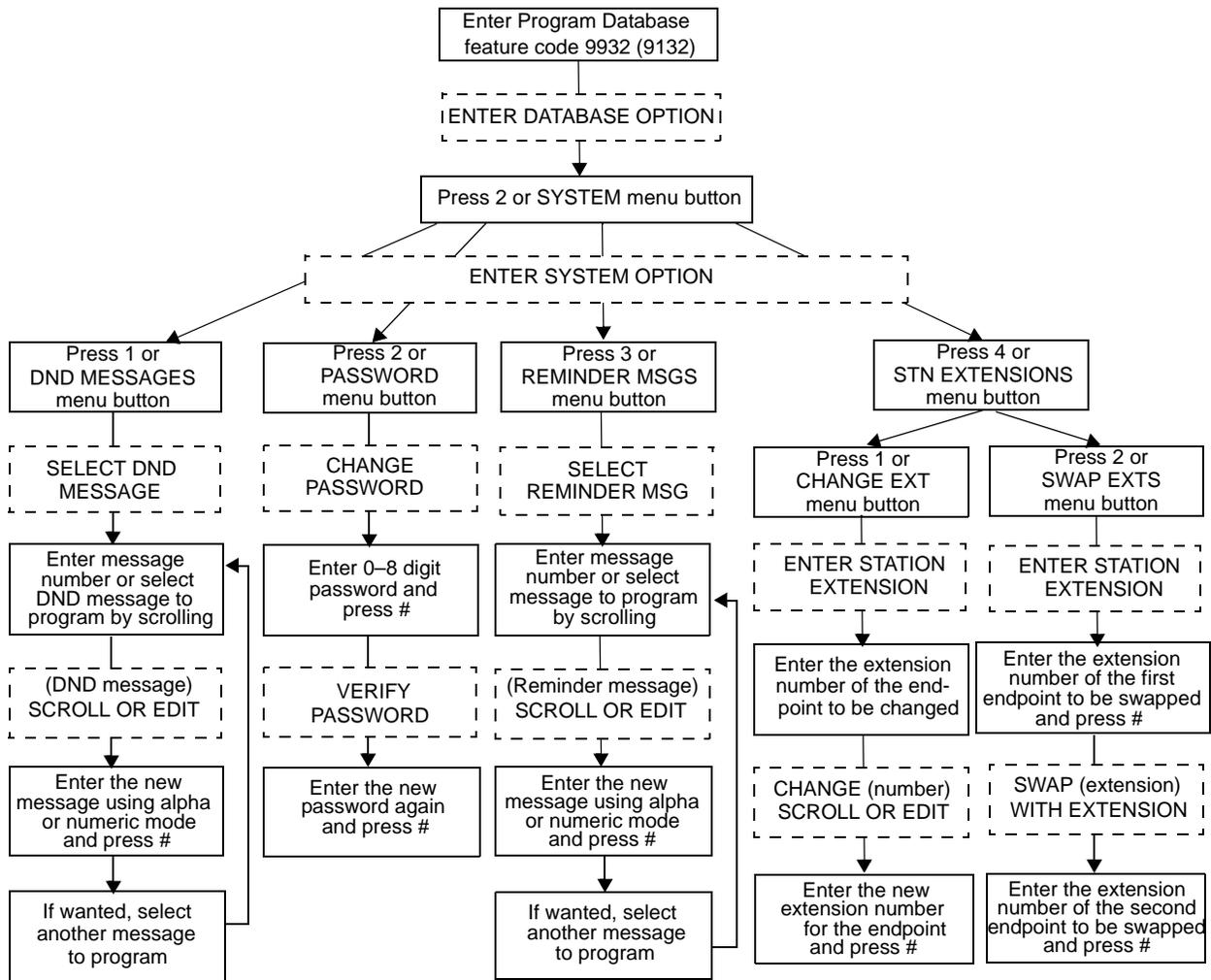
1. Dial **9932** (**9132** in Europe). If a password is required (see [page 18](#)), ENTER PASSWORD appears (otherwise, go to [step 3](#)).
2. Enter the password, and then press #. ENTER DATABASE OPTION (1 - 3) appears.
3. Press **2** or the **SYSTEM** menu button. ENTER SYSTEM OPTION (1 - 4) appears.
4. Press **4** or the **STN EXTENSION** menu button.
5. Press **2** or **SWAP EXTS**. ENTER STATION EXTENSION appears.
6. Enter the extension number, or enter a partial extension number, and then press # or the **ACCEPT** menu button. The extension information that best matches the partial number appears. You can use the Volume buttons or the **NEXT** and **PREVIOUS** menu buttons to scroll through entries.
7. Press # or the **ACCEPT** menu button to accept the entry. SWAP <extension> WITH EXTENSION appears.
8. Enter the *second* extension number to be swapped. DATABASE UPDATED appears.

NOTE

CONFLICTING EXTENSION appears if the entered extension is the administrator endpoint performing the swap, the same extension number as the target endpoint, or the wrong device type.

9. After ENTER SYSTEM OPTION (1 - 4) appears, press # again to exit to the ENTER DATABASE OPTION menu.
10. When you are finished with all programming, press the Speaker button or # repeatedly to exit the programming session.

Figure 2. System Database Programming Flowchart



At any time, you can press * to return to the previous menu, or press the Speaker button to exit programming and cancel any unsaved changes.

Press # or the **ACCEPT** menu button to save changes.

INFORMATION IN THIS CHART IS SHOWN AS FOLLOWS:

YOUR INPUT

ENDPOINT DISPLAYS

Individual Trunk Programming Options

You can program the following individual trunk options:

- “Programming the Trunk Answer Supervision Type” below
- “Programming Caller ID” on [page 26](#)
- “Programming the Hybrid Balance Option” on [page 27](#)
- “Programming DTMF or Dial Pulse Signalling” on [page 28](#)
- “Programming Trunk Group Assignments” on [page 29](#)
- “Programming the Busy Trunk Option” on [page 30](#)

See Figure 3 on [page 35](#) for the Trunk Database flowchart.

Programming the Trunk Answer Supervision Type

Answer Supervision determines whether the system should consider a call valid when it receives polarity reversal from the CO, or wait for the Valid Call timer to expire. Any outside call put on hold becomes valid immediately, regardless of Answer Supervision or Valid Call timer status. There are three Answer Supervision Type options:

- **Polarity Reversal:** A loop reversal must be received to consider the call valid. When the first loop reversal is received, the call is made valid immediately, and the endpoint display shows the call cost. When a second loop reversal is received, the system terminates the call. If a second loop reversal is not received, the system does not terminate the call unless the inside party hangs up or loss-of-loop is received from the telephone company.
- **Valid Call Timer:** The call is validated after the Valid Call Timer expires. All polarity reversals received before and after the Valid Call Timer are ignored.
- **Valid Call Timer with Polarity Reversal:** If a loop reversal is received before the Valid Call Timer expires, the call will be made valid immediately, and the endpoint display shows call cost. When a second loop reversal is received, the system terminates the call. If a loop reversal is not received before the Valid Call Timer expires, the call is made valid by the timer. If a loop reversal is received after the timer expires, the loop reversal is ignored, but the call cost is reset. If a second loop reversal is then received, the system terminates the call. If a second loop reversal is not received, the system will not terminate the call unless the inside party hangs up or loss-of-loop is received from the telephone company.

See [page 25](#) for programming instructions.

To program the Answer Supervision Type:

NOTE

At any time, you can press * to return to the previous menu, or press the Speaker button to exit the programming session and cancel any unsaved changes.

1. Dial **9932** (**9132** in Europe). If a password is required (see [page 18](#)), ENTER PASSWORD appears (otherwise, go to [step 3](#)).
2. Enter the password, and then press #. ENTER DATABASE OPTION (1 - 3) appears.
3. Press **3** or the **TRUNK** menu button. ENTER TRUNK OPTION appears.
4. Press **1** or the **INDIVIDUAL TRUNK** menu button. ENTER TRUNK EXTENSION appears.
5. Enter the extension number, or enter a partial extension number, and then press # or the **ACCEPT** menu button. The extension information that best matches the partial number appears. You can use the Volume buttons or the **NEXT** and **PREVIOUS** menu buttons to scroll through entries.
6. Press # or the **ACCEPT** menu button to accept the entry.
7. Press **1** or the **ANS SUPERVISION** menu button. ANS SUPERVISION OPTION (1 - 3) appears.
8. Select one of the following:
 - Press **1** or the **POLARITY-REVERSE** menu button for the polarity-reversal supervision type.
 - Press **2** or the **VALID CALL** menu button for Valid Call timer supervision.
 - Press **3** or the **VALID + POLARITY** menu button for Valid Call timer with Polarity Reversal supervision.
9. Press # or the **ACCEPT** menu button to accept the entry. DATABASE UPDATED appears.
10. When you are finished with all programming, press the Speaker button or # repeatedly to exit the programming session.

Programming Caller ID

You can enable or disable incoming and outgoing Caller ID for individual trunks.

To program Caller ID for an individual trunk:

NOTE

At any time, you can press * to return to the previous menu, or press the Speaker button to exit the programming session and cancel any unsaved changes.

1. Dial **9932** (**9132** in Europe). If a password is required (see [page 18](#)), ENTER PASSWORD appears (otherwise, go to [step 3](#)).
2. Enter the password, and then press #. ENTER DATABASE OPTION (1 - 3) appears.
3. Press **3** or the **TRUNK** menu button. ENTER TRUNK OPTION appears.
4. Press **1** or the **INDIVIDUAL TRUNK** menu button. ENTER TRUNK EXTENSION appears.
5. Enter the extension number, or enter a partial extension number, and then press # or the **ACCEPT** menu button. The extension information that best matches the partial number appears. You can use the Volume buttons or the **NEXT** and **PREVIOUS** menu buttons to scroll through entries.
6. Press # or the **ACCEPT** menu button to accept the entry.
7. Press **2** or the **CALLER ID** menu button. SET CALLER ID (ON = 1 OFF = 2) appears.
8. Press **1** or the **ON** menu button to enable CALLER ID, or press **2** or the **OFF** menu button to disable it.
9. Press # or the **ACCEPT** menu button to accept the entry. DATABASE UPDATED appears.
10. When you are finished with all programming, press the Speaker button or # repeatedly to exit the programming session.

Programming the Hybrid Balance Option

A field technician runs a Hybrid Balance Test to ensure that analog trunks connected to the Mitel 5000 system have the best hybrid balance settings. You can change the hybrid balance setting for individual trunks.

To program the Hybrid Balance Option:

NOTE

At any time, you can press * to return to the previous menu, or press the Speaker button to exit the programming session and cancel any unsaved changes.

1. Dial **9932** (**9132** in Europe). If a password is required (see [page 18](#)), ENTER PASSWORD appears (otherwise, go to [step 3](#)).
2. Enter the password, and then press **#**. ENTER DATABASE OPTION (1 - 3) appears.
3. Press **3** or the **TRUNK** menu button. ENTER TRUNK OPTION appears.
4. Press **1** or the **INDIVIDUAL TRUNK** menu button. ENTER TRUNK EXTENSION appears.
5. Enter the extension number, or enter a partial extension number, and then press **#** or the **ACCEPT** menu button. The extension information that best matches the partial number appears. You can use the Volume buttons or the **NEXT** and **PREVIOUS** menu buttons to scroll through entries.
6. Press **#** or the **ACCEPT** menu button to accept the entry.
7. Press **3** or the **HYBRID BALANCE** menu button. HYBRID BALANCE OPTION (0 - 7) appears.
8. Enter the Hybrid Balance option (**0** to **7**), or use the Volume buttons or the **NEXT** and **PREVIOUS** menu buttons to scroll through entries.
9. Press **#** or the **ACCEPT** menu button to accept the entry. DATABASE UPDATED appears.
10. When you are finished with all programming, press the Speaker button or **#** repeatedly to exit the programming session.

Programming DTMF or Dial Pulse Signalling

You can program trunks for dual tone multi-frequency (DTMF) or dial pulse signalling.

To program DTMF or dial pulse signalling:

NOTE

At any time, you can press * to return to the previous menu, or press the Speaker button to exit the programming session and cancel any unsaved changes.

1. Dial **9932** (**9132** in Europe). If a password is required (see [page 18](#)), ENTER PASSWORD appears (otherwise, go to [step 3](#)).
2. Enter the password, and then press #. ENTER DATABASE OPTION (1 - 3) appears.
3. Press **3** or the **TRUNK** menu button. ENTER TRUNK OPTION appears.
4. Press **1** or the **INDIVIDUAL TRUNK** menu button. ENTER TRUNK EXTENSION appears.
5. Enter the extension number, or enter a partial extension number, and then press # or the **ACCEPT** menu button. The extension information that best matches the partial number appears. You can use the Volume buttons or the **NEXT** and **PREVIOUS** menu buttons to scroll through entries.
6. Press # or the **ACCEPT** menu button to accept the entry.
7. Press **4** or the **SIGNALLING** menu button. ENTER SIGNALLING OPTION (1 - 2) appears.
8. Press **1** or the **DTMF** menu button, or press **2** or the **PULSE** menu button.
9. Press # or the **ACCEPT** menu button to accept the entry. DATABASE UPDATED appears.
10. When you are finished with all programming, press the Speaker button or # repeatedly to exit the programming session.

Programming Trunk Group Assignments

Each trunk must be assigned to a trunk group. You change the trunk group assignment for an individual trunk.

To assign a trunk to a different trunk group:

NOTE

At any time, you can press * to return to the previous menu, or press the Speaker button to exit the programming session and cancel any unsaved changes.

1. Dial **9932** (**9132** in Europe). If a password is required (see [page 18](#)), ENTER PASSWORD appears (otherwise, go to [step 3](#)).
2. Enter the password, and then press #. ENTER DATABASE OPTION (1 - 3) appears.
3. Press **3** or the **TRUNK** menu button. ENTER TRUNK OPTION appears.
4. Press **1** or the **INDIVIDUAL TRUNK** menu button. ENTER TRUNK EXTENSION appears.
5. Enter the extension number, or enter a partial extension number, and then press # or the **ACCEPT** menu button. The extension information that best matches the partial number appears. You can use the Volume buttons or the **NEXT** and **PREVIOUS** menu buttons to scroll through entries.
6. Press # or the **ACCEPT** menu button to accept the entry.
7. Press **5** or the **TRUNK GROUP** menu button. ENTER TRUNK GRP EXTENSION appears.
8. Enter the trunk group number, or use the Volume buttons or the **NEXT** and **PREVIOUS** menu buttons to scroll through entries.
9. Press # or the **ACCEPT** menu button to accept the entry. DATABASE UPDATED appears.
10. When you are finished with all programming, press the Speaker button or # repeatedly to exit the programming session.

Programming the Busy Trunk Option

You can temporarily disable a trunk from service. While it is out of service it cannot be used to place outgoing calls. However, incoming calls on analog trunks will still ring in and can be answered. Incoming calls on Integrated Services Digital Network (ISDN) trunks cannot be answered. The trunk remains out of service until the Trunk Busy Out timer expires or until you place the trunk back in service.

To program the Busy Trunk option:

NOTE

At any time, you can press * to return to the previous menu, or press the Speaker button to exit the programming session and cancel any unsaved changes.

1. Dial **9932** (**9132** in Europe). If a password is required (see [page 18](#)), ENTER PASSWORD appears (otherwise, go to [step 3](#)).
2. Enter the password, and then press **#**. ENTER DATABASE OPTION (1 - 3) appears.
3. Press **3** or the **TRUNK** menu button. ENTER TRUNK OPTION appears.
4. Press **1** or the **INDIVIDUAL TRUNK** menu button. ENTER TRUNK GRP EXTENSION appears.
5. Enter the extension number, or enter a partial extension number, and then press **#** or the **ACCEPT** menu button. The extension information that best matches the partial number appears. You can use the Volume buttons or the **NEXT** and **PREVIOUS** menu buttons to scroll through entries.
6. Press **#** or the **ACCEPT** menu button to accept the entry.
7. Press **6** or the **BUSY TRUNK** menu button. MARK TRUNK BUSY (ON = 1 OFF = 2) appears.
8. Press **1** or the **ON** menu button disable the trunk, or press **2** or the **OFF** menu button to enable the trunk.
9. Press **#** or the **ACCEPT** menu button to accept the entry. DATABASE UPDATED appears.
10. When you are finished with all programming, press the Speaker button or # repeatedly to exit the programming session.

Trunk Group Programming Options

You can program the following trunk group options:

- “Programming Trunk Group Day or Night Answer Access” below
- “Programming Trunk Group Day or Night Ring-in” on [page 32](#)
- “Programming Trunk Group Toll Restrictions” on [page 33](#)
- “Programming Trunk Group Trunk Lists” on [page 34](#)

See Figure 3 on [page 35](#) for the Trunk Group Database flowchart.

Programming Trunk Group Day or Night Answer Access

You can program separate lists for endpoints with allowed-answer access in day and night modes.

To program trunk group Day or Night Answer Access:

NOTE

At any time, you can press * to return to the previous menu, or press the Speaker button to exit the programming session and cancel any unsaved changes.

1. Dial **9932** (**9132** in Europe). If a password is required (see [page 18](#)), ENTER PASSWORD appears (otherwise, go to [step 3](#)).
2. Enter the password, and then press #. ENTER DATABASE OPTION (1 - 3) appears.
3. Press **3** or the **TRUNK** menu button. ENTER TRUNK OPTION appears.
4. Press **2** or the **TRUNK GROUP** menu button. ENTER TRUNK GROUP EXTENSION appears.
5. Enter the extension number, or enter a partial extension number, and then press # or the **ACCEPT** menu button. The extension information that best matches the partial number appears. You can use the Volume buttons or the **NEXT** and **PREVIOUS** menu buttons to scroll through entries.
6. Press # or the **ACCEPT** menu button to accept the entry. ENTER TRUNK GROUP OPTION (1 - 6) appears.
7. Press **1** or the **ANS-ACCESS DAY** menu button or press **2** or the **ANS-ACCESS NIGHT** menu button. ENTER STATION EXTENSION appears.
8. Enter the extension number, or enter a partial extension number, and then press # or the **ACCEPT** menu button. The extension information that best matches the partial number appears. You can use the Volume buttons or the **NEXT** and **PREVIOUS** menu buttons to scroll through entries.
9. Press # or the **ACCEPT** menu button to accept the entry.
10. The extension number and a Yes/No menu are displayed. To include the endpoint in the list, press **1** or the **YES** menu button followed by #. To exclude the endpoint from the list, press **2** or the **NO** menu button followed by #. DATABASE UPDATED followed by ENTER STATION EXTENSION appears.
11. Select another extension number. Or, if you are finished programming the endpoint list, press # or the **ACCEPT** menu button.
12. When you are finished with all programming, press the Speaker button or # repeatedly to exit the programming session.

Programming Trunk Group Day or Night Ring-in

You can program separate endpoint lists with ring-in for Day and Night Modes.

To program trunk group Day or Night Ring-in:

NOTE

At any time, you can press * to return to the previous menu, or press the Speaker button to exit the programming session and cancel any unsaved changes.

1. Dial **9932** (**9132** in Europe). If a password is required (see [page 18](#)), ENTER PASSWORD appears (otherwise, go to [step 3](#)).
2. Enter the password, and then press #. ENTER DATABASE OPTION (1 - 3) appears.
3. Press **3** or the **TRUNK** menu button. ENTER TRUNK OPTION appears.
4. Press **2** or the **TRUNK GROUP** menu button. ENTER TRUNK GROUP EXTENSION appears.
5. Enter the extension number, or enter a partial extension number, and then press # or the **ACCEPT** menu button. The extension information that best matches the partial number appears. You can use the Volume buttons or the **NEXT** and **PREVIOUS** menu buttons to scroll through entries.
6. Press # or the **ACCEPT** menu button to accept the entry. ENTER TRUNK GROUP OPTION (1 - 6) appears.
7. Do one of the following:
 - To program the endpoint that will have ring in for this trunk group for day mode, press **3** or the **RING-IN DAY** menu button.
 - To program for night mode, press **4** or the **RING-IN NIGHT** menu button. ENTER STATION EXTENSION appears.
8. Enter the extension number, or enter a partial extension number, and then press # or the **ACCEPT** menu button. The extension information that best matches the partial number appears. You can use the Volume buttons or the **NEXT** and **PREVIOUS** menu buttons to scroll through entries.
9. Press # or the **ACCEPT** menu button to accept the entry.
10. The extension number and a Yes/No menu are displayed. To include the endpoint in the list, press **1** or the **YES** menu button followed by #. To exclude the endpoint from the list, press **2** or the **NO** menu button followed by #. DATABASE UPDATED followed by ENTER STATION EXTENSION appears.
11. Select another extension number. Or, if you are finished programming the endpoint list, press # or the **ACCEPT** menu button.
12. When you are finished with all programming, press the Speaker button or # repeatedly to exit the programming session.

Programming Trunk Group Toll Restrictions

You can program toll restriction classes of service for the trunk groups. See “Programming Endpoint Toll Restrictions” on [page 14](#) for more information.

To program trunk group toll restrictions:

NOTE

At any time, you can press * to return to the previous menu, or press the Speaker button to exit the programming session and cancel any unsaved changes.

1. Dial **9932** (**9132** in Europe). If a password is required (see [page 18](#)), ENTER PASSWORD appears (otherwise, go to [step 3](#)).
2. Enter the password, and then press #. ENTER DATABASE OPTION (1 - 3) appears.
3. Press **3** or the **TRUNK** menu button. ENTER TRUNK OPTION appears.
4. Press **2** or the **TRUNK GROUP** menu button. ENTER TRUNK GROUP EXTENSION appears.
5. Enter the extension number, or enter a partial extension number, and then press # or the **ACCEPT** menu button. The extension information that best matches the partial number appears. You can use the Volume buttons or the **NEXT** and **PREVIOUS** menu buttons to scroll through entries.
6. Press # or the **ACCEPT** menu button to accept the entry. ENTER TRUNK GROUP OPTION (1 - 6) appears.
7. Press **5** or the **TOLL RESTRICTION** menu button. TOLL RESTRICTION OPTION (1 - 4) appears.
8. Select one of the following toll restrictions:
 - **COS for day or night mode:** For Day Mode, press **1** or the **COS DAY** menu button, or press **2** or the **COS NIGHT** menu button Night Mode. SET DAY (or NIGHT) COS <number> appears. If necessary, scroll to the correct COS. When the display shows the correct COS, press **1** or the **ON** menu button to enable the toll restriction, or press **2** or the **OFF** menu button to disable it. If applicable, repeat this step to program additional COS toll restrictions.
 - **Exempt from ARS:** Press **3** or the **EXEMPT FROM ARS** button. EXEMPT FROM ARS appears. Press **1** or the **YES** menu button to enable the option, or press **2** or the **NO** menu button to disable it.
 - **Subject to toll restriction:** Press **4** or the **SUBJECT TO TOLL** menu button. When the display shows SUBJECT TO TOLL, press **1** or the **YES** menu button to enable the option. Or, press **2** or the **NO** menu button to disable it.
9. Press # or the **ACCEPT** menu button to continue. DATABASE UPDATED appears.
10. When you are finished with all programming, press the Speaker button or # repeatedly to exit the programming session.

Programming Trunk Group Trunk Lists

You can program a list of trunks for a trunk group.

To program trunk group trunk lists:

NOTE

At any time, you can press * to return to the previous menu, or press the Speaker button to exit the programming session and cancel any unsaved changes.

1. Dial **9932** (**9132** in Europe). If a password is required (see [page 18](#)), ENTER PASSWORD appears (otherwise, go to [step 3](#)).
2. Enter the password, and then press #. ENTER DATABASE OPTION (1 - 3) appears.
3. Press **3** or the **TRUNK** menu button. ENTER TRUNK OPTION appears.
4. Press **2** or the **TRUNK GROUP** menu button. ENTER TRUNK GROUP EXTENSION appears.
5. Enter the extension number, or enter a partial extension number, and then press # or the **ACCEPT** menu button. The extension information that best matches the partial number appears. You can use the Volume buttons or the **NEXT** and **PREVIOUS** menu buttons to scroll through entries.
6. Press # or the **ACCEPT** menu button to accept the entry. ENTER TRUNK GROUP OPTION (1 - 6) appears.
7. Press **6** or the **TRUNK LIST** menu button. ENTER TRUNK EXTENSION appears.
8. Enter the extension number, or enter a partial extension number, and then press # or the **ACCEPT** menu button. The extension information that best matches the partial number appears. You can use the Volume buttons or the **NEXT** and **PREVIOUS** menu buttons to scroll through entries.
9. Press # or the **ACCEPT** menu button to accept the entry.
10. The display shows the extension number and a Yes/No menu. To include the endpoint in the list, press **1** or the **YES** menu button followed by #. To exclude the endpoint from the list, press **2** or the **NO** menu button followed by #. DATABASE UPDATED followed by ENTER TRUNK EXTENSION appears.
11. Select another extension number. Or, if you are finished programming the endpoint list, press # or the **ACCEPT** menu button.
12. When you are finished with all programming, press the Speaker button or # repeatedly to exit the programming session.

Figure 3. Trunk Database Programming Flowchart

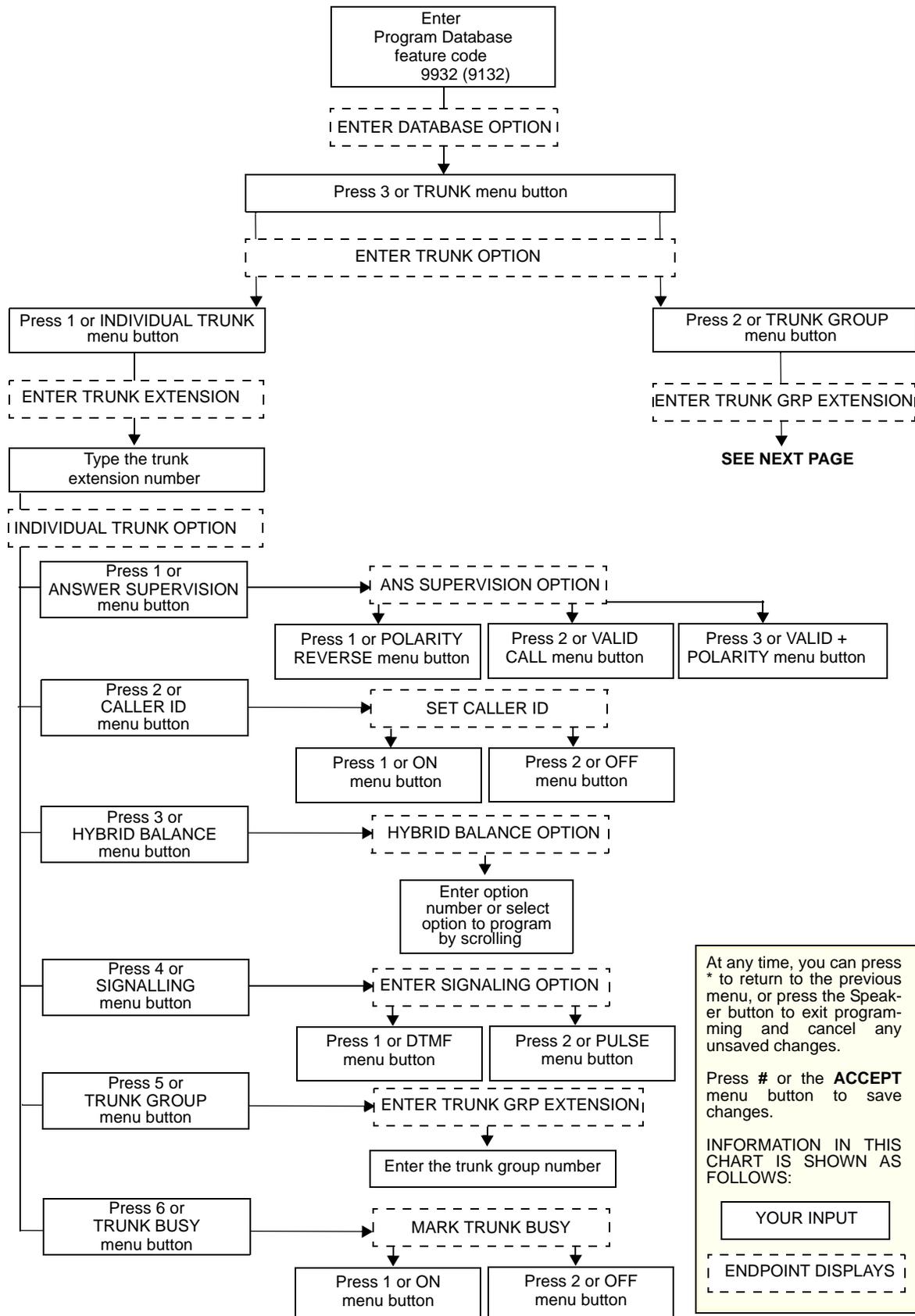
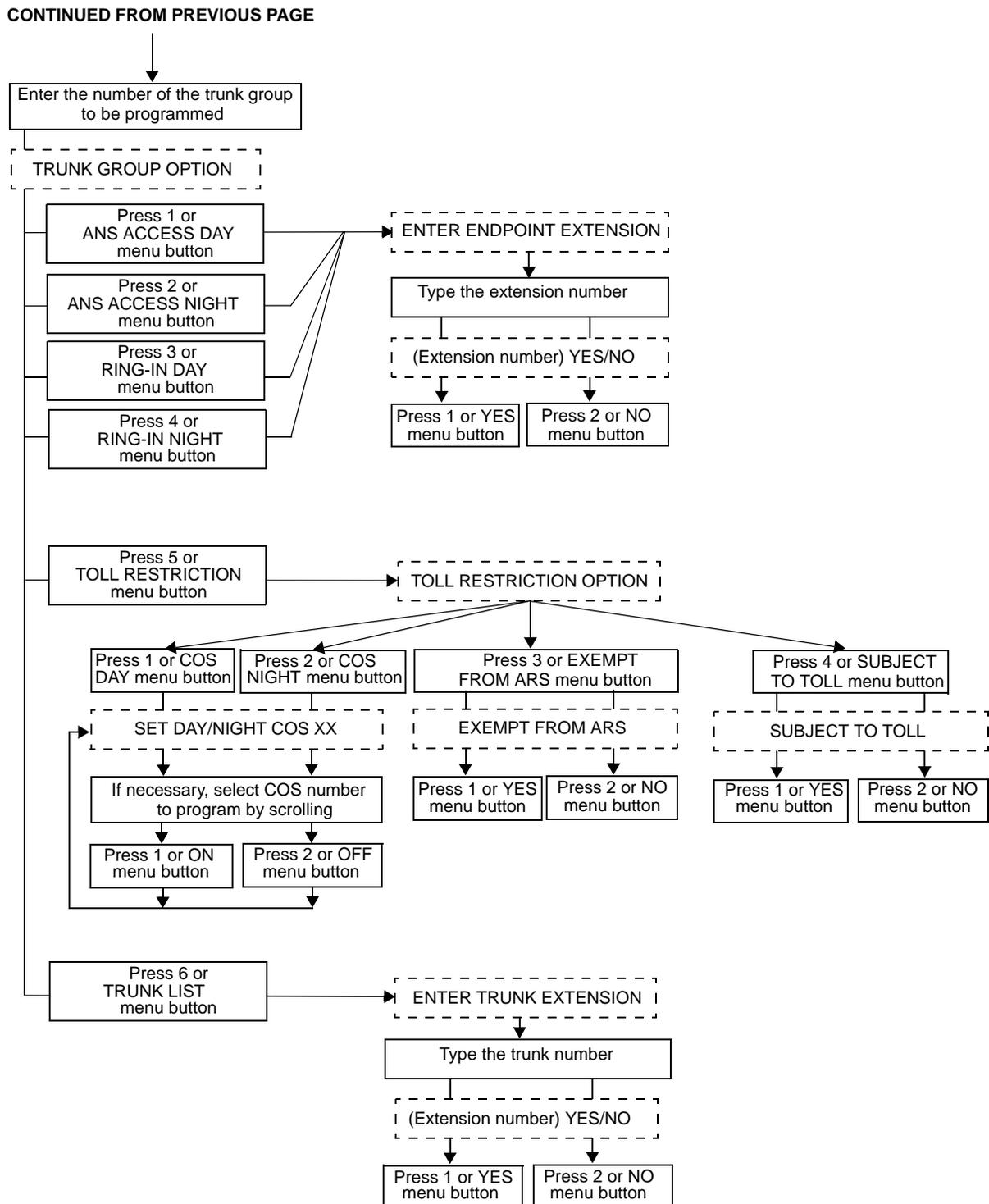


Figure 3. Trunk Database Programming Flowchart (Continued)



Alarms

Alarms are generated on endpoints as the result of continuous self-diagnostics run within the system and are a basic indicator that there is a problem or potential problem with the system. The severity and type of alarm determines the corrective action necessary to resolve the problem.

To allow you to monitor multiple nodes, the system provides both system alarms, which includes voice processing alarms, and network-wide alarms. See Table 6 on [page 40](#) for the complete list of minor system and voice processing alarms.

Alarm Types

On the Mitel 5000 platform, alarms are grouped into the following categories:

- **Minor System alarms** (000–019): These alarms indicate a system problem that usually require calling service personnel.
- **Minor Voice Processing alarms** (020–039): These alarms indicate a voice processing problem that normally are corrected without calling service personnel.

NOTE

Even when a voice processing alarm has been registered, the system may still function correctly.

- **Major System alarms** (100–199): These alarms indicate a system problem that require calling service personnel.
- **Major Voice Processing alarms** (200–224): These alarms indicate a voice processing problem that require calling service personnel.
- **Network alarms** (225–244): These alarms indicate a system or voice processing problem generated from a remote node. These alarms are handled the same as the local alarm is handled. When a network alarm occurs, the local alarm (number) equivalent is displayed on the first line of your administrator's endpoint and the node where the alarm originated is indicated on the second line. What distinguishes a network alarm from a local alarm is the node information that appears on the second line of the endpoint's display.

NOTE

The actual alarm numbers 225–244 are used internally by the system and do not appear on your administrator's endpoint. Instead, your administrator endpoint shows the equivalent local alarm number between 000 and 224.

Network Alarms

The system provides both system alarms, including voice processing alarms, and network-wide alarms so you can monitor multiple nodes:

- **Network-Wide Alarms:** When an event occurs that generates a network-wide alarm, the alarm is broadcast to every node in the system. This is configurable in DB Programming by your system administrator.
- **System Alarms:** System alarms appear only on the node on which the alarm was generated.

Alarm Differences

The system Alarm Reporting feature detects equipment failures. If there is a system failure that affects service, a major alarm appears at all affected endpoints. When a minor equipment failure occurs, a minor alarm is generated and appears on the primary attendant's display and, if enabled, at your administrator endpoint. When a Voice Mail alarm is in effect, the telephone system may be functioning properly, but the voice processing system may be inoperative.

To differentiate between network-wide and local alarms, network-wide alarms appear on administrator endpoints preceded by NET ALARM, and local system alarms are preceded with SYS ALARM. Network-wide alarms override system alarms on your administrator endpoint. On remote nodes, network-wide alarms indicate the name of the node on which the alarm occurred. The node name is obtained from the username in DB Programming, if one is entered. Otherwise, only the node number appears.

A major alarm message, MAJOR ALARM, appears on all display endpoints in the event of a system-wide failure. The warning might also appear on a single endpoint if the endpoint or its cabling is defective. Because they indicate that all or part of the system is inoperative, major alarms require immediate attention from service personnel.

Responding to Alarms

A major alarm requires you to contact service personnel, while a minor alarm may or may not require you to contact service personnel in addition to clearing the alarm.

To respond to a major alarm:

Take the action as described below:

- **#100-199 (major system alarms):** An equipment failure has occurred that requires the attention of service personnel.
- **#200-224 (major voice processing alarms):** An equipment failure has occurred that requires the attention of service personnel.
- **SYS ALARM #NNNN:** Contact service personnel.
- **CALL TECHNICIAN:** Write down all alarm information, including what was taking place when the alarm occurred, and then contact service personnel.

To respond to a minor alarm:

1. When a minor alarm indication appears, write down the alarm information.
2. While on-hook, clear the alarm as described in "Clearing Alarms" on [page 39](#). SYSTEM (or NETWORK) ALARM CLEARED appears.
3. Take the appropriate action as indicated in Table 6 on [page 40](#).

Clearing Alarms

You can clear a network-wide alarm on the local node only or on every node in the network. To clear an alarm, you can use either the administrator feature codes or menu buttons.

To use the feature codes to clear alarms:

Dial one of the following feature codes to clear the alarm:

- **Clear Network Alarm (9851):** This feature code clears network-wide alarms on every node in the network, but it does not affect system alarms. The Clear Network Alarm feature code may be entered on any node in the network, but the Send Network Alarms flag must be set for you to clear alarms on other nodes in the network.
- **Clear System Alarm (9850):** This feature code clears all local and network-wide system alarm displays on your node.

After you enter the feature code, SYSTEM (or NETWORK) ALARM CLEARED appears, and the highest priority alarm is cleared. If applicable, enter the feature code again to clear the next alarm in the queue (only one alarm is cleared at a time).

To use menu buttons to clear alarms:

Do one of the following:

- Press the **CLEAR ALL ALARMS** menu button to clear all alarms. ALL ALARMS CLEARED appears, and the display returns to the idle menu.
- Press the **CLEAR ALARM** menu button to clear the currently displayed alarm. SYSTEM (or NETWORK) ALARM CLEARED appears, and the display shows the next highest priority, if applicable. If there are no more alarms, the display returns to the idle menu.

Endpoint and System Administration

Clearing Alarms

Table 6. *Minor System and Voice Processing Alarms*

Alarm Text	Description and Action Required
SYS ALARM #10 xNNNN OFF HOOK	<p>An endpoint has remained off-hook and inactive past the expiration of the Inactivity Alarm timer. The display and the SMDR indicate which endpoint is off-hook. The lamps in the button for that station on Mini-DSS and DSS units and on the Speed Dial buttons of other endpoints flutter continuously.</p> <p>Locate the endpoint and replace the handset in the cradle. Calls being transmitted over the secondary voice path are not affected or interrupted by an off-hook alarm condition.</p>
SYS ALARM #11 xNNNN EMERGENCY	<p>A user has dialed the Emergency Call feature code. The system has seized a trunk and dialed the emergency phone number that will bring responders to the location where the system Mitel 5000 Base Server is installed.</p> <p>The default Emergency Call code for U.S. systems is 911, and the default code for European systems is 999. Emergency dial sequences, such as 112 for some European localities, can be programmed for the location where the system Mitel 5000 Base Server is installed. However, if an appropriate emergency phone number is dialed from a remote location to ensure response to that location, no alarm will appear at the administrator endpoints.</p> <p>No action is required, just clear the alarm. To facilitate emergency services reaching the party in need, determine who made the emergency call and where help is needed.</p>
SYS ALARM #16 NO DELAYED MAJOR	<p>The system was unable to perform a scheduled delayed major reset because the system was not idle.</p> <p>If this alarm recurs, contact service personnel.</p>
SYS MGR LINK ERR #17 <error string>	<p>The certificate is not yet valid or the system is not connected to the appropriate System Manager server.</p> <p>Contact service personnel.</p>
SYS ALARM #18 SYS MGR INV CERT	<p>A corrupt certificate was uploaded or there was an error in writing the file.</p> <p>Contact service personnel.</p>
SYS ALARM #20 CHECK PRINTER	<p>The printer is not functioning properly.</p> <p>Check that the cable and the power cord are connected, and that it has paper and toner.</p>
SYS ALARM #21 V-MAIL 80% FULL	<p>The external voice mail disk space is 80 percent full. If it reaches 100 percent, Voice Mail cannot accept any messages until disk space is made available.</p> <p>Contact service personnel.</p>
SYS ALARM #22 V-MAIL 100% FULL	<p>100 percent of the external voice mail disk space is in use. Voice mail cannot accept any messages until disk space is made available.</p> <p>Contact service personnel.</p>
SYS ALARM #23 SMDR 80% FULL	<p>The SMDR disk space on the external voice processing system is 80 percent full. If it reaches 100 percent before the SMDR information is cleared, no further SMDR recording will be possible.</p> <p>Contact service personnel.</p>
SYS ALARM #24 SMDR 100% FULL	<p>100 percent of the SMDR disk space on the external voice processing system is in use. No further SMDR recording is possible.</p> <p>Contact service personnel.</p>
SYS ALARM #32 INSUF BAND	<p>The IP Network does not have enough bandwidth to support the IP call that is currently connected to the extension. If this alarm is generated frequently, it could indicate a network problem that requires the attention of your network administrator.</p>

Internal Modem

The Mitel 5000 internal modem performs multiple functions. When enabled, the modem is used for DB Programming, Message Print, SMDR, and for uploading software licenses.

Enabling or Disabling the Internal Modem

If disabled, the modem and extension are placed into DND. In DND, the modem rejects all calls and does not allow camp ons. Any outside calls that attempt to ring a disabled modem are automatically transferred to the primary attendant.

To enable/disable a modem:

1. Dial **9866** (Modem Enable) or **9867** (Modem Disable). ENABLE (DISABLE) MODEM EXT # appears.
2. Enter the extension of the modem to enable or disable it. MODEM ENABLED (or DISABLED) appears.

If an invalid modem extension is entered, INVALID MODEM EXTENSION appears.

Resetting the Internal Modem

The internal modem must be reset if it fails to answer an incoming call or is out of synchronization with an external modem.

NOTICE

Possible data corruption. Do not reset the modem if it is connected to a DB Programming session. If you do, the programming session is dropped, potentially corrupting the database. For this reason, Mitel recommends that you assign the modem extension to a Speed Dial button. During a reset, any call connected to the modem is dropped.

To reset the internal modem:

1. Dial **9869**. RESET MODEM EXT# appears.
2. Enter the modem extension number. MODEM RESET appears.

If an invalid modem extension is entered, INVALID MODEM EXTENSION appears.

Network Group Diagnostics

The Network Group Diagnostics feature allows you to verify that Network Groups have been programmed correctly. When the Network Group Diagnostics feature code is entered, the platform initiates pings from each system-connected device and determines if the other devices respond to the ping. If a device does not respond to the ping or if a firewall is detected, the system issues a Message Print message. For more information about Message Print, refer to the *Message Print Diagnostics Manual*, part number 550.8018.

The Network Group Diagnostics feature works on proprietary IP devices for the local node only. It does not work across nodes.

Running Network Group Diagnostics

NOTICE

System Performance. Because this feature affects system performance, run the diagnostics program after normal business hours when the system is idle.

To run the Network Group Diagnostics:

1. Dial **9900** (**9100** in Europe) to turn on diagnostics mode. DIAGNOSTICS ON appears.
2. Dial **9963** (**9163** in Europe). NET GRP CHECK (YES = 1 NO = 2) appears.
3. When prompted, press **1** or the **ACCEPT** menu button to start the diagnostics feature. NET GROUP DIAG IN PROGRESS appears.

When the diagnostics are complete, the endpoint displays one of the following messages:

- **NET GROUP CHECK COMPLETED:** Indicates that all IP devices within the Network Groups are capable of communicating using peer-to-peer audio.
- **NET GROUP CHECK ERRORS FOUND:** Indicates that either some of the IP devices are offline or there are NATs/firewalls located between the devices. Check Message Print to determine which errors occurred.

Seizing a Device

For troubleshooting purposes, you can enable diagnostics mode and then seize a specific trunk or extension by entering the module, circuit, and device number.

The Seize Device feature is affected by trunk restriction. The administrator endpoint must have outgoing access permission for the trunk to seize it. Toll restriction is applied to any calls placed after the trunk is seized.

To seize a device:

1. Dial **9900 (9100 in Europe)**, to turn on diagnostics mode. DIAGNOSTICS ON appears.
2. Press the Special button (see [page 7](#)), and then dial **9973 (9173 in Europe)**. ENTER BOARD appears.
3. Enter the board (module) number, **not** the unit number, where the device to be seized is located, while observing the following conditions:
 - *If you enter a single digit, press # after the digit to continue.*
 - *If you enter an incorrect module number or if the module is not entered in the system, INVALID BOARD NUMBER appears.*
 - *If you have multiple ports (for example, dual-T1 or Internet Protocol Resource Application (IPRA) ports) ENTER PORT appears.*
4. Enter the (port) circuit number of the device to be seized. If you enter a single digit, press # after the digit to continue. Valid numbers depend on the type of module. If you enter an invalid module number, INVALID MODULE NUMBER appears.

If there is only one device on the selected port, the selected device is seized as if the user had directly entered the extension or trunk number.

If there is more than one device on the selected port, ENTER DEVICE appears. Enter the number of the device to be seized. Valid numbers depend on the type of devices installed. If you enter an invalid device number, INVALID DEVICE NUMBER appears. When the device has been selected, it is seized as if the user had directly entered the extension or trunk access number.

5. Dial **9900 (9100 in Europe)** to turn off diagnostics mode. DIAGNOSTICS OFF appears.

History Freezes

When certain system failures occur, service personnel may request a system history freeze (system data snapshot), so they can analyze system activity for the time period preceding the alarm.

NOTE Do not perform these procedures unless directed to do so by service personnel.

Freezing or Unfreezing the System History

You can freeze or unfreeze the current node system history.

To freeze or unfreeze system history:

1. Dial **9900 (9100 in Europe)** to turn on diagnostics mode. DIAGNOSTICS ON appears.
2. Dial **9993 (9193 in Europe)** to freeze the system history, or dial **9998 (9198 in Europe)** to unfreeze the system history. HISTORY FROZEN (or UNFROZEN) appears. If you try to change the state of the system history to its current status, HISTORY ALREADY FROZEN (or UNFROZEN) appears.
3. Dial **9900 (9100 in Europe)** to turn off diagnostics mode. DIAGNOSTICS OFF appears.

Freezing or Unfreezing the Network History

You can freeze or unfreeze the network history for any node in the network. Service personnel can then pull the information from each node for troubleshooting purposes. Nodes are assigned to freeze zones by the database programmer to allow selective freezes. You must know which zone to freeze or unfreeze.

A node can be in more than one freeze zone. If you freeze a zone that contains a node that is already frozen, SOME NODES ALREADY FROZEN appears and the node remains frozen. If you unfreeze a zone with unfrozen nodes in it, SOME NODES ALREADY UNFROZEN appears. To determine the individual freeze status of the nodes, check the Message Print output.

To freeze or unfreeze network history:

1. Dial **9900 (9100 in Europe)** to turn on diagnostics mode. DIAGNOSTICS ON appears.
2. Dial **9939 (9139 in Europe)** to freeze the history a network node, or dial **9989 (9189 in Europe)** to unfreeze the history of a network node. SELECT FRZ ZONE (0–9) # appears.
3. Enter the number of the node you want to freeze or unfreeze. FREEZE ZONE XX IS FROZEN (or UNFROZEN) appears. If you try to change the state of the system history to its current status, FREEZE ZONE XX ALREADY FROZEN (or UNFROZEN) appears.
4. Dial **9900 (9100 in Europe)** to turn off diagnostics mode. DIAGNOSTICS OFF appears.

Reference

Troubleshooting Tips	48
System Administrator and Provider Information	48
Administrator Troubleshooting Tips	48
Programming Planning Sheets	49
Administrator Endpoint Password	49
Endpoint Information	49
Do-Not-Disturb Messages	50
Reminder Messages	51
Changing Station Extension Numbers	52
Swapping Stations	52
Individual Trunk Programming	53
Trunk Group Programming	53
Default Feature Codes	54
Administrator Feature Codes	54
Diagnostics Feature Codes	55
Trunk Access Codes	58
Endpoint Feature Codes	58

Troubleshooting Tips

The following sections include information to help you troubleshoot problems:

- “[System Administrator and Provider Information](#)” below
- “[Administrator Troubleshooting Tips](#)” below

System Administrator and Provider Information

Because this guide covers administrator endpoint administration features only, you may find that you need additional assistance from your system administrator for issues such as creating new user accounts or changing system settings.

Your system administrator may be onsite, or you may rely on your local provider (the company that installed your phone system and now services it) for system administration. All sales, service, and technical support are handled at the local level by your authorized Mitel provider. If you do not know the contact information for your local provider, use the “Strategic Partners & Resellers – Mitel Partner Locator” link at the top of the [Mitel Web site](http://www.mitel.com) (www.mitel.com) to locate a nearby office.

Administrator Troubleshooting Tips

[Table 7](#) includes administrator troubleshooting tips.

Table 7. *Administrator Troubleshooting Tips*

Problem	Possible Solution
I cannot access administrator endpoint features.	You may be experiencing one of the following: <ul style="list-style-type: none">• You may not be using the administrator endpoint assigned by the system administrator.• If password protection is enabled, you must enter a password before you can access administrator endpoint features. To determine your password, contact your system administrator or local authorized provider. See “System Administrator and Provider Information” above.
One of our employees has left the company, and I need to change the user name shown on the display.	See “Programming Extension User Names” on page 13 .
I need to change the system time shown on the endpoint displays.	See “Setting the System Date and Time” on page 9 .
I cannot clear an alarm shown on the endpoint display.	You can use the administrator endpoint to clear alarms by entering the Clear System Alarm feature code (9850).

Table 7. Administrator Troubleshooting Tips (Continued)

Problem	Possible Solution
System users cannot use “*67” to block Caller ID when placing external calls.	To use “*67,” you must select an outside line directly rather than using Automatic Route Selection to select outside lines. Contact your system administrator or local authorized provider for more information. See “System Administrator and Provider Information” on page 46 .
I can change the system time, but when I come in the morning, a different time appears.	Your system may be configured to use Network Time Protocol (NTP), which automatically synchronizes network date and time at 12:15 A.M. daily, but the NTP server time is incorrect. Contact your system administrator for assistance in correcting the time on the NTP server.

Programming Planning Sheets

The following sections can help you plan and program your system. Use the sections for reference and to record system-related information.

Administrator Endpoint Password

Administrator endpoint password: _____

Endpoint Information

For each endpoint you are programming, record the following information.

Table 8. Endpoint Information

Options	Setting
Endpoint extension number	
User name	
Toll restriction classes of service	
Administrator endpoint?	Yes or No
Attendant endpoint?	Yes or No
House phone?	Yes or No

Do-Not-Disturb Messages

You can change the default DND messages shown in [Table 9](#). See “Changing Do-Not-Disturb (DND) Messages” on [page 19](#).

Table 9. *Do-Not-Disturb Messages*

Default DND Message	Primary Language DND Message	Secondary Language DND Message
MESSAGE 01 (DO-NOT-DISTURB)		
MESSAGE 02 (LEAVE A MESSAGE)		
MESSAGE 03 (IN MEETING UNTIL)		
MESSAGE 04 (IN MEETING)		
MESSAGE 05 (ON VAC. HOLIDAY 'TIL)		
MESSAGE 06 (ON VAC. HOLIDAY)		
MESSAGE 07 (CALL ME AT)		
MESSAGE 08 (AT THE DOCTOR)		
MESSAGE 09 (ON A TRIP)		
MESSAGE 10 (ON BREAK)		
MESSAGE 11 (OUT OF TOWN 'TIL)		
MESSAGE 12 (OUT OF OFFICE)		
MESSAGE 13 (OUT UNTIL)		
MESSAGE 14 (WITH A CLIENT)		
MESSAGE 15 (WITH A GUEST)		
MESSAGE 16 (UNAVAILABLE)		
MESSAGE 17 (IN CONFERENCE)		
MESSAGE 18 (AWAY FROM DESK)		
MESSAGE 19 (GONE HOME)		
MESSAGE 20 (OUT TO LUNCH)		

Reminder Messages

You can change the default Reminder Messages shown in [Table 10](#). See “Changing Default Reminder Messages” on [page 20](#).

Table 10. *Reminder Messages*

Default Reminder Message	Primary Language Reminder Message	Secondary Language Reminder Message
MESSAGE 01 (MEETING)		
MESSAGE 02 (STAFF MEETING)		
MESSAGE 03 (SALES MEETING)		
MESSAGE 04 (CANCEL MEETING)		
MESSAGE 05 (APPOINTMENT)		
MESSAGE 06 (PLACE CALL)		
MESSAGE 07 (CALL CLIENT)		
MESSAGE 08 (CALL CUSTOMER)		
MESSAGE 09 (CALL HOME)		
MESSAGE 10 (CALL CORPORATE)		
MESSAGE 11 (CALL ENGINEERING)		
MESSAGE 12 (CALL MARKETING)		
MESSAGE 13 (CALL ACCOUNTING)		
MESSAGE 14 (CANCEL DND)		
MESSAGE 15 (CANCEL CALL FWD)		
MESSAGE 16 (TAKE MEDICATION)		
MESSAGE 17 (MAKE RESERVATION)		
MESSAGE 18 (REVIEW SCHEDULE)		
MESSAGE 19 (LUNCH)		
MESSAGE 20 (REMINDER)		

Changing Station Extension Numbers

See “Changing Endpoint Extension Numbers” on [page 21](#).

Table 11. *Station Extension Numbers*

Old Extension Number	New Extension Number

Swapping Stations

See “Swapping Endpoint Extension Numbers” on [page 22](#).

Table 12. *Swapped Extension Numbers*

Extension Number	Swapped with Extension

Individual Trunk Programming

Record the information in [Table 13](#) for each trunk you want to program.

Table 13. *Individual Trunk Programming*

Information Required	Responses
Answer Supervision Type:	Polarity Reversal or Valid Call <i>or</i> Valid Call with Polarity Reversal
Caller ID?	Yes <i>or</i> No
Hybrid Balance:	
Signaling:	DTMF <i>or</i> Dial Pulse
Trunk Group Number:	
User name:	

Trunk Group Programming

Record the following information in [Table 14](#) for each trunk group you want to program.

Table 14. *Trunk Group Programming*

Information Required	Programming Plan
Endpoints with Day Answer Access:	
Endpoints with Night Answer Access:	
Endpoints with Day Ring In:	
Endpoints with Night Ring In:	
Toll Restriction Classes of Service:	
Trunks in Trunk Groups:	

Default Feature Codes

Each of the station features is assigned a feature code. Using the station's dialpad, these codes are entered to select trunks, process calls, and use special features. The following tables show default feature code values:

- "Administrator Feature Codes" below
- "Diagnostics Feature Codes" on [page 53](#)
- "Endpoint Feature Codes" on [page 56](#)
- "Trunk Access Codes" on [page 56](#)

Administrator Feature Codes

[Table 15](#) summarizes feature codes accessible on administrator endpoints only.

Table 15. Administrator Feature Codes

Feature Name	Code U.S. (Eur.)	Definition
Clear Network Alarm	9851	Clears network-wide alarms on every node in the network, but will not affect system alarms. The Clear Network Alarm feature code may be entered on any node in the network, but the Send Network Alarms flag must be set for the administrator to clear alarms on other nodes in the network.
Clear System Alarm	9850	Clears all local and network-wide system alarm displays on your node.
Diagnostics On/Off	9900 (9100)	Enables or disables system diagnostics mode to perform diagnostics functions such as freezing or unfreezing the database, printing message logs, and seizing a device for troubleshooting purposes. Because diagnostics mode affects system performance, you should run the diagnostics program when the system is idle.
Enable Network Day	9862	Places any or all remote nodes into day mode (you are prompted for the node number).
Enable Network Night	9861	Places any or all remote nodes into night mode (you are prompted for the node number).
Modem Disable	9867	Disables the internal modem; used in conjunction with the assigned extension number of the modem.
Modem Enable	9866	Enables the internal modem; used in conjunction with the assigned extension number of the modem.
Modem Reset	9869	Resets the internal modem when the modem fails to answer an incoming call or to synchronize with an external modem. NOTICE Database corruption could occur if the modem is reset during a DB Programming session. Mitel recommends that you assign the modem extension to a Speed Dial button.
Night Ring On/Off	9860	Places system in night mode or cancels night mode. While in night mode, the night toll and trunk restriction lists are used.

Table 15. Administrator Feature Codes (Continued)

Feature Name	Code U.S. (Eur.)	Definition
Periodic Diagnostics On/Off	9825	Periodic diagnostics extends and improves the functionality and checks and reconciliations performed on various resources in the system.
Program System Speed Dial	9801	Programs system-wide Speed Dial numbers when followed by location codes (000–999).
Set Network Date/Time	9810	Programs the time and date for all nodes in the system. Local time and date can also be reset by individual nodes.
Set Time/Date	9800	Programs system time and date.
Synchronize Network Time	9811	Synchronizes the minutes past the hour across the network. If a node's time is off by more than 30 minutes, synchronizing the minutes may cause the hour to change. Also, network time is automatically synchronized every day at 12:30 AM (00:30), using the time setting on the node with the lowest number.

Diagnostics Feature Codes

You must use the administrator endpoint and enter the Diagnostics Mode feature code (9900) [9100 in Europe] before you can use the feature codes summarized in [Table 16](#).

Table 16. Diagnostics Feature Codes

Feature Name	Code U.S. (Eur.)	Definition
Compression On/Off	9982 (9182)	Compresses call processing messages sent to DB Programming, speeding up transfers. You should not disable this feature unless instructed to do so by support personnel.
Compression Statistics	9981 (9181)	Dumps various statistics related to the DB Programming compression algorithm. This feature should be used only when directed to do so by support personnel.
Diagnostic – ASAI Snoop Off	9926 (9126)	Turns off the ASAI output to Message Print. ASAI is the protocol the system uses to talk to DB Programming and the AVDAP. Turning this feature on helps the support personnel debug the messaging between Call Processing and DB Programming or Call Processing and the AVDAP.
Diagnostic – ASAI Snoop On	9927 (9127)	Turns on the ASAI output to Message Print. ASAI is the protocol the system uses to talk to DB Programming and the voice processing system. Turning this feature on helps the support personnel debug the messaging between Call Processing and DB Programming or Call Processing and the AVDAP.
Diagnostic – Dump Extension	9933 (9133)	Allows a field technician to dump a device or structure when debugging a problem. The system dumps the internal data structures for that extension to message print. If you press the pound button (#) you are prompted for a command. The command allows you to enter an alphanumeric string of the structure to dump.

Reference
Diagnostics Feature Codes

Table 16. Diagnostics Feature Codes (Continued)

Feature Name	Code U.S. (Eur.)	Definition
Diagnostic – Dump Node Information	9936 (9136)	<p>Pressing the Dump Node Information feature code dumps specified node information to Message Print for diagnostic purpose. When the system prompts for a node number, enter the applicable node number or zero (0) for all nodes within a network. If the node does not exist, an error message saying INVALID NODE NUMBER appears and prompts you for a node number again.</p> <p>After entering a node number, the system displays a confirmation message on the endpoint display. This helps you analyze which nodes are up and which nodes are down (the word 'down' does not mean that the node is completely down, it simply means the node is unreachable). For Example:</p> <p>If all nodes are up, the display shows ALL NODES ARE UP X. The 'X' represents the total number of the nodes.</p> <p>If node 3 and 5 of a 5-node network are down, the display shows # NODES DOWN 2 3 5.</p>
Diagnostic – Heap Dump	9943 (9143)	For internal engineering use only.
Diagnostic – Heap Statistics	9947 (9147)	<p>This feature code outputs miscellaneous heap information to Message Print as well as putting up a message on the endpoint that indicates the percentage of available dynamic heap memory. This feature code is useful in determining if the system is losing heap memory and how quickly the system may be losing it.</p>
Diagnostic – ISDN View	9948 (9148)	<p>This feature code toggles through the three different ISDN view output modes.</p> <p>Entering the feature code the first time puts the ISDN view feature into headers only mode. In this mode the system outputs all ISDN messages to Message Print in header format (that is, it does not contain any ISDN information elements).</p> <p>Entering the feature code the second time puts the ISDN view feature into full mode. In this mode the system outputs all ISDN message to Message Print in full format (that is, each ISDN information element).</p> <p>Entering the feature code one more time turns this feature off.</p>
Diagnostic – Major Reset	9962 (9162)	For internal engineering use only.
Diagnostic – Mark As Leaks	9945 (9145)	For internal engineering use only.
Diagnostic - Mark As Quiescent	9946 (9146)	For internal engineering use only.
Diagnostic – Minor Reset	9964 (9164)	For internal engineering use only.
Diagnostic – Network Freeze Zone System Histories Diagnostic – Network Unfreeze Zone System Histories	9939 (9139) 9989 (9189)	<p>The system fault history for any freeze zone in the network can be halted (frozen) or re-enabled using these feature codes when diagnostics mode is enabled. The fault history can then be extracted from each zone and used by service personnel when troubleshooting the system.</p>

Table 16. Diagnostics Feature Codes (Continued)

Feature Name	Code U.S. (Eur.)	Definition
Diagnostic – Network Groups	9963 (9163)	Allows you to verify that the Network Groups on the local node are programmed properly. When 9963 is entered at an administrator's endpoint, the telephone system initiates pings from each IP device on the local node and determines if the other devices respond to the ping. If a device does not respond to the ping or if a firewall is detected, the system issues a Message Print message.
Diagnostic – Print Auxdata	9972 (9172)	(Not Programmable) Sends a report to a designated printer or file that shows system reset history information to be used for troubleshooting purposes.
Diagnostic – Print Message Log	9975 (9175)	(Not Programmable) Sends a report to a designated printer or file that lists system error messages to be used for troubleshooting purposes.
Diagnostic – Print Network Log	9976 (9176)	This feature code prints the network log to message print. This feature is useful in determining the system of a networked system.
Diagnostic – Query Node Traffic	9978 (9178)	Using this feature code you can query the status of various devices on the system based on the status of the traffic flags in DB Programming. The output is sent to Message Print.
Diagnostic – Show Version	9928 (9128)	To check the call processing software version at an administrator's endpoint, you can enable diagnostics mode, then enter this feature code to view the version and date of the call processing software. However, feature code 9928 displays the firmware version of the endpoint if it is in SIP mode.
Diagnostic – SIP View	9987 (9187)	Allows you to change the system wide SIP output value. Options include No Output, Headers, and Full Output.
Diagnostic – Spare 1–3	9910–9912 (9110–9112)	For internal engineering use only.
Diagnostic – System History	9974 (9174)	For internal engineering use only.
Diagnostic – View Displays	9983 (9183)	For internal engineering use only.
Program Database	9932 (9132)	Can be used for programming endpoint, system, and trunk parameters.
Seize Device	9973 (9173)	Used during troubleshooting to seize a specific trunk or endpoint by indicating the board number, port number, and device number.
System History – Freeze	9993 (9193)	The system fault history can be frozen or unfrozen using these feature codes when diagnostics mode is enabled. Fault history is used by service personnel when troubleshooting the system.
System History – Unfreeze	9998 (9198)	

Trunk Access Codes

Table 17 lists trunk access codes used to select trunks when placing outgoing calls.

Table 17. Trunk Access Codes

Feature Name	Code U.S. (Eur.)	Definition
Automatic Route Selection (ARS)	92000	Allows the system to select the route wanted for placing a call, as programmed in the database.
Trunk Group Access 1–208	92001–92208	Selects an available trunk from a programmed group of trunks for placing an outside call.
Emergency Call	911 (999/112 or as applicable)	Entering this feature code selects an outgoing trunk and automatically dials the programmed Emergency Call number, which is routed by default out Trunk Group 1.
Outgoing Call	8	Selects an outgoing trunk according to the programmed outgoing access mode for that endpoint.

Endpoint Feature Codes

Table 18 lists endpoint feature codes.

Table 18. Endpoint Feature Codes

Feature Name	Code	Definition
Account Code – All Calls Following	391	Allows the endpoint user to enter a forced or optional account code that will apply to all calls following the entry of this feature code and will appear in the SMDR. To disable the All Calls Following feature, the feature code is entered again without an account code.
Account Code – Optional	390	Allows the endpoint user to enter an optional account code for SMDR reports during an outside call.
ACD Agent Login ACD Agent Logout ACD Agent Login/Logout Toggle	326 327 328	These feature codes allow an ACD hunt group member (agent) to log into and out of one or more ACD hunt groups. The agent will only receive calls through the ACD hunt group while logged in.
ACD Agent Wrap-Up Terminate	329	When an ACD agent completes a call, no other ACD hunt group call will ring at the endpoint until the ACD Wrap-Up Timer expires or the agent enters this feature code to terminate the wrap-up session.
Agent Help	375	The Agent Help feature allows an endpoint user to request help from a designated “Agent Help Extension” during a two- or three-party call.
Agent Help Reject	376	When a request-for-help call rings, the Agent Help Extension can choose to join the call or enter this feature code to reject the request.
Answer (Ringing Call)	351	Answers the call that has been ringing or holding the longest at that endpoint.
Audio Diagnostics	320	When initiated, users are prompted to answer questions about the audio problems by pressing specific keypad buttons.

Table 18. Endpoint Feature Codes (Continued)

Feature Name	Code	Definition
Automatic CO Access On/Off	360	<i>(Not used on single line endpoints)</i> Allows the endpoint user to determine how ringing outside calls will be answered: simply by lifting the handset or pressing the Speaker button (automatic answer), or by lifting the handset or pressing the Speaker button and pressing a Call button, individual trunk button or the ANSWER button.
Automatic IC Access On/Off	361	<i>(Not used on single line endpoints)</i> Allows the endpoint user to determine how ringing intercom calls will be answered: simply by lifting the handset (automatic answer), or by lifting the handset and pressing the IC button (or a Call button, if there is no IC button).
Automatic Trunk Answer	350	Using this feature code, endpoint users with allowed answer can pick up trunks that are ringing into the system, but that are not actually ringing at their endpoints. This feature does not pick up transferred calls or recalls that are ringing at the endpoint.
Background Music On/Off	313	<i>(Not used on single line endpoints)</i> Turns on and off background music heard through the endpoint speaker.
Barge-In	386	Allows the supervisor to barge-in on a call to help the hunt group member/agent.
Call Forward All Calls	355	Immediately forwards all calls to another endpoint or to an outside endpoint number.
Call Forward If Busy	357	Immediately forwards all calls to another endpoint or to an outside endpoint number when the endpoint is in use.
Call Forward If No Answer	356	Forwards all calls to another endpoint or to an outside endpoint number if not answered within a predetermined time.
Call Forward If No Answer/Busy	358	Forwards all calls to another endpoint or to an outside endpoint number if not answered within a predetermined amount of time, or immediately if the endpoint is in use.
Call Logging	333	Allows users of display endpoints to view missed, received, and dialed calls.
Change Language	301	An endpoint user can change the assigned language for the endpoint by entering the Change Language feature code while the endpoint is idle.
CO Hookflash	330	Sends a timed hookflash over the trunk while on an outside call (includes conference calls).
Conference	5	Connects from three to four parties in a conference. A conference consists of any combination of inside and outside parties.
Data	340	Allows operation of a data device attached to a digital endpoint. Requires a modem-equipped data device. Supported on Mitel 5000 systems equipped with appropriate digital interface equipment.
Default Endpoint	394	This single feature code cancels account codes for all calls following, Do-Not-Disturb, manual call forwarding, background music, ring intercom always, and queue requests; restores handsfree mode, pages, hunt group calls, and system forwarding; and returns endpoint volumes to default values.

Reference
Endpoint Feature Codes

Table 18. Endpoint Feature Codes (Continued)

Feature Name	Code	Definition
Directories	307	<i>(Display endpoints Only)</i> Allows display endpoint users to search for extension numbers or System Speed Dial numbers. The number can then be dialed, if appropriate.
Display Outside Party Name On/Off	379	<i>(Display endpoints Only)</i> When the endpoint user enters this feature code, while connected to a CO call that has outside party name information, the display will toggle between the caller's name and number. If there is no outside party name or the Expanded CO Call Information On Displays flag is disabled, the user will hear a burst of reorder tone and see the CANNOT ACCESS FEATURE display. If the Display Outside Party Name On/Off feature code is programmed in a user programmable button with a lamp, the lamp will be lit when the outside party name is enabled and off when the outside party number is enabled.
Display Time/Date (ITP) Show IP Address (SIP)	300	<i>(Display endpoints Only)</i> Temporarily displays the system date and time, user name, and extension number during a call or when other displays are shown. Feature code 300 displays the IP Address of an endpoint if it is in SIP mode.
Do-Not-Disturb Do-Not-Disturb Cancel Do-Not-Disturb On/Off	370 371 372	The Do-Not-Disturb feature code halts all intercom calls, transferred calls, and pages to the endpoint. The Cancel code returns the endpoint to normal operation. The on/off code can be used to turn Do-Not-Disturb on or off.
Do-Not-Disturb Override	373	<i>(Not used on single line endpoints)</i> If enabled in the database, allows the endpoint user to break through another endpoint's Do-Not-Disturb mode when placing an intercom call.
Enhanced Speakerphone Enable	310	<i>(Digital endpoints only)</i> When entered at a digital endpoint, this feature code enables the enhanced speakerphone. Digital endpoints can also use the Special button + Speaker buttons.
Feature Key Default	395	<i>(Not used on single line endpoints)</i> Endpoints have user-programmable feature buttons that can be set to enter feature codes. This code returns the user-programmable buttons to the database default values.
Group Listen	312	<i>(Not used on single line endpoints)</i> Allows a user to transmit a conversation over the endpoint speaker while in handset or headset mode.
Handsfree On/Off	319	<i>(Not used on single line endpoints)</i> Disables/enables the endpoint's handsfree intercom answering. Incoming intercom calls ring as private calls if handsfree answering is disabled.
Headset Enable Headset Disable Headset On/Off	315 316 317	<i>(Not used on single line endpoints)</i> The enable code signals the system that a headset has been connected to the endpoint. The disable code returns the endpoint to normal operation. The on/off feature code can be used to toggle the feature on or off.
Hold – Individual	336	Places a call on hold so that it can be picked up directly at that endpoint or through a reverse transfer from any other endpoint.

Table 18. Endpoint Feature Codes (Continued)

Feature Name	Code	Definition
Hold – System	335	Places an outside call on system hold. It can be picked up directly at any endpoint that has an individual trunk button and has allowed-answer and/or outgoing access for that trunk, or by the endpoint that placed it on hold. (If used on conference or intercom calls, the system places the call on individual hold.)
Hunt Group Remove Hunt Group Replace Hunt Group Remove/Replace	322 323 324	Removes the endpoint from its assigned hunt group(s) or places it in again. Does not affect non-hunt group calls. The remove/replace feature code can be used to toggle the feature.
LCD Contrast Adjustment	303	Adjusts the LCD contrast on the display. The endpoint must be idle to use this feature.
Message	365	This feature code is used for leaving and retrieving a message waiting indication at a called endpoint or the called endpoint's message center. Depending on how the message was left, the called endpoint user either retrieves the message from his/her message center or from the endpoint that left the message.
Message – Cancel	366	Allows the endpoint user to cancel a message waiting indication that he or she left at another endpoint.
Message – Cancel Current	368	Cancels a message waiting indication that is waiting at the endpoint without requiring the user to respond to it.
Message – Silent	367	Leaves a Message Waiting indication at an endpoint without first placing an intercom call.
Mute On/Off	314	<i>(Not used on single line endpoints)</i> Turns the microphone on or off during a call. If muted, the endpoint user can hear the other party, but the party cannot hear the endpoint user.
Page	7	When followed by a paging zone code (0–9 or 0–49), it allows announcements to be made through endpoint speakers and any external paging speakers in the page zone.
Page On/Off	325	<i>(Not used on single line endpoints)</i> Halts pages through the endpoint speaker or allows them to be received again.
Program Buttons	397	<i>(Not used on single line endpoints)</i> User-programmable feature buttons and Station Speed Dial buttons can be programmed using this feature code.
Program Endpoint Password	392	The endpoint password is used for the Remote Programming feature. The password can be changed by entering the Program Endpoint Password feature code at the endpoint or when using the Remote Programming feature.
Queue Request	6	Requests (or cancels) an automatic callback when a busy trunk or endpoint becomes available.
Record-A-Call	385	If the system is programmed with a Record-A-Call application, the endpoints can be programmed to use the Record-A-Call feature. It allows users to enter a feature code whenever they want to record an ongoing call in their designated Record-A-Call mailbox. Users can retrieve the recorded messages later, just as they would any other mailbox messages.

Reference
Endpoint Feature Codes

Table 18. Endpoint Feature Codes (Continued)

Feature Name	Code	Definition
Redial	380	Redials the last outside phone number dialed or saved at the endpoint (up to 48 digits). Also used to save numbers at endpoints programmed for last number saved.
Redirect Call	331	Allows the endpoint user to route ringing outside, intercom, and camped on calls to another endpoint, hunt group, or outside number. Routing of the redirected call is still subject to trunk and toll restrictions. This feature provides these options in addition to the currently available options which allow the endpoint user to redirect calls to Voice Mail or Do-Not-Disturb.
Reminder Message Reminder Message Cancel	305 306	<i>(Not used on single line endpoints)</i> The endpoint user can set reminder messages that signal the endpoint at specific times. Or, the user can cancel all reminder messages for the endpoint.
Remote Configuration – Disable	343	<i>Reserved for controlled introduction.</i> Disables the Remote Configuration feature. The VPN connection from the Remote Proxy Server to the Mitel 5000 system is terminated.
Remote Configuration – Display License Key	347	<i>Reserved for controlled introduction.</i> Displays the license key ID (HASP key) for the Mitel 5000 system.
Remote Configuration – Enable	342	<i>Reserved for controlled introduction.</i> Enables a Remote Configuration session. The Virtual Private Network (VPN) connection from the Mitel 5000 system to the Remote Proxy Server is initiated.
Remote Configuration – Reset	344	<i>Reserved for controlled introduction.</i> Resets a Remote Configuration session. The VPN connection from the Mitel 5000 system to the Remote Proxy Server is reset.
Remote Programming	359	Allows a user to place an endpoint in DND mode, forward the endpoint's calls, or change the password; either from another endpoint or through DISA.
Reverse Transfer (Call Pick-Up)	4	Picks up a call ringing or holding at an endpoint or hunt group.
Review Keys	396	<i>(Not used on single line endpoints)</i> User-programmable feature buttons and Station Speed Dial buttons can be viewed using this feature code.
Ring Intercom Always On/Off	377	Enables/disables the feature that allows the endpoint to always place private (non-handsfree) intercom calls.
Ring Tone Selection	398	<i>(Not used on single line endpoints)</i> Selects the type of ringing alert tone that will be heard from the endpoint.
Routing Off	304	Disables System OAI Offering Control for third-party applications. This feature requires you to enter a password. Once you disable routing, you cannot enable it again (i.e., only the third-party application can enable routing).
Station Monitor	321	<i>(Hunt Group supervisors only)</i> Allows a designated hunt group supervisor to monitor a call of anyone in the associated hunt group.
Station Speed Dial Station Speed Dial Programming	382 383	Dials/programs one of the 10 Station Speed Dial numbers when followed by a location code (0–9).
Steal	387	Allows the supervisor to take away a call from the hunt group member/agent.

Table 18. Endpoint Feature Codes (Continued)

Feature Name	Code	Definition
Switch Keymap	399	<i>(Not used on single line endpoints)</i> Allows an endpoint user to switch between standard and alternate keymaps.
System Forward Enable System Forward Disable System Forward On/Off	352 353 354	Enables or disables the database-programmed System Forwarding feature for this endpoint. The on/off feature code can be used to toggle the feature on or off.
System Speed Dial	381	Dials one of the 1000 System Speed Dial phone numbers when followed by a location code (000–999). Also used for reviewing System Speed Dial numbers.
Transfer to Hold	346	Transfers a call to another endpoint and places it on individual hold so that it does not ring or send call waiting signals until it recalls.
Transfer to Ring	345	Transfers a call to another endpoint or to an outside phone number.

Index

A

- Administrator
 - endpoint
 - enabling or disabling 11
 - password, programming 18
 - troubleshooting 46
 - feature codes 52
 - programming planning sheets 3
 - types 2
- Alarms
 - clearing 39
 - descriptions 40
 - minor 38
 - network 38
 - system 38
- Answer Supervision Type, programming 25
- Attendant endpoints, enabling or disabling 12
- Automatic
 - daylight-saving time 9
 - Route Selection, ARS-only Class of Service 14
- Automatic Route Selection, ARS-only Class of Service 15

B

- Busy Out, programming 30

C

- Caller ID, programming 26
- Capacities, network 3
- Characters, dialpad 7
- Class of Service
 - ARS only 14, 15
 - European values 15
- Clearing alarms 39
- Codes
 - administrator feature 52
 - diagnostics feature 53
 - endpoint feature 56
 - trunk access 56

D

- Day Mode, setting 8
- Day or Night Answer Access, programming 31
- Day or Night Ring-in, programming 32
- Device, seizing 43

- Diagnostics feature codes 53
- Dialpad characters, entering 7
- DND messages
 - programming 19
 - programming planning sheets 48
- DND messages, Japanese language 19

E

- Emergency calls, toll restriction override 14
- Endpoint
 - attendant, enabling or disabling 12
 - dialpad characters, entering 7
 - extension
 - numbers, changing 21
 - user names, programming 13
 - feature codes 56
- English, multicultural references 4
- Extension numbers
 - changing 21
 - swapping 22

F

- Feature codes
 - administrator 52
 - diagnostics 53
 - endpoint 56
- Flowcharts
 - Station programming 17
 - System programming 23
 - Trunk programming 35
- Freeze and unfreeze
 - network history 44
 - system history 44

H

- History
 - network 44
 - system 44
- Hookflash, speed dial 10

I

- Individual trunk programming planning sheets 51
- Internal modem
 - enabling and disabling 41
 - resetting 41

Index

J

Japanese language
 DND messages 19
 entering characters 7
 Reminder messages 20

K

Katakana characters 7

M

Major alarms 38
Messages
 DND, programming 19
 Reminder, changing 20
Minor alarms 38
Mode, Day or Night 8
Modem
 internal, enabling and disabling 41
 internal, resetting 41
Multicultural English references 4
Multi-node configuration 8

N

Network
 alarms 38
 capacities 3
 history, freezing and unfreezing 44
 single and multi-node configurations 8
 synchronizing time 10
Night Mode, setting 8

P

Passwords, administrator endpoint 18
Pause, speed dial 10
PBX trunks, speed dialing 10
Programming planning sheets
 administrator endpoint password 47
 DND messages 48
 endpoint information 47
 individual trunk programming 51
 Reminder messages 49
 station extension numbers 50
 swapping stations 50
 trunk groups 51
Provider information 46

R

Reminder Messages
 changing 20
 Japanese language 20
 programming planning sheets 49

S

Single node configuration 8
Speed dial
 pauses and hookflashes 10
 System 10
Stations
 numbers, programming planning sheets 50
 swapping, programming planning sheets 50
Synchronize network time 10
System
 alarms 38
 date and time, setting 9
 history, freezing and unfreezing 44
 programming options 18
 Speed Dial
 deleting names or numbers 11
 toll restriction override 14
 using 10

T

Time
 daylight saving, automatic 9
 setting 9
Toll restrictions
 COS override for emergency calls 14
 programming 14
Troubleshooting
 administrator endpoint 46
 administrator endpoint features 46
Trunk groups
 assigning trunks to 29
 Day or Night Answer Access, programming 31
 Day or Night Ring-in, programming 32
 programming planning sheets 51
 trunk lists, programming 34
Trunks
 access codes 56
 Answer Supervision Type, programming 25
 assigning to trunk groups 29
 Busy Out, programming 30
 Caller ID, programming 26
 polarity reversal 24
 Valid Call Timer 24

U

User names, programming 13

Part No. 580.8001
Issue 3.1, December 2008

