Meridian/Succession Companion DECT
Operation Administration and Maintenance

Publication Number: 553-3601-301
Document Release: Standard 4.00
Date: June 2001

Publication history

June 2001

Standard, Release 4.00. This version introduces information about: DMC8, and OTM DECT Manager. This version excludes retired DMC equipment, associated parts, and DECT Manager (for Windows) in compliance with Product Bulletin PBME484, and Product Bulletin PBCE71. This version introduces a new document title *Meridian/Succession Companion DECT* and the NTP number 553-3601-301.

This version replaces all previous versions.

June 1999

Standard, Release 3.00. This version introduces information about: DECT Manager enhancements to the DECT Manager Connections, User Administration, Login Module, System Parameter files, and DMC addressing; the C4610 base station, and the C4010 handset. This version also introduces changes that improve the on-line and printed document.

July 1998

Standard, Release 2.00. This version introduces information about Modem file administration.

June 1998

Standard, Release 1.00. The first release of the *Meridian Companion DECT Operation Administration and Maintenance Guide.*

Contents

About this guide

Target audience

The Meridian Companion DECT OA&M guide provides information for planners, installers, site maintenance personnel, and administrators. It contains administration programs and maintenance information about the Companion system.

Identifying Nortel Networks PBX systems

The following systems are referred to in this guide as Large systems:

- Option 51
- Option 61
- Option 71
- Option 81
- Option 51C
- Option 61C
- Option 81C

The following systems are referred to as Small systems.

- Option 11
- Option 11E
- Option 11C
- Option 11C Mini
- Succession Communication Server for Enterprise 1000

Call out boxes

CAUTION: Data loss
This symbol alerts you to a procedure that can result in a loss of data.

CAUTION: Equipment damage
This symbol alerts you to a procedure that can result in equipment damage.

CAUTION: Electrostatic sensitive device
This symbol alerts you to a procedure that can result in equipment damage due to ElectroStatic Discharge (ESD).

CAUTION: Service interruption
This symbol alerts you to a procedure that can result in an interruption of service.

DANGER: Electric shock
This symbol alerts you to the risk of a serious injury, or death, caused by an electric shock.

DANGER: Serious injury
This symbol alerts you to the risk of a serious injury, or death, caused by an immediate hazard.

WARNING: Personal injury
This symbol warns you to the risk of a minor or moderate injury caused by an immediate hazard.

NOTE
This symbol is used to indicate advice.

Step	Action
1	This portion of the step action table details the required step.
	This portion of the step action table details the action to carry out the preceding step.

OA&M Introduction

This chapter contains the following topics:

Optivity Telephony Manager DECT Application

The Optivity Telephony Manager (OTM) provides a single point of access and control for managing various Meridian 1 applications.

OTM provides a DECT Application and OTM Common Services to manage an MDECT system. OTM runs on Windows NT 4.0, Windows 98, Windows 2000 as a server plus Windows 95 as client.

> **Note:** For an overview of OTM, see *Using Optivity Telephony Manager for Meridian 1* (553-3001-330).

DECT Application features

The DECT Application provides the following MDECT managing
features. The DECT Application allows you to do the following:

- launch the Application from OTM using Windows and Web
  navigators

- view the MDECT System provisioning with the DECT Systems
  window

- view the DMC8 configuration with the Boards window

- view base station configuration with the Radio Fixed Part
  window

- view subscription information with the Subscriptions window

- upgrade Firmware using the DECT Systems window

- subscribe handsets using the Subscription window

- support DMC-8 and DMC (serial only)

- synchronize (update) the DECT Application database to the
  MDECT system configuration when the OTM connects to the
  MDECT system

- collect performance data using the Performance Collection
  window

- view On-line Help

Common Services features

The following DECT management features are provided by the OTM
Common Services:

- OTM Alarm Management provides alarm collection and alarm
  processing, and gives the following:

  — Web based alarm browser used to view alarms, past alarms
    and occurring alarms

  — Windows based alarm browser used to view only those
    alarms that occur while the browser is open

— Alarm Notification application can notify you of an alarm occurrence by pager, E-mail, and can forward the alarm to an upstream processor

— PC Event log and Viewer used to view events and alarms generated from the DECT Application in a report layout.

• Backup and restore lets you create an OTM backup file of the DECT application data.

• User profiles allows you to configure different types of DECT users.

• On-line help, provides help for common services features.

For more information about the Common Services features, see *Using Optivity Telephony Manager for Meridian 1* (553-3001-330).

OTM navigators

There are two navigators used with the DECT application to manage an MDECT system:

• a Windows® based navigator

• a Web based navigator

A Windows based navigator, that uses the Microsoft Windows interface, can access all DECT application features. A Web based navigator, that uses the Web (http) interface, can access most, but not all, DECT application features.

Use the Windows based navigator if you are managing an MDECT system, at the keyboard and mouse of an OTM server.

You must use a Web based navigator if you are managing an MDECT system from a client PC.

Features available to Windows based navigators

The following features are only available at an OTM server using the Windows based navigator. The OTM server can:

- define MDECT system sites
- define Meridian 1 system
- configure handsets with the Station Administration feature of OTM
- OTM Alarm Notification
- PC Event log and Viewer
- backup and restore the MDECT Manager database to and from a file
- define a user profile for Windows based applications
- define user management for Windows based applications

Features available to both Windows and Web based navigators

Provisioning features The following provisioning features are available using either a Windows based navigator or a Web based navigator:

- define MDECT system
- MDECT system names
- MDECT Concentration mode
- MDECT system Access Right
- Transmission parameters
- DMC8 provisioning
- Firmware provisioning
- Base Station provisioning

Operation features The following operation features are available using either a Windows based navigator or a Web based navigator:

- MDECT system connectivity
- MDECT system connection control
- Read data from a MDECT system on demand
- Define handsets with the overlays in the OTM database
- Define handsets in the MDECT database
- Subscribe handsets

Maintenance features The following maintenance features are available using either a Windows based navigator or a Web based navigator:

- Operational status monitoring

- Alarm management

- Date and Time

- Upstream Manager IP address

- Basic browser

- MDECT system data synchronization with the MDECT Manager database

- Performance

- PC Event Log

Security features For information about the Security features, see *Using Optivity Telephony Manager for Meridian 1* (553-3001-330).

MDECT System administration

The following index is a navigator for this chapter:

Windows access to the DECT application

For access from a Web based navigator, see

Login to the OTM

Figure 1:
OTM login dialog box
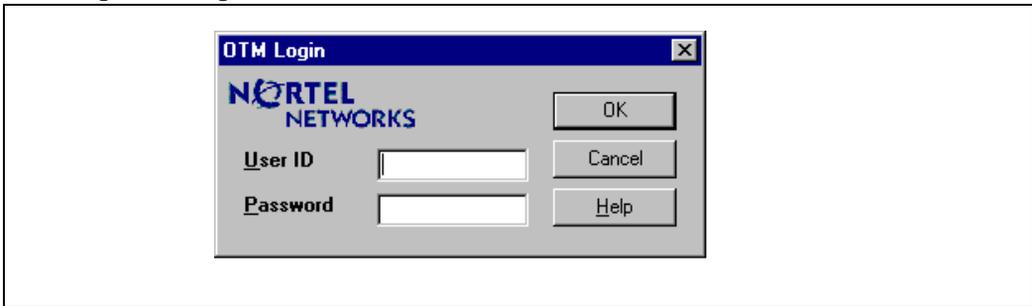
Table 1 Login to the OTM

Step	Action
1	Access the OTM Login dialog box.
	Click on **Start**>**Programs**>**OTM**.
2	Login.
	Enter your **User ID**, **Password**, and click **OK**.

Select the Meridian 1 PBX that supports the MDECT system

Figure 2:
OTM Navigator window
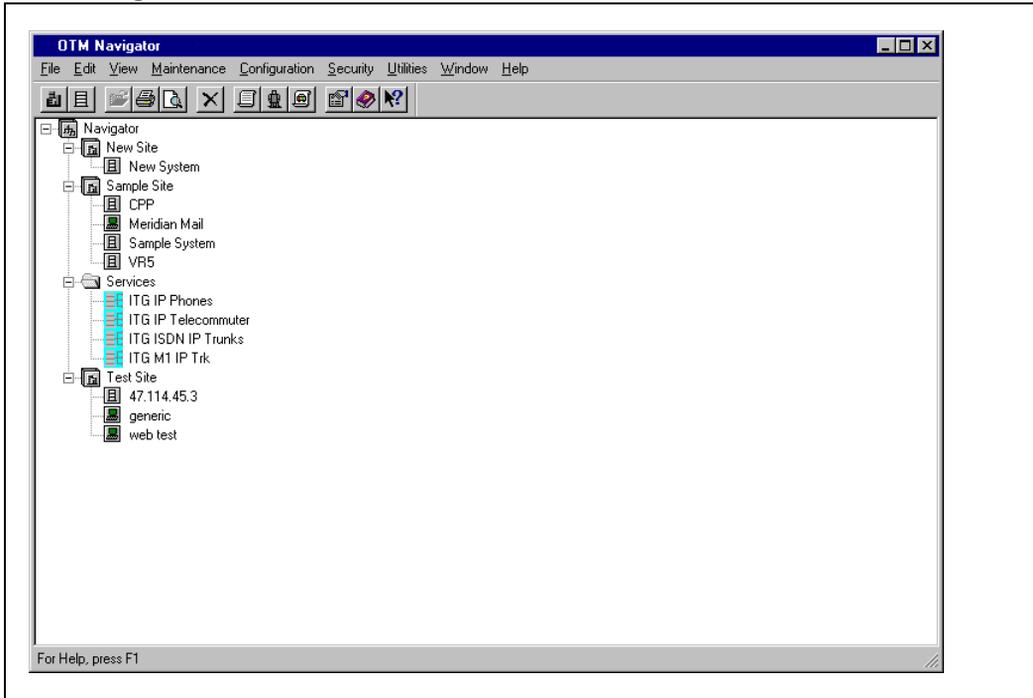
Table 2 Select the Meridian 1 PBX that supports the MDECT system

Step	Action
1	Select the Meridian 1 system.
	Double click on XXX (shown as **Sample System** in Figure 2).
	END

Launch the DECT Application

Figure 3:
M 1 System Window
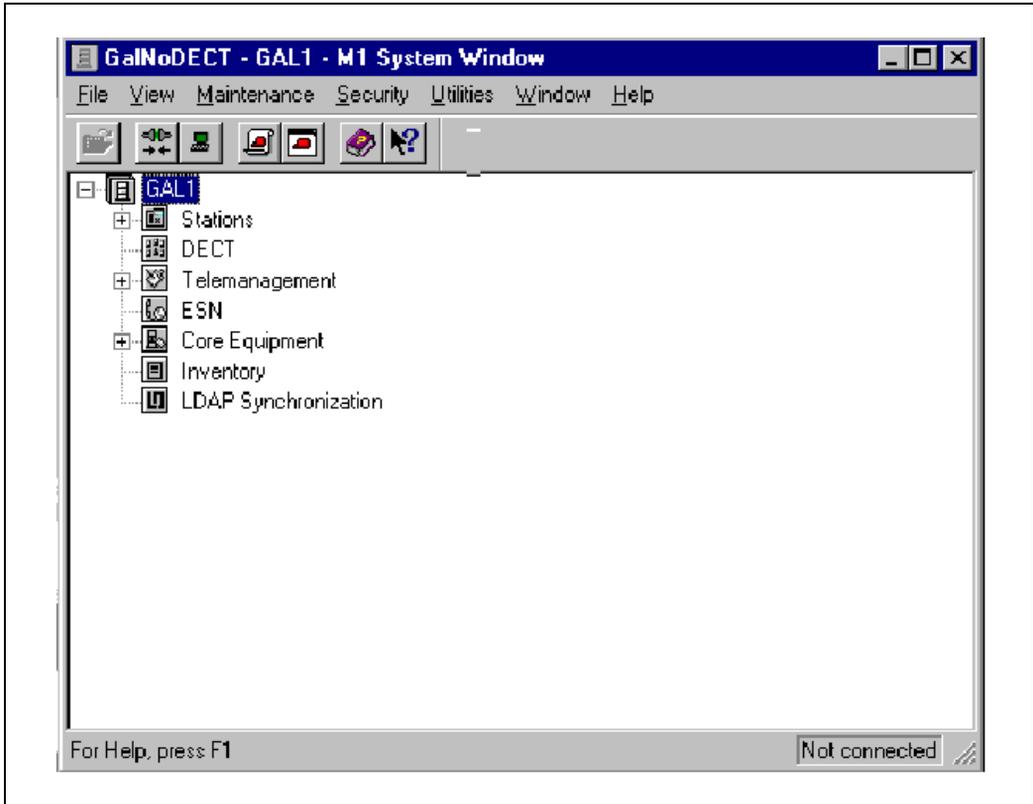
Table 3 Launch the DECT application

Step	Action
1	Launch the DECT application.
	Double click on **DECT**, or pull-down **File** menu and click **DECT**.
	END

Web based navigator access to the DECT application

For more detailed information on Web based navigators, see *Using Optivity Telephony Manager for Meridian 1* (553-3001-330).

Open the Web Administrator Login

Table 4
Internet Explorer and Netscape Communicator

Table 5 Open the Administrator Login

Step	Action
1	Open a Web browser.
	Click on Internet Explorer icon or Netscape Communicator icon.
2	Open the Administrator login screen.
	Enter the URL **http://<**otm_server_name**>/admin** or use the **ip_ address**.

Web Administrator Login

Figure 4:
OTM Web Administrator login

Table 6 Open the Administrator Login

Step	Action
1	Select the Administrator Login.
	Click on the applet launch logo.
2	Login.
	Enter your **User Login**, **Password**, and click **Submit**.
	END

Open the Web current Status

Figure 5:
OTM Web navigator current Status
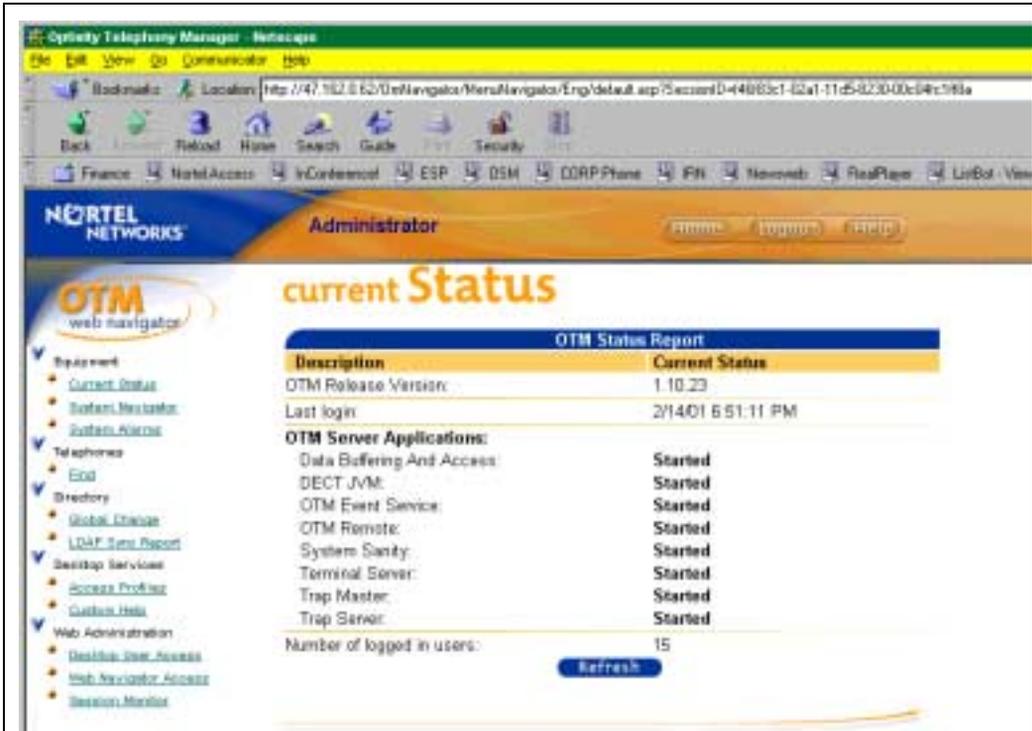
Table 7 Open the current Status

Step	Action
1	Open System Navigator screen.
	Click on **System Navigator** in the **Equipment** list on the left.
	END

Open the Web System navigator

The System navigator is selected by clicking on <u>System Navigator</u> from the list on the left of the previous screen.

Figure 6:
OTM Web system navigator

Table 8 Open the Web System navigator

Step	Action
1	Select an MDECT system.
	Highlight a system in the **Systems** list.
2	Open the DECT systems window.
	Click on **OTM DECT** in the grey box on the left.
	END

DECT Systems window

Figure 7:
DECT Systems window
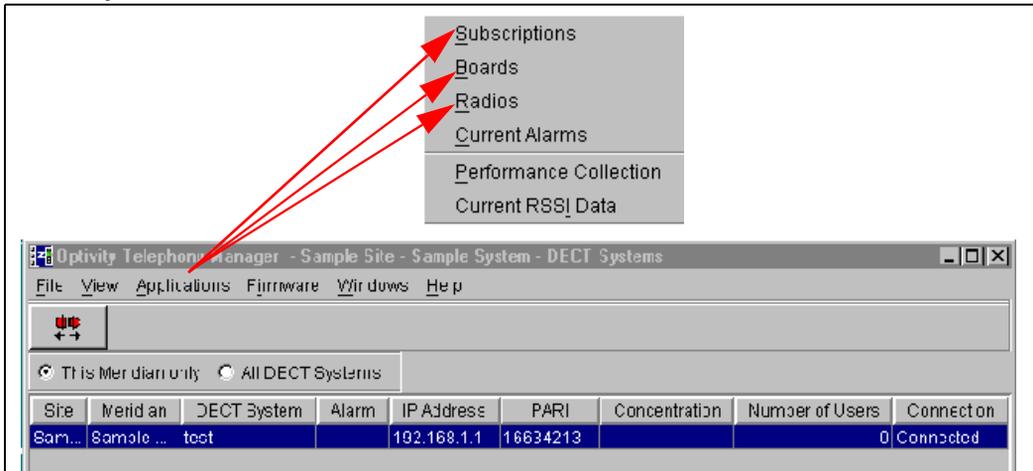
Open Subscriptions, Boards, and RFP windows

Table 9 Open Subscriptions, Boards, and RFP windows

Step	Action
1	Select an MDECT system.
	Highlight a system from the list.
2	Open one of the following from the DECT Systems window: • Subscriptions window • Boards (DMC) window • Radios (base station) window
	Click on the appropriate entry in the **Applications** pull-down menu.
	END

Connection to an MDECT system

Table 10 Connection to an MDECT system

Step	Action
1	Select an MDECT system from the DECT Systems window list.
	Highlight an MDECT system.
2	Activate one the following from the DECT Systems window: **1** connect to an MDECT System **2** disconnect from an MDECT System **3** lock a connection to an MDECT System **4** unlock a connection from an MDECT System
	From the **Applications** pull-down menu click on the following items, or click on the following icon: **1** **Connect** or (green) **2** **Disconnect** or (yellow) **3** **Lock** or (red) **4** **Unlock** or (yellow) **Note:** See DECT Systems window in *Meridian/Succession Companion Overview* (553-3601-103) for a description of connections.

END

NOTE
While the Connection status is *Connecting* or *Disconnecting* the Connect/Disconnect tool is disabled. The status bar shows the connection progress.

Permanent connection to an MDECT system

Figure 8:
DECT Systems window and DECT System Properties dialog
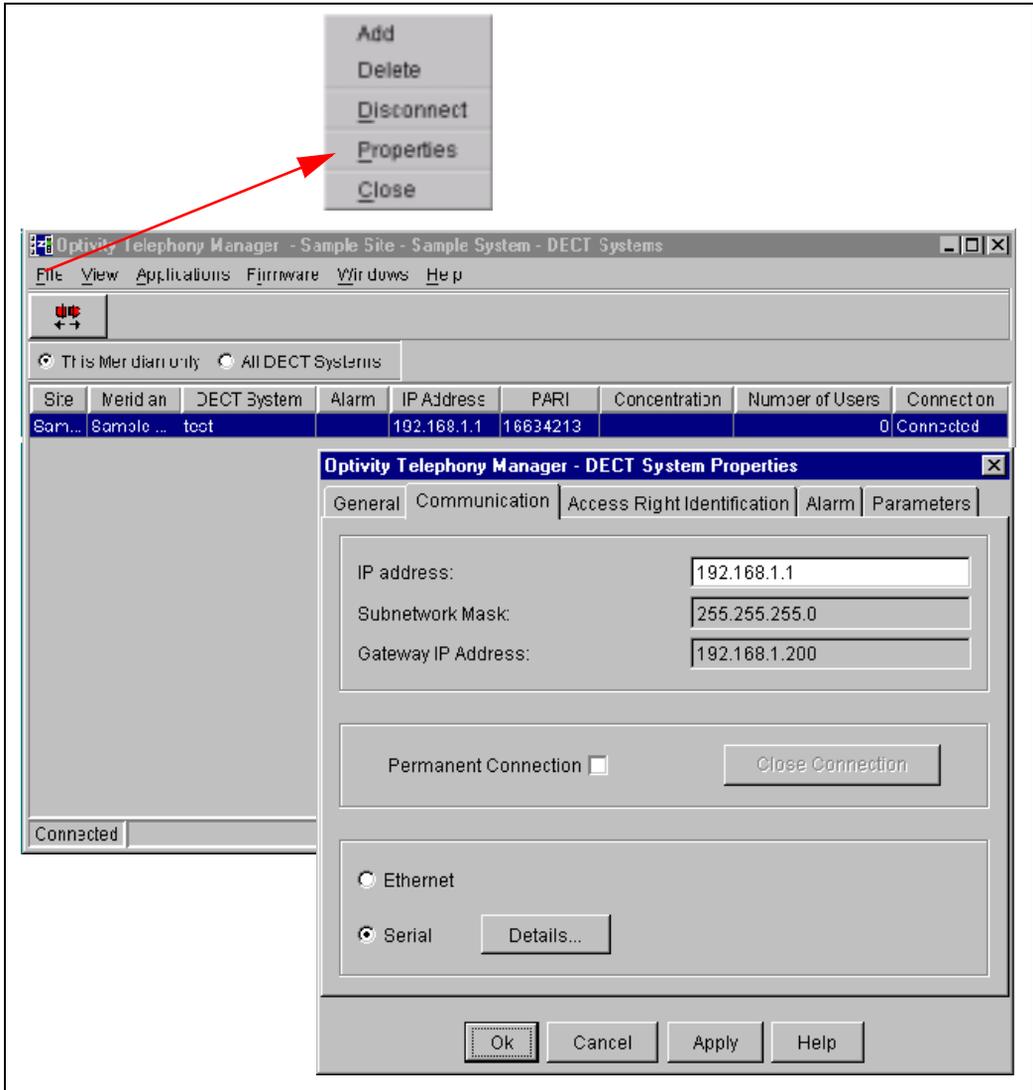
Table 11 Permanent connection to an MDECT system

Step	Action
1	Select an MDECT system from the DECT Systems window list.
	Highlight an MDECT system.
2	Connect to an MDECT System.
	From the **Applications** pull-down menu, click on **Connect** or click on the (green) icon.
3	Open the Properties dialog.
	From the **File** pull-down menu, click on **Properties**.
4	Select Permanent Connection.
	Click on the **Permanent Connection** box.
5	Accept the changes.
	Click on the **OK** button.
	END

Add MDECT systems
Add new site properties

Figure 9:
New Site Properties

Complete the following steps:

Table 12 Add new site properties

Step	Action
1	Open the New Site Properties dialog.
	In the OTM Windows Navigator, choose **Add Site** from the **Configuration** menu.
2	The **Site Name** appears in the Navigator tree. The Short Name is an abbreviated site name that displays in the Alarm Banner.
	Enter the **Site Name** and **Short Name**.
	Note: Bold fields in the dialog sheets indicate required information.
3	The **Site Location** box.
	Enter your **Site Location** information.
4	The **Contact Information** box.
	Enter the contact name and related information, and click **Apply**.
5	To add a new system to this site.
	Click **Add System**.
6	When you have finished entering Site information, click one of the following buttons to add the site to the Navigator tree.
	OK adds the site and closes the property sheet.
	Apply adds the site and leaves the property sheet open allowing you to add another system to this site (you may repeat step 5 to add another system)
	Cancel closes the dialog box without adding the site.

END

Add your Meridian 1 PBX on the OTM server

You can add as many systems (including non-Meridian 1 systems) to a site as your license permits. You must have administrator privileges to add a system.

Figure 10:
Add System
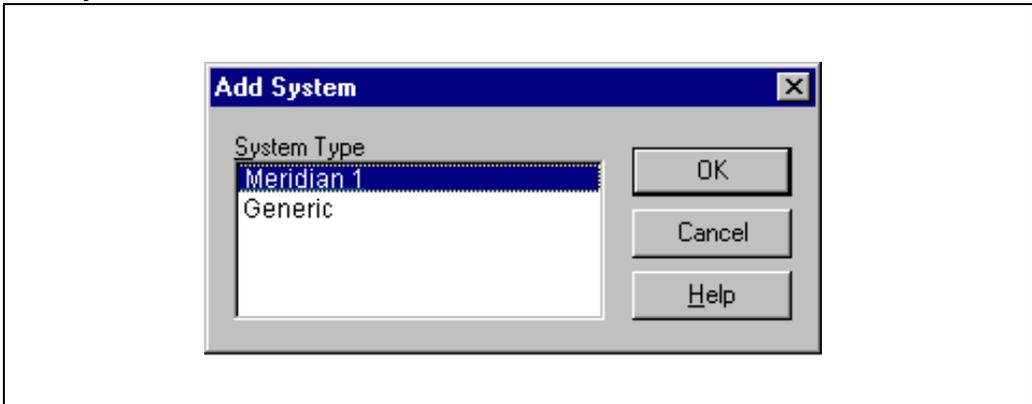
Complete the following steps:

Table 13 Add your Meridian 1 PBX on the OTM server

Step	Action
1	In the Navigator window, select the site.
	If you are adding a new system from within the New Site Properties window, skip to step 3 in this procedure.

Table 13 Add your Meridian 1 PBX on the OTM server

Step	Action
2	Open the Add System dialog.
	Choose **Add System** from the **Configuration** menu or the right mouse button pop-up menu.
3	Program the Add System dialog box. You may need to install additional software to enable other system types not listed here. Follow the installation instructions included with your order.
	Select the system type, and then click **OK**.

END

Add your Meridian 1 PBX properties - general

Figure 11:
New System Properties - General

Complete the following steps:

Table 14 Add your Meridian 1 PBX properties - general

Step	Action
1	Select the General tab.
	Click the **System Properties—General tab**.
2	Program the **System Name** and **Short Name** (required fields), and other information as needed.
	Enter the **System Name** and **Short Name.**
3	You can make **System Location** and **Contact Information** the same as site information.
	Click the **Same as Site** checkbox.
4	Accept changes.
	Click the **OK** button.

Add a communications profile for the DECT application

Figure 12:
Add Communications Profile
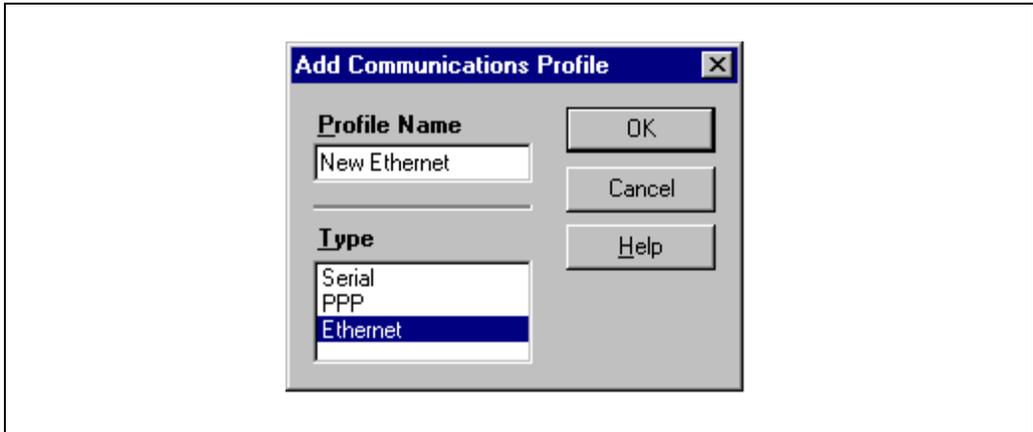
Complete the following steps:

Table 15 Add new Meridian 1 PBX communications profile

Step	Action
1	In the Navigator window, select the Sample Site.
	Double click on **Sample Site**.
2	Choose the Properties dialog.
	Click on **Properties** from the **File** menu.
3	Open the Add Communications Profile dialog.
	Click on the **Communications** tap and click **Add**.
4	Select a communications type.

Table 15 Add new Meridian 1 PBX communications profile

Step	Action
	Highlight **Ethernet** in the **Type** box. **Note:** The DECT application does not use the Communications Profile. Unless there is another application that requires a specific Communications Profile, choosing Ethernet is the least complicated profile to implement.
5	Program the Profile Name.
	Enter a **Profile Name**.
6	Accept the changes.
	Click **OK**.

Add your Meridian 1 PBX System Data Properties

Figure 13:
System Properties - System Data

Complete the following steps:

Table 16 Add your Meridian 1 PBX System Data Properties

Step	Action
1	Select the system Data tab.
	Click the **System Properties—System Data** tab.
2	Program the Machine Information.
	Enter the **Machine** type and **Release** version for the system. **Note:** For example, if your Meridian 1 is an Option 61C running X11 Release 25 software, enter **61C** in the Machine field and use the drop down box to select **25** in the Release field.
3	Program the System Parameters.
	Enter the appropriate values for your system.
4	Program Packages.
	Enable or disable M1 packages as appropriate for your system.
5	**Note:** You can copy this data directly from an installed switch by scheduling an upload with the **File** menu **Update System Data** command in the System window. **Update System Data** uses the communication profile for Station Administration. However, configure the Release number here first to allow available applications to show up properly in the Applications Tab.

END

Add your Meridian 1 PBX System Applications Properties

This tab defines the OTM applications that will appear in the System window and the communications profile to be used with each application. You must enable an application for it to be available in the System window.

Figure 14:
System Properties- Applications
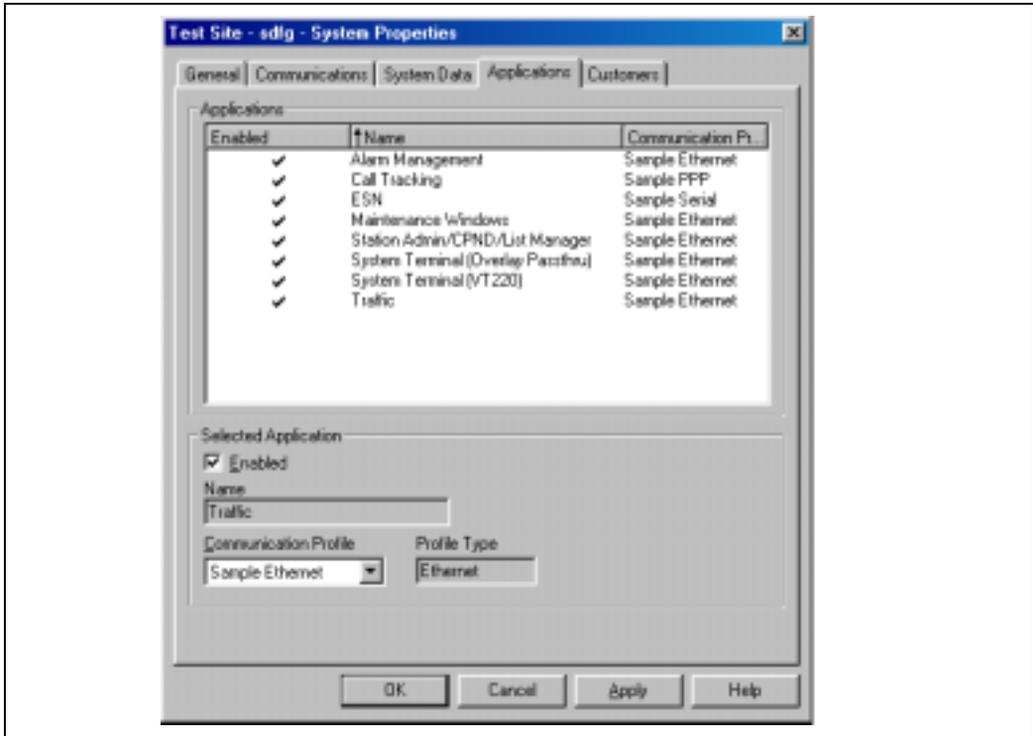
Complete the following steps:

Table 17 Add your Meridian 1 PBX System Applications Properties

Step	Action
1	Select the system Applications tab.
	Click the **System Properties—Applications Data** tab.
2	To enable an application.
	• Select the application in the **Applications** box. • Select a **Communications Profile** from the drop-down list in the **Selected Application** box. • A checkmark appears next to the application and the **Enabled** box is also checked.
3	To disable an application.
	• Select the application in the **Applications** box. • In the **Selected Application** box, click the **Enabled** checkbox to remove the checkmark.

Add your Meridian 1 PBX Customer Properties

This tab lists the customers currently defined for this Meridian 1
system. You may add new customers, delete customers, or review the
properties of a selected customer. When you add a new customer,
you configure the Meridian 1 features and numbering plans that are
available to the customer. This information it is not automatically
updated on the Meridian 1 and must be updated by using LD15
customer data block.

> **NOTE**
> Customer information is required for System Administration/CPND
> and ESN applications.

Figure 15:
System Properties - Customers
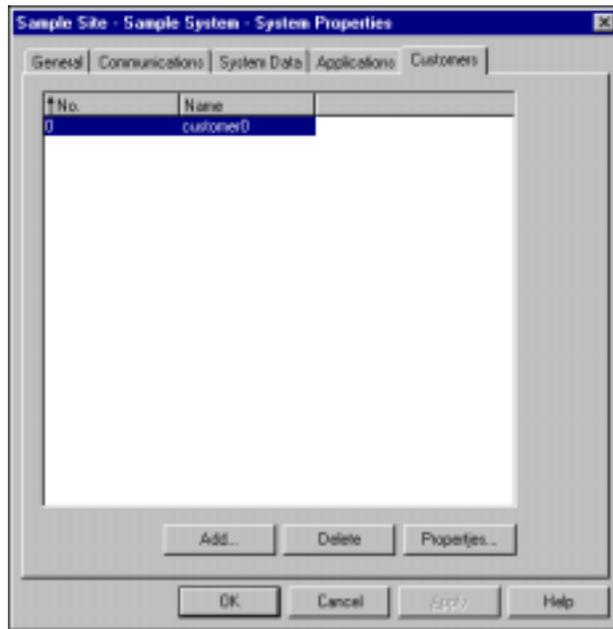
Complete the following steps:

Table 18 Add your Meridian 1 PBX customer properties

Step	Action
1	Select the system Customers tab.
	Click the **System Properties—Customers Data** tab.
2	Select a customer number.
	Click **OK**.
3	Update the Meridian 1 PBX.
	Use LD 15 Customer Data Block.

END

Add your Meridian 1 PBX Customer0 General Properties

Figure 16:
Customer0 Properties - General

Complete the following steps:

Table 19 Add your Meridian 1 PBX Customer0 General Properties

Step	Action
1	Select the General tab.
	Click the **General** tab.
2	Program the Customer Name and Number.

Table 19 Add your Meridian 1 PBX Customer0 General Properties

Step	Action
	Enter the **Customer Name** and **Number**.
3	Program the Home Location Code.
	Enter the HOLC as defined in LD 90.
4	Program the Scheduler System ID, if you are using applications with scheduled activities, such as Station Administration/CPND, ESN, and Traffic.
5	Accept changes.
	Click **Apply**.

Add your Meridian 1 PBX Customer0 Features Properties

Figure 17:
Customer Properties - Features
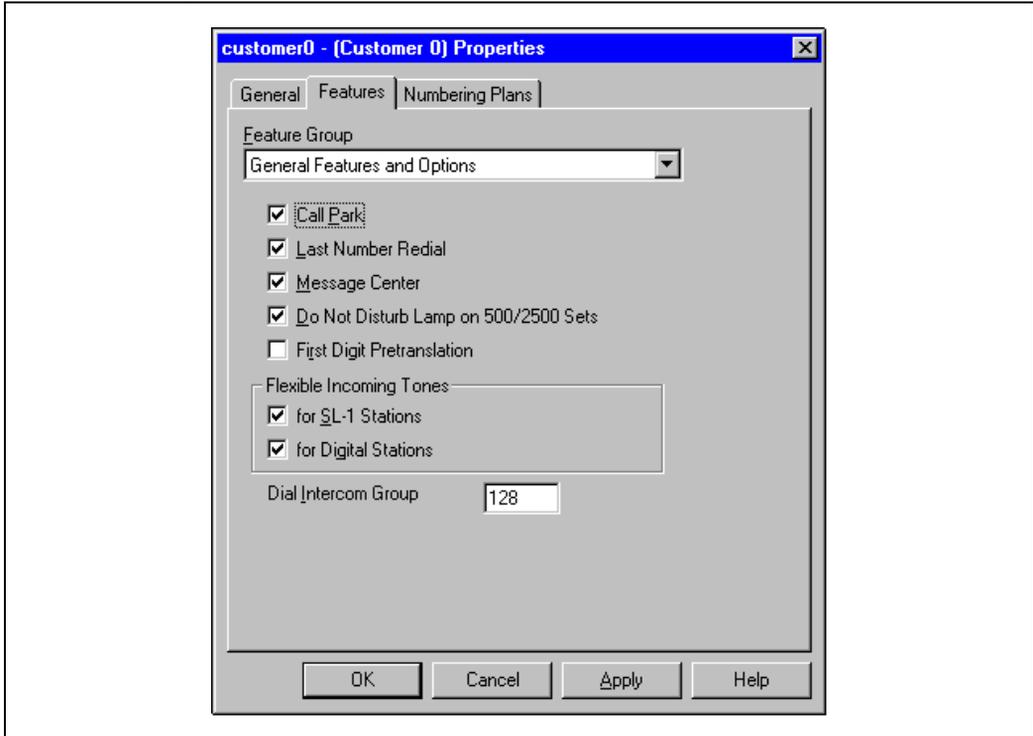
Complete the following steps:

Table 20 Add your Meridian 1 PBX Customer0 Features Properties

Step	Action
1	Select the Features tab.
	Click the Features tab.
2	Program Features Group.
3	Accept changes.
	Click **Apply**.

Add your Meridian 1 PBX Customer0 Numbering Plans Properties

Figure 18:
Customer Properties - Numbering Plans
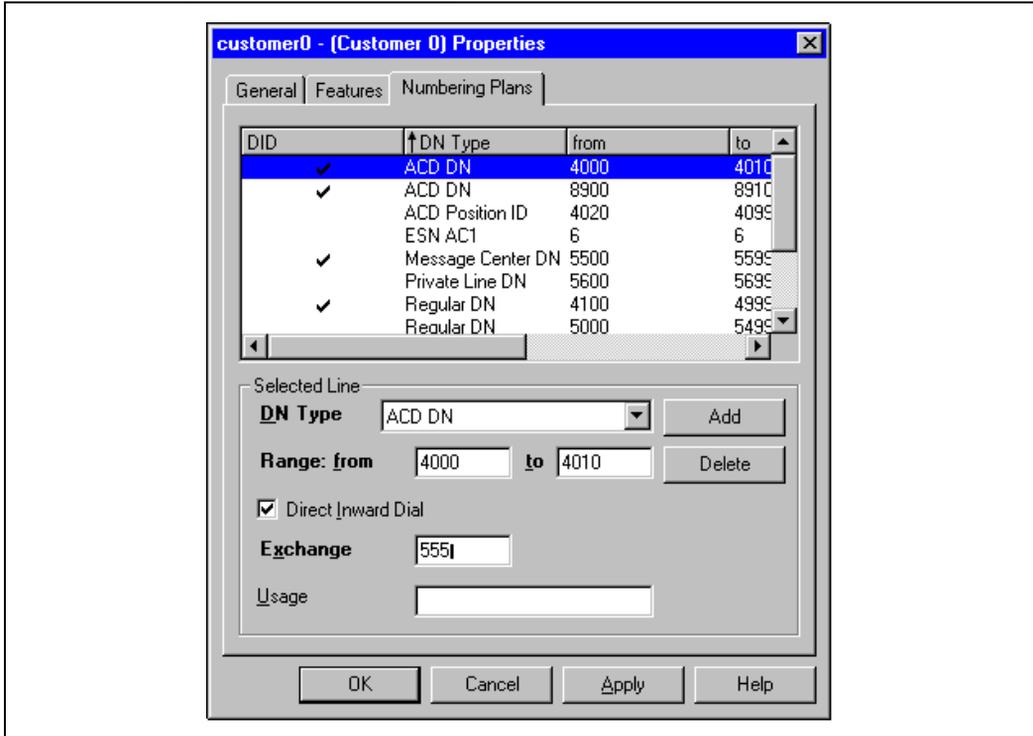
Complete the following steps:

Table 21 Add your Meridian 1 PBX Customer0 Numbering Plans Properties

Step	Action
1	Select the Numbering Plans tab.
	Click the **Numbering Plans** tab.
2	Program the customer information appropriate for your Meridian PBX.
3	Accept changes.
	Click one of the following buttons to save the information: • **OK** adds the customer and returns to the System properties sheet. • **Apply** adds the customer and leaves the Customer properties open so that you can add other information for this customer. • **Cancel** closes the dialog box without adding the customer.

NOTE
At this point the DECT application is installed in the OTM server.

Delete MDECT systems

Figure 19:
DECT Systems window

Table 22 Delete MDECT systems

Step	Action
1	Using Windows, Login to OTM, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
	Follow the instructions on, page 19 to page 21.
2	Using a Web based navigator, open the Administrator login screen, login, select the System Navigator, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
	Follow the instructions on, page 22 to page 25.

Table 22 Delete MDECT systems

Step	Action
3	Select an MDECT System to delete.
	Highlight an MDECT system from the list.
4	Delete the MDECT System.
	From the **File** pull-down menu, click on **Delete**.
	END

Configure non-concentrated handsets on a Meridian 1 PBX

For information about System Administration, see *Using Optivity Telephony Manager for Meridian 1* (553-3001-330)

Open Station Administration window

Figure 20:
M1 System Window
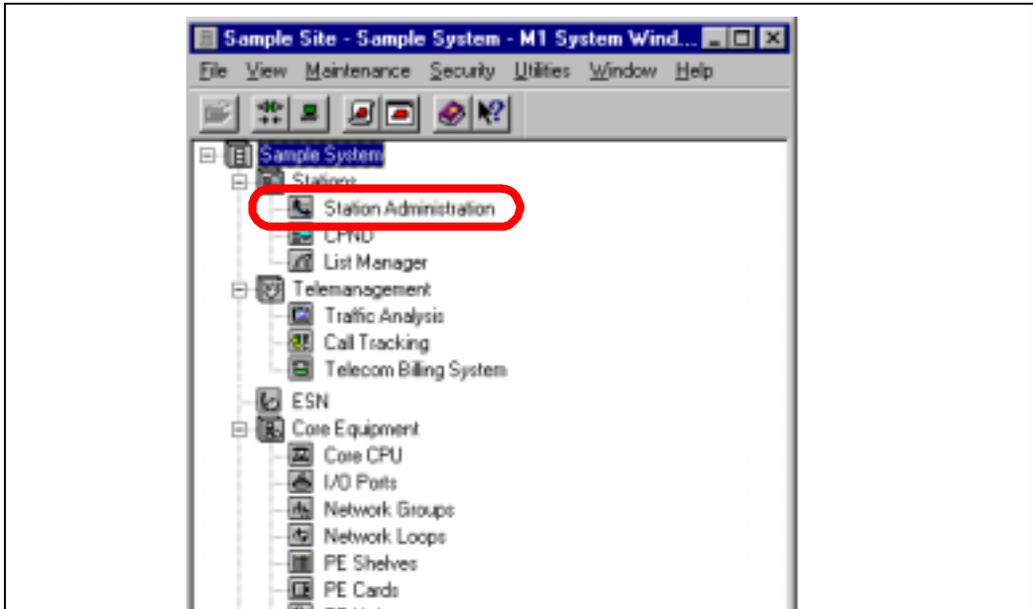
Table 23 Station Administration window

Step	Action
1	Open the Station Administration window.
	Click on **Station Administration** in the M 1 System Window.

Access Add Station dialog

Figure 21:
Station Administration window
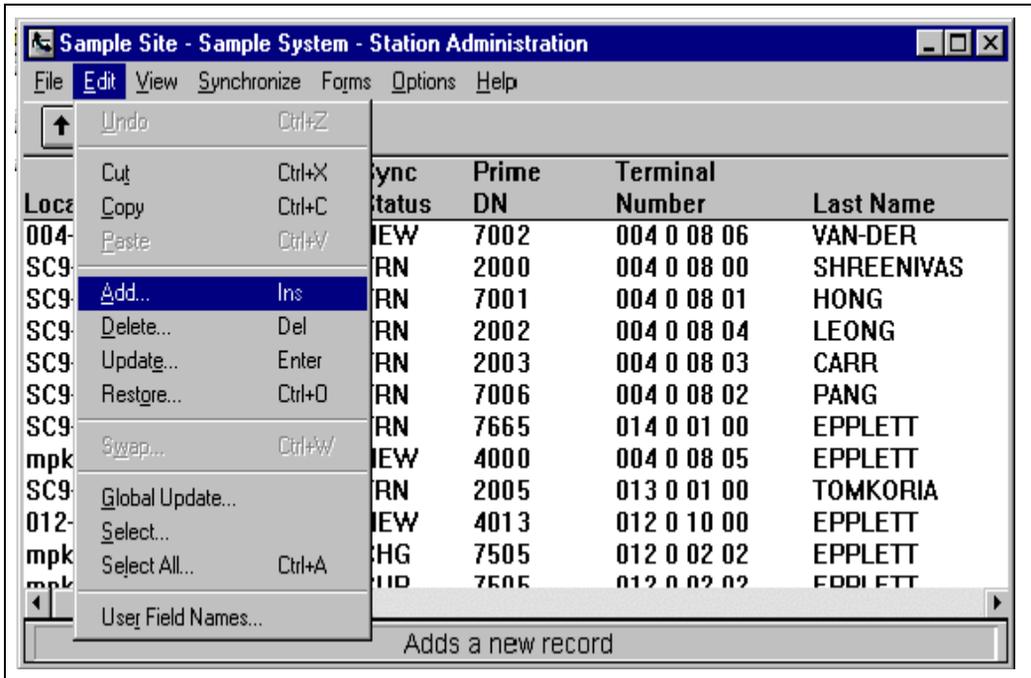
Table 24 Access Add Station dialog

Step	Action
1	Access Add Station dialog.
	From the **Edit** pull-down menu, click on **Add**.
	END

Add 500 analog standard

Figure 22:
Add Station dialog

Table 25 Add 500 analog standard

Step	Action
1	Add 500 analog standard.
	Highlight **500 Analog Standard**, and click on the **OK** button.
	END

Access features

Figure 23:
500 dialog

Figure 24: Access features

Step	Action
1	Access features.
	Click on the **Features** button.
	END

Access wireless type

Figure 25:
Features dialog
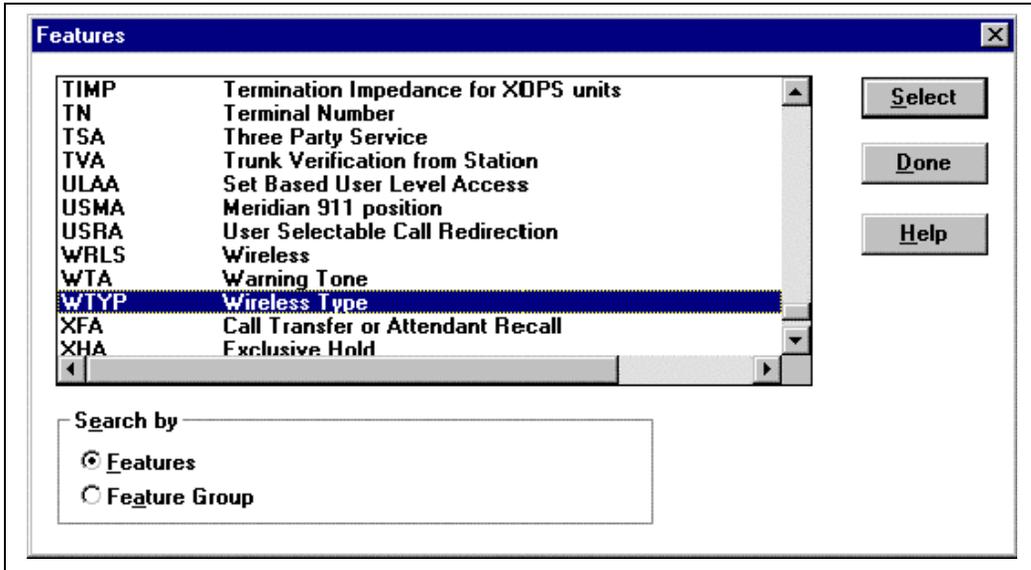
Table 26 Access wireless type

Step	Action
1	Access wireless type.
	Highlight **Wireless Type**, and click on the **Select** button.

Select wireless type

Figure 26:
Wireless dialog
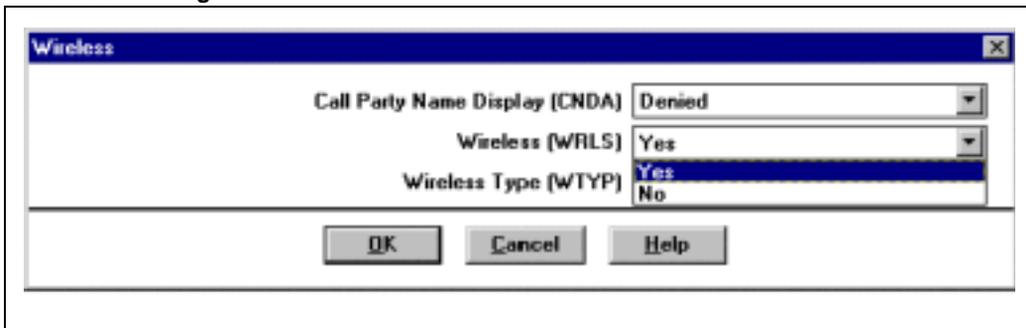
Table 27 Select wireless type

Step	Action
1	Select wireless type.
	From the **Wireless Type (WTYP)** pull-down menu, click on **YES**.

Select DECT wireless set

Figure 27:
Wireless dialog
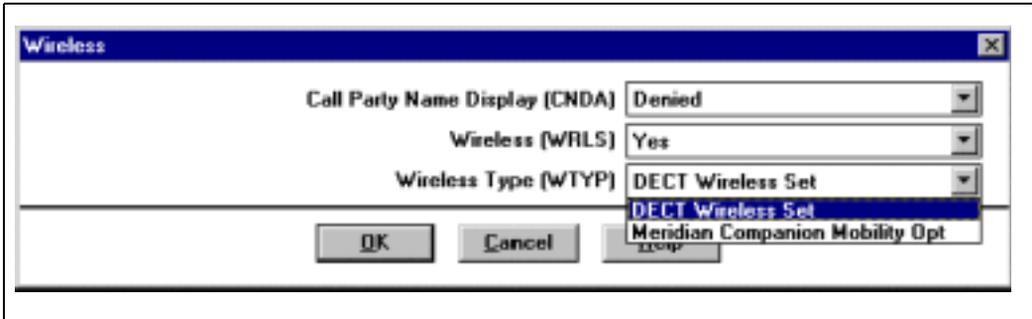
Table 28 Select DECT wireless set

Step	Action
1	Select DECT handset.
	From the **Wireless Type (WTYP)** pull-down menu, click on **DECT Wireless Set**, and click on the **OK** button.

Accept changes

Figure 28:
Features dialog
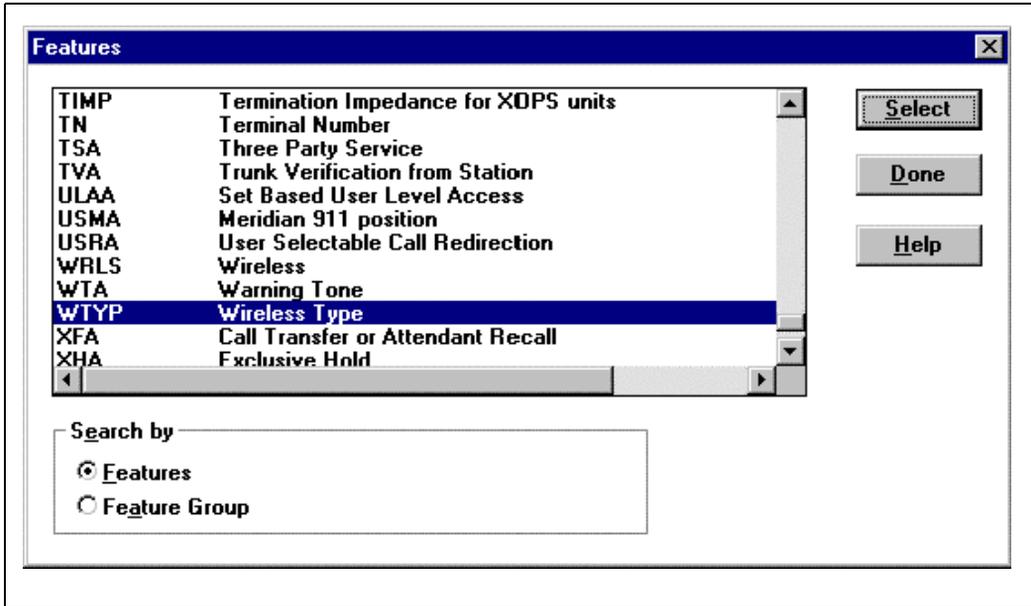
Table 29 Accept changes

Step	Action
1	Accept changes.
	Click on the **Done** button.
	END

Configure concentrated handsets on a Meridian 1 PBX
Open Station Administration window

Figure 29:
M1 System Window
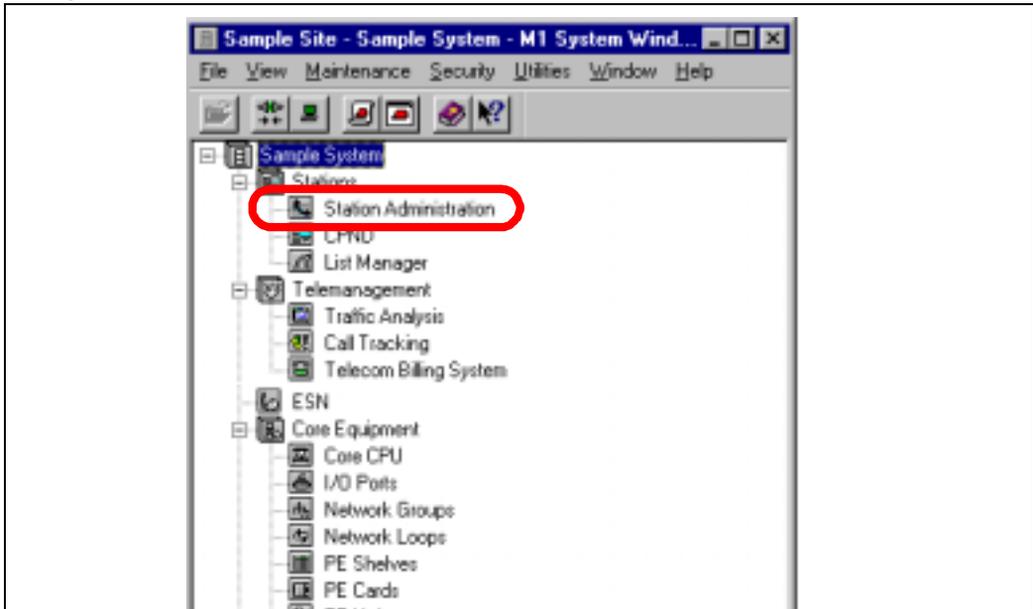
Table 30 Station Administration window

Step	Action
1	Open the Station Administration window.
	Click on **Station Administration** in the M 1 System Window.

Access Add Station dialog

Figure 30:
Station Administration window
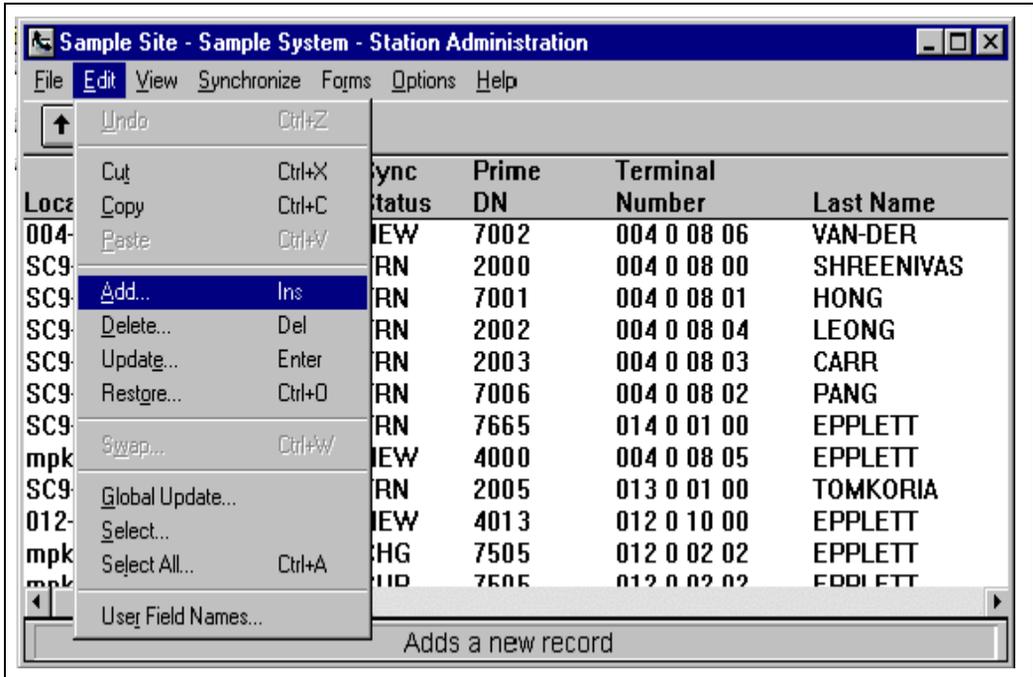
Table 31 Access Add Station dialog

Step	Action
1	Access Add Station dialog.
	From the **Edit** pull-down menu, click on **Add**.
	END

Select Digital Cordless Set

Figure 31:
Add Station dialog
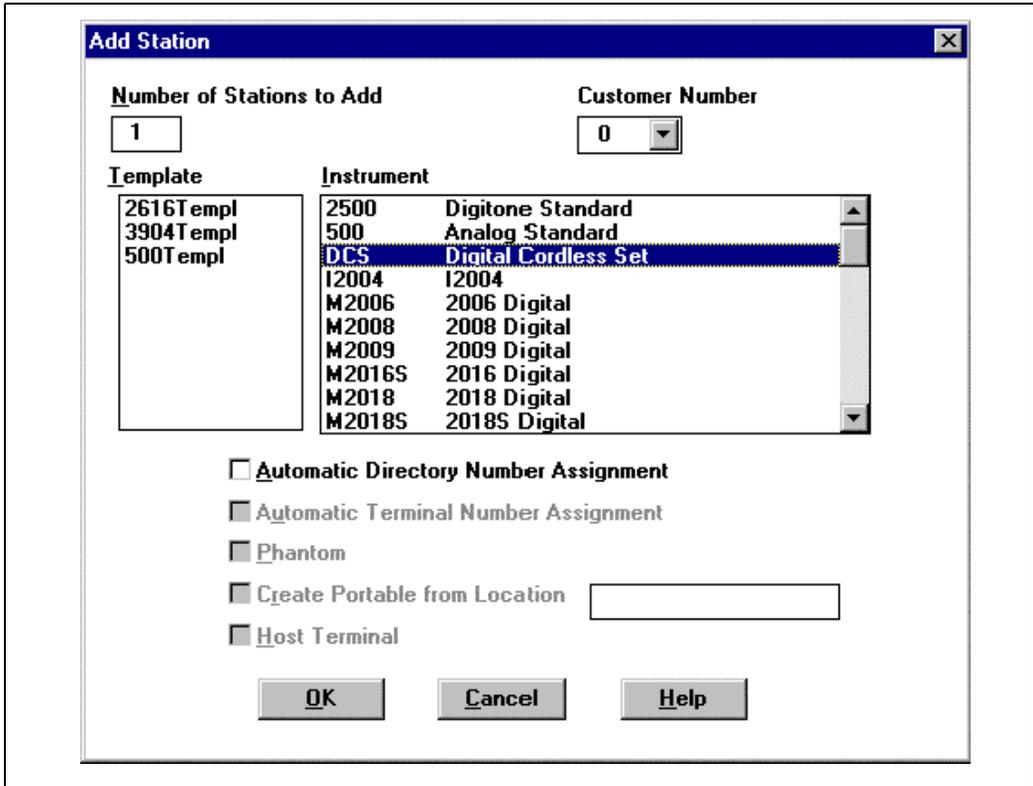
Table 32 Select Digital Cordless Set

Step	Action
1	Select Digital Cordless Set.
	Highlight **DCS**, and click on the **OK** button.
	END

Select Features

Figure 32:
DCS dialog
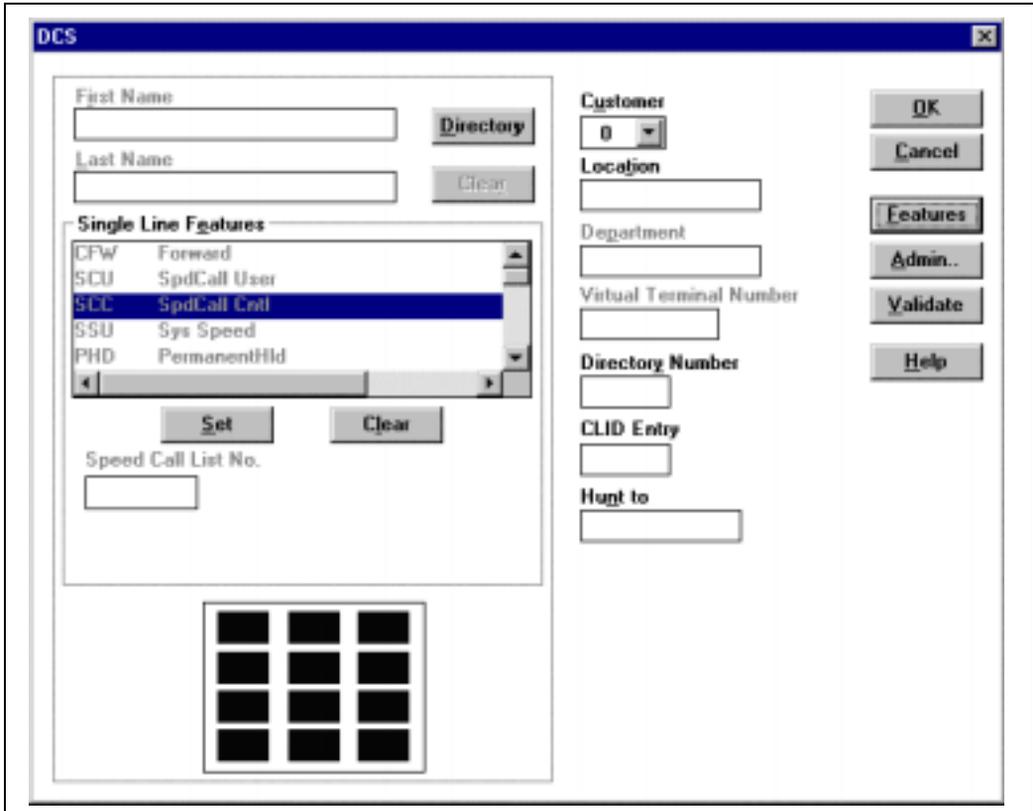
Table 33 Select Features

Step	Action
1	Select features.
	Click on the **Features** button.
	END

Select wireless type

Figure 33:
Features dialog
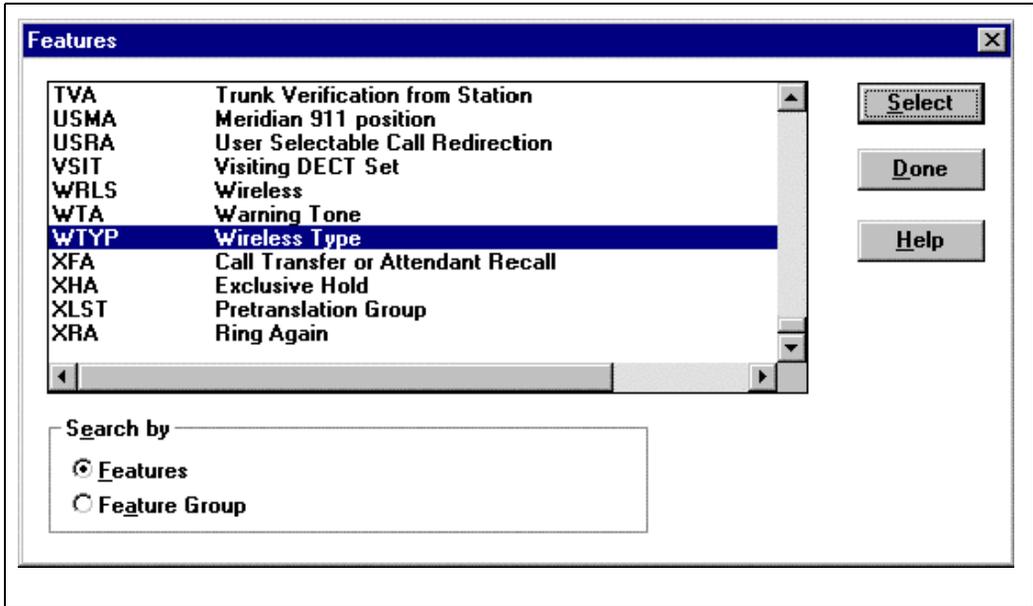
Table 34 Select wireless type

Step	Action
1	Select wireless type.
	Highlight **WTYP**, and click on the **Select** button.

Select Visit or local

Figure 34:
Wireless dialog

Table 35 Select Visit or local

Step	Action
1	Select Visit if this handset is to visit this Meridian 1 PBX or select local if this handset is configured on this Meridian 1 PBX.
	If Visit, go to step 2. If local, go to step 4.
2	Select visit.
	From the **Visiting DECT Set (VSIT)** list, select **Yes**.
3	Select a Home DN.
	Enter a DN in the **Home Directory Number (HMDN)** box.
4	Select local.
	From the **Visiting DECT Set (VSIT)** list, select **No**.
5	Accept changes.
	Click on the **OK** button.
	END

Select an index

Figure 35:
Features dialog
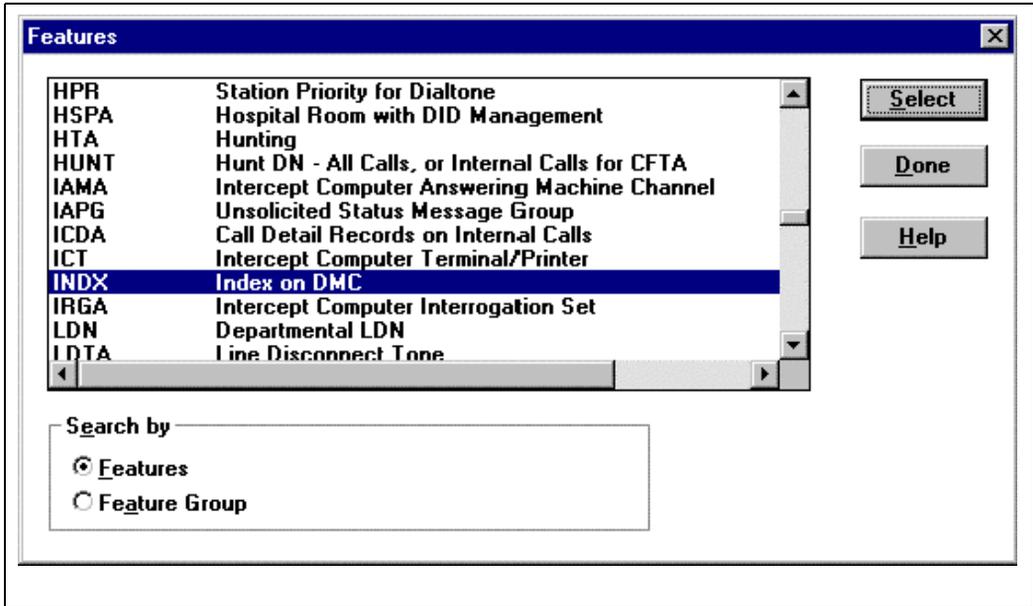
Table 36 Select an index

Step	Action
1	Select an index.
	Highlight **INDX**, and click on the **Select** button.

Provision hardware

Figure 36:
Hardware Provisioning dialog

Table 37 Provision hardware

Step	Action
1	Select a DMC TN.
	Enter a TN in the **DECT Mobility Controller (DMC)** box.
2	Select an index.
	Enter an index in the **Index on DMC (INDX)** box. (Index range is 0 to 509.) **Note:** The Terminal Number (TN) is a virtual TN and is selected by the Meridian 1 PBX system.
3	Accept changes.
	Click on the **OK** button.
	END

Accept changes

Figure 37:
Features dialog
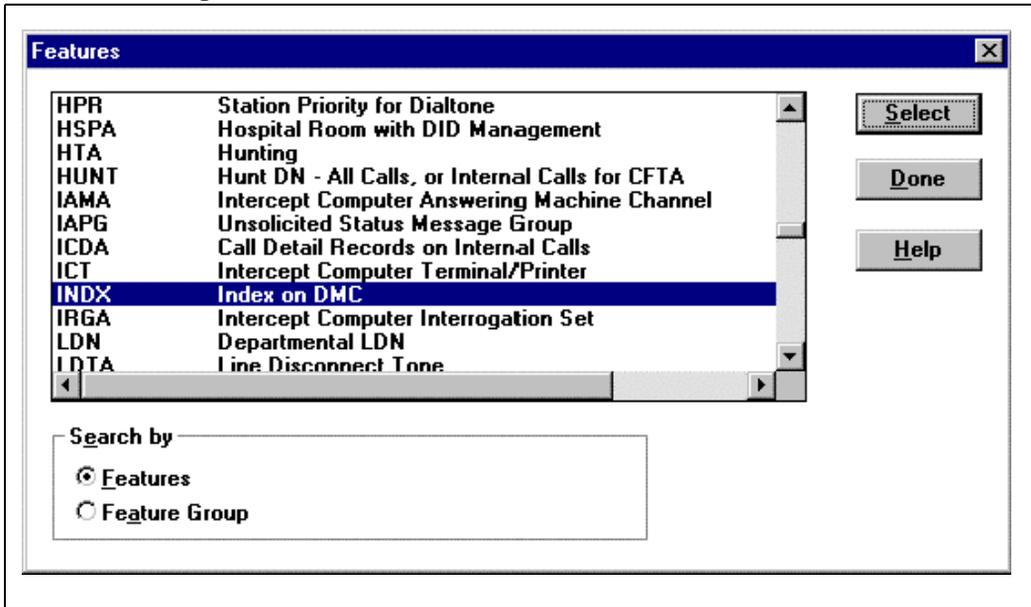
Table 38 Accept changes

Step	Action
1	Accept changes.
	Click on the **Done** button.
	END

Single line features

Figure 38:
500 dialog

Table 39 Single line features

Step	Action
1	For other single line features.
	Refer to the OTM Station Administration in *Using Optivity Telephony Manager for Meridian 1* (553-3001-330).
	END

Retrieve subscription data for handsets

Figure 39:
DECT Subscriptions window, Synchronize DECT and Administration Config

Complete the following steps:

Table 40 Retrieve subscription data for handsets

Step	Action
1	Using Windows, Login to OTM, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
2	Using a Web based navigator, open the Administrator login screen, login, select the System Navigator, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
3	Open the Subscriptions window.
4	Retrieve the subscription configuration data from the OTM Station Administration database.
	In the Subscriptions window, click on the **Operations** pull-down menu, click on **Retrieve OTM Configuration**.
5	**Note:** At this point, all handsets configured on OTM Station Administration are shown in the Subscriptions window Open the Configure DECT Subscription dialog.
	Click on the **File** pull-down menu, click on **Add** or click on .
	END

Enable subscription

Figure 40:
Subscriptions window
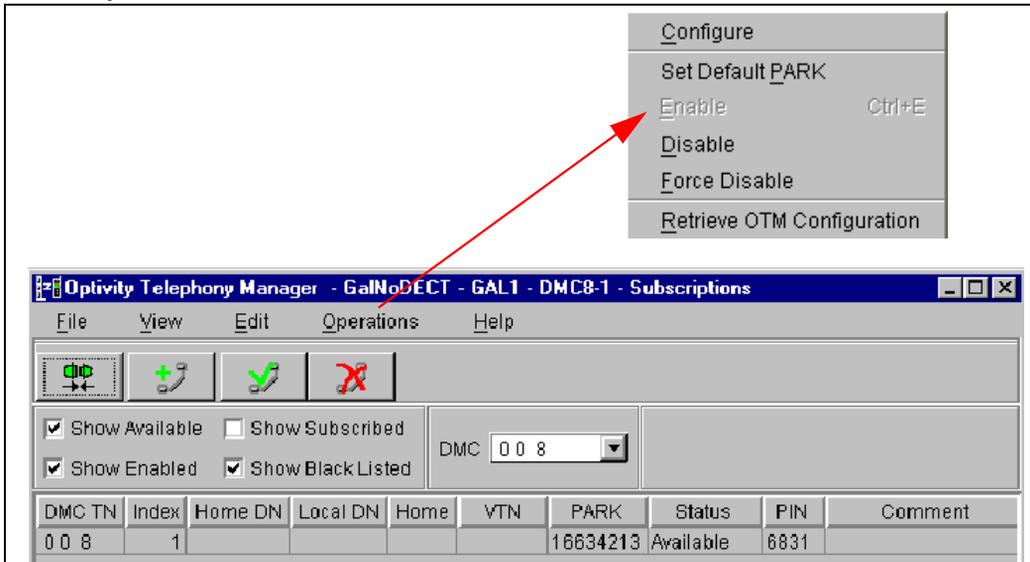
Complete the following steps for each handset:

Table 41 Enable handsets

Step	Action
1	**Note:** At this point, there are no PINs shown in the Subscriptions window.
	Select a handset from the list.
	Click on one handset in the list to highlight a row.
2	Enable handsets.
	Click on the **Operations** pull-down menu, click on **Enable** or click on ![checkmark] .
	END

Activate the PIN on the handsets

Figure 41:
Subscriptions window
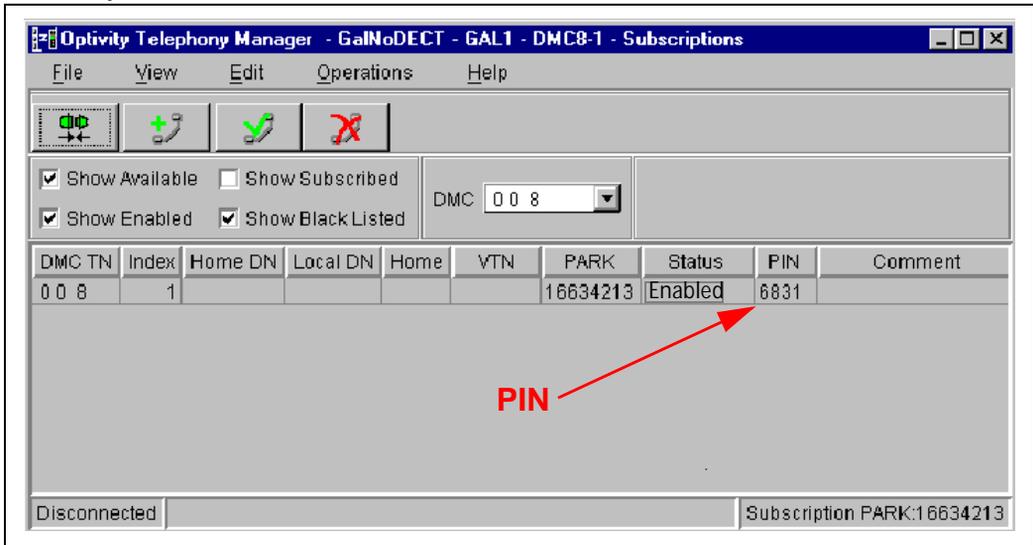
Complete the following steps:

Table 42 Obtain the PIN

Step	Action
3	**Note:** At this point, in the Subscriptions window, the PINs are shown and the Status is Enabled. Subscribe the C4010, C4010Ex, C4040, and C4050 handsets.
	See "C4010, C4010 Ex, C4020 handset subscription" on page 75, and "C4050 handset subscription" on page 82.
	END

> **NOTE**
> When a handset is subscribed, the Subscription window shows the Status column as Subscribed and does not show a PIN.

C4010, C4010 Ex, C4020 handset subscription

Figure 42: C4010 handset and C4010 Ex handset

Distribute C4010, C4010 Ex, C4020 handsets and install battery chargers

Consult your work order for a list of handset users and their locations.

⚠️ **DANGER: Serious injury**
Never charge a C4010Ex battery in an explosive atmosphere.

Figure 43: Battery details, charger details, and connections
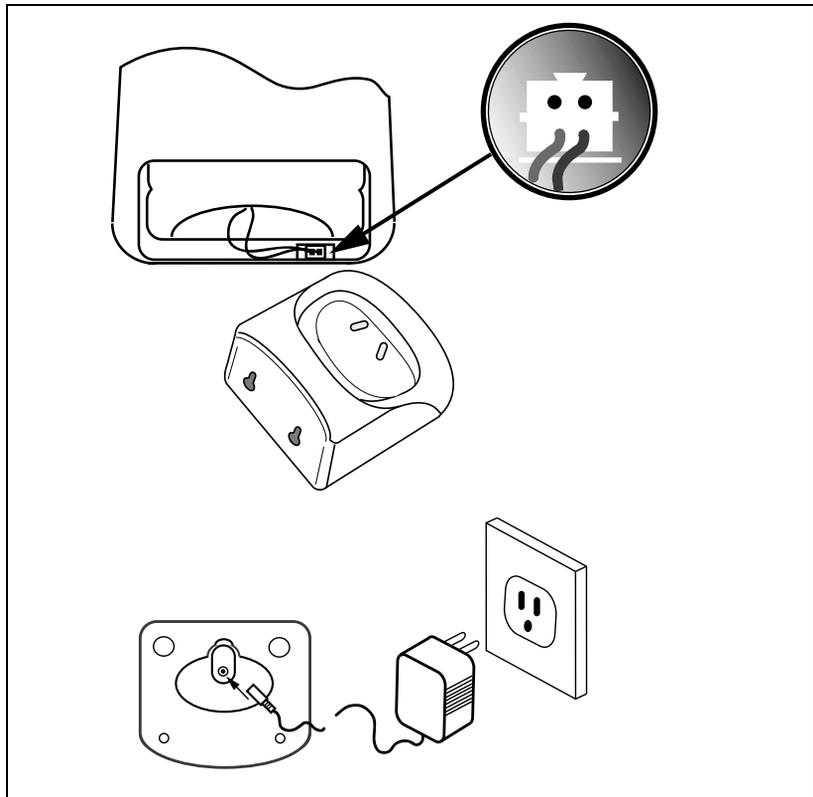
Table 43 Install battery charger and charge batteries

Step	Action
1	Take the handset package to the user location.
2	Unpack the handset and its accessories, as applicable.

Table 43 Install battery charger and charge batteries

Step	Action
3	Insert the handset battery pack, as applicable. **Note:** Use only the approved battery for the C4010 Ex handset.
4	Unpack the handset battery charger and its accessories.
5	Mount the battery charger.
	Place the charger on the desk, or mount the charger on the wall, as applicable. **Note:** Never mount a battery charger in an explosive atmosphere.
6	Install the mounting screws. Use screws with a maximum diameter of 4 mm.
	Turn the two screws into the wall at a distance of 45 mm from each other. Make sure that the screw heads protrude by 2.5 to 3 mm.
7	Hang the charger on the screws.
8	Install the power supply.
	Plug the power supply cable into the connector located on the side of the charger, then plug the ac adapter into the 230 V ac mains socket.
9	Place the handset into the charger.
	Note: The battery icon appears on the display indicating the battery is charging, if the battery is installed or not.

END

> ⚠ **CAUTION: Service interruption**
>
> Charge the C4010, C4010 Ex, C4020 battery at least 12 hours before using the handset for the first time. This will lengthen the service life of the battery.

Subscribe the C4010, C4010 Ex, C4020 handset

Consult the work order for a list of subscription names.

Table 44 C4010, C4010 Ex, C4020 handset subscription

Step	Action
1	Select Language.
2	Select **Declare base**.
	Press the **Declare base** key.
3	**Declare base number? 12345678**.
	Press the **Ok** key.
4	**Enter code** refers to the PIN code. **Note:** The Subscriptions screen displays the PIN. The PIN is only valid for 16 minutes.
	Enter the PIN. To delete the last digit you entered, press **Erase** or select the digit and enter a new digit. Press the **Ok** key.

Table 45 Handset name and DN identity

Step	Action
5	Select **Menu**.
	Press the **Menu** key.
6	Select **Handset** *name*.
	Dial 86.
7	Enter the **Handset name** and/or the handset DN to identify the handset.
	To enter a character, press keys 0 to 9 as shown in Table 46. For example to enter E press key 3 twice. To move to the next character, pause three seconds. To delete a character, press **Erase** or select the digit and enter a new digit. **Note**: Handset DNs are programed in LD 10, not in the DECT database.
8	Confirm the name and DN.
	Press the **Ok** key.
	END

Table 46 Southern handset key pad alphabet equivalent

- English
- French
- German
- Dutch
- Spanish
- Italian

Key	1	2	3	4	5	6	7	8	9
0	0								
1	–	/	space	1	,	.	:	,	●
2	A	B	C	2	Á	À	Ä	ß	
3	D	E	F	3	É	È			
4	G	H	I	4	í	ì			
5	J	K	L	5					
6	M	N	O	6	Ñ	Ö	Ó	Ô	
7	P	Q	R	S	7				
8	T	U	V	8	Ü	Ú			
9	W	X	Y	Z	9				

Table 47 Northern handset key pad alphabet equivalent

- English
- Portuguese
- Swedish
- Norwegian
- Finnish
- Danish

Key	1	2	3	4	5	6	7	8	9
0	0								
1	–	/	space	1	,	.	:	,	●
2	A	B	C	2	Å	Ä	Ã	Á	Æ
3	D	E	F	3	Ê				
4	G	H	I	4					
5	J	K	L	5					
6	M	N	O	6	Ö	Ó	Ô		
7	P	Q	R	S	7				
8	T	U	V	8	Ú				
9	W	X	Y	Z	9				

C4050 handset subscription

Figure 44: C4050 handset

553-A0079

Distribute C4050 handsets and install battery chargers

Consult your work order for a list of handset users and their
locations.

Figure 45: Battery details, charger details, and connections
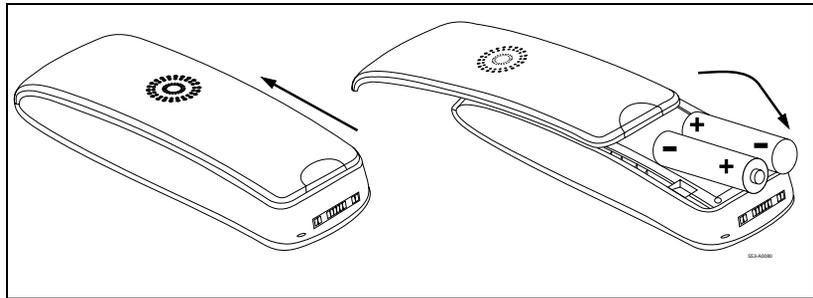
Table 48 Install battery charger and charge batteries

Step	Action
1	Take the handset package to the user location.
2	Unpack the handset and its accessories, as applicable.
3	Insert the handset battery pack, as applicable.
	Note: Use only the approved battery for the C4050 handset.
4	Unpack the handset battery charger and its accessories.
5	Mount the battery charger.
	Place the charger on the desk.

Table 48 Install battery charger and charge batteries

Step	Action
6	Install the power supply.
	Plug the power supply cable into the connector located on the side of the charger, then plug the ac adapter into the 230 V ac mains socket.
7	Place the handset into the charger.
	Note: The LED ring on the handset shows green when the batteries are charging.

END

CAUTION: Service interruption

Charge the C4050 battery at least eight hours before using the handset for the first time. This will lengthen the service life of the battery.

Subscribe the C4050 handset

Consult the work order for a list of subscription names.

Table 49 C4050 handset subscription

Step	Action
1	Select Menu.
	Press **Menu**.
2	Select System.
	Scroll to **System**. Press **OK**.

Table 49 C4050 handset subscription

Step	Action
3	Select Subscription.
	Press **OK**.
4	Select Options.
	Scroll to **New**. Press **OK**.
5	Enter PARK if two DECT systems overlap.
	Press **OK**.
6	Enter the PIN code. **Note:** The Subscriptions window displays the PIN. The PIN is only valid for 15 minutes.
	Enter the PIN code.
7	Enter the system name.
8	Enter the handset DN.
9	Enter the handset users name.

Table 50 Handset key pad alphabet equivalent

Key	1	2	3	4	5	6	7	8	9	10	11
0	0	space	@	$	&						
1	1	?	!	,	.	:	;	"	'		
2	A	B	C	2	Ä	Å	À	Á	Ã	Æ	ç
3	D	E	F	3	È	É	Ê	Ë			
4	G	H	I	4	ì	í	Î	Ï			
5	J	K	L	5							
6	M	N	O	6	Ñ	Ö	Ò	Ó	Ô	Õ	Ø
7	P	Q	R	S	7	ß					
8	T	U	V	8	Ü	Ù	Ú	Û			
9	W	X	Y	Z	9						
*	*	-	+	=	~	<	>	^	%		
#	#	(	)	{	}	[	]	/	\	_	

NOTE

Complete the *Meridian 1 COMPANION Programming Records* (553-3601-250).

Disable a handset subscription

Figure 46:
DECT Subscriptions window and Disable DECT Subscription dialog
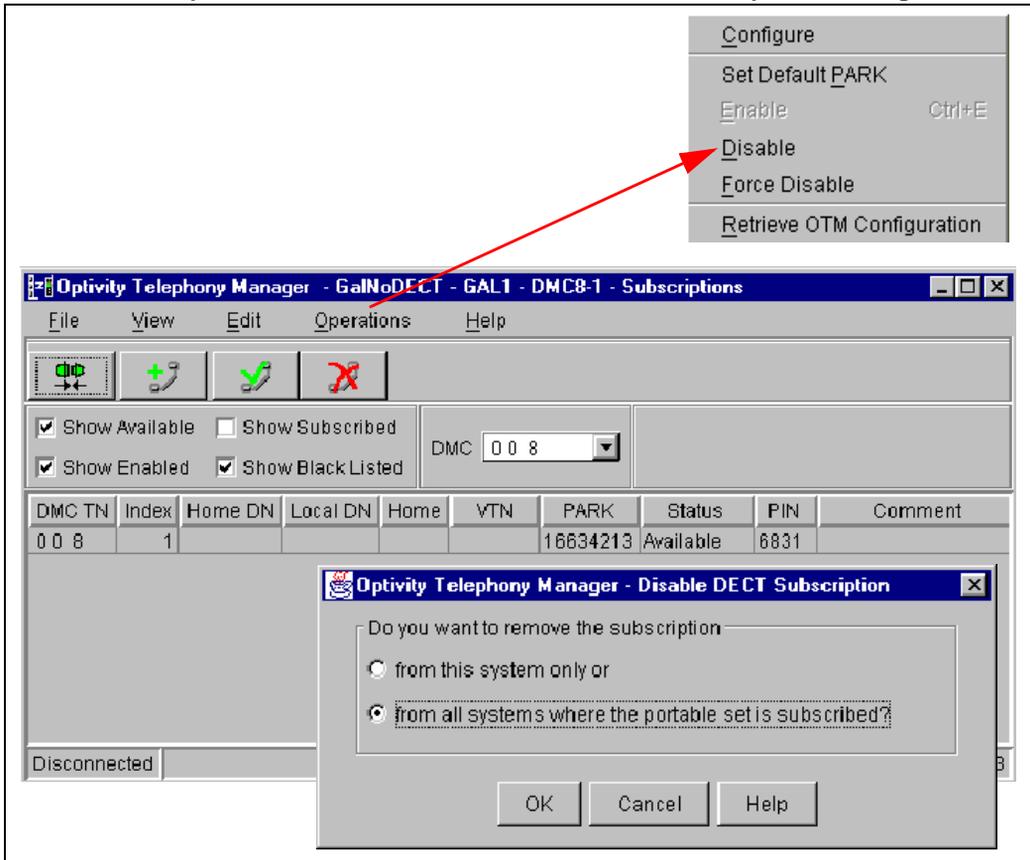
> **NOTE**
>
> See the following for explanations, "Disable subscriptions" on page 103 in *Meridian/Succession Companion Overview* (553-3601-103).
> "Multi Site Mobility Networking subscriptions" on page 111 in *Meridian/Succession Companion Overview* (553-3601-103).

Table 51 Disable handset subscription

Step	Action
1	Using Windows, Login to OTM, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
	Follow the instructions on, page 19 to page 21.
2	Using a Web based navigator, open the Administrator login screen, login, select the System Navigator, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
	Follow the instructions on, page 22 to page 25.
3	Open the Subscriptions window.
	Follow the instructions on, page 27.
4	Select a handset subscription(s) for disabling. **Note:** You can select a single handset, a list of handsets, or all handsets on a DMC.
	Highlight a **DMC TN** and an **Index**, or several **index**s in the list.
5	Disable the handset subscription(s).
	From the **Operations** pull-down menu, click on **Disable**.

Table 51 Disable handset subscription

Step	Action
6	Disable from this system only.
	Click on **OK** button.
7	Disable from all systems where the portable set is subscribed.
	Click on **OK** button.
	END

Copy a handset subscription

Figure 47:
DECT Subscriptions window and DECT Copy Subscription dialog
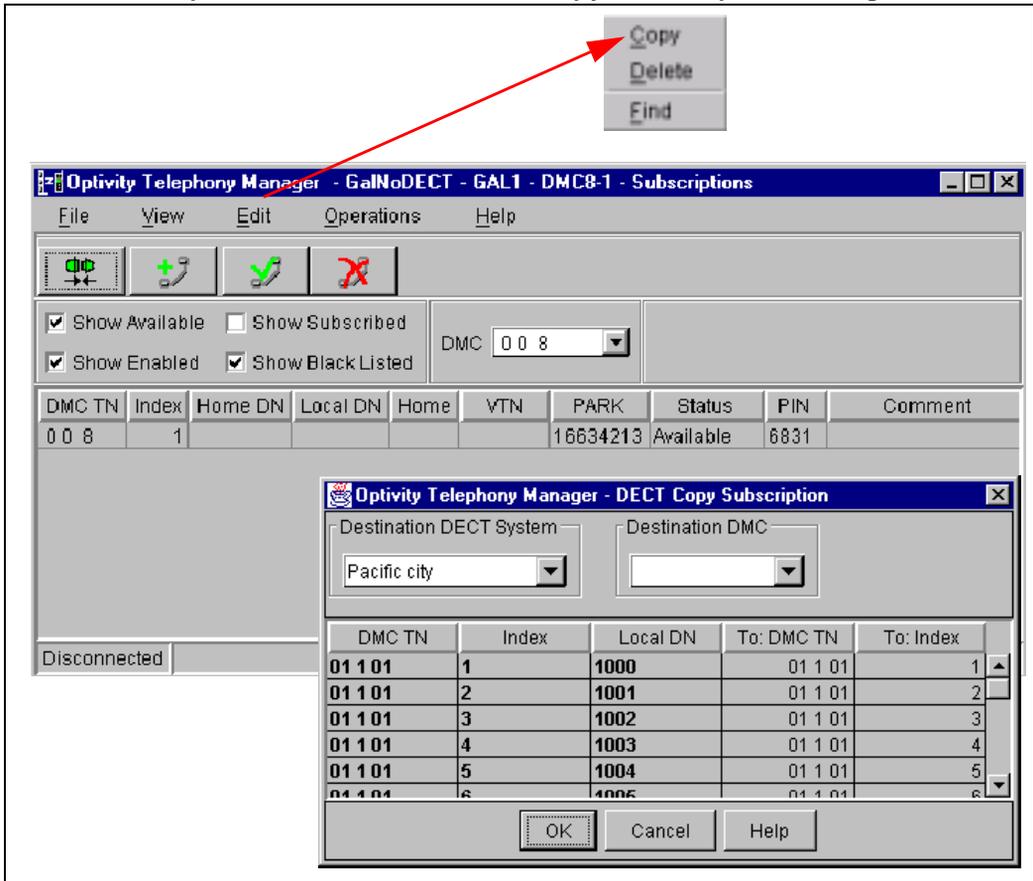
NOTE

See the following for explanations, "Copy subscriptions" on page 105 in *Meridian/Succession Companion Overview* (553-3601-103).

Table 52 Copy handset subscription

Step	Action
1	Using Windows, Login to OTM, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
	Follow the instructions on, page 19 to page 21.
2	Using a Web based navigator, open the Administrator login screen, login, select the System Navigator, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
	Follow the instructions on, page 22 to page 25.
3	Select the source MDECT system to copy the subscription.
	Highlight the MDECT system in the DECT Systems window.
4	Open the Subscriptions window.
	Follow the instructions on, page 27.
5	Open the DECT Copy Subscription dialog.
	From the **Edit** pull-down menu, click on **Copy**.
6	Select an MDECT system where you want the subscription you are copying.
	Pull-down the **Destination DECT System** list and highlight a system name.
7	Select DMC on the MDECT system where you want the subscription you are copying.
	Pull-down the **Destination DMC** list and highlight a DMC.
8	Select a handset subscription(s) to copy. **Note:** You can select a single handset, a list of handsets, or all handsets on a DMC.
	Highlight a **DMC TN** and an **Index**, or several **index**s in the list.

Table 52 Copy handset subscription

Step	Action
9	Select a DMC or Index for the subscription(s).
	Highlight a **To: DMC TN** or a **To: Index**, or several **To: index**s in the list.
10	Accept the changes.
	Click on the **OK** button.
	END

Move a handset subscription

Figure 48:
DECT Subscriptions window and DECT Move Subscription dialog

Table 53 Move handset subscription

Step	Action
1	Using Windows, Login to OTM, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
	Follow the instructions on, page 19 to page 21.
2	Using a Web based navigator, open the Administrator login screen, login, select the System Navigator, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
	Follow the instructions on, page 22 to page 25.
3	Open the Subscriptions window.
	Follow the instructions on, page 27.
4	Open the DECT Move Subscription dialog.
	From the **Edit** pull-down menu, click on **Move**.
5	Select an MDECT system where you want the subscription you are Moving.
	Pull-down the **Destination DECT System** list and highlight a system name.
6	Select DMC on the MDECT system where you want the subscription you are moving.
	Pull-down the **Destination DMC** list and highlight a DMC.
7	Select DMC on the MDECT system where you want the subscription you are moving.
	Pull-down the **Destination DMC** list and highlight a DMC.
8	Select a handset subscription(s) to move. **Note:** You can select a single handset, a list of handsets, or all handsets on a DMC.
	Highlight a **DMC TN** and an **Index**, or several **index**s in the list.

Table 53 Move handset subscription

Step	Action
9	Select a DMC or Index for the subscription(s).
	Highlight a **To: DMC TN** or a **To: Index**, or several **To: index**s in the list.
10	Accept the changes.
	Click on the **OK** button.

Find a handset subscription

Figure 49:
DECT Subscriptions window and Find DECT Subscription dialogs

> **NOTE**
>
> See the following for explanations, "Find subscriptions" on page 109 in *Meridian/Succession Companion Overview* (553-3601-103).

Table 54 Find handset subscription

Step	Action
1	Using Windows, Login to OTM, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
	Follow the instructions on, page 19 to page 21.
2	Using a Web based navigator, open the Administrator login screen, login, select the System Navigator, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
	Follow the instructions on, page 22 to page 25.
3	Open the Subscriptions window.
	Follow the instructions on, page 27.
4	Open the Find DECT Subscription dialog.
	From the **Edit** pull-down menu, click on **Find**.
5	Select find criteria.
	Click on **Find IPUI** or **Find Home DN**, enter the value, and click on the **Find** button.
6	View the results.
	END

Import a handset subscription

Figure 50:
DECT Subscriptions window and DECT Import Subscription dialog

> **NOTE**
>
> See the following for explanations, "Import Subscriptions" on page 107 in *Meridian/Succession Companion Overview* (553-3601-103).

Table 55 Import handset subscription

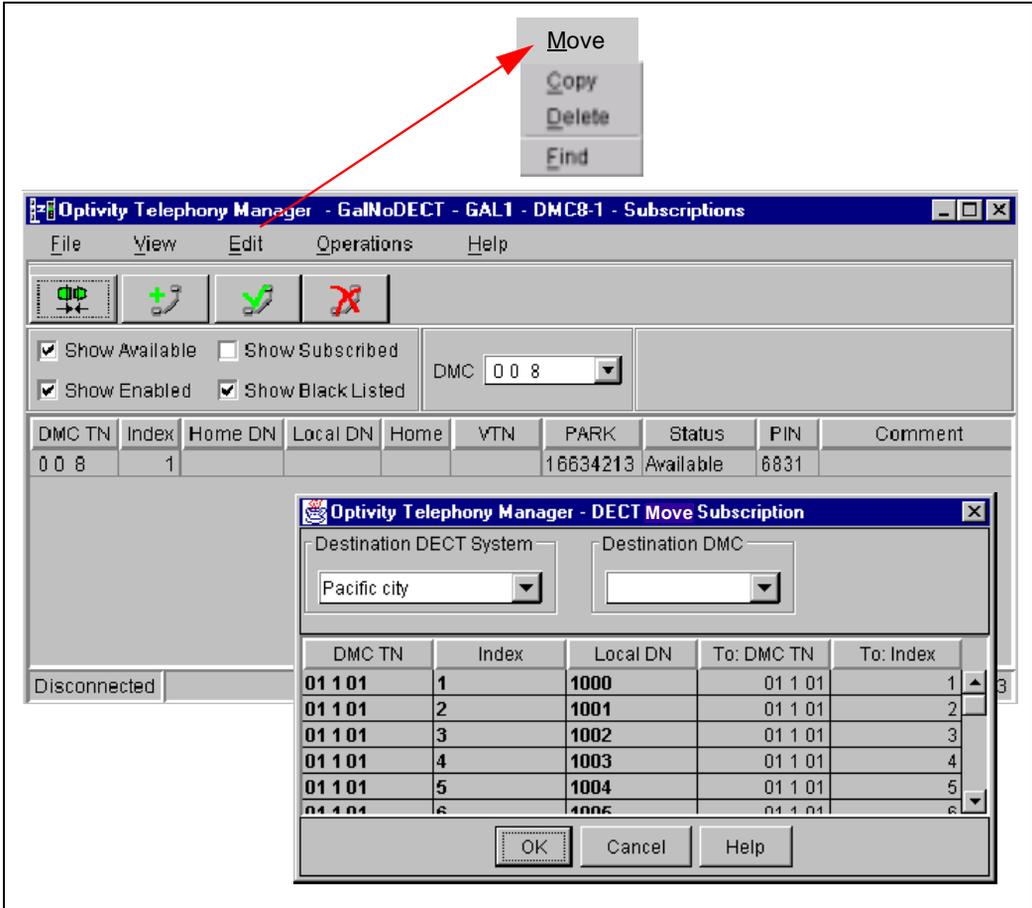| Step	Action
1	Using Windows, Login to OTM, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
	Follow the instructions on, page 19 to page 21.
2	Using a Web based navigator, open the Administrator login screen, login, select the System Navigator, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
	Follow the instructions on, page 22 to page 25.
3	Open the Subscriptions window.
	Follow the instructions on, page 27.
4	Open the DECT Import Subscription dialog.
	From the **File** pull-down menu, click on **Import**.
5	Select an MDECT system where you want the subscription you are Importing.
	Pull-down the **Destination DMC** list and highlight a DMC.
6	Select DMC you want to import.
	Pull-down the **Destination DMC** list and highlight a DMC.
7	Select a handset subscription(s) to import. **Note:** You can select a single handset, a list of handsets, or all handsets on a DMC.
	Highlight a **DMC TN** and an **Index**, or several **index**s in the list.

Table 55 Import handset subscription

Step	Action
8	Select a DMC or Index for the subscription(s).
	Highlight a **To: DMC TN** or a **To: Index**, or several **To: index**s in the list.
9	Accept the changes.
	Click on the **OK** button.

Export a handset subscription

Figure 51:
DECT Subscriptions window and Export Subscription dialog
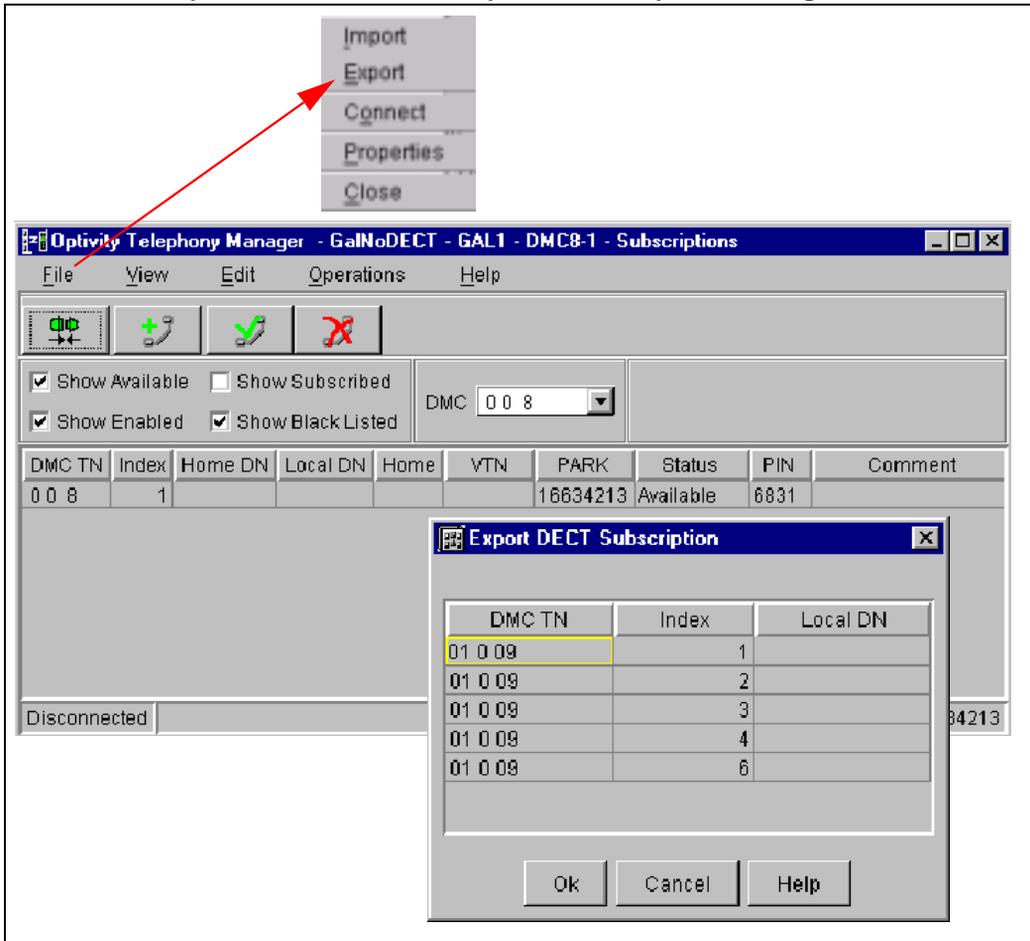
> **NOTE**
>
> See the following for explanations, "Export Subscriptions" on page 108 in *Meridian/Succession Companion Overview* (553-3601-103).

Table 56 Export handset subscription

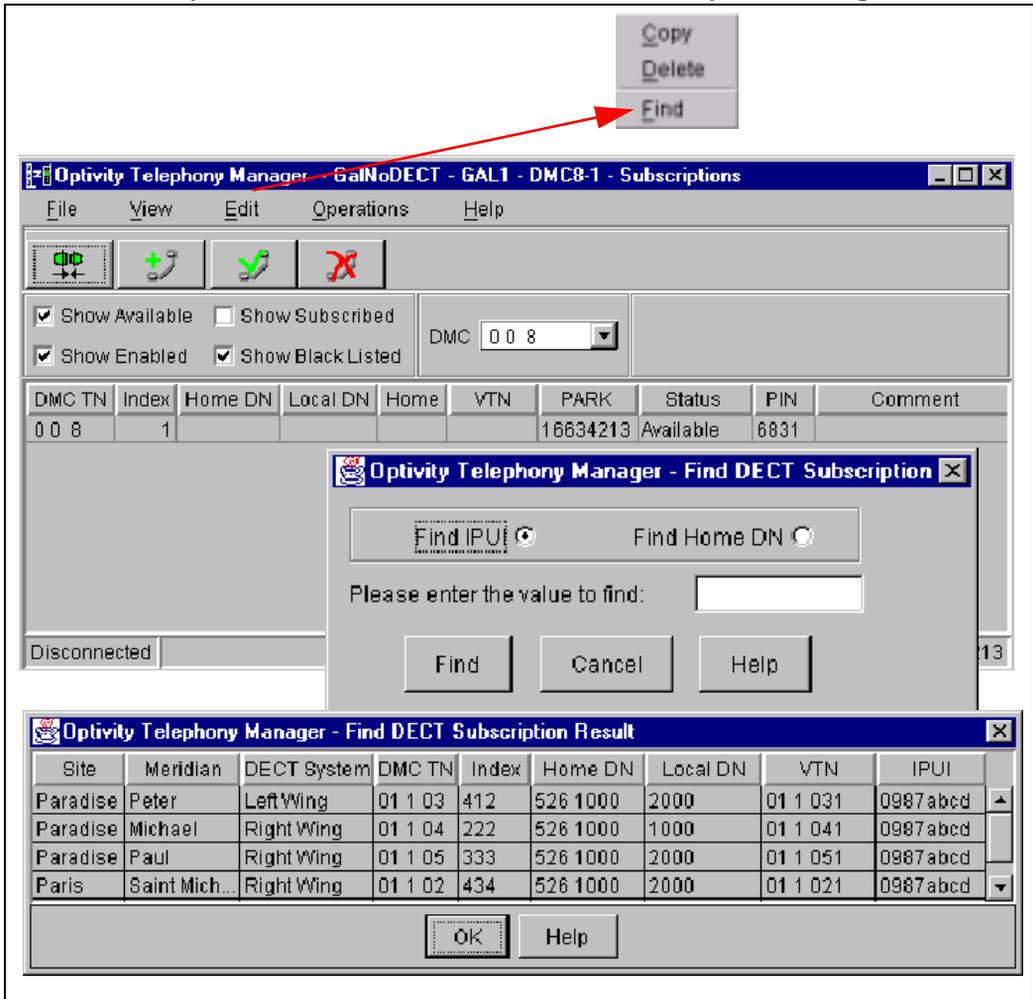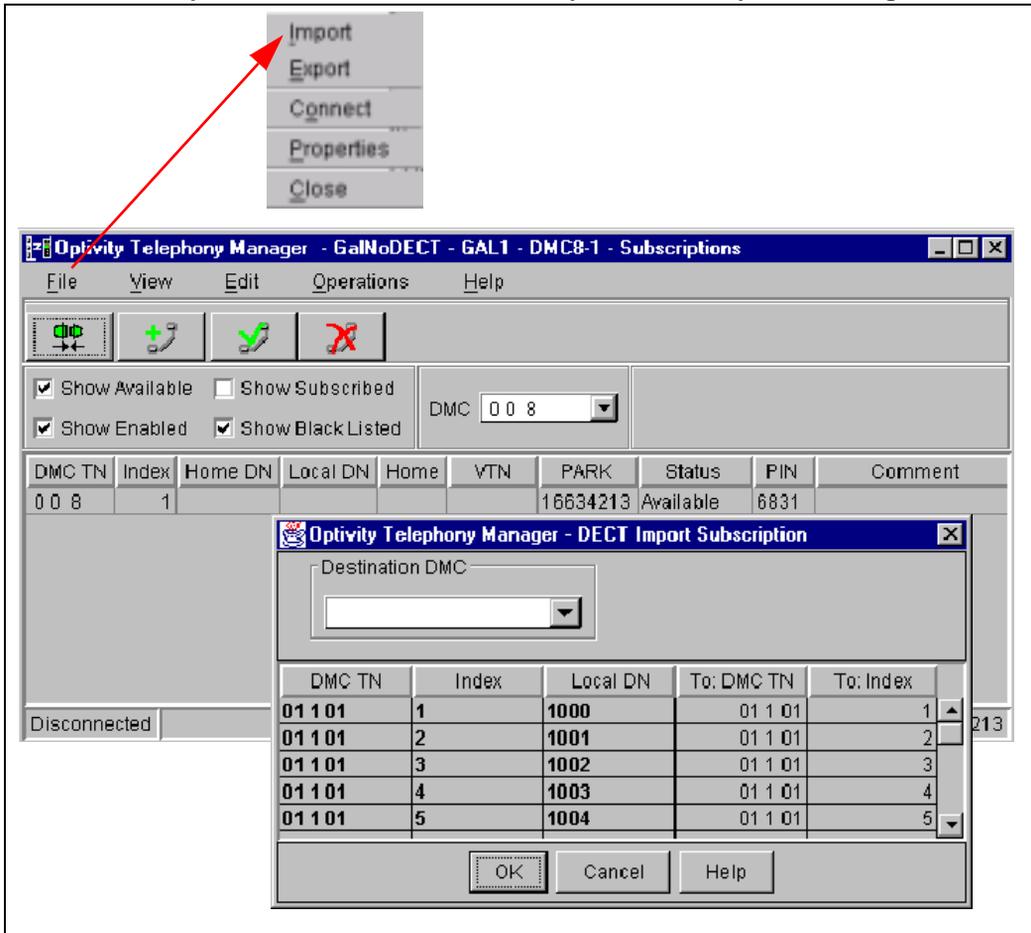| Step	Action
1	Using Windows, Login to OTM, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
	Follow the instructions on, page 19 to page 21.
2	Using a Web based navigator, open the Administrator login screen, login, select the System Navigator, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
	Follow the instructions on, page 22 to page 25.
3	Open the Subscriptions window.
	Follow the instructions on, page 27.
4	Open the Export DECT Subscription dialog.
	From the **Find** pull-down menu, click on **Export**.
5	Select a handset subscription(s) to export. **Note:** You can select a single handset, a list of handsets, or all handsets on a DMC.
	Highlight a **DMC TN** and an **Index**, or several **index**s in the list.
6	Select a DMC or Index for the subscription(s).
	Highlight a **To: DMC TN** or a **To: Index**, or several **To: index**s in the list.
7	Accept the changes.
	Click on the **OK** button.
8	Paste the subscriptions into a file.
	.

Force a disable handset subscription

Figure 52:
DECT Subscriptions window and Force disable DECT Subscription dialog
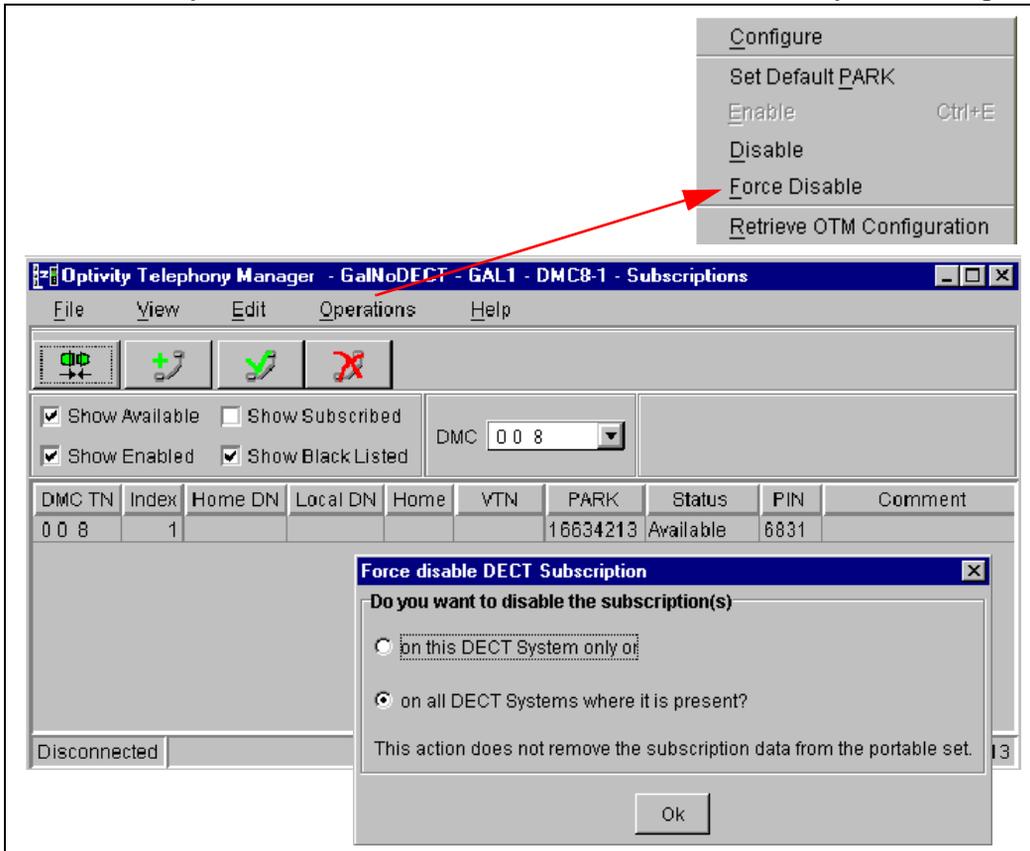
> **NOTE**
>
> See the following for explanations, "Force disable" on page 113 in *Meridian/Succession Companion Overview* (553-3601-103).

Table 57 Force disable handset subscription

Step	Action
1	Using Windows, Login to OTM, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
	Follow the instructions on, page 19 to page 21.
2	Using a Web based navigator, open the Administrator login screen, login, select the System Navigator, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
	Follow the instructions on, page 22 to page 25.
3	Open the Subscriptions window.
	Follow the instructions on, page 27.
4	Open the Force Disable DECT Subscription dialog.
	From the **Operations** pull-down menu, click on **Force Disable**.
5	Select a handset subscription(s) for Force Disabling. **Note:** You can select a single handset, a list of handsets, or all handsets on a DMC.
	Highlight a **DMC TN** and an **Index**, or several **index**s in the list.
6	Disable the handset subscription(s).
	From the **Operations** pull-down menu, click on **Force Disable**.
7	Disable from this system only.
	Click on **OK** button.
8	Disable from all systems where the portable set is subscribed.
	Click on **OK** button.

Update data on OTM or update data on an MDECT system

Figure 53:
Mismatch dialogs
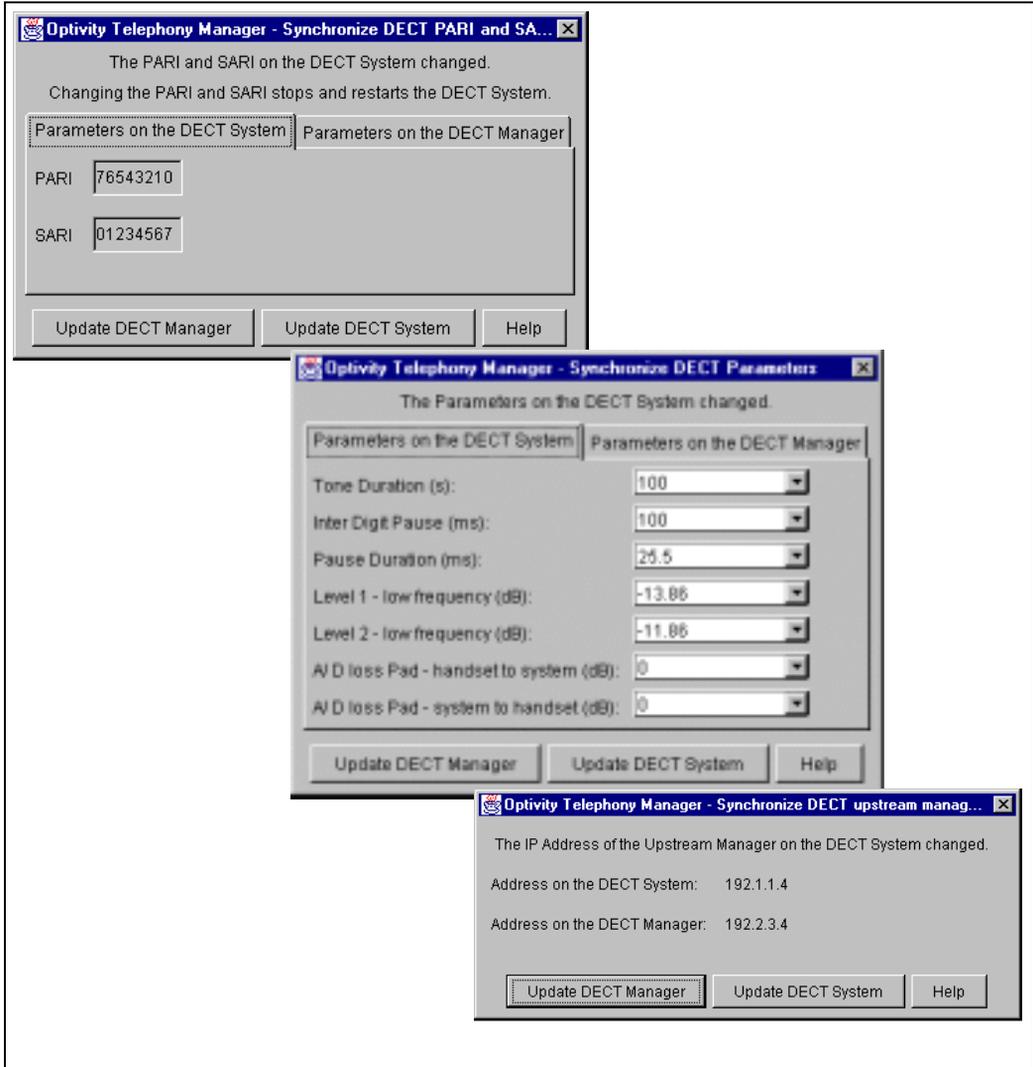
When the DECT manager connects to an MDECT system, synchronization flags differences between the DECT manager database and the MDECT system database with mismatch dialogs. These dialogs are useful when provisioning MDECT systems off-site. See "Provision an MDECT system remotely" on page 107, and "Subscribe an MDECT system remotely" on page 110.

**Table 58 Update data on OTM**

Step	Action
1	Using Windows, Login to OTM, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
	Follow the instructions on, page 19 to page 21.
2	Using a Web based navigator, open the Administrator login screen, login, select the System Navigator, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
	Follow the instructions on, page 22 to page 25.
3	Select an MDECT system.
	Highlight an MDECT system from the list.
4	Connect to an MDECT System.
	From the **Applications** pull-down menu, click on **Connect** or click on the ▮▮ (green) icon.
5	If any of the dialogs in Figure 54 appear, you must decide to update either the DECT manager or the DECT system.
	Click on either the **Update DECT Manager** button, or **Update DECT System** button.

Provision an MDECT system remotely

A distributor can use an MDECT System, on the distributors premises lab to configure a system and subscribe sets on it. If the DECT Access System and board configuration is the same on the distributor and the end-customer MDECT Systems, and if the handsets are properly programmed on the end-customer Meridian side, then the DMCs can be placed in the end-customer system and the handsets function properly.

Remote DMC8 provision where the customer site has a DECT manager

Figure 54:
Remote DMC8 provision where the customer site has a DECT manager
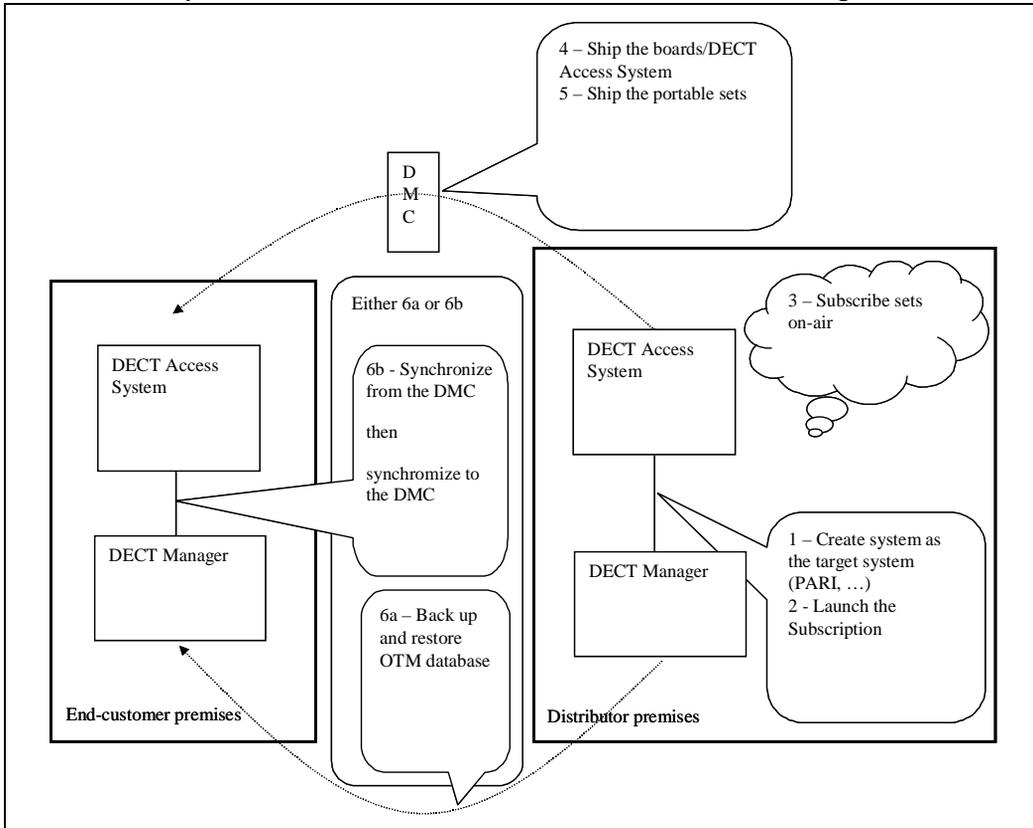
Table 59 Remote provision where the customer site has a DECT manager

Step	Action
1	Remotely provision DMC8s for a customer site.
	Follow the steps 1 to 6a/6b shown in, Figure 54.
	END

Remote DMC8 provision where the customer site does not have a DECT manager

Figure 55:
Remote DMC8 provision where customer site does not have a DECT manager
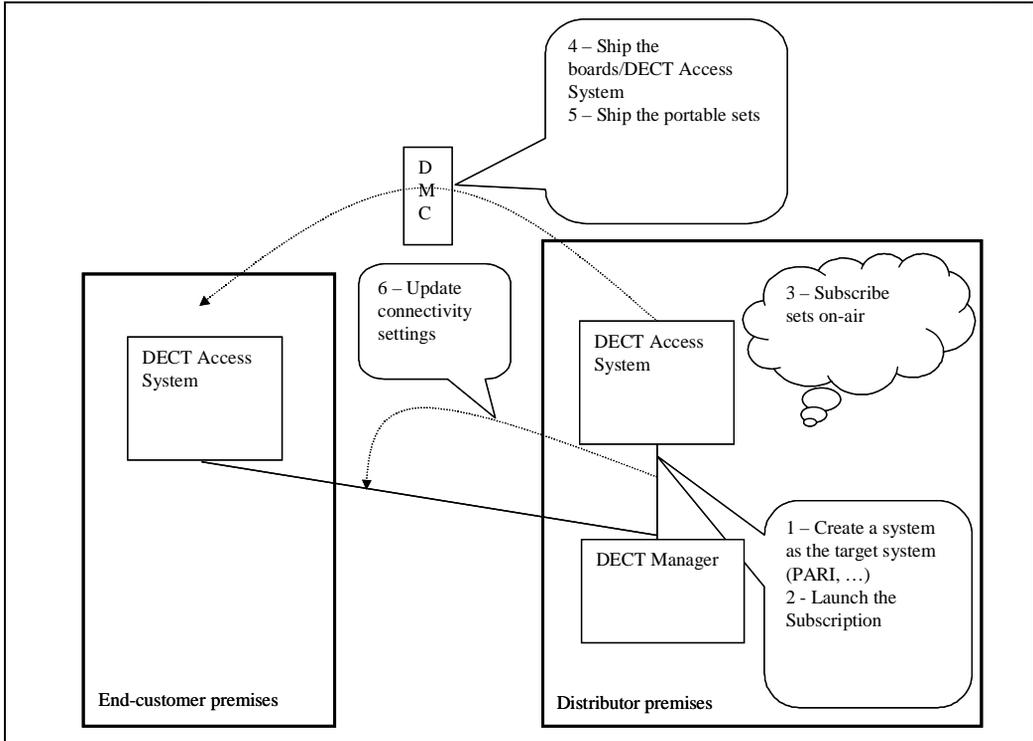
Table 60 Remote DMC8 provision where the customer site does not have a DECT manager

Step	Action
1	Remotely provision a customer site.
	Follow the steps 1 to 6 shown in, Figure 55.
	END

Subscribe an MDECT system remotely

A handset set can be subscribed on-air on any MDECT System, regardless of the MDECT System PARI and SARI. In other words, a handset can be subscribed on an MDECT System where the handset is not necessarily intended to be operational. The customer may or may not have a DECT manager on site.

Remote handset subscription where the customer site has a DECT manager

Figure 56:
Remote handset subscription where the customer site has a DECT manager
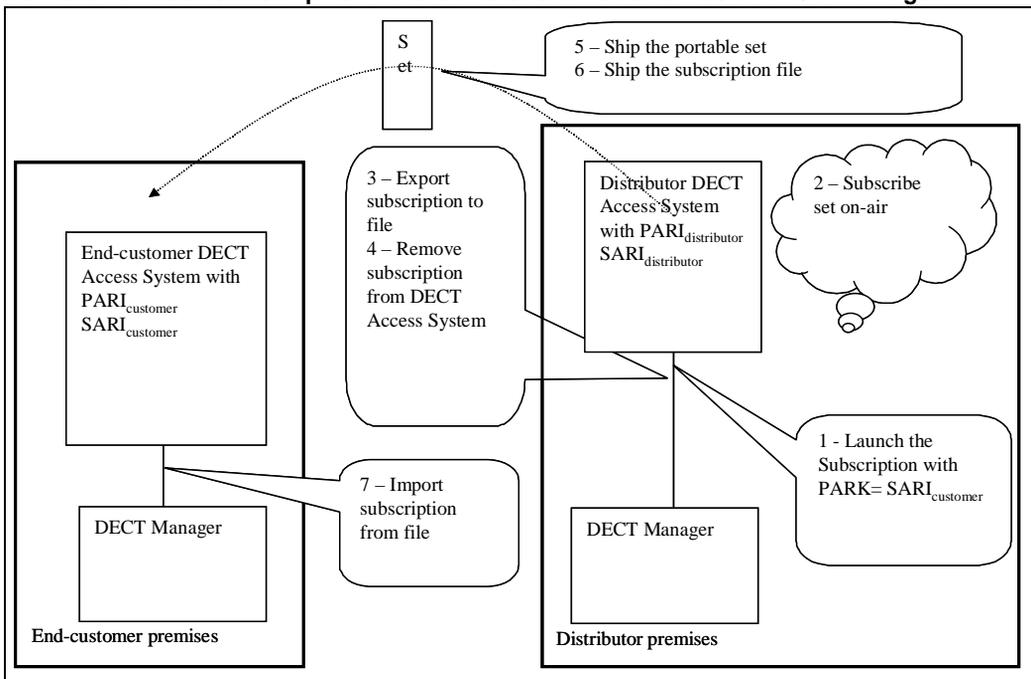
Table 61 Update IP address on OTM

Step	Action
1	Remotely provision a customer site.
	Follow the steps 1 to 7 shown in, Figure 56.

Remote handset subscription where the customer site does not have a DECT manager

Figure 57:

Remote handset subscription where customer site does not have a DECT manager
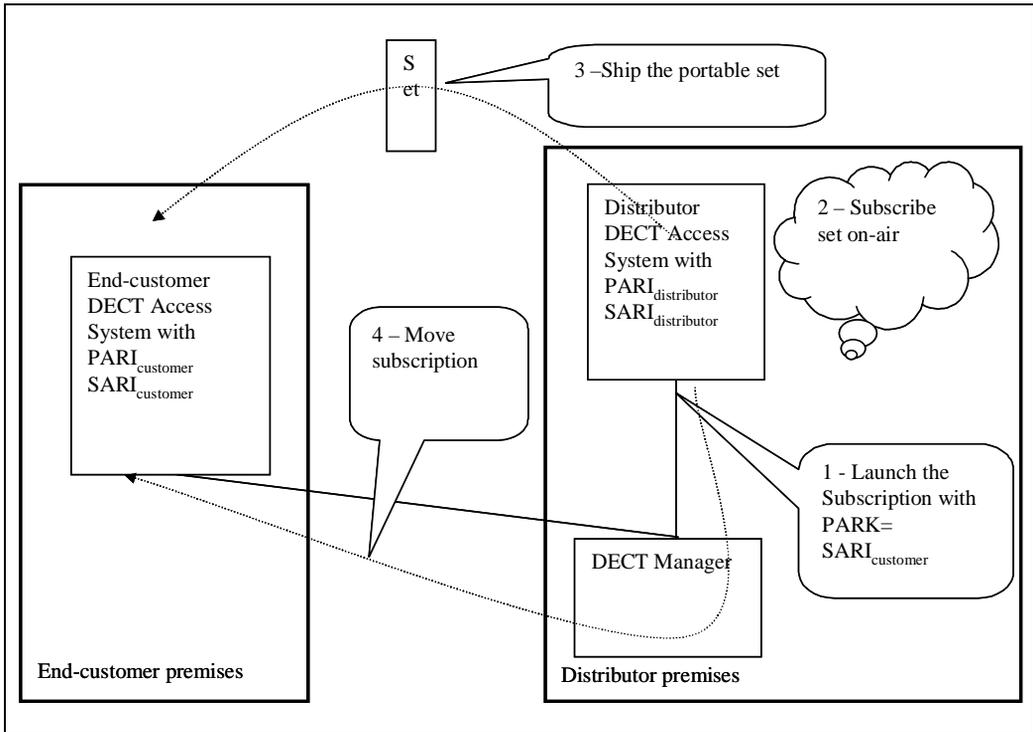
Table 62 Update IP address on OTM

Step	Action
1	Remotely provision a customer site.
	Follow the steps 1 to 4 shown in, Figure 57.
	END

Change passwords

Figure 58:
DECT Systems window and Change DECT Password
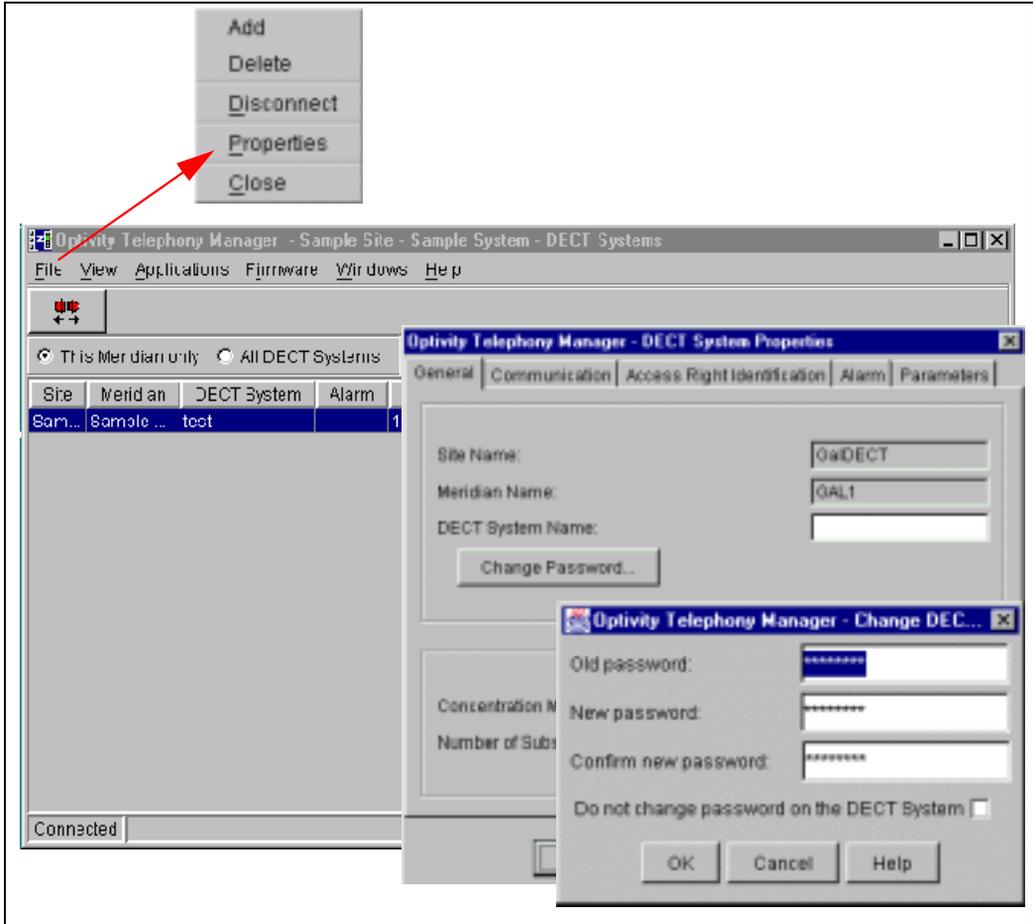
For lost passwords, see "Password recovery" on page 191.

Table 63 Change passwords

Step	Action
1	Using Windows, Login to OTM, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
	Follow the instructions on, page 19 to page 21.
2	Using a Web based navigator, open the Administrator login screen, login, select the System Navigator, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
	Follow the instructions on, page 22 to page 25.
3	Open the DECT Systems Properties dialog.
	From the **File** pull-down menu, click on **Properties,** and click on the **General** tab.
4	Select Change Password.
	Click on the **Change Password** button.
5	Change the password.
	Enter the **Old Password**, enter the **New Password,** confirm the **New Password,** and click on the **OK** button.

Change the MDECT system name

Figure 59:
DECT Systems window and DECT System Properties - General tab
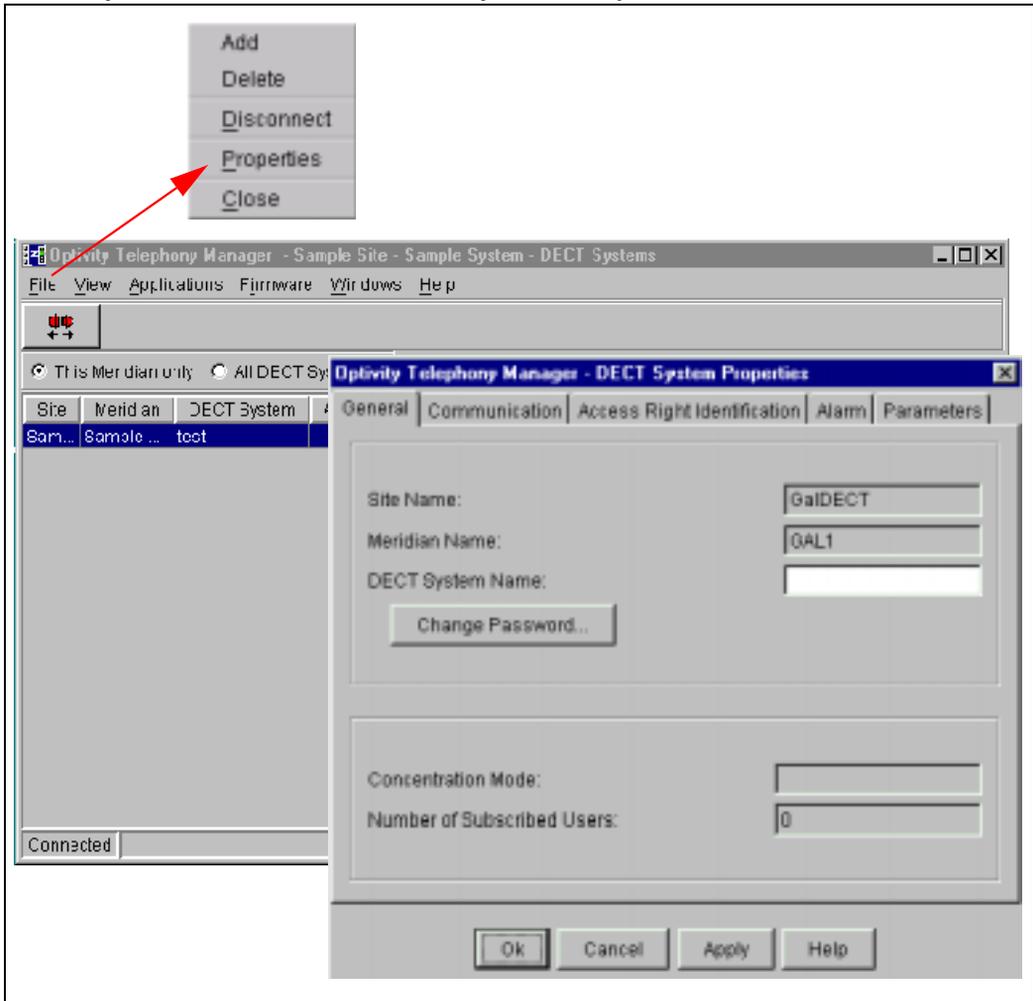
Table 64 Change the MDECT system name

Step	Action
1	Using Windows, Login to OTM, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
	Follow the instructions on, page 19 to page 21.
2	Using a Web based navigator, open the Administrator login screen, login, select the System Navigator, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
	Follow the instructions on, page 22 to page 25.
3	Open the DECT Systems Properties dialog.
	From the **File** pull-down menu, click on **Properties,** and click on the **General** tab.
4	Change the MDECT system name.
	Enter the new name in the **DECT System Name** box.

END

Change IP address on OTM DECT manager

Before changing the IP address on the manager, close the connection, and after the change and the MDECT system, open the connection as a safety check.

Figure 60:
DECT Systems window and DECT System Properties - Communication tab
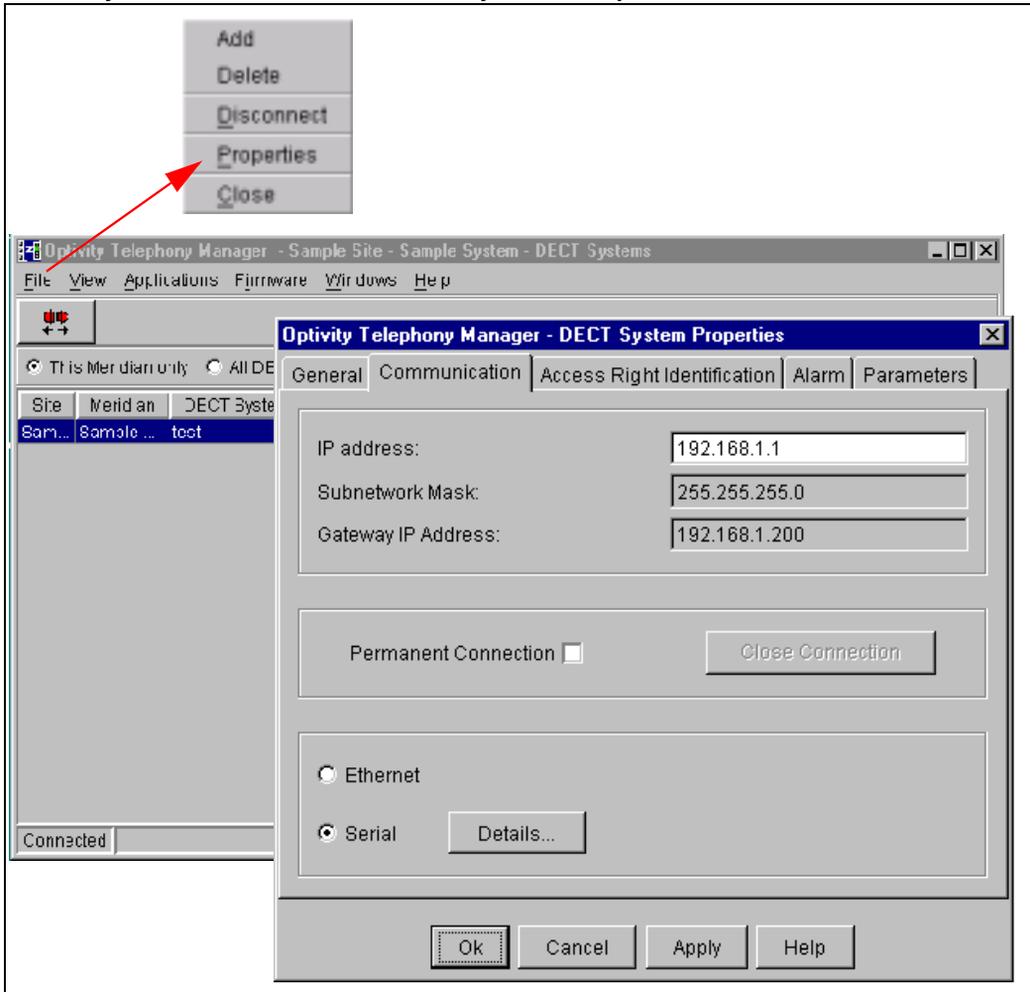
Table 65 Change IP address on MDECT system

Step	Action
1	Using Windows, Login to OTM, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
	Follow the instructions on, page 19 to page 21.
2	Using a Web based navigator, open the Administrator login screen, login, select the System Navigator, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
	Follow the instructions on, page 22 to page 25.
3	Open the DECT Systems Properties dialog.
	From the **File** pull-down menu, click on **Properties,** and click on the **Communication** tab.
4	Select Ethernet.
	Click on the **Ethernet** radio button.
5	Accept the changes.
	Click on the **OK** button.

Change IP address on MDECT system DMC8 Relay card

Before changing the IP address on the manager, close the connection, and after the change and the MDECT system, open the connection as a safety check.

Figure 61:
Telnet 192.168.1.1

```
Telnet - 192.168.1.104                                          _ □ ✕
Connect  Edit  Terminal  Help

login: dasuser

password:
local> ipconfig 192.168.1.104 255.255.255.0 192.168.1.199
```

Complete the following steps:

Table 66 Change IP address on MDECT system DMC8 Relay card

Step	Action
1	Open the Telnet dialog.
	Click on **Start**>**Accessories**>**Telnet**.
2	Enter user name and password.
	Type user name **dasuser** and password **dasuser**.
3	When the connection prompt **local** appears, change the Relay DMC8 card address.
	Enter the following command: **ipconfig xxx.xxx.xxx.xxx yyy.yyy.yyy.yyy zzz.zzz.zzz.zzz** **xxx.xxx.xxx.xxx** = new IP address of the Relay DMC8 card. **yyy.yyy.yyy.yyy** = subnet mask, usually **255.255.255.0** **zzz.zzz.zzz.zzz** = IP address if this is the gateway for your network. **Note: zzz.zzz.zzz.zzz** should be set to the IP address of the OTM server Ethernet interface. If you have two Ethernet interfaces on the OTM server, **zzz.zzz.zzz.zzz** should be set to the IP address of the interface which is on the same network as the DMC8 Relay card.

END

Change a PARI or SARI

> **NOTE**
>
> When the PARI or SARI changes, the MDECT system resets and the connection closes. If the connection is permanent, the OTM manager attempts to open in the background.

Figure 62:
DECT Systems window and DECT System Properties - Access tab
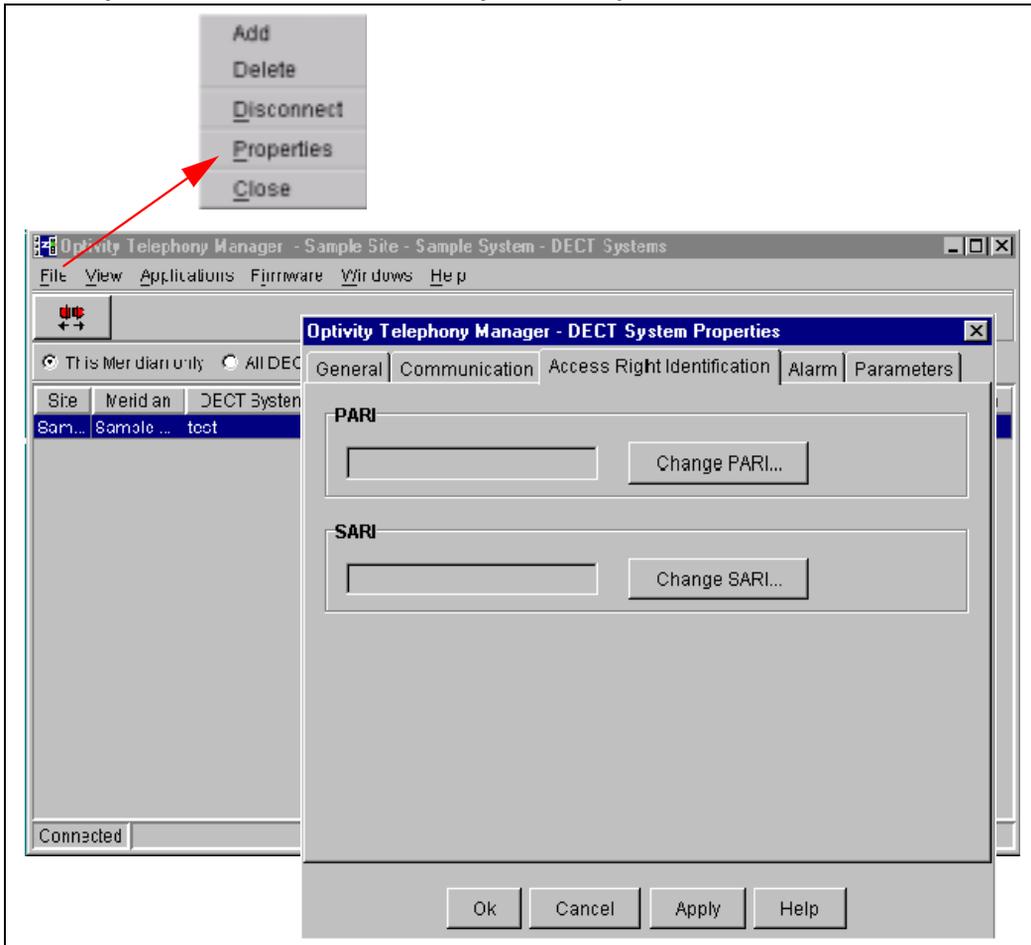
Table 67 Change a PARI or SARI

Step	Action
1	Using Windows, Login to OTM, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
	Follow the instructions on, page 19 to page 21.
2	Using a Web based navigator, open the Administrator login screen, login, select the System Navigator, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
	Follow the instructions on, page 22 to page 25.
3	Open the DECT Systems Properties dialog.
	From the **File** pull-down menu, click on **Properties,** and click on the **Access Right Identification** tab.
4	Change the PARI or SARI.
	Enter the **PARI** or **SARI**.
5	Accept the changes.
	Click on the **OK** button.

END

Change the Upstream Manager IP address

> **NOTE**
>
> An upstream manager IP address can only be programmed on the DMC8 Relay card.

Figure 63:
DECT Systems window and DECT System Properties - Alarm tab
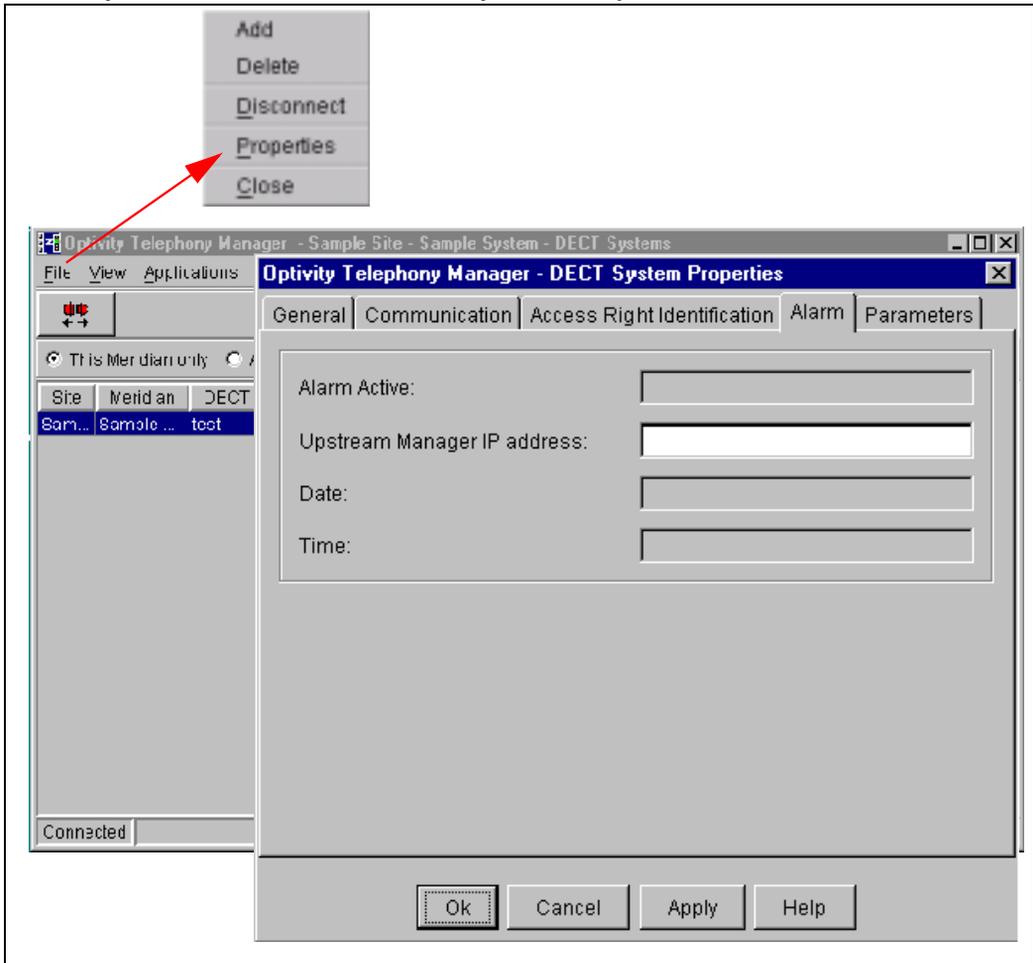
Table 68 Change the Upstream Manager IP address

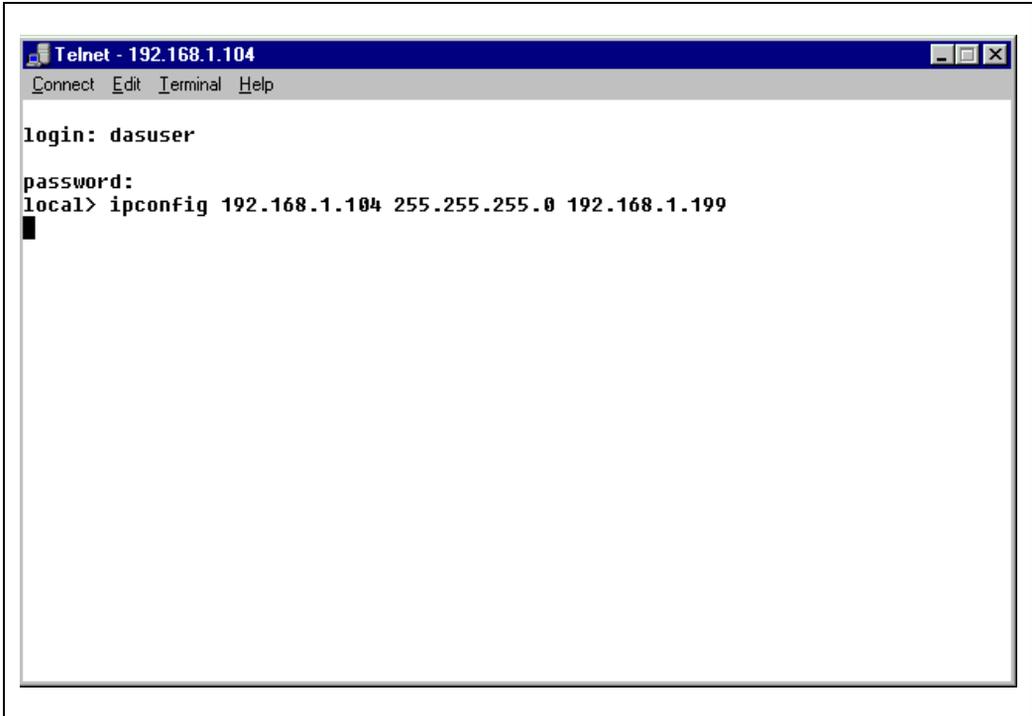| Step	Action
1	Using Windows, Login to OTM, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
	Follow the instructions on, page 19 to page 21.
2	Using a Web based navigator, open the Administrator login screen, login, select the System Navigator, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
	Follow the instructions on, page 22 to page 25.
3	Open the DECT Systems Properties dialog.
	From the **File** pull-down menu, click on **Properties,** and click on the **Alarm** tab.
4	Change the upstream manager IP address.
	Enter the **Upstream Manager IP address**.
5	Accept the changes.
	Click on the **OK** button.

END

Change time and date

The time and date is used to time stamp the alarms.

> **NOTE**
>
> You must change the time and date when the MDECT system reboots or a DMC resets.

Figure 64:
DECT Systems window and DECT System Properties - Alarm tab
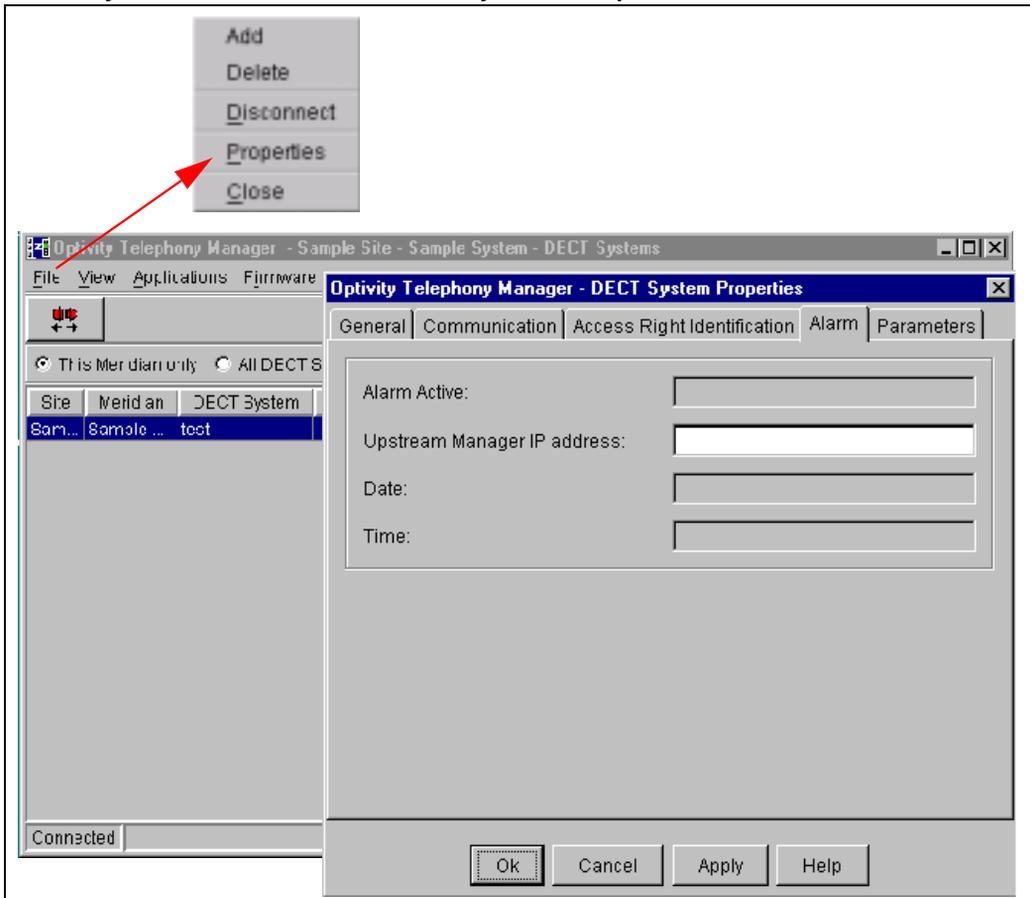
Table 69 Change time and date

Step	Action
1	Using Windows, Login to OTM, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
	Follow the instructions on, .
2	Using a Web based navigator, open the Administrator login screen, login, select the System Navigator, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
	Follow the instructions on, .
3	Connect to an MDECT System.
	From the **Applications** pull-down menu click on **Connect** or (green).
4	Open the DECT Systems Properties dialog.
	From the **File** pull-down menu, click on **Properties,** and click on the **Alarm** tab.
5	Change the time and date.
	Enter the **Date** and **Time**.
6	Accept the changes.
	Click on the **OK** button.

Change parameters

Figure 65:
DECT Systems window and DECT System Properties - Parameters tab
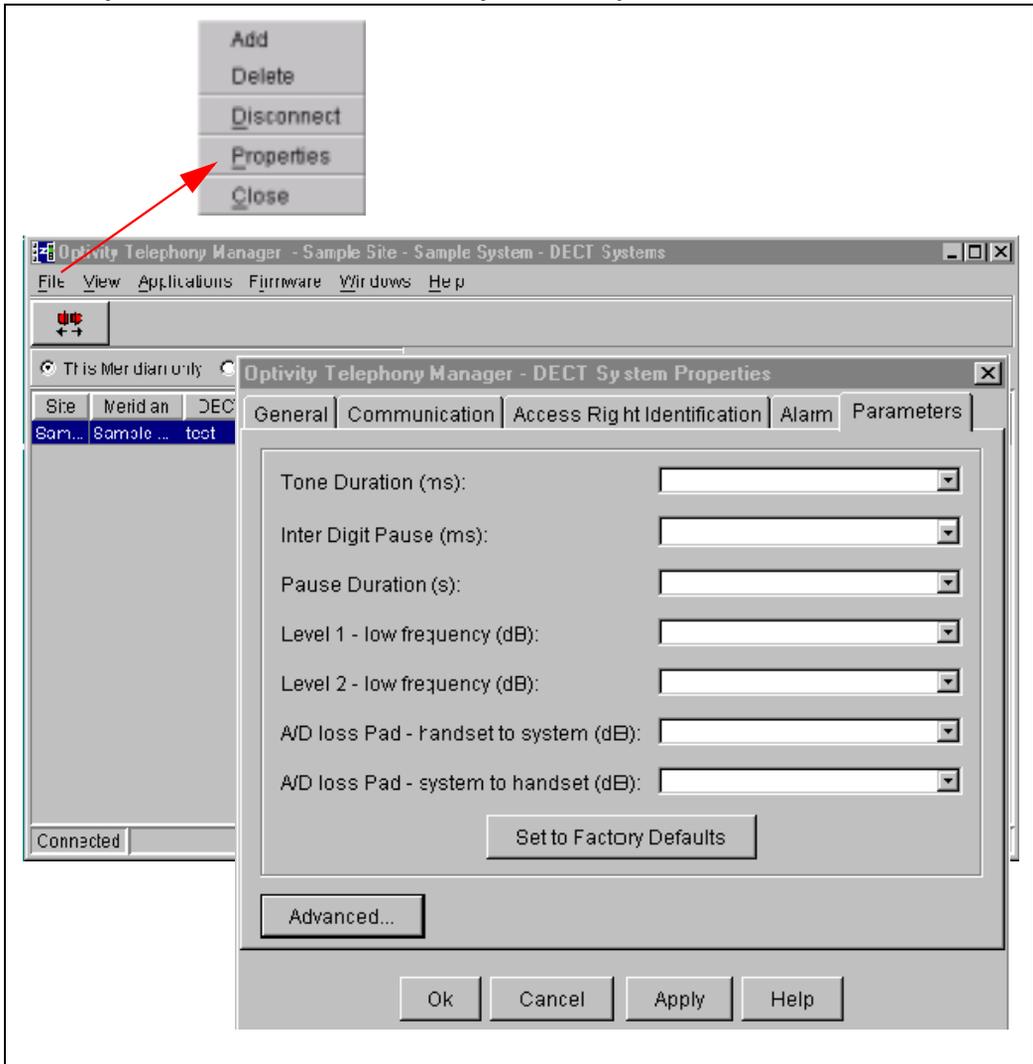
Table 70 Change parameters

Step	Action
1	Using Windows, Login to OTM, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
	Follow the instructions on, page 19 to page 21.
2	Using a Web based navigator, open the Administrator login screen, login, select the System Navigator, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
	Follow the instructions on, page 22 to page 25.
3	Open the DECT System Properties dialog.
	From the **File** pull-down menu, click on **Properties,** and click on the **Parameters** tab.
4	Change the parameters.
	From the appropriate pull-down menus, highlight the parameter time/level.
5	Accept the changes.
	Click on the **OK** button.

END

Keep or remove non-operational DMC8s from OTM

> **NOTE**
>
> Figure 66 only appears when a connection is established and there is a mismatch. If there is a permanent connection and the MDECT system configuration changes, the OTM DECT manager is updated automatically and the change is noted in the OTM event log.

Figure 66:
Synchronize DECT Board Configuration dialog
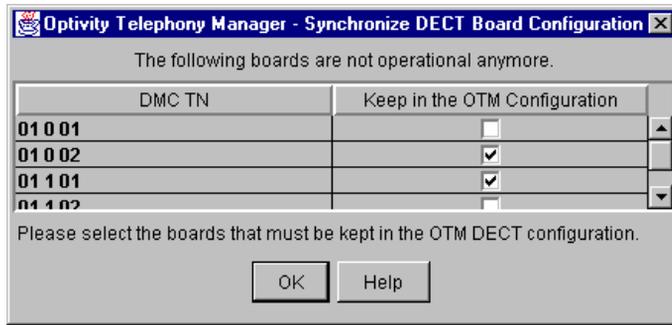
Table 71 Keep or remove non-operational DMC8s from OTM

Step	Action
1	To keep DMCs,
	Delete the check mark from the appropriate box.

Table 71 Keep or remove non-operational DMC8s from OTM

Step	Action
2	To remove DMCs,
3	Put a check mark in the appropriate box.
4	Accept the changes.
	Click on the **OK** button.

Keep or remove non-operational base stations from OTM

NOTE

Figure 67 only appears when a connection is established and there is a mismatch. If there is a permanent connection and the MDECT system configuration changes, the OTM DECT manager is updated automatically and the change is noted in the OTM event log.

Figure 67:
Synchronize DECT Radio Fixed Part Configuration dialog

Optivity Telephony Manager - Synchronize DECT Radio Fixed Part Configuration

The following Radio Fixed Parts are not operational anymore.

DMC TN	Radio Identifier	Keep in the OTM Configurat...
01 0 03	0	☐
01 0 03	1	☐
01 0 03	2	☑
01 1 03	0	☑
01 1 03	1	☑
01 1 03	2	☐
01 1 03	3	☐

Please select the Radio Fixed Parts that must be kept in the OTM DECT configuration.

OK   Help
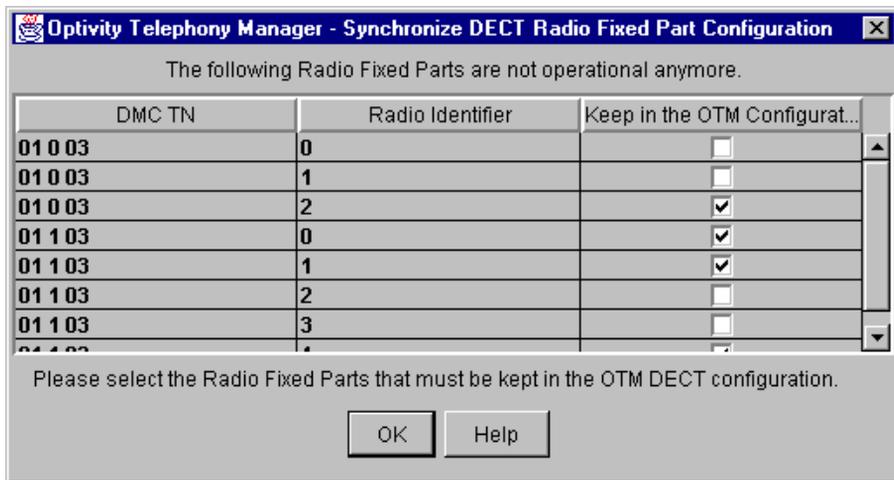
Table 72 Keep or remove non-operational base stations from OTM

Step	Action
1	To keep base stations,
	Delete the check mark from the appropriate box.
2	To remove base stations,
	Put a check mark in the appropriate box.
3	Accept the changes.
	Click on the **OK** button.

Resolve a subscription configuration mismatch

> **NOTE**
>
> Figure 68 can appear when subscriptions are done with the Sub-scriptions window Operation pull-down menu, clicking on Con-figure, and not also configuring the handset on the Meridian/Succession with Station Administration.

Figure 68:
DECT Subscriptions Configuration Mismatch dialog, and DMC window
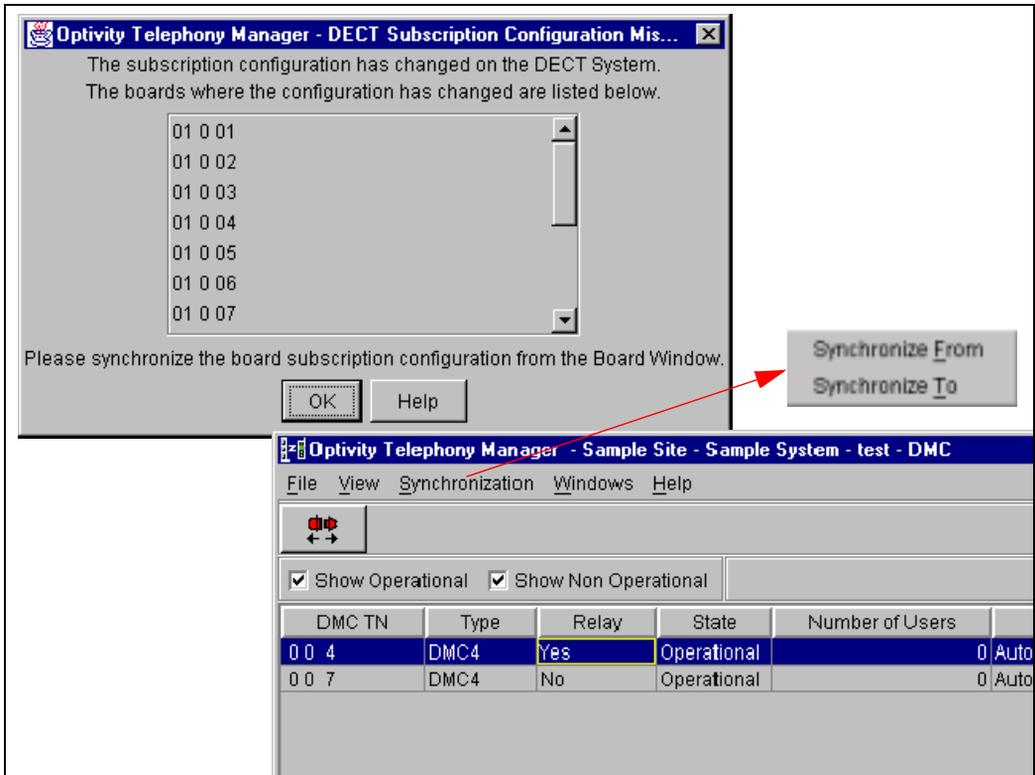
Table 73 Select login options

Step	Action
1	Using Windows, Login to OTM, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
	Follow the instructions on, page 19 to page 21.
2	Using a Web based navigator, open the Administrator login screen, login, select the System Navigator, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
	Follow the instructions on, page 22 to page 25.
3	Open the DMC window.
	Follow the instructions on, page 27.
4	Store DMC changes from the MDECT system in the OTM server,
	In the **Synchronization** pull-down menu, click on **Synchronize From**.
5	Make OTM server changes to the DMCs in the MDECT system,
	In the **Synchronization** pull-down menu, click on **Synchronize To**.

END

User Access security
Web based navigator Access security

You can allow or deny Group access to MDECT OA&M features or handset subscriptions with the Web Access security screen.

Figure 69:
OTM Web Access security

Table 74 Web based navigator Access security

Step	Action
1	Using a Web based navigator, open the Administrator login screen, login, select the System Navigator, select the Meridian 1 that supports the MDECT system.
	Follow the instructions on, page 22 to page 25.
2	Select Web Navigator Access.
	Click on **Web Navigator Access**.
3	Follow the on-screen instructions.
	A check in the Allow Access column boxes allows access for the selected users group. No check in the boxes denies access to the selected users group.

END

Windows Access security

You can allow or deny Group access to MDECT OA&M features with the Windows Administration Template Properties dialog.

Figure 70:
OTM Navigator, OTM Users, and Template Properties
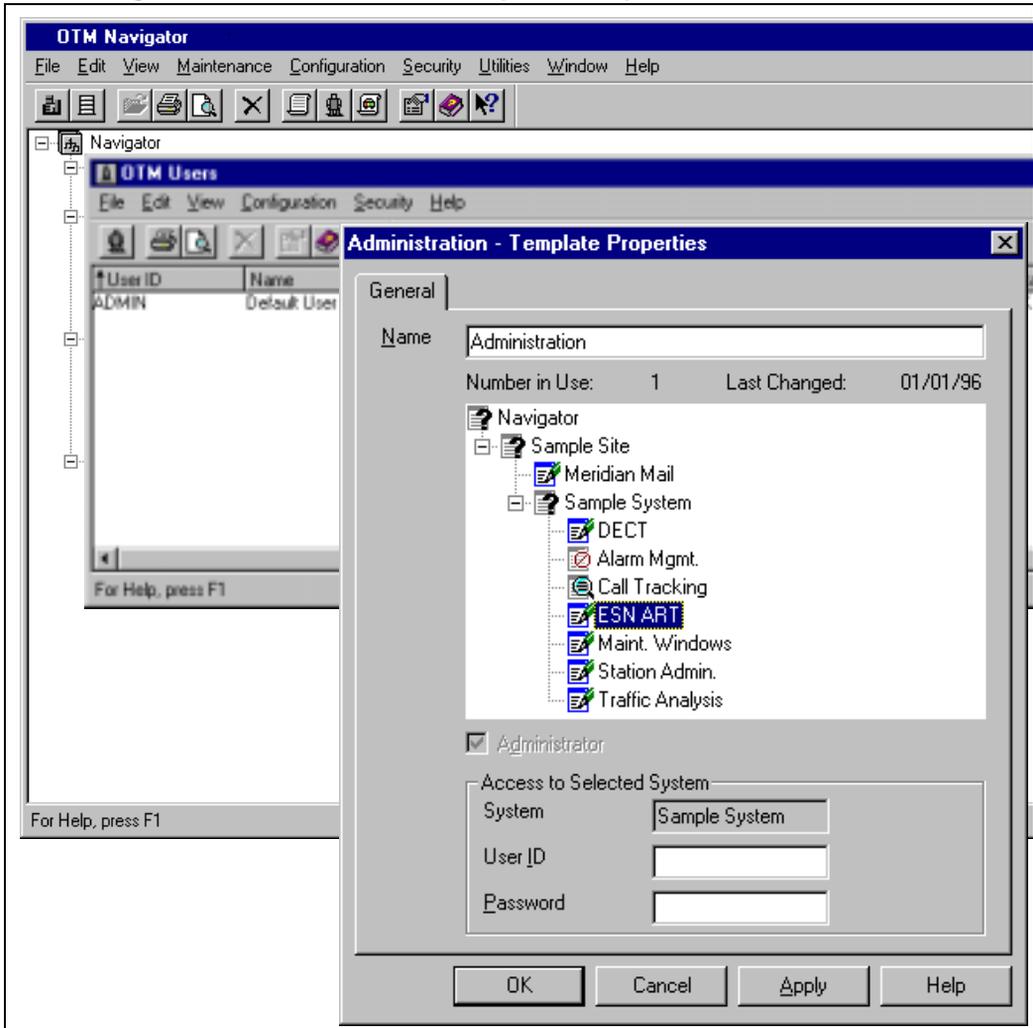
Table 75 Windows Access security

Step	Action
1	Using Windows, Login to OTM to open the OTM Navigator window.
	See "Login to the OTM" on page 19.
2	Open the OTM Users window.
	From the **Security** pull-down menu, click on **OTM Users**.
3	Open the Template Properties.
	From the **Configuration** pull-down menu, click on **User Templates**.
4	Select the appropriate access level for the user group.
	Click the left mouse button on the icon to change the access, as follows: 📝 = Read and write access 🔍 = Read only access* 🚫 = No access **Note:** * Choosing read only access allows read and write access.

MDECT System maintenance

The following index is a navigator for this chapter:

Alarm Code maintenance actions

You can view Alarm Codes with one of the following:

- "Windows Alarm Snapshot" on page 143
- "Web Alarm browser" on page 151
- "Windows Alarm Notification" on page 153

Windows Alarm Snapshot

Figure 71:
Alarm Snapshot window and Alarm Properties dialog
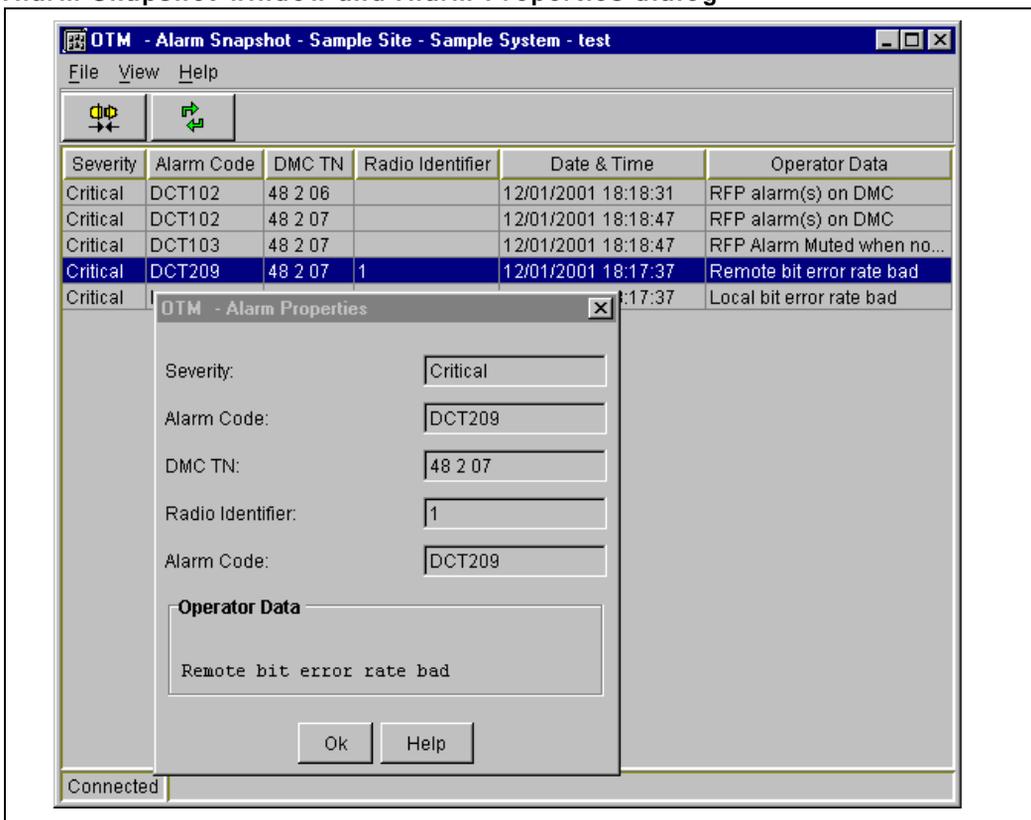
> **NOTE**
>
> The Alarm Snapshot window is a static display. The Alarm Snapshot window only shows the alarms present at the time the window was opened. The window must be refreshed for an up-to-date display.
> The Web based alarm browser displays alarm history and occurring alarms.

Table 76 Alarm Code maintenance actions

Step	Action
1	Using Windows, Login to OTM, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window, and open the Current Alarms window.
	Follow the instructions on, page 19 to page 27.
2	Refresh the Alarm Snapshot window.
	Click on the ⬚ icon.
3	Examine the alarm code, and take the appropriate maintenance action.
	See Table 78 on page 152.

END

> **NOTE**
>
> The Windows Alarm Notification browser, on page 153 only displays alarms that have occurred since the window was opened. The Web Alarm browser, page 151 has a circular log that provides information on a limited history of alarms. The Web Alarm browser records alarms at all times.

Table 77 Alarms

Alarm code	Alarm description	Maintenance action
DMC8 Operational State Synthesis		
DCT001	All DMC8s are operational. (DCT001 only displayed in the Alarm browsers. DCT001 does not show in the Alarm Snapshot list.)	Information only, no action needed.
DCT002	At least one DMC8 is not operational. (DCT002 only displayed in the Alarm browsers. DCT002 does not show in the Alarm Snapshot list.)	Remove the DMC8 and insert the DMC8 again to reboot If the reboot fails, replace the DMC8.
Note: When at least one DMC8 becomes inoperable, DCT002 appears in the alarm browser history. When all the DMC8s become operational again, DCT001 appears in the browser history.		
Presence of an alarm		
DCT101	No alarms. (DCT101 only displayed in the Alarm browsers).	Information only, no action needed.
DCT102	1 DCT102 displayed in the Alarm browsers is an alarm on a DMC8. 2 DCT102 displayed in the Alarm Snapshot as an alarm on a base station.	1 Open the Alarm Snapshot window for alarm details and perform the corresponding maintenance actions. 2 Look for one or more DCT202 to DCT215 alarms in the Alarm Snapshot window, and perform the corresponding maintenance actions.
DCT103	Base station alarm muted when no alarms. Look for one or more DCT501 alarms for details.(DCT103 only displayed in the Alarm Snapshot window.)	Configure the base station using the OTM or disconnect the base station.

Alarm code	Alarm description	Maintenance action
DCT104	Faceplate cable alarm(s) on DMC8. Look for one or more DCT302 to DCT307 alarms for details.(DCT104 only displayed in the Alarm Snapshot window.)	Perform the DCT302 to DCT307 maintenance action.
DCT105	Software alarm(s) on DMC8. Look for one or more DCT401 to DCT403 alarms for details. (**DCT105** only displayed in the Alarm Snapshot window.)	Perform the DCT402 to DCT407 maintenance action.
Base station alarms		
DCT201	No base station alarm. (DCT201 only displayed in the Alarm browsers.)	Information only, no action needed.
DCT202	Local receiver signal missing (base station disconnected). If a disconnection does not solve the problem, one of the following could be the cause: 1 the base station 2 the base station's DMC8 3 a cable problem between the base station and the DMC8.	Disconnect the base station for 30 seconds. 1 Replace the base station. 2 Replace the base station's DMC8. 3 Check the faceplate cabling.
DCT203	Local loss of receiver slot synchronization.	Perform the DCT202 maintenance action.
DCT204	Local loss of receiver frame synchronization.	Perform the DCT202 maintenance action.
DCT205	Local bit error rate bad.	Perform the DCT202 maintenance action.
DCT206	Remote receiver signal missing.	Perform the DCT202 maintenance action.

Alarm code	Alarm description	Maintenance action
DCT207	Remote loss of receiver slot synchronization.	Perform the DCT202 maintenance action.
DCT208	Remote loss of receiver frame synchronization.	Perform the DCT202 maintenance action.
DCT209	Remote bit error rate bad.	Perform the DCT202 maintenance action.
DCT210	Synthesizer out of synchronization.	Perform the DCT202 maintenance action.
DCT211	Power amp out of order.	Perform the DCT202 maintenance action.
DCT212	Round-trip delay changed.	Perform the DCT202 maintenance action.
DCT213	RFP synthesizer type changed.	Perform the DCT202 maintenance action.
DCT214	LFC out of synchronization with BMC.	Disconnect and reinsert the DMC8.
DCT215	Error due to synchronization-port mutation.	Can affect your interpretation of the alarm snapshot or alarm browser applications; however, the alarm should clear automatically within 200 seconds.
Faceplate cable alarms		
DCT301	No faceplate cable alarm. (DCT301 only displayed in the Alarm browsers.)	Information only, no action needed.

Alarm code	Alarm description	Maintenance action
DCT302	The DMC8 is working; however, there is a loss of faceplate cable synchronization.	Remove all the DMC8s. Check the strap setting on the DMC8s. Check the faceplate cabling. Reinsert all the DMC8s. If the above procedure does not solve the problem, try to find which DMC8 gives the error condition by inserting the DMC8s one at a time with a minute in between insertions. If needed, replace the defective DMC8 or the defect faceplate cables.
DCT303	No faceplate cable synchro-nization found. The DMC8 responsible for this alarm cannot pass the alarm on to the DMC8 Relay card.	Perform the DCT302 maintenance action.
DCT304	The DMC8 is working; however, someone connected a faceplate cable section to the DMC8, causing a counter difference.	Do not connect faceplate cables to a DMC8 on an active MDECT sys-tem.
DCT305	The DMC8 is working; however, there is a timing signal loss within the DMC8.	Perform the DCT302 maintenance action.
DCT306	The DMC8 is working; however, the input of the faceplate cable controller is locked.	Perform the DCT302 maintenance action.
DCT307	The DMC8 is working; however, the processor is overloaded with too many faceplate cable messages, causing an I/O transmit overflow.	Perform the DCT302 maintenance action. If the DCT302 action does not solve the problem, try provision-ing an additional DMC8.
Software alarms		

Alarm code	Alarm description	Maintenance action
DCT401	The DMC8 is working; however, there is a subscription database corruption.	In the Boards window, **Synchronize From** the DMC8, then **Synchronize To** the DMC8.
DCT402	The DMC8 is located in a card slot position that does not match the DMC8 subscription data card slot address. The mismatch is due to one of the following: • the DMC8 is placed in the wrong card slot position • the DMC8 will not come into service	Perform the DCT401 maintenance action.
DCT403	Duplicate subscription in the system. A subscription is moved from a source DMC8 to a destination DMC8; however, the original subscription is still present on the source DMC8. The DCT403 alarm should always come from both the source and destination DMC8s.	Perform the DCT401 maintenance action. If the problem does not clear, look for duplicated subscription IPUI in the Subscription Property dialog. Delete the unnecessary subscription from the source DMC8.
DCT404	(DCT404 only displayed in the Alarm browsers.) One of the following events occurred: • the power was turned on • the DMC8 was inserted into the shelf backplane • a software exception restarted the DMC8	If this alarm was caused by a software exception. Examine the alarm browsers for details.

Alarm code	Alarm description	Maintenance action
Radio Fixed Part alarm muted		
DCT501	Alarms are muted in the RFP window, however the base station does not have any intrinsic alarms.	Use the RFP window to **Cancel Mute Alarms**.
Backplane controller unit		
DCT601	This alarm is used by Nortel Networks designers.	Information only, no action needed.

Web Alarm browser

The Web Alarm browser has a circular log that provides information on a limited history of alarms. The Web Alarm browser records alarms at all times.

Figure 72:
OTM web system alarms
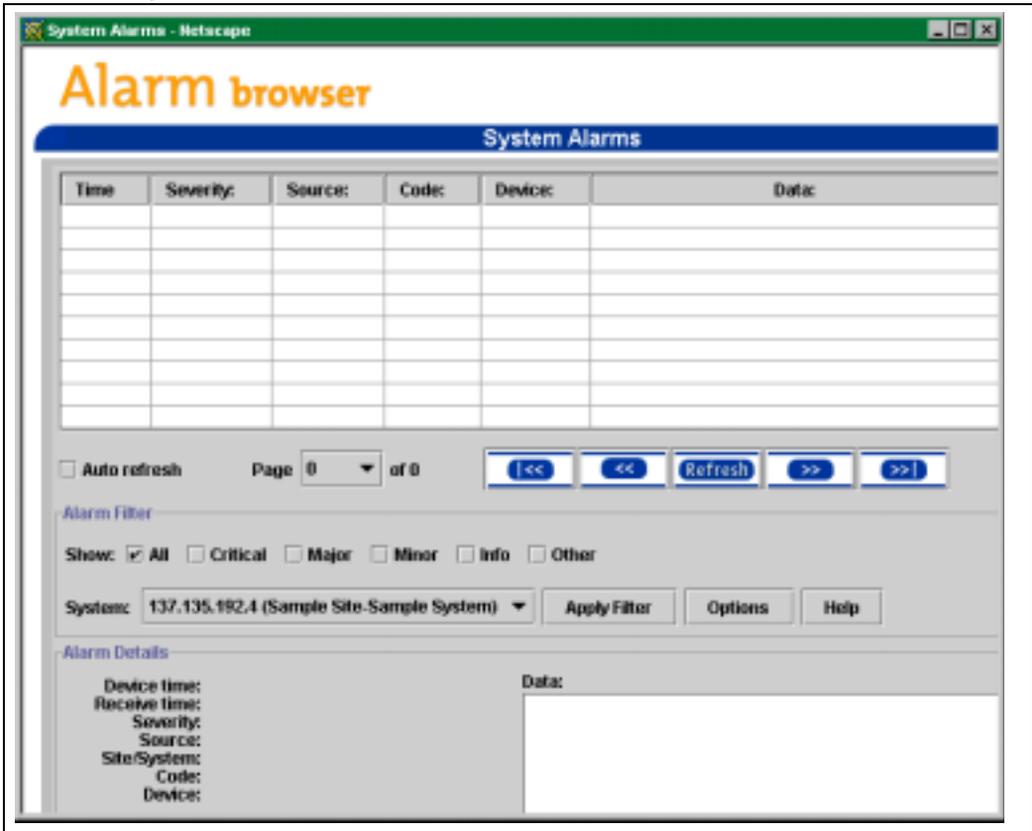
Table 78 Alarm Code maintenance actions

Step	Action
1	Using a Web based navigator, open the login screen, login, select the System Navigator, select the Meridian 1 that supports the MDECT system, select Alarms.
	Follow the instructions on, page 22 to page 25.
2	Examine the code, and take the appropriate maintenance action.
	See Table 77 on page 145.

END

Windows Alarm Notification

Alarm Notification provides an alert by pagers, E-mail, and forwards SNMP traps to an upstream processor. For more information about the Alarm Notification, see *Using Optivity Telephony Manager for Meridian 1* (553-3001-330).

Figure 73:
Alarm Notification
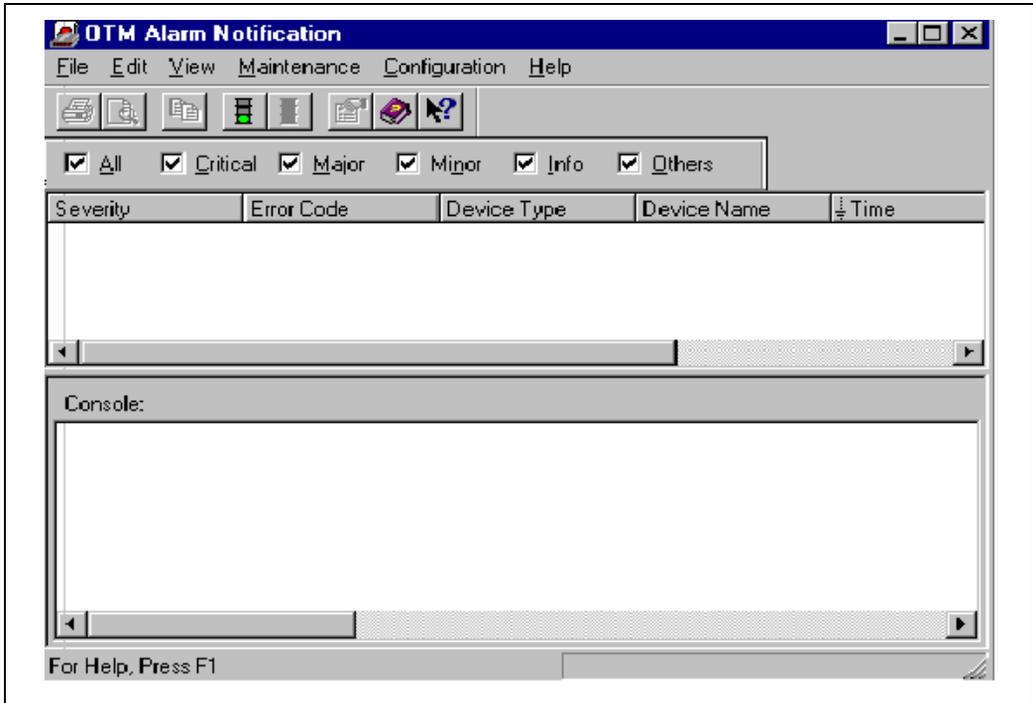
Table 79 Alarm Notification

Step	Action
1	Using Windows, open the login screen, login, select the Alarm Notification from the Utilities menu of the OTM Windows Navigator.
	Follow the instructions on, page 22 to page 25.
2	Examine the Message ID, and take the appropriate maintenance action.
	See Table 77 on page 145.

END

Event Monitor window

The Event Monitor window displays the Meridian 1 system's Event Log, allowing you to view all recent system events stored in the Meridian 1 history file. For more information about the Alarm management, see *Using Optivity Telephony Manager for Meridian 1* (553-3001-330).

Figure 74:
Event Log

Table 80 Event Log

Step	Action
1	Using Windows, Login to OTM, select the Event Log Viewer from the Maintenance menu of OTM Windows Navigator.
	Follow the instructions on, page 22 to page 25.
2	Examine the Application column.
	DECT indicates an MDECT event.
3	Examine the Data Group column.
	Gives the Site name, PBX name, MDECT name.

Table 80 Event Log

Step	Action
4	Examine the Message ID column.
	Non-error logs range from 1 to 9999.
	Error logs range from 10000 to 19999.
5	Examine the Message column.
	Messages are explanation of Message ID number codes.

LED status for DMC8/DMC8-E and base station

LED status

Companion system LED status indicates the functioning of the DMC8/DMC8-E and base station power and card subsystem operation.

Table 81 DMC8/DMC8-E red LED status

Red LED State	Description	Action
On	The card is one of the following: 1 not programmed 2 disabled 3 has faults	1 Program the card. See page 133. 2 Re-enable the card. Use LD 32 ENLC l s c. 3 Replace the card. See page 160.
Flashes three times	Card is doing a self test.	Wait.
Off	1 The card is in service if the yellow LED is off and the green LED is on. 2 The card has no power if all LEDs are off.	1 No action. 2 Restore power.

Table 82 DMC8/DMC8-E yellow/green LED status

Yellow LED Status	Green LED Status	Description	Action
Off	Off	Power down.	Restore power.
On	Off	Hardware testing by boot program.	Wait.
On	On	Wait for download command by the boot program.	Wait.
On	Loop‡	No valid main program found by the boot program. Card is continuously restarting.	Start firmware distribution with the DECT Manager.
Slow flash†	On	Faults caused by one of the following: • software download in progress • software distribution in progress • subscription or configuration data is saving to the flash ROM	Wait. Do not remove the card, removal corrupts the flashROM data.
Off	Fast flash††	Card is synchronizing to the faceplate cable bus.	Wait.

Legend for LED action:
† Slow flash = 2 seconds On and 2 seconds Off
††Fast flash = 1 second On and 1 second Off
‡ Loop for no program = 3 seconds On and 0.25 seconds Off
‡ Loop for corrupted program = 12 seconds On and 0.25 seconds Off

Table 82 DMC8/DMC8-E yellow/green LED status

Yellow LED Status	Green LED Status	Description	Action
Off	Slow flash†	1 Card has no PARI, or has an incomplete PARI. 2 Card has detected an error.	1 Contact your technical support group. 2 Replace the card. See page 160.
Off	On	Card is in service.	No action required.
Slow flash†	Slow flash†	Simultaneous occurrence of: • card has no PARI, or incomplete PARI and • either software distribution is in progress or subscription or configuration data is saving to the flashROM	Contact your technical support group.
Legend for LED action: † **Slow flash = 2 seconds On and 2 seconds Off** †† **Fast flash = 1 second On and 1 second Off** ‡ **Loop for no program = 3 seconds On and 0.25 seconds Off** ‡ **Loop for corrupted program = 12 seconds On and 0.25 seconds Off**			

Table 83 Base station LED status

Green	Description	Action
Off	No power.	Check DMC8 to base station cables.
Flashes	Input power present but no output power.	Check DMC8 LED Status and Alarm Reports. Check DMC8 to base station cables.
On	Power present and communications with DMC8 established.	No action required.

Remove and insert a DMC8 for maintenance

CAUTION: Service interruption

Do not bypass the DMC8-E or the DMC8 immediately to the left of the DMC8-E. A bypassed DMC8-E can not regenerate the faceplate bus signals in the left half of the shelf.

Although the separated left half of the shelf remains in synchronization, system performance decreases as follows:

• any calls passing through the separated part of the faceplate bus drop.

• handsets configured on a DMC in the separated half cannot make or receive calls through a base station in the other half.

To remove, re-seat, or insert DMC8s, continue as follows:

• backup the data from the DMC8 you need to remove

• remove the faulty DMC8

• insert a working DMC8

• restore the data to the DMC8 you replaced

Backup a DMC8 configuration and subscription information

Figure 75:
DMC window
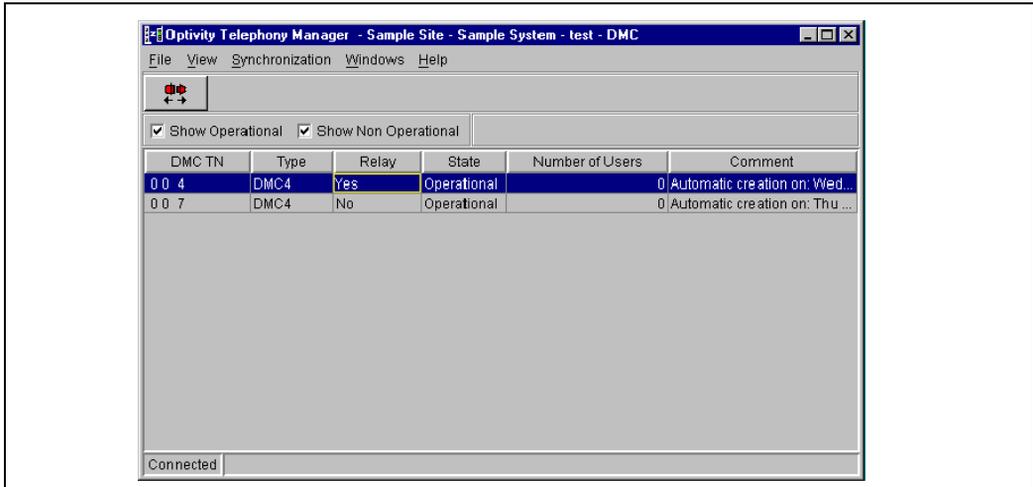
Table 84 Backup a DMC configuration and subscription information

Step	Action
1	Using Windows, Login to OTM, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window, and open the Boards window.
	Follow the instructions on, page 19 to page 27.
2	Select the DMC8.
	Highlight the DMC8 in the list.
3	Save the DMC8 data on the OTM.
	From the **Synchronization** pull-down menu, click on **Synchronize From**.
	END

Remove a faulty DMC8

Figure 76: DMC8 removal

553-8227.EPS
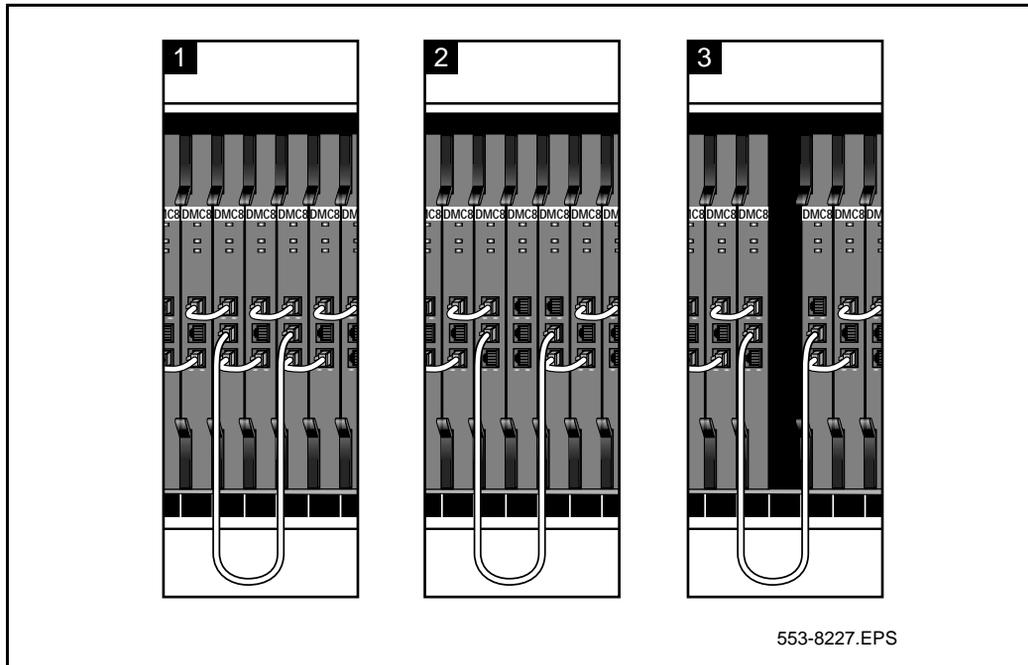
Table 85 Remove a faulty DMC8

Step	Action
1	Connect the maintenance bypass cable.
	Plug the maintenance bypass cable into the **Maint** port of the DMC8s on either side of the DMC8 to be removed.
2	Disconnect the faceplate cables.
	Detach the faceplate cables on the DMC8 to be removed and on the cards on either side of it.
3	Remove the DMC8.
	Release the card locking devices and lever the card out of the shelf backplane.

END

Insert a serviceable DMC8

Figure 77: DMC8 insertion

553-8229.EPS
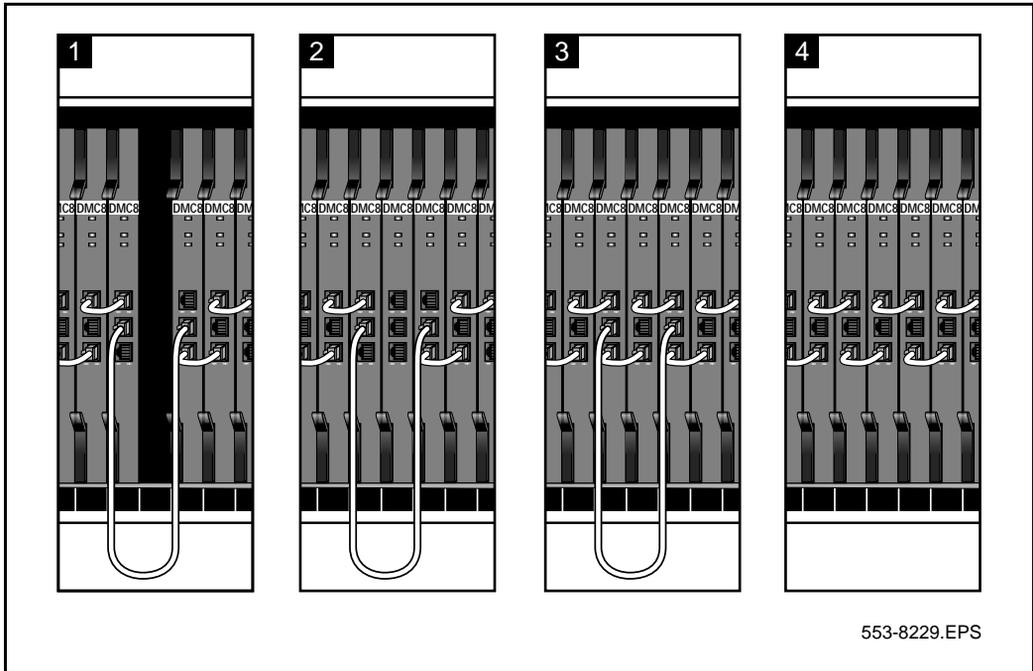
Table 86 Insert a serviceable DMC8

Step	Action
1	Insert the DMC8.
	Lever the card into the shelf backplane and latch the card locking devices.
2	Connect the faceplate cables.
	Insert the faceplate cables into the DMC8 just inserted and into the cards on either side of it.
3	Disconnect the maintenance bypass cable.
	Remove the maintenance bypass cable from the **Maint** port of the DMC8s on either side of the replaced DMC8.

END

Restore subscription data to the serviceable DMC8

Figure 78:
DMC window
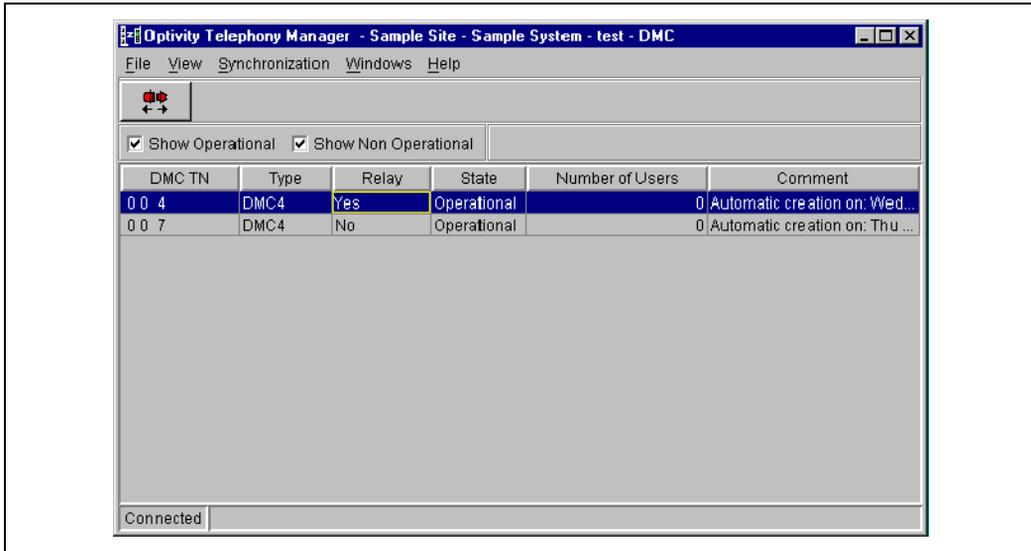
Table 87 Restore subscription data to the serviceable DMC8

Step	Action
1	Using Windows, Login to OTM, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window, and open the Boards window.
	Follow the instructions on, page 19 to page 27.
2	Select the DMC8.
	Highlight the DMC8 in the list.
	Save the DMC8 data on the OTM.
	From the **Synchronization** pull-down menu, click on **Synchronize To**.
	END

NOTE
Restore only one DMC (Board) at a time.

Add a DMC8 to an MDECT system

Figure 79: Adding a DMC8 to the system

553-8230.EPS
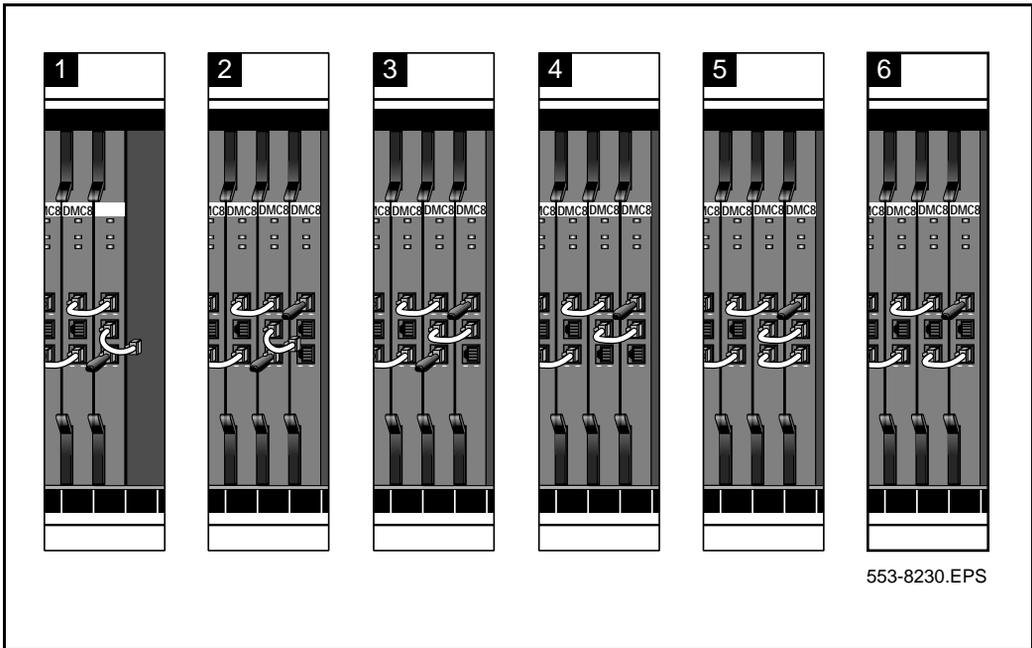
Table 88 Add a DMC to a DECT system

Step	Action
1	Connect the bypass cable.
	Plug the bypass cable into the **Maint** port of the existing DMC8.
2	Insert the DMC8, with a terminating plug installed into the top ◄► port.
	Lever the card into the shelf backplane and latch the card locking devices.
3	Connect the bypass cable to the added DMC8.
	Plug the bypass cable into the **Maint** port of the added DMC8.
4	Remove the terminating plug from the existing card.
	Remove the terminating plug from the bottom ◄► port of the existing DMC8.
5	Connect the faceplate cable.
	Insert the faceplate cables into the bottom ◄► port of the existing DMC8 and the added DMC8.
6	Disconnect the bypass cable.
	Remove the maintenance bypass cable from the **Maint** port of the existing DMC8 and the added DMC8.
7	Add the DMC8 to the database.
	Use the procedure on .

END

Reuse a DMC8 in another MDECT system

Figure 80:
DMC window
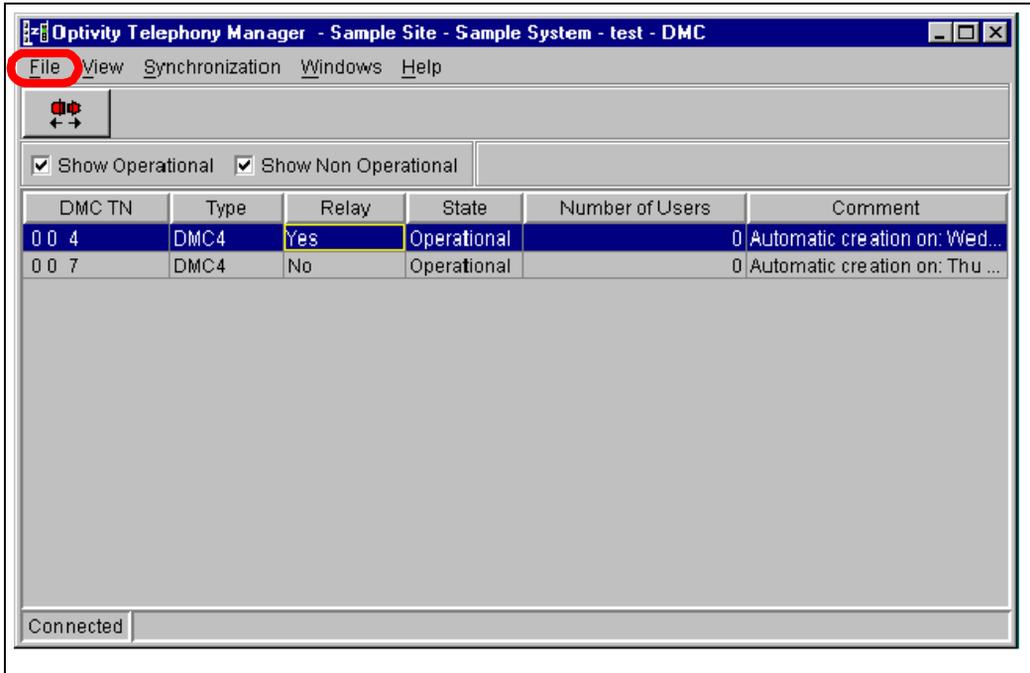
Table 89 Reuse a DMC8 in another MDECT system

Step	Action
1	Select the DMC8 to be reused.
	Highlight the DMC8 in the list.
2	Delete the subscriptions from the DMC8 memory.
	From the **File** pull-down menu, click on **Clear**.

END

Remove and re-install a base station for maintenance

Mute alarms on a base station

Figure 81:
RFP window, and DECT Radio Fixed Parts properties dialog
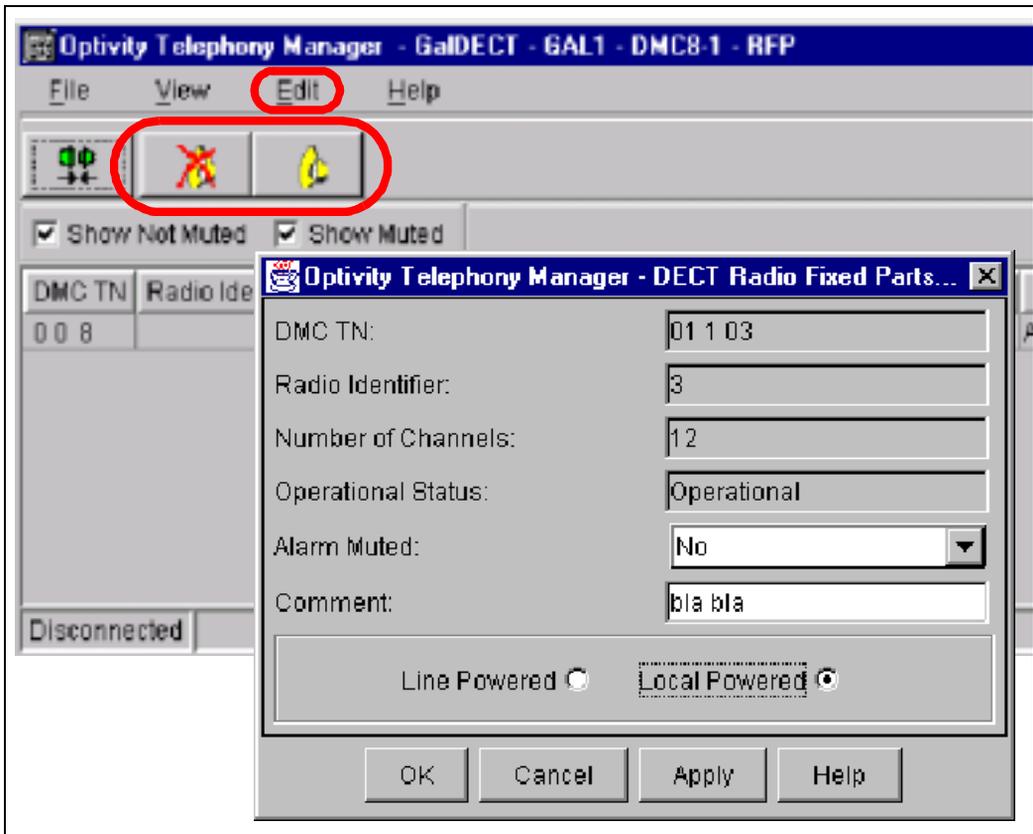
Table 90 Mute alarm on a base station

Step	Action
1	Using Windows, Login to OTM, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window, and open the RFP window.
	Follow the instructions on, page 19 to page 27.
2	Select the DMC8 to mute.
	Highlight the DMC8 in the list.
3	Mute the alarms.
	From the **File** pull-down menu, click on **Mute Alarms**, or click on the icon.

Cancel mute alarms on a base station

Table 91 Cancel mute alarms on a base station

Step	Action
1	Using Windows, Login to OTM, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window, and open the RFP window.
	Follow the instructions on, page 19 to page 27.
2	Select the DMC8 to cancel mute alarms.
	Highlight the DMC8 in the list.
3	Cancel mute alarms.
	From the **File** pull-down menu, click on **Cancel Mute Alarms**, or click on the ![icon] icon.

<div align="center">END</div>

Disconnect and /Re-install a base station

Figure 82: Disconnect/re-install the base station

553-8143a
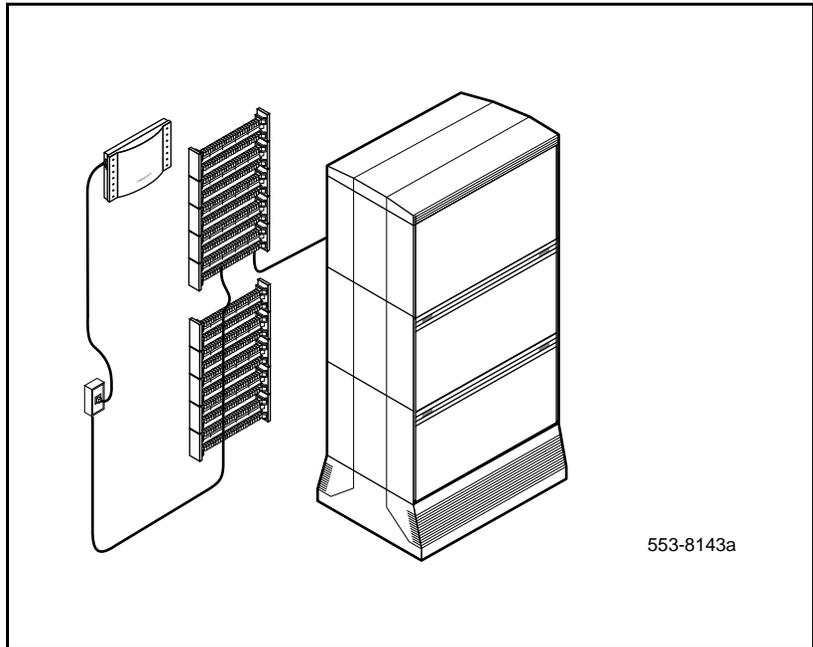
NOTE

After disconnecting the cable to the base station, wait for 60 seconds before reconnecting another base station.

Table 92 Disconnect/Reinstall a base station

Step	Action
1	Disconnect the RJ45 cable, MDF side.
	Unplug the RJ45 cable from the wall socket of the RJ45 box.
2	Disconnect the RJ45 cable, base station side.
3	Remove the unserviceable base station from the mounting plate.
4	Re-install a serviceable base station on the mounting plate.
5	Re-connect the RJ45 cable to the base station.
6	Re-connect the RJ45 cable, MDF side.

END

Firmware upload and activation

Figure 83:
DECT Systems, DECT Firmware Upload, DECT Firmware Activation, Upload
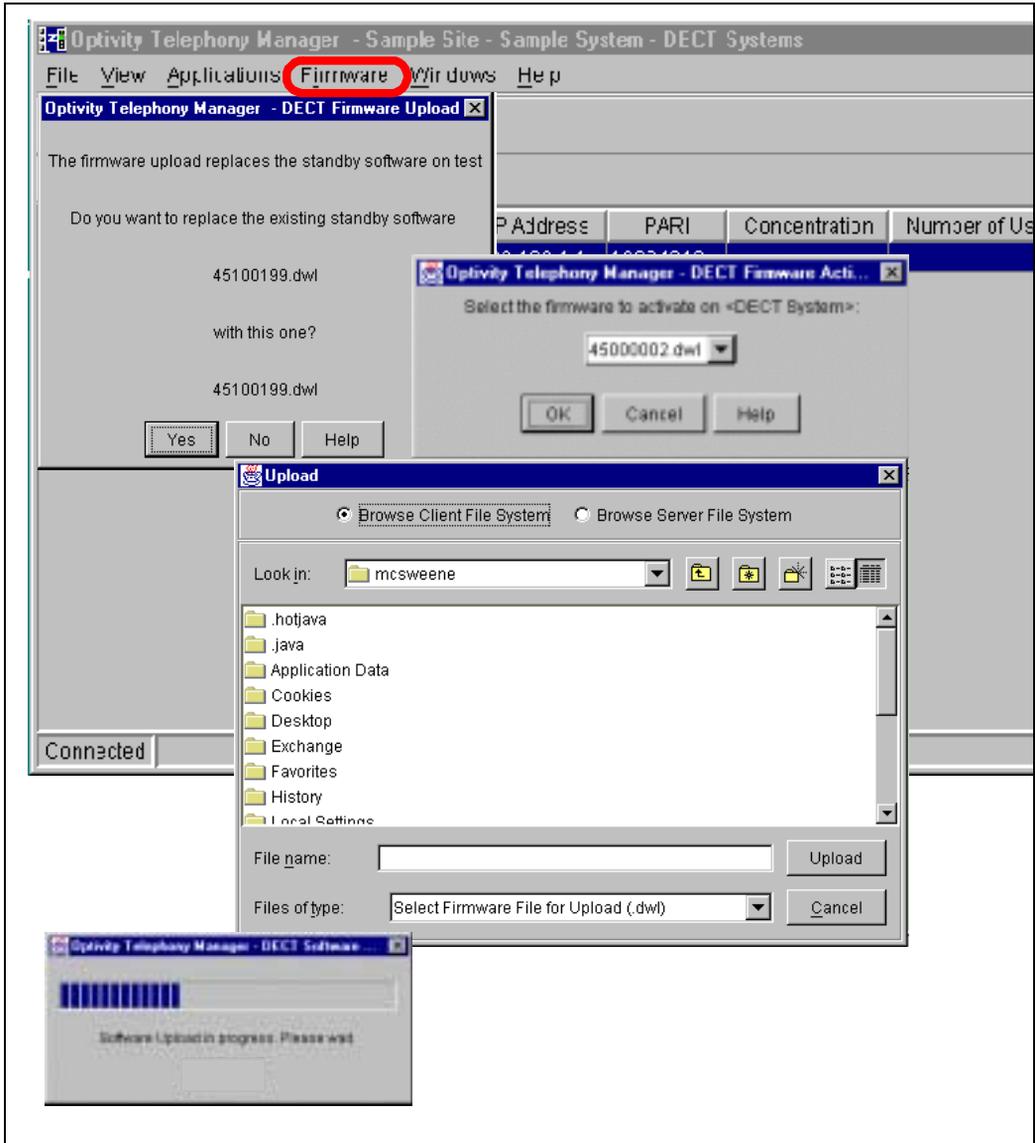
Table 93 Firmware upload and activation

Step	Action
1	Using Windows, Login to OTM, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window.
	Follow the instructions on, page 19 to page 27.
2	Open the Firmware upload dialog.
	Select the **Firmware** pull-down menu, and click on **Upload**.
	END

Recover from a Firmware upload failure

It is possible to upload DMC firmware with the V.24 port of a DMC8 using a PC equipped with Z-modem protocol. During the upload the DMC8 deletes the active and standby firmware and stores the uploaded firmware as the active firmware. When the upload completes, the boot program starts the uploaded firmware.

Figure 84: Recovery upload to a DMC8
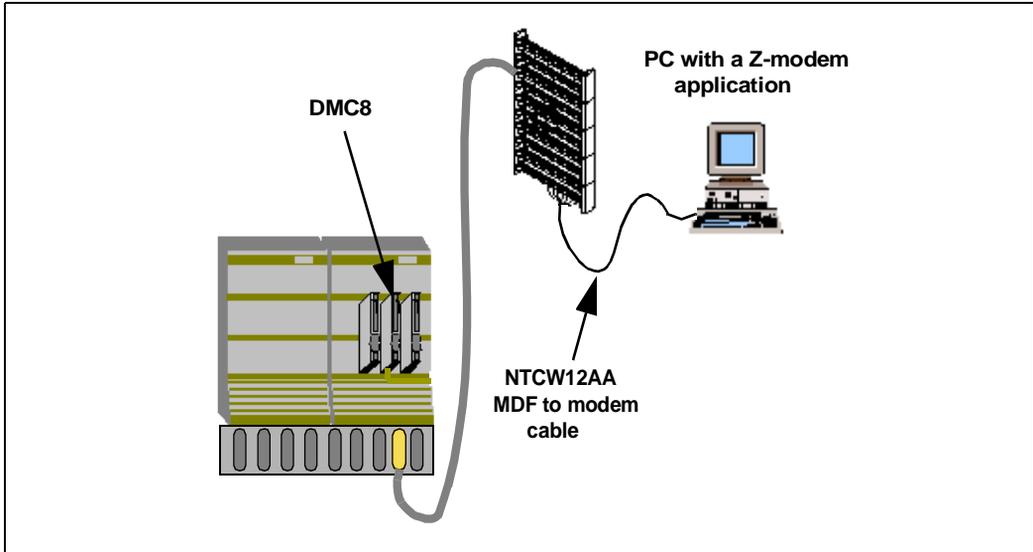
Table 94 Firmware upload and activation

Step	Action
1	Configure the COM port settings.
	baud rate = 19200 data bits = 8 parity = no parity stop bit = no flow control
2	Connect the NTCW12AA cable to the DMC8 to be uploaded.
	Refer to Table 95 on page 179 for the NTCW12AA cable tip and ring connections.
3	Locate the OTM server COM port.
	Connect the NTCW12AA cable connector into the PC COM port.
4	Unseat the DMC8.
	Disconnect the DMC8 from the shelf backplane.
5	Access Z-modem application.(example, Windows HyperTerminal)
	Start > **Programs** > **Accessories** > **HyperTerminal**.
6	Initiate the file transfer.
	Start the Z-modem application on the PC.
7	Activate the boot program.
	Insert the DMC8 into the shelf backplane.

NOTE
The BIX tip and ring connections shown in Table 95 on page 179 correspond to standard BIX designation. The first pair are labeled T0 and R0. (See the *Installation and Maintenance NTP*, section *Planning and Designating the MDF*.)

Table 95 NTCW12AA cable to MDF connections

DMC8 Relay card MDF connection	Cable color	DB25 connector pin number	Signal designator
T1	Grey	8	V.24DCD
R2	Yellow	4	V.24RTS
T3	Blue	2	V.24TXD
R3	Red	3	V.24RXD
T4	Pink	7	V.24GND

Current RSSI Data

The Radio Signal Strength Indication (RSSI) shows interference and usage by a certain base station. A snapshot of the RSSI data is retrieved and stored in a file when the user requests it. If the file already existed, the new snapshot data is appended to the last snapshot data in the file.

Figure 85:
Retrieve Current RSSI dialog, and Retrieve Current RSSI maps dialog
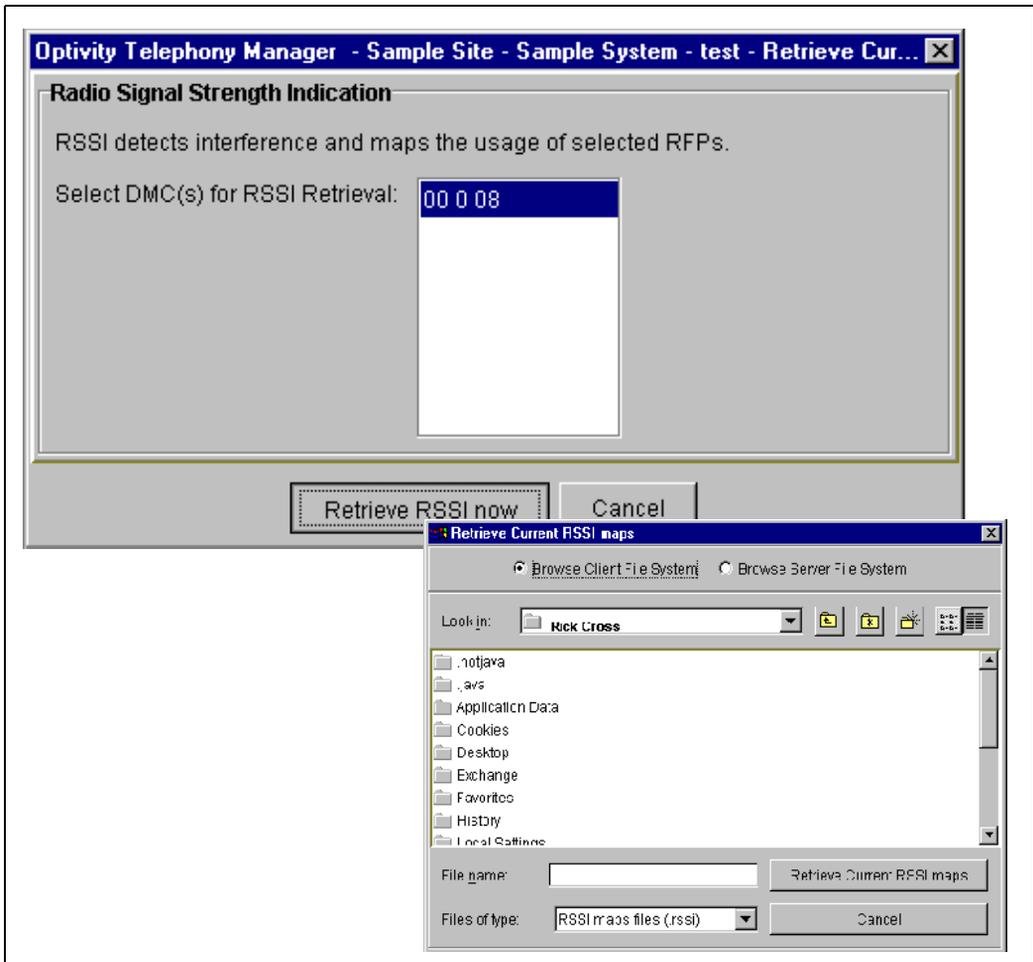
Table 96 Current RSSI Data

Step	Action
1	Using Windows, Login to OTM, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window, and open the Current RSSI Data window.
	Follow the instructions on, page 19 to page 27.
2	Select a DMC8 or DMC8s for RSSI information retrieval.
	Scroll and highlight a TN in the **Select DMC(s) for RSSI Retrieval:** box.
3	Retrieve the RSSI data.
	Click on the **Retrieve RSSI now** button.
4	Store the RSSI data.
	Select a file location.

END

RSSI file format

The data for each RFP is a nibble for indication of the RSSI value for each slot (24) for each carrier (10). This results in 10 (number of carriers) times 24 (number of slots) nibbles equal to 240 nibbles (120 octets).

Table 97 RSSI file format

```
--------------------------------------------------------------------------------------------------------------------------------------------------------
--------------------------------------------------------------------------------

Wed Apr 18 16:00:42 CEST 2001
--------------------------------------------------------------------------------------------------------------------------------------------------------
--------------------------------------------------------------------------------

DMC TN :  48 1 07

RFP 1 :
0F0F0FFF0FFF0F0F0FFF0FFF0F0F0FFF0FFF0F0F0FFF0FFF0F0F0FFF0FFF5F0F0FFF0FFF0F0F0FFF0FFF0F0F0FFF0FFF0F3F5FFF5FF
F0F0F0FFF0FFF0F1F0FFF0FFF0F0F0FFF0FFF0F0F0F0F0F1F0F0F0F0F0F0F0F0F0FFF0FFF0F0F0FFF0FFF0F0F0FFF0FFF0F0F0FFF0F
FF0F0F0FFF0FFF0F0F0FFF0FFF

RFP 2 :
F0FFF0F0F0FFF0FFF4F0F0FFF0FFF0F0F0FFF0FFF8F0F0FFF0FFF0F0F0F0FFF3F0F0F0F0FFF0F0F0FFF0FFF0F0F0FFF0F0F0F0F0F0F
FF0F0F0F0F0FFF0FFF0F0F0FFF0FFF0F0F0FFF0FFF3F5F5FFF0FFF0F0F0FFF0FFF0F0F0FFF0FFF0F0F0FFF0FFF0F0F0FFF0FFF0F0F0
FFF0FFF0F0F0FFF0FFF0F0F0FF
```

Start/stop User Performance Collection, Equipment Performance Collection

Figure 86: Performance Collection window and Select location dialog
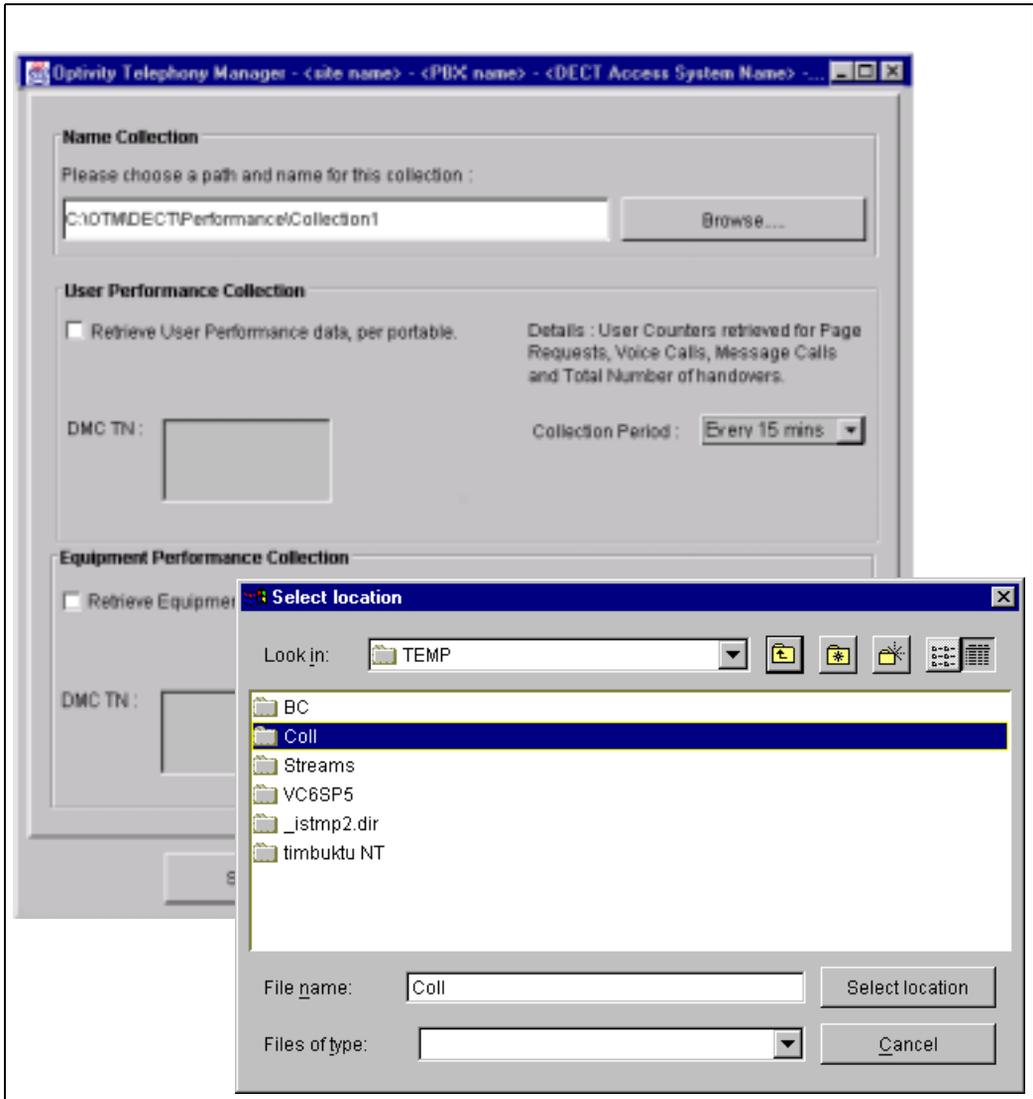
⚠ **CAUTION: Service interruption**
You must check to ensure the Performance Collection is not filling all OTM server storage space.

Table 98 Start/stop User Performance Collection, Equipment Performance Collection

Step	Action
1	Using Windows, Login to OTM, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window, and open the Performance Collection window.
	Follow the instructions on, .
2	Select a collection name.
	Enter a name or browse for a collection name.
3	Select the check box, User Performance Collection or Equipment Performance Collection, or both.
	Click on the check box.
4	Select a collection period. **Note:** The User Performance Collection period and the Equipment Performance Collection period are independent of each other.
	Highlight a time from the **Collection Period** box.
5	Select a DMC8.
	Highlight a TN from the **DMC TN** box.
6	Start the collection.
	Click the **Start** button.
7	Stop the collection.
	Click the **Stop** button.
	END

Equipment Performance Collection

Equipment Performance Collection file format

File name: (for example) epm-brdPP_YYYYMMDDHHMMSS.xml, epm-brd24_20010418170920.xml.

DTD Document Type Definition: <<Epm.zip>>

Counter description (in the DTD order)

See

Board (DMC8) statistical performance data

Table 99
Board statistical performance data

Counter	Description
1	Indicators, not used.
2	Number of dropped calls.
3	Number of page failures.
4	Number of page retries.
5	Number of page requests.
6	Number of page rejects.
7	Number of voice calls.
8	Number of message calls
9	Number of dropped voice calls.
10	Number of dropped message calls.
11	Number of dropped voice calls in active phase.
12	Number of dropped message calls in active phase.
13	Number of dropped voice calls in passive phase.
14	Number of dropped message calls in passive phase.
15	Number of successful supplementary service calls.
16	Number of supplementary service calls with no response.

Counter	Description
17	Number of supplementary service call rejects.
18	Number of slip events on BBC highway A.
19	Number of slip events on BBC highway B.
20	Number of DECT clock errors.

RFP (base station) statistical performance data

Table 100
RFP statistical performance data

Counter	Description
1	Indicators: 1 = 6 Channel RFP, 2 = 12 Channel RFP, 3 = Unknown
2	Number of times BMC overrun occurred
3	Number of times TBC established
4	Number of NT Handshake failures
5	Current radio head error code. **See Radio Head Errors table below.**
6	Number of units of 100 ms since last radio head error
7	Bit counter pre-set (the measured RFP cable delay in DECT bits)
8	Number of times dummy bearer 0 was set-up
9	Number of times dummy bearer 1 was set-up
10	Number of times dummy bearer 0 was replaced
11	Number of times dummy bearer 1 was replaced
12	Number of frames with corrupted A fields (R-CRC check failed)
13	Number of frames with corrupted B-fields (X-CRC check failed)
14	Number of bad syncs
15	Number of muted frames
16	Total duration of calls using this RFP in units of 10 ms
Radio Head Errors	

Counter	Description
17	Number of times Local Receiver Signal Missing.
18	Number of times Local Loss Receiver Slot Sync.
19	Number of times Local Loss Receiver Frame Sync.
20	Number of times Local Bit Error Rate Bad.
21	Number of times Remote Receiver Signal Missing.
22	Number of times Remote Loss Receiver Slot Sync.
23	Number of times Remote Loss Receiver Frame Sync.
24	Number of times Remote Bit Error Rate Bad.
25	Number of times Synthesizer Out Of Sync.
26	Number of times Power Amp Out Of Order.
27	Number of times Round Trip Delay Changed.
28	Number of times RFP Synthesizer Type Changed.
29	Number of times LFC Out Of Sync With BMC.
30	Number of times Error Due To Sync Port Mutation.

RFP (base station) Error Codes

Error codes are shown in decimal and in (hexadecimal).

Table 101
RFP Error codes

Error code	Description
1 (0x01)	Local Receiver Signal Missing.
2 (0x02)	Local Loss of Receiver Slot Sync.
3 (0x03)	Local Loss of Receiver Frame Sync.
4 (0x04)	Local Bit Error Rate Bad.
5 (0x05)	Remote Receiver Signal Missing.

Error code	Description
6 (0x06)	Remote Loss of Receiver Slot Sync.
7 (0x07)	Remote Loss of Receiver Frame Sync.
8 (0x08)	Remote Bit Error Rate Bad.
9 (0x09)	Synthesizer Out Of Sync.
10 (0x0A)	Power Amp Out Of Order.
11 (0x0B)	Round Trip Delay Changed.
12 (0x0C)	RFP Synthesizer Type Changed.
13 (0x0D)	LFC Out Of Sync With BMC.
14 (0x0E)	Error Due To Sync Port Mutation.
255 (0x0FF)	No Error.

RFP-Channel occupation performance data

The thirteen RFP-channel occupation counters give the number of seconds that n RFP channels were free (n = 0 - 12).

Backbone-Channel occupation statistical performance data

The thirty three Backbone-channel occupation counters give the number of seconds that n backbone channels were free (n = 0 - 32).

Speech-Channel occupation statistical performance data

The thirty three Speech-channel occupation counters give the number of seconds that n speech channels were free (n = 0 - 32).

User Performance Collection

User Performance Collection file format

File name: upm-brdPP_YYYYMMDDHHMMSS.xml,
upm-brd24_20010418170924.xml for instance

DTD Document Type Definition: <<Upm.zip>>

Statistical Performance Data

Table 102
Statistical Performance Data

Counter	Description
1	Indicators, not used.
2	Number of page failures.
3	Number of page retries.
4	Number of page requests.
5	Number of page rejects.
6	Number of voice calls.
7	Number of message calls.
8	Number of voice calls, dropped in passive state.
9	Number of voice calls, dropped in active state.
10	Number of message calls, dropped in passive state.
11	Number of message calls, dropped in active state.
12	Number of handovers.
13	Number of failed handovers.
14	Number of aborted handovers.
15	Number of delayed handovers.
16	Current Circuit Number (0xFF, if none).

Set parameters

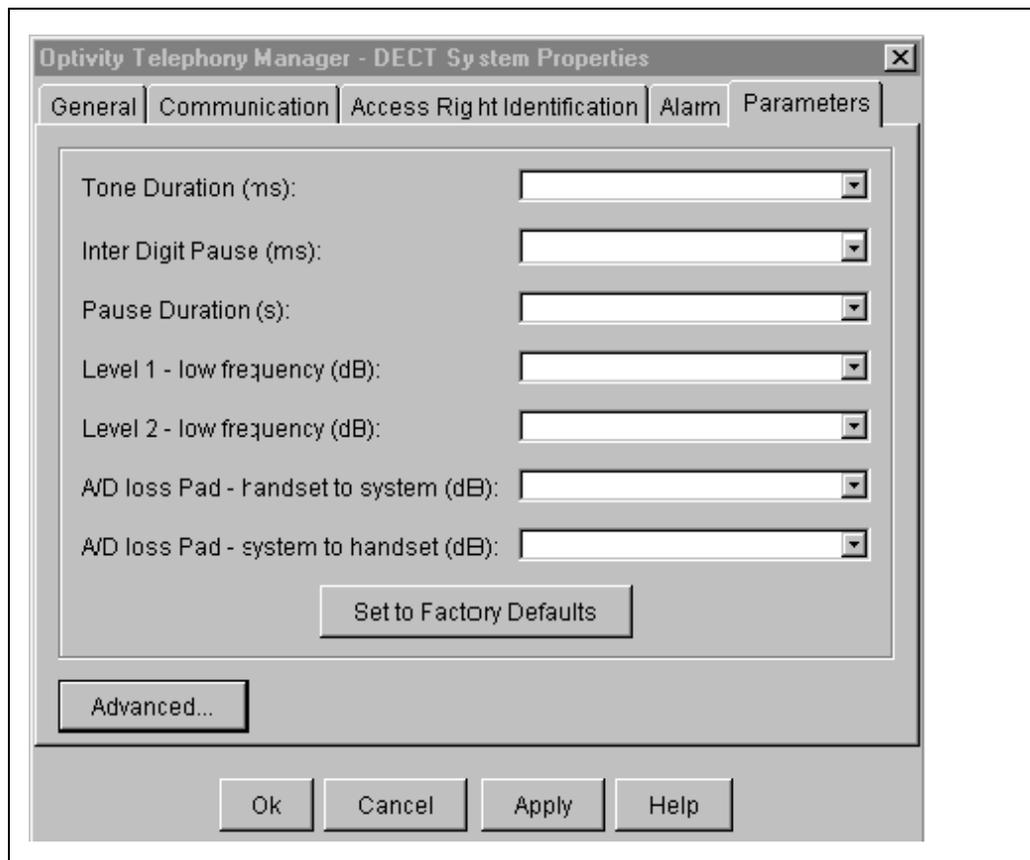**Figure 87: DECT System Properties - Parameters tab**

Table 103 Set parameters

Step	Action
1	Using Windows, Login to OTM, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window, open the Properties dialog, and click on the Parameters tab.
	Follow the instructions on, page 19 to page 27.
2	Select the parameter.
	Select a pull-down menu item, and click on **Apply**.

Password recovery

The MDECT System password can be changed by a customer and the distributor managing the system would not know the changed password. The password could be damaged in the OTM database by a disk crash, and not backed up, or the password can be forgotten. You cannot access passwords from the OTM.

The OTM provides a mechanism allowing you to reset the password to the factory password. You can change the password in the MDECT system and the OTM DECT database, or in the OTM DECT database only.

Figure 88:
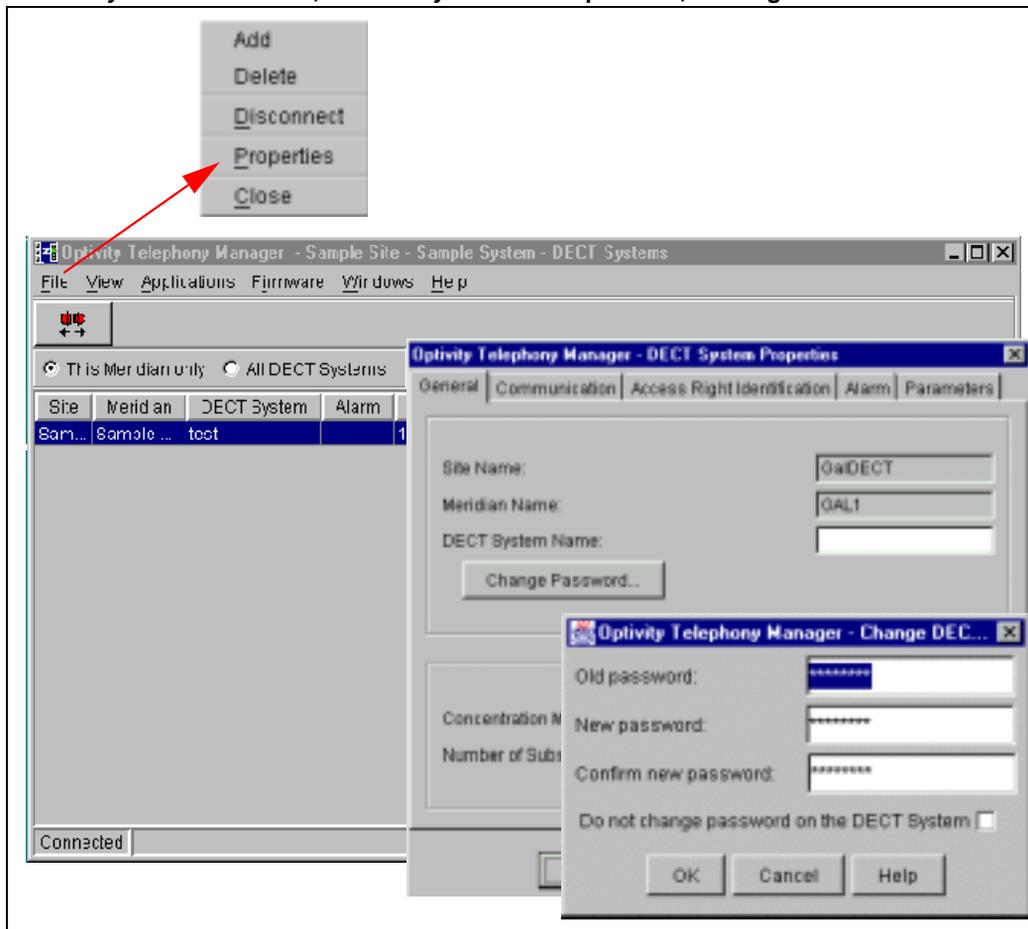**DECT Systems window, DECT Systems Properties, Change DECT Password**

Table 104 Password recovery

Step	Action
1	Using Windows, Login to OTM, select the Meridian 1 that supports the MDECT system, launch the DECT application, open the DECT Systems window, open the Properties dialog, and click on the General tab.
	Follow the instructions on, page 19 to page 21.
2	Select password change.
	Click on **Change Password**.
3	Change to the factory default password. **Note:** The default is case sensitive.
	Type **Arsenal** in the **New password** box.
4	Confirm the password.
	Type **Arsenal** in the **Confirm new password** box.
5	Set up for a password change the on the MDECT system.
	Remove the DMC8 Relay card, and reinsert the DMC8 Relay card.
6	Connect to the MDECT system *within five minutes*.
	From the **Applications** pull-down menu click on **Connect** or the (green) icon.
	END

Appendix 1: Performance Collection file samples

Equipment Performance Collection file sample

```xml
<?xml version="1.0"?>
<file>
<header>
<systeminfo PARI="44446666"/>
<boardinfo boardnumber="24"/>
<package package_id="45100105"/>
</header>
<data>
<boardstat>
<dateandtime>2001,1,12,18,17,37,0</dateandtime>
<counters>0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0</counters>
</boardstat>
<rfpinfo>
<rfpstat rfp="1">
<dateandtime>2001,1,24,19,50,9,0</dateandtime>
<counters>1,0,0,0,8,420,0,1,1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,1,0,0,0,0,0,
0</counters>
</rfpstat>
<rfpstat rfp="2">
<dateandtime>2001,1,24,19,50,13,0</dateandtime>
<counters>1,0,0,0,8,420,0,1,1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,1,0,0,0,0,0,
0</counters>
</rfpstat>
<rfpstat rfp="3">
```

```
<dateandtime>2001,1,24,19,50,13,0</dateandtime>
<counters>0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0</
counters>
</rfpstat>
<rfpstat rfp="4">
<dateandtime>2001,1,24,19,50,19,0</dateandtime>
<counters>0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0</
counters>
</rfpstat>
</rfpinfo>
<rfpchanocc>
<rfpchocc rfp="1">
<dateandtime>2001,1,12,18,17,37,0</dateandtime>
<choc>0,0,0,0,0,0,0,0,0,0,0,0,0</choc>
</rfpchocc>
<rfpchocc rfp="2">
<dateandtime>2001,1,12,18,17,37,0</dateandtime>
<choc>0,0,0,0,0,0,0,0,0,0,0,0,0</choc>
</rfpchocc>
<rfpchocc rfp="3">
<dateandtime>2001,1,24,19,50,6,0</dateandtime>
<choc>0,0,0,0,0,0,0,0,0,0,0,0,0</choc>
</rfpchocc>
<rfpchocc rfp="4">
<dateandtime>2001,1,24,19,50,6,0</dateandtime>
<choc>0,0,0,0,0,0,0,0,0,0,0,0,0</choc>
</rfpchocc>
</rfpchanocc>
<bschanocc>
<bchanocc>
<dateandtime>2001,1,24,19,50,6,0</dateandtime>
<choc>0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,4
34</choc>
</bchanocc>
<schanocc>
<dateandtime>2001,1,24,19,50,6,0</dateandtime>
<choc>0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,4
34</choc>
</schanocc>
```

```
</bschanocc>
</data>
</file>
```

User Performance Collection file sample

```
<?xml version="1.0"?>
<file>
<header>
<systeminfo PARI="44446666"/>
<boardinfo boardnumber="24"/>
<package package_id="45100105"/>
</header>
<data>
<ppstat RecNum="2">
<dateandtime>2001,1,12,18,17,37,0</dateandtime>
<ipui>40110000E5A97B7F84</ipui>
<dnr>20801</dnr>
<counters>0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,255</counters>
</ppstat>
</data>
</file>
```

Meridian/Succession Companion DECT

Operation Administration and Maintenance

CE

NØRTEL NETWORKS

Internet address
http://www.nortelnetworks.com