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Meridian 1 and Succession Communication Server for Enterprise 1000

# DECT

## Operation Administration and Maintenance

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## Revision history

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### September 2002

Standard, Release 5.00. Up-issued to reflect support for Succession Communication Server for Enterprise (CSE) 1000, and for changes in technical content.

### 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.

### 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*.



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## About this guide

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This document is a global document. Contact your system supplier or your Nortel Networks representative to verify that the hardware and software described are supported in your area.

### Target audience

The DECT OA&M guide provides information for planners, installers, site maintenance personnel, and administrators. It contains administration programs and maintenance information about the DECT 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 advises of a procedure that can result in a loss of data.



**CAUTION: Electrostatic sensitive device**

This symbol advises of a procedure that can result in equipment damage due to ElectroStatic Discharge (ESD).



**DANGER: Electric shock**

This symbol advises of the risk of a serious injury, or death, caused by an electric shock.



**DANGER: Serious injury**

This symbol advises of the risk of a serious injury, or death, caused by an immediate hazard.

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# OA&M Introduction

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## Reference list

The following are the references in this section:

- *Using Optivity Telephony Manager (553-3001-330)*

## Optivity Telephony Manager DECT Application

The Optivity Telephony Manager (OTM) provides a single point of access and control for managing various Meridian 1 and Succession CSE 1000 applications.

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

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

### DECT Application features

The DECT Application provides the following DECT managing features and allows a user to:

- launch the Application from OTM using Windows navigators and web navigators
- view the DECT 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 DECT system configuration when the OTM connects to the DECT 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 the following:
  - a web-based alarm browser used to view alarms, past alarms and occurring alarms
  - a Windows-based alarm browser used to view only those alarms that occur while the browser is open
  - an Alarm Notification application that signals an alarm occurrence by pager or E-mail, and can forward the alarm to an upstream processor
  - a PC Event log and Viewer used to view events and alarms generated from the DECT Application in a report layout.
- Backup and restore makes a OTM backup file of the DECT application data.
- User profiles enable configuration of different types of DECT users.
- On-line help provides help for common service features.

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

## OTM navigators

There are two navigators used with the DECT application to manage a DECT 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 a DECT system is managed at an OTM server.

A web-based navigator must be used if a DECT system is managed 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 do the following:

- define DECT 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 DECT 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 DECT system
- DECT system names
- DECT Concentration mode
- DECT 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:

- DECT system connectivity
- DECT system connection control
- Read data from a DECT system on demand
- Define handsets with the overlays in the OTM database
- Define handsets in the DECT 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
- DECT system data synchronization with the DECT Manager database
- performance
- PC Event Log

**Security features**

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



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# DECT system administration

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The following are the references in this section:

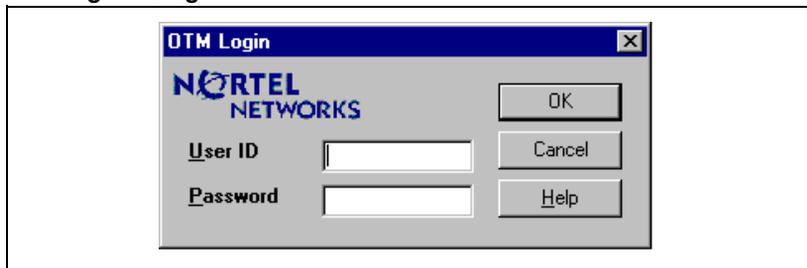
- *Using Optivity Telephony Manager (553-3001-330)*
- *Option 11C Customer Controlled Backup and Restore (CCBR) (553-3011-330)*
- *DECT Overview (553-3601-103)*
- *DECT Programming and Provisioning Record (553-3601-250)*

## Windows access to the DECT application

For access from a web-based browser, see “Web-based browser access to the DECT application” on page 24.

### Login to the OTM

**Figure 1**  
OTM login dialog box



Complete the following steps.

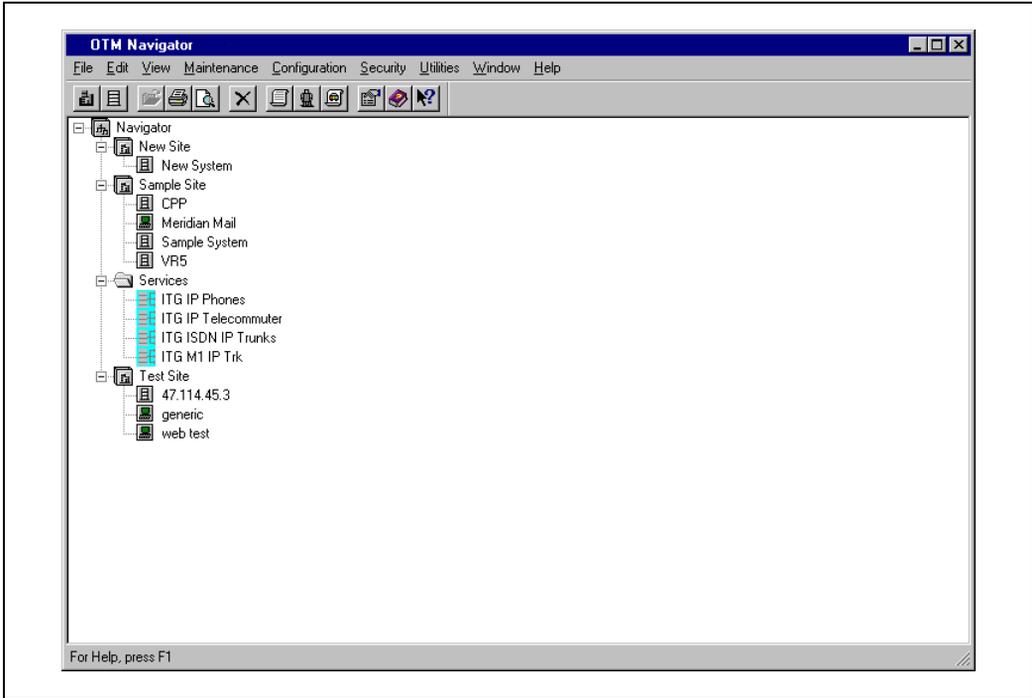
**Table 1**  
**Login to the OTM**

<b>Step</b>	<b>Action</b>
1	Access the OTM Login dialog box.
	Click on <b>Start&gt;Programs&gt;OTM</b> .
2	Login.
	Enter <b>User ID, Password</b> , and click <b>OK</b> .



## Select the Meridian 1 PBX that supports the DECT system

**Figure 2**  
OTM Navigator window



Complete the following step.

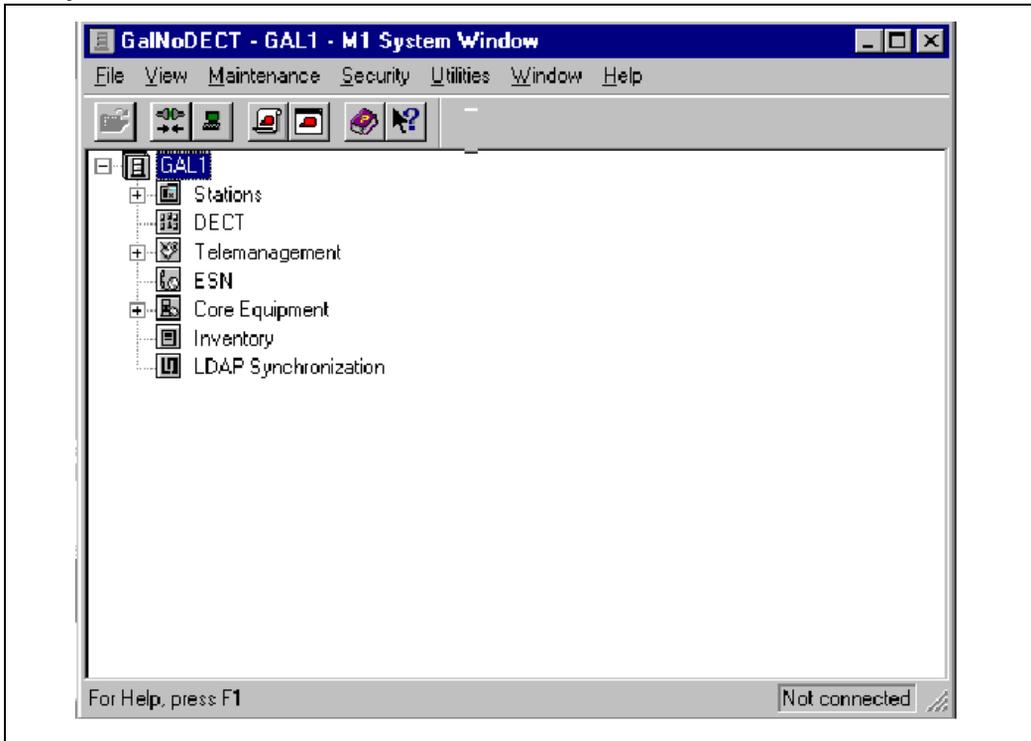
**Table 2**  
Select the Meridian 1 PBX that supports the DECT system

Step	Action
1	Select the Meridian 1 system. Double click on XXX (shown as <b>Sample System</b> in Figure 2).



## Launch the DECT Application

**Figure 3**  
**M 1 System Window**



Complete the following step.

**Table 3**  
**Launch the DECT application**

Step	Action
1	Launch the DECT application.
	Double click on <b>DECT</b> , or pull-down <b>File</b> menu and click <b>DECT</b> .



## Web-based browser access to the DECT application

For more detailed information on web-based browsers, see *Using Optivity Telephony Manager (553-3001-330)*.

### MS Internet Explorer and VeriSign Digital Certificates

If using Internet Explorer as a web browser on Windows NT4 Server, Windows NT4 Workstation or Windows 9x platforms, it is necessary to import the Verisign Class 3 certification into the client authentication repository.

The Verisign certificates must have the same characteristics, including expiration date. The certificates are used to sign the OTM DECT applet. The Verisign certificates must be in the Internet Explorer certificate store so that the Java Plug-in 1.2.2 can recognize the OTM DECT certificate.

If the OTM DECT certificate is not recognized, the system generates a **Fatal navigational error**.

To install the certificates, perform the following steps:

- 1 Using the web browser, follow the steps in Table 5 on page 25 to log on to the OTM server.
- 2 Ensure that the JRE (Java) version is the same (minimum JRE 1.2.2\_006). To do this, at a command prompt on both the client and server side, enter  

```
java -version
```
- 3 At the web client PC use the web browser to go to the following URL:  
**http://server\_name/omdect/VeriSignCertificates.html**
- 4 Click the VeriSign Class 3 certificates link.  
A screen appears, asking if the VeriSignClass3CA.p7b file is to be saved, and where to save it.
- 5 Save that file to the local PC being used.
- 6 Right-click on the file. From the pop-up menu that appears, select **Install Certificate** to import the certificate.
- 7 An Installation Wizard appears. Click **Next** until installation is complete.

- 8 Connect to the OTM server using the Web Client, and log in. Launch OTM DECT for normal access.

*Note:* This procedure applies only to Internet Explorer web browsers. It is not applicable to Netscape.

## Open the Web Administrator Login

**Table 4**  
**Internet Explorer and Netscape Communicator**



Complete the following steps.

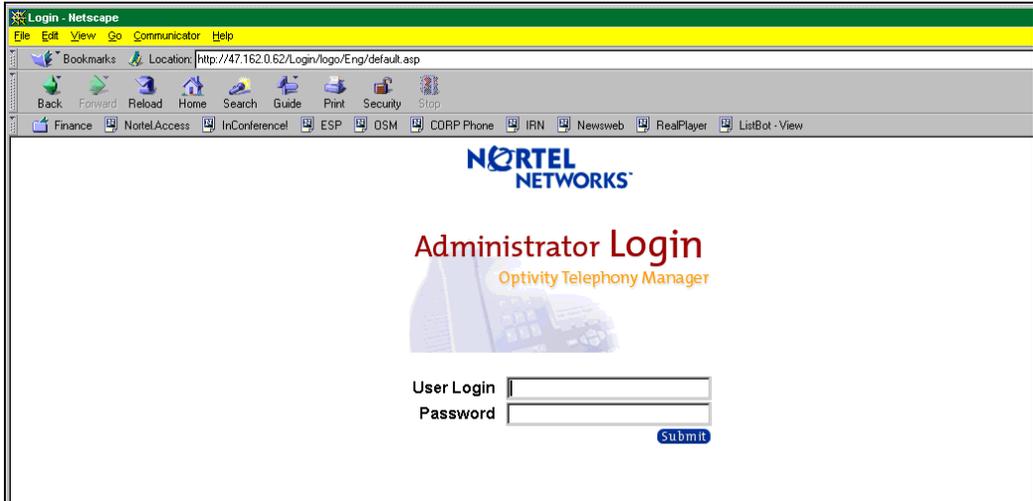
**Table 5**  
**Open the Administrator Login**

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 <b>http://&lt;otm_server_name&gt;/admin</b> or use the <b>ip_ address</b> .



## Web Administrator Login

**Figure 4**  
OTM web Administrator Login



Complete the following steps.

**Table 6**  
Open the OTM web Administrator Login

Step	Action
1	Select the Administrator Login. Click on the applet launch logo.
2	Login. Enter <b>User Login</b> , <b>Password</b> , and click <b>Submit</b> .



## Open the Web current Status

Figure 5  
OTM web navigator current Status

The screenshot shows the OTM web navigator interface. The browser title is 'Optivity Telephony Manager - Netscape'. The address bar shows the URL: <http://47.162.0.62/0mNavigator/MenuNavigator/Eng/default.asp?SessionID=46f83c1-02a1-11d5-8230-00c04fc1ff8a>. The page header includes 'NORTEL NETWORKS' and 'Administrator' with 'Home', 'Logout', and 'Help' buttons. The main content area is titled 'current Status' and features a table with the following data:

OTM Status Report	
Description	Current Status
OTM Release Version:	1.10.23
Last login:	2/14/01 6:51:11 PM
<b>OTM Server Applications:</b>	
Data Buffering And Access:	Started
DECT JVM:	Started
OTM Event Service:	Started
OTM Remote:	Started
System Sanity:	Started
Terminal Server:	Started
Trap Master:	Started
Trap Server:	Started
Number of logged in users:	15

A 'Refresh' button is located below the table.

Complete the following step.

Table 7  
Open the current Status

Step	Action
1	Open System Navigator screen.
	Click on <b>System Navigator</b> in the <b>Equipment</b> list on the left.





Complete the following steps.

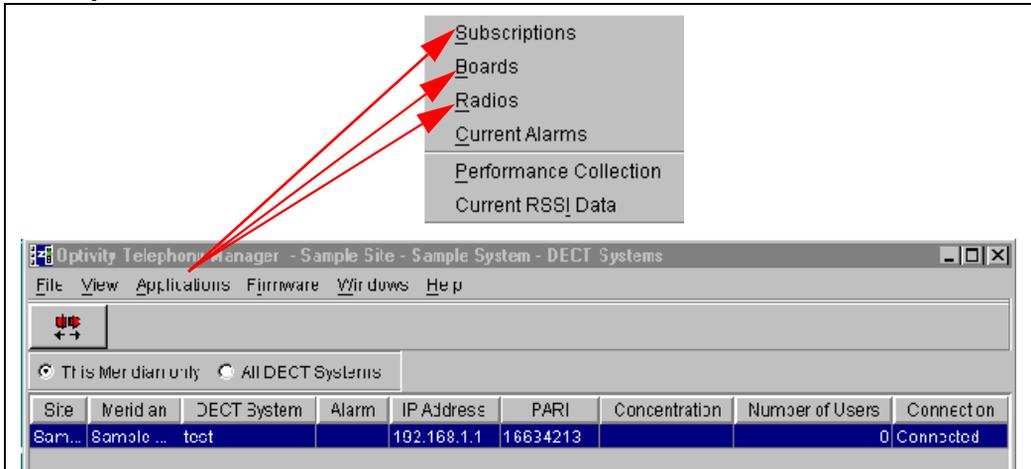
**Table 8**  
Open the web System navigator

Step	Action
1	Select a DECT system.
	Highlight a system in the <b>Systems</b> list.
2	Open the DECT systems window.
	Click on <b>OTM DECT</b> in the grey box on the left.



## 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 a DECT system.
	Highlight a system from the list.
2	Open one of the following from the DECT Systems window: <ul style="list-style-type: none"> <li>• Subscriptions window</li> <li>• Boards (DMC) window</li> <li>• Radios (base station) window</li> </ul>
	Click on the appropriate entry in the <b>Applications</b> pull-down menu.



## Connection to a DECT system

Complete the following steps.

**Table 10**  
Connection to a DECT system (Part 1 of 2)

Step	Action
1	Select a DECT system from the DECT Systems window list.
	Highlight a DECT system.
2	Perform one of the following actions from the DECT Systems window: <ol style="list-style-type: none"> <li>1 connect to a DECT System</li> <li>2 disconnect from a DECT System</li> <li>3 lock a connection to a DECT System</li> <li>4 unlock a connection from a DECT System</li> </ol>

**Table 10**  
**Connection to a DECT system (Part 2 of 2)**

Step	Action
	From the <b>Applications</b> pull-down menu click on the following items, or click on the following icon:
1	<b>Connect</b> or  (green)
2	<b>Disconnect</b> or  (yellow)
3	<b>Lock</b> or  (red)
4	<b>Unlock</b> or  (yellow)
	<b>Note:</b> See DECT Systems window in <i>DECT Overview</i> (553-3601-103) for a description of connections.

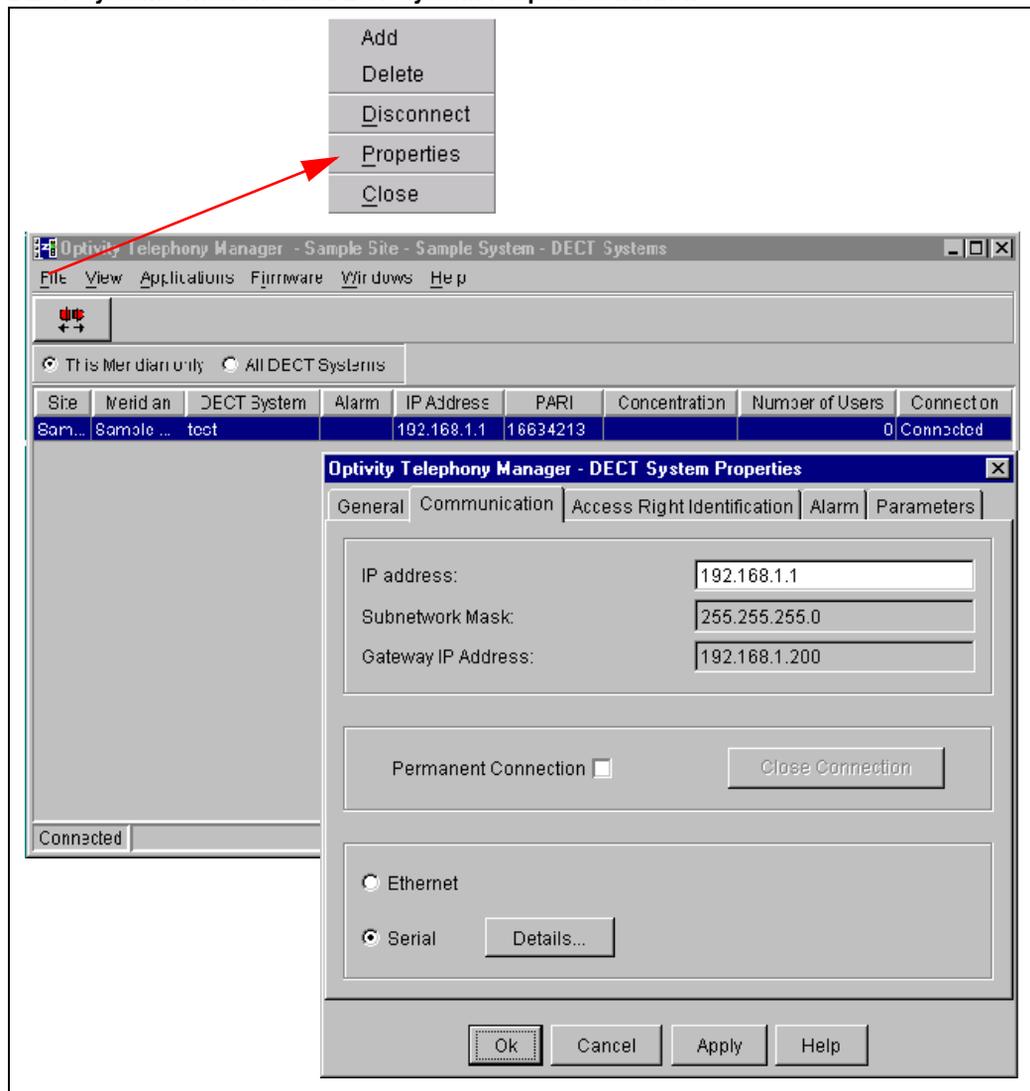


**Note:** While the Connection status is **Connecting** or **Disconnecting**, the Connect/Disconnect tool is disabled. The status bar shows the connection progress.

## Permanent connection to a DECT system

Figure 8

DECT Systems window and DECT System Properties window



Complete the following steps.

**Table 11**  
**Permanent connection to a DECT system**

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



## Add DECT systems

### Add new site properties

Figure 9  
New Site Properties

**New Site Properties**

General

**Site Name**                      **Short Name**

Second Site                      S2                      Add System...

Site Location

Address

2305 Mission College Blvd.

City                      State/Province

Santa Clara                      CA

Country                      Zip/Postal Code

USA                      95052

Contact Information

Name

Administrator

Phone Number                      Job Title

555-1212                      System Admin.

Comments

OK                      Cancel                      Apply                      Help

Complete the following steps:

**Table 12**  
**Add New Site Properties**

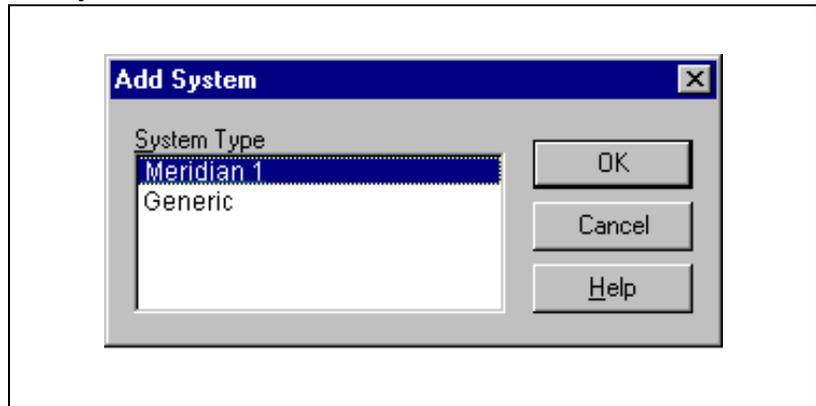
<b>Step</b>	<b>Action</b>
<b>1</b>	Open the New Site Properties window.
	In the OTM Windows Navigator, choose <b>Add Site</b> from the <b>Configuration</b> menu.
<b>2</b>	The <b>Site Name</b> appears in the Navigator tree. The Short Name is an abbreviated site name that displays in the Alarm Banner.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



## Add the Meridian 1 PBX on the OTM server

As many systems (including non-Meridian 1 systems) as the license permits can be added to a site. Administrator privileges are required to add a system.

**Figure 10**  
**Add System**



Complete the following steps:

**Table 13**  
**Add the Meridian 1 PBX on the OTM server (Part 1 of 2)**

Step	Action
1	In the Navigator window, select the site.
	If adding a new system from within the New Site Properties window, go to step 3 in this procedure.
2	Open the Add System dialog.
	Choose <b>Add System</b> from the <b>Configuration</b> menu or the right mouse button pop-up menu.

**Table 13**  
**Add the Meridian 1 PBX on the OTM server (Part 2 of 2)**

<b>Step</b>	<b>Action</b>
3	Program the Add System dialog box. It might be necessary to install additional software to enable other system types not listed here. Follow the installation instructions included with the order.
	Select the system type, and then click <b>OK</b> .



## Add the Meridian 1 PBX properties – general tab

Figure 11  
New System Properties – General tab

The screenshot shows a dialog box titled "New System Properties" with a close button (X) in the top right corner. The dialog has five tabs: "General" (selected), "Communications", "System Data", "Applications", and "Customers".

The "General" tab contains the following fields and options:

- System Name**: A text input field.
- Short Name**: A text input field.
- System Type**: A dropdown menu with "Meridian 1" selected.
- System Location**: A section header with a checkbox labeled "Same as Site".
- Address**: A text input field.
- City**: A text input field.
- State/Province**: A text input field.
- Country**: A text input field.
- Zip/Postal Code**: A text input field.
- Contact Information**: A section header with a checkbox labeled "Same as Site".
- Name**: A text input field.
- Phone Number**: A text input field.
- Job Title**: A text input field.
- Comments**: A large text area.

At the bottom of the dialog are four buttons: "OK", "Cancel", "Apply", and "Help".

Complete the following steps:

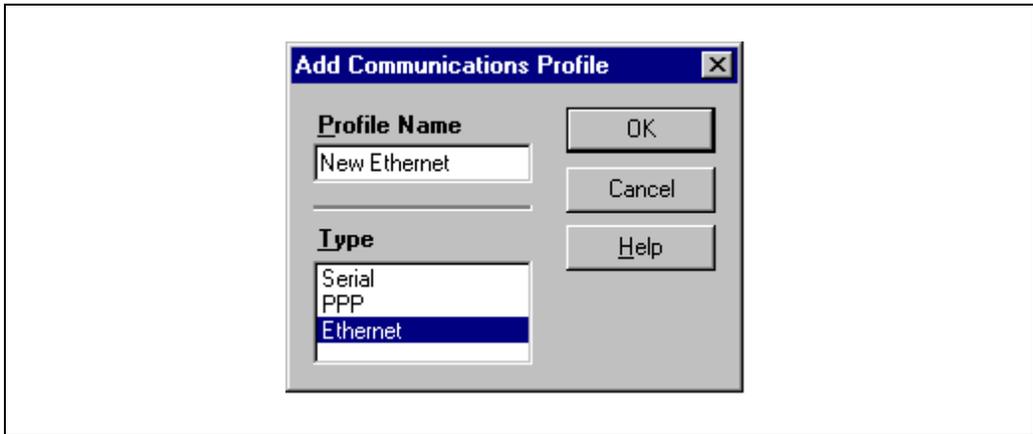
**Table 14**  
**Add the Meridian 1 PBX properties – General**

<b>Step</b>	<b>Action</b>
<b>1</b>	Select the <b>General</b> tab.
	Click the <b>System Properties – General</b> tab.
<b>2</b>	Program the <b>System Name</b> and <b>Short Name</b> (required fields), and other information as needed.
	Enter the <b>System Name</b> and <b>Short Name</b> .
<b>3</b>	<b>System Location</b> and <b>Contact Information</b> can be the same as site information.
	Click the <b>Same as Site</b> checkbox.
<b>4</b>	Accept changes.
	Click the <b>OK</b> 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 (Part 1 of 2)**

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

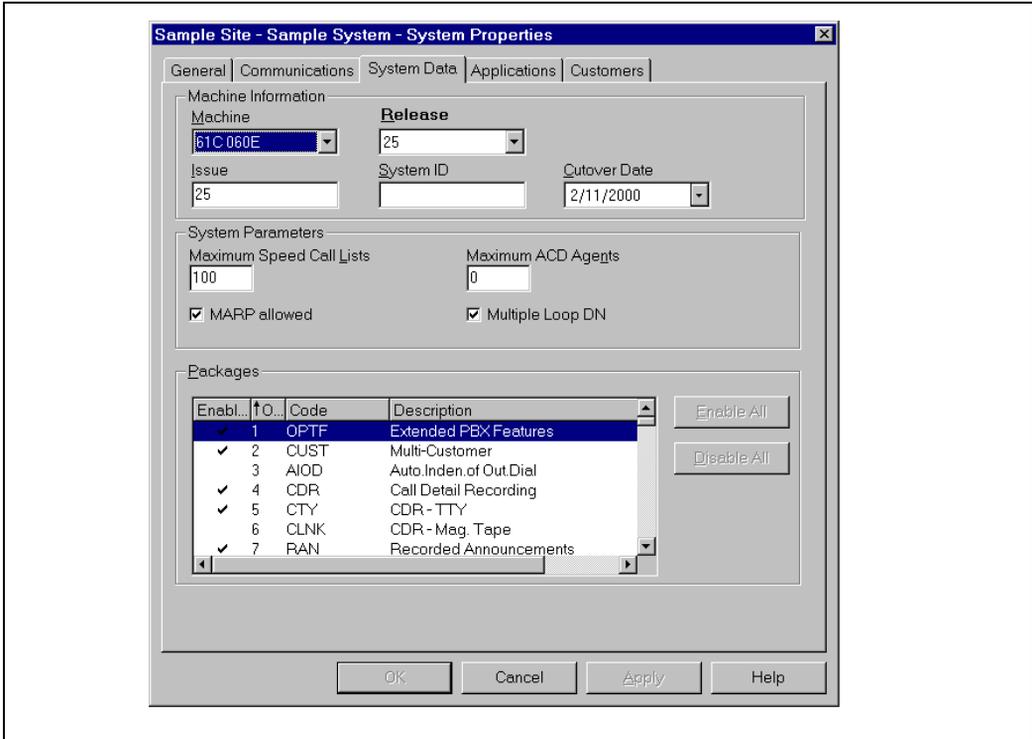
**Table 15**  
**Add new Meridian 1 PBX Communications Profile (Part 2 of 2)**

<b>Step</b>	<b>Action</b>
	Highlight <b>Ethernet</b> in the <b>Type</b> box. <b>Note:</b> 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.
<b>5</b>	Program the Profile Name.
	Enter a <b>Profile Name</b> .
<b>6</b>	Accept the changes.
	Click <b>OK</b> .



## Add the Meridian 1 PBX System Data Properties

Figure 13  
System Properties – System Data tab



Complete the following steps:

**Table 16**  
**Add the Meridian 1 PBX System Data Properties**

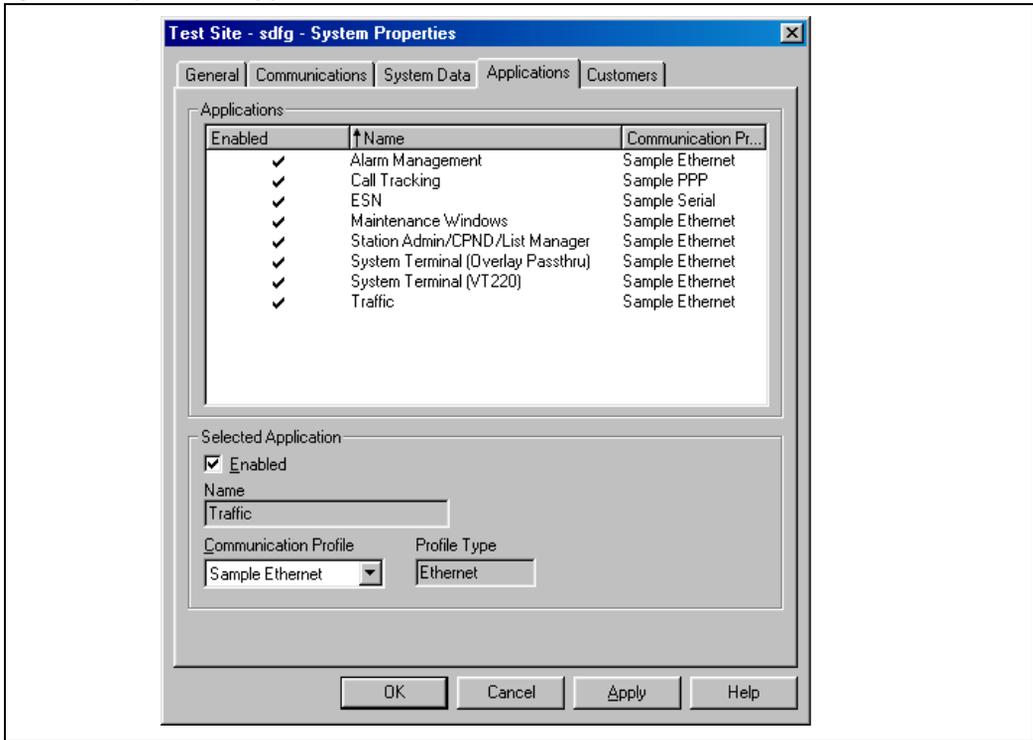
Step	Action
1	Select the system Data tab.
	Click the <b>System Properties – System Data</b> tab.
2	Program the Machine Information.
	Enter the <b>Machine</b> type and <b>Release</b> version for the system. <b>Note:</b> For example, if the Meridian 1 is an Option 61C running Release 25 software, enter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



## Add the 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. An application must be enabled for it to be available in the System window.

**Figure 14**  
**System Properties – Applications**



Complete the following steps:

**Table 17**  
**Add the Meridian 1 PBX System Applications Properties**

<b>Step</b>	<b>Action</b>
<b>1</b>	Select the system <b>Applications</b> tab.
	Click the <b>System Properties – Applications Data</b> tab.
<b>2</b>	To enable an application.
	<ul style="list-style-type: none"> <li>• Select the application in the <b>Applications</b> box.</li> <li>• Select a <b>Communications Profile</b> from the drop-down list in the <b>Selected Application</b> box.</li> <li>• A checkmark appears next to the application and the <b>Enabled</b> box is also checked.</li> </ul>
<b>3</b>	To disable an application.
	<ul style="list-style-type: none"> <li>• Select the application in the <b>Applications</b> box.</li> <li>• In the <b>Selected Application</b> box, click the <b>Enabled</b> checkbox to remove the checkmark.</li> </ul>



## Add the Meridian 1 PBX Customer Properties

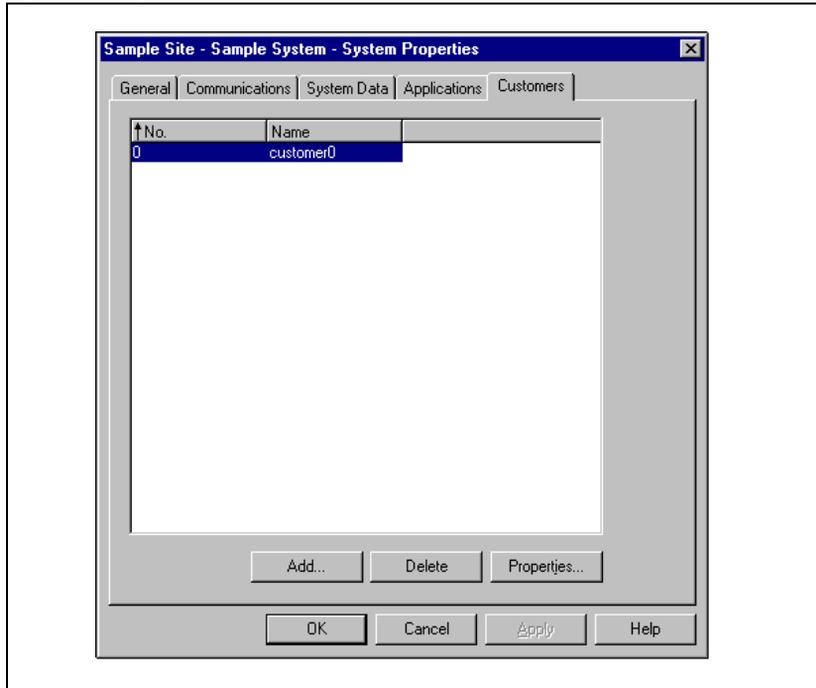
This tab lists the customers currently defined for this Meridian 1 system. The following action can be performed:

- add new customers
- delete customers
- review the properties of a selected customer

When a new customer is added, configure the Meridian 1 features and numbering plans that are available to the customer. This information is not automatically updated on the Meridian 1. It must be updated by using LD 15 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 the Meridian 1 PBX customer properties (Part 1 of 2)**

Step	Action
1	Select the system Customers tab.
	Click the <b>System Properties – Customers Data</b> tab.

**Table 18**  
**Add the Meridian 1 PBX customer properties (Part 2 of 2)**

Step	Action
2	Select a customer number.
	Click <b>OK</b> .
3	Update the Meridian 1 PBX.
	Use LD 15 Customer Data Block.



## Add the Meridian 1 PBX Customer0 General Properties

**Figure 16**  
**Customer0 Properties – General**

The screenshot shows a dialog box titled "Customer0 - (Customer 0) Properties" with a close button (X) in the top right corner. The dialog has three tabs: "General", "Features", and "Numbering Plans", with "General" selected. The "General" tab contains the following fields and controls:

- Customer Name:** A text box containing "Customer0".
- Number:** A text box containing "0".
- Directory Numbers:** A group box containing three empty text boxes.
- HLOC:** A text box containing "30".
- Scheduler System ID:** A group box containing:
  - User ID:** A text box containing "admin1".
  - Password:** A text box containing "xxxxxx".
- Buttons:** Four buttons at the bottom: "OK", "Cancel", "Apply", and "Help".

Complete the following steps:

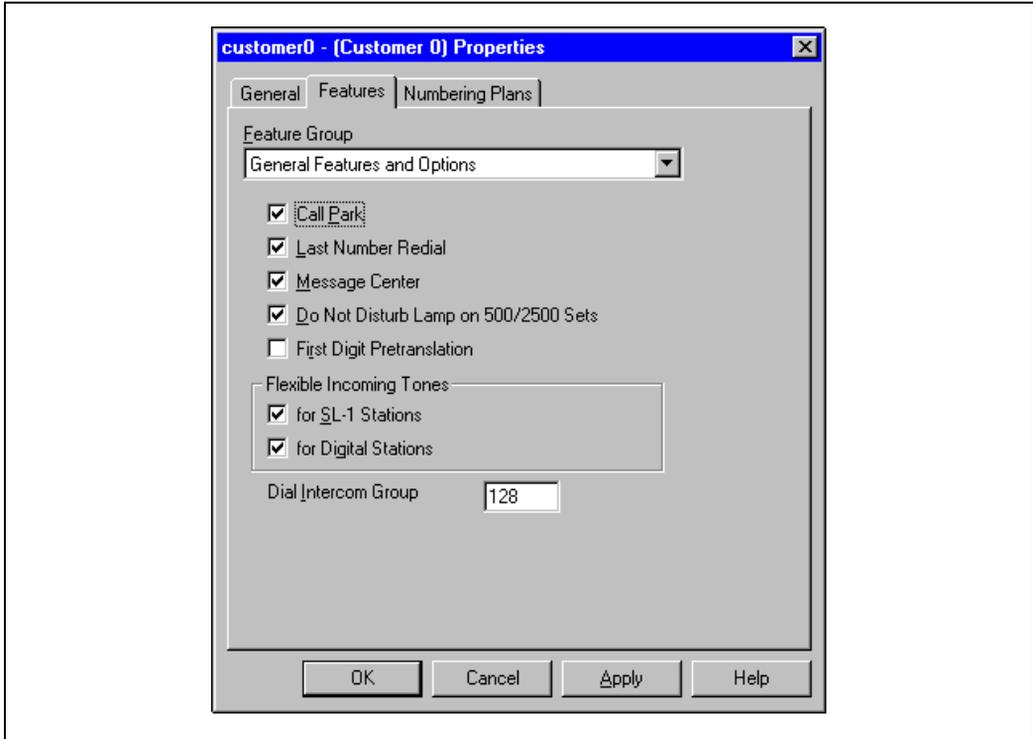
**Table 19**  
**Add the Meridian 1 PBX Customer0 General Properties**

Step	Action
1	Select the General tab.
	Click the <b>General</b> tab.
2	Program the Customer Name and Number.
	Enter the <b>Customer Name</b> and <b>Number</b> .
3	Program the Home Location Code.
	Enter the HOLC as defined in LD 90.
4	Program the <b>Scheduler System ID</b> , if using applications with scheduled activities, such as Station Administration/CPND, ESN, and Traffic.
5	Accept changes.
	Click <b>Apply</b> .
	

## Add the Meridian 1 PBX Customer0 Features Properties

Figure 17

### Customer 0 Properties – Features



Complete the following steps:

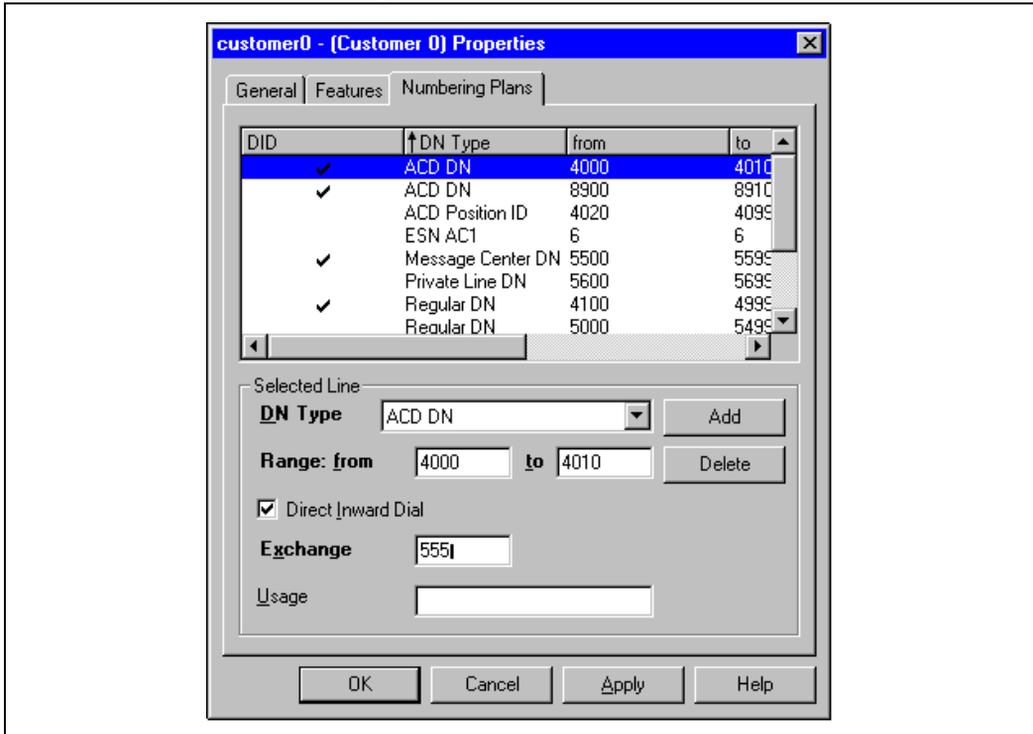
**Table 20**  
**Add the Meridian 1 PBX Customer0 Features Properties**

<b>Step</b>	<b>Action</b>
<b>1</b>	Select the <b>Features</b> tab.
	Click the <b>Features</b> tab.
<b>2</b>	Program Features Group.
<b>3</b>	Accept changes.
	Click <b>Apply</b> .



## Add the Meridian 1 PBX Customer0 Numbering Plans Properties

Figure 18  
Customer Properties – Numbering Plans



Complete the following steps:

**Table 21**  
**Add the Meridian 1 PBX Customer0 Numbering Plans Properties**

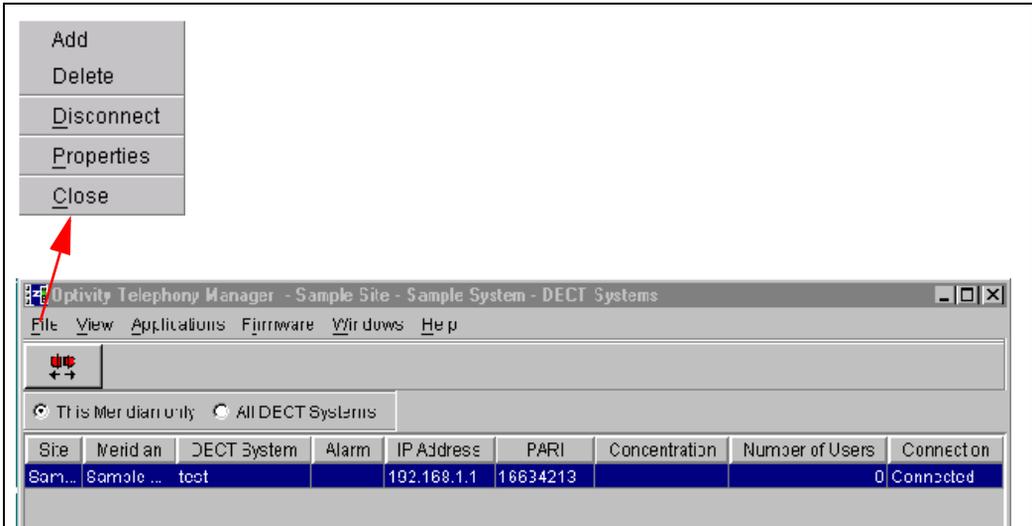
Step	Action
1	Select the <b>Numbering Plans</b> tab.
	Click the <b>Numbering Plans</b> tab.
2	<b>Program the customer information appropriate for the Meridian PBX.</b>
3	<b>Accept changes.</b>
	Click one of the following buttons to save the information: <ul style="list-style-type: none"> <li>• <b>OK</b> adds the customer and returns to the System properties sheet.</li> <li>• <b>Apply</b> adds the customer and leaves the Customer properties open so that other information can be added for this customer.</li> <li>• <b>Cancel</b> closes the dialog box without adding the customer.</li> </ul>



*Note:* At this point the DECT application is installed in the OTM server.

## Delete DECT systems

**Figure 19**  
**DECT Systems window**



Complete the following steps.

**Table 22**  
**Delete DECT systems (Part 1 of 2)**

Step	Action
1	Using Windows, login to OTM. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 20 to page 23.
2	Using a web-based navigator, open the Administrator login screen and login. Select the System Navigator. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 24 to page 28.

**Table 22**  
**Delete DECT systems (Part 2 of 2)**

<b>Step</b>	<b>Action</b>
3	Select a DECT System to delete.
	Highlight a DECT system from the list.
4	Delete the DECT System.
	From the <b>File</b> pull-down menu, click on <b>Delete</b> .

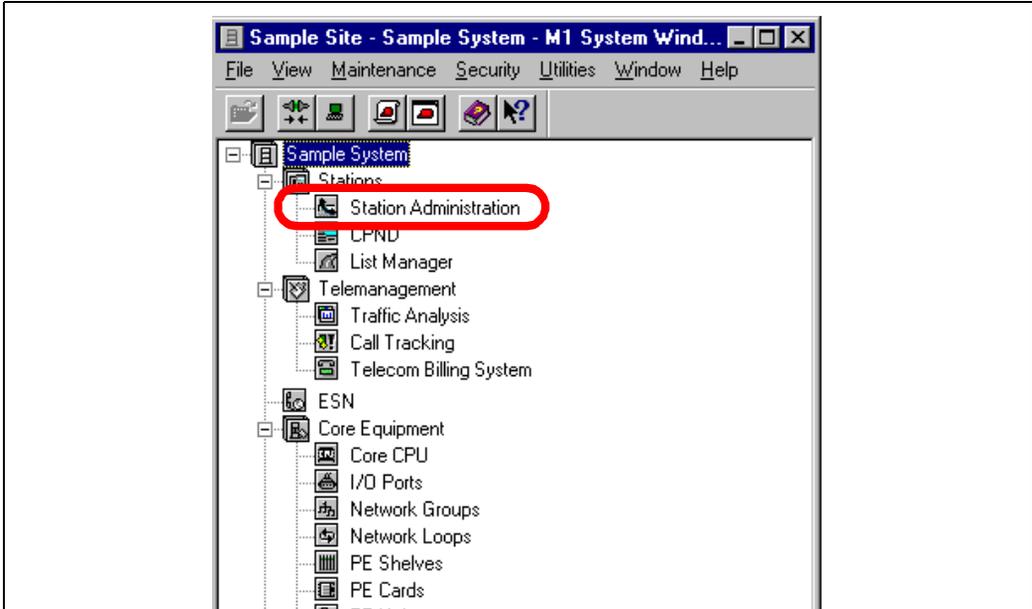


## Configure non-concentrated handsets on a Meridian 1 PBX

For information about System Administration, see *Option 11C Customer Controlled Backup and Restore (CCBR) (553-3011-330)*

### Open Station Administration window

Figure 20  
M1 System Window



Complete the following step.

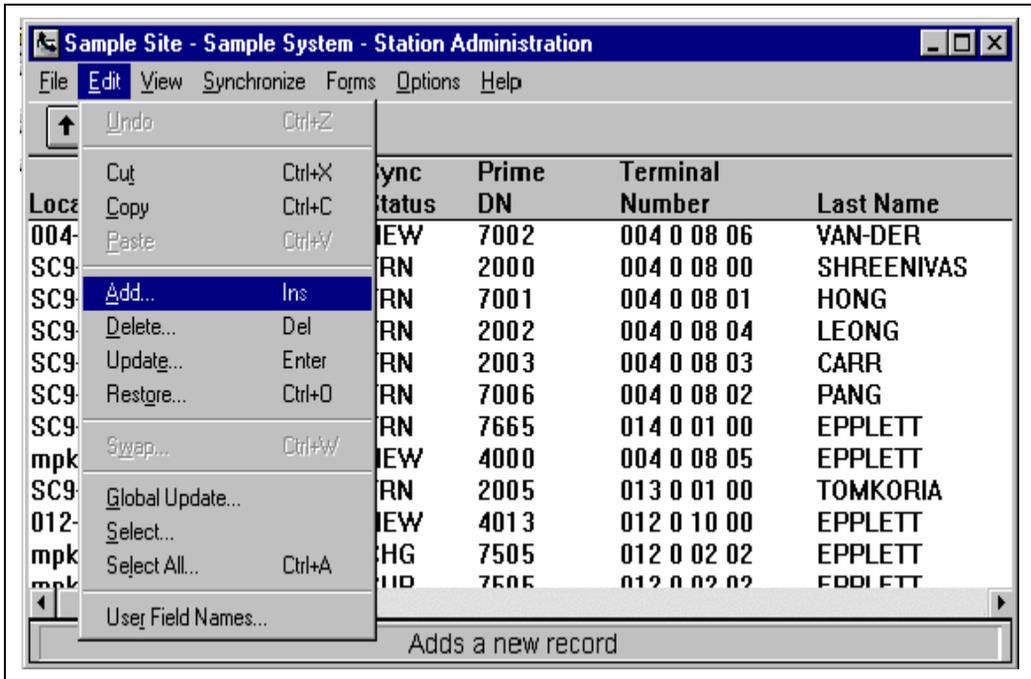
Table 23  
Station Administration window

Step	Action
1	Open the Station Administration window.
	Click on <b>Station Administration</b> in the M 1 System Window.



## Access Add Station window

Figure 21  
Station Administration window



Complete the following steps.

Table 24  
Access Add Station window

Step	Action
1	Access Add Station window.
	From the <b>Edit</b> pull-down menu, click on <b>Add</b> .



## Add 500 analog standard

Figure 22  
Add Station window

**Add Station**

Number of Stations to Add:  Customer Number:

Template	Instrument
2616T empl	2500 Digitone Standard
3904T empl	<b>500 Analog Standard</b>
500T empl	DCS Digital Cordless Set
	I2004 I2004
	M2006 2006 Digital
	M2008 2008 Digital
	M2009 2009 Digital
	M2016S 2016 Digital
	M2018 2018 Digital
	M2018S 2018S Digital

Automatic Directory Number Assignment  
 Automatic Terminal Number Assignment  
 Phantom  
 Create Portable from Location   
 Host Terminal

Complete the following step.

Table 25  
Add 500 analog standard

Step	Action
1	Add 500 analog standard.
	Highlight <b>500 Analog Standard</b> , and click on the <b>OK</b> button.



## Access features

Figure 23  
500 dialog

The dialog box is titled "500" and contains the following fields and controls:

- First Name:** Text input field with a "Directory" button to its right.
- Last Name:** Text input field with a "Clear" button to its right.
- Single Line Features:** A list box containing:
  - CFW Forward
  - SCU SpdCall User
  - SCC SpdCall Cntl
  - SSU Sys Speed
  - PHD PermanentHldBelow the list box are "Set" and "Clear" buttons.
- Redirection DN Length:** Text input field.
- Customer:** A dropdown menu showing "0".
- Location:** Text input field.
- Department:** Text input field.
- Terminal Number:** Text input field.
- Directory Number:** Text input field.
- CLID Entry:** Text input field.
- Hunt to:** Text input field.

On the right side of the dialog, there is a vertical stack of buttons: "OK", "Cancel", "Features", "Admin..", "Validate", and "Help".

At the bottom center of the dialog, there is a 3x3 grid of black squares.

Complete the following step.

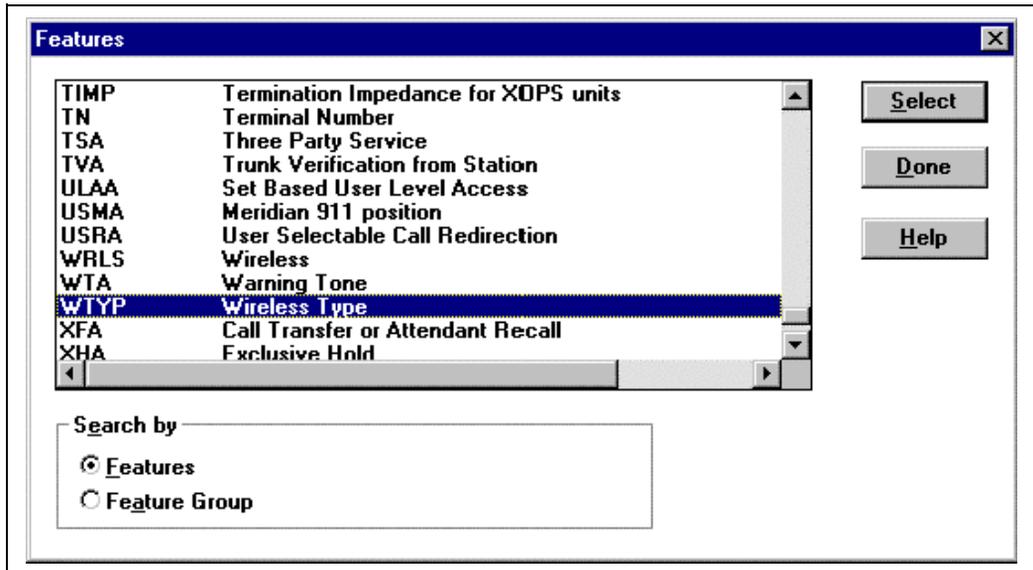
Table 26  
Access features

Step	Action
1	Access features.
	Click on the <b>Features</b> button.



## Access wireless type

Figure 24  
Features window



Complete the following step.

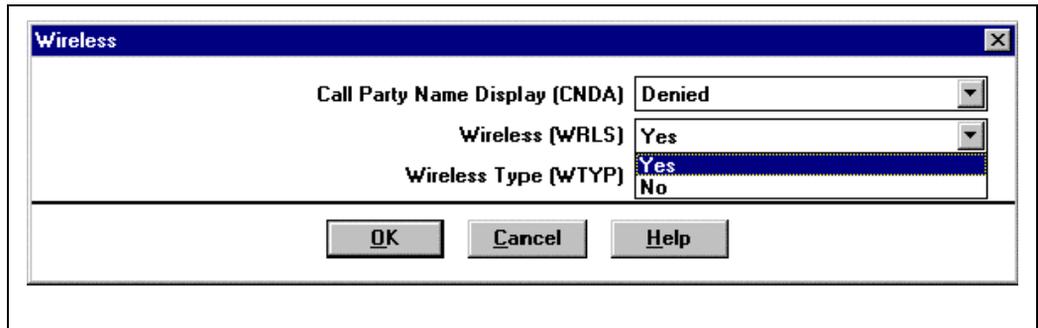
**Table 27**  
**Access wireless type**

Step	Action
1	Access wireless type.
	Highlight <b>Wireless Type</b> , and click on the <b>Select</b> button.



### Select wireless type

**Figure 25**  
**Wireless window**



Complete the following step.

**Table 28**  
**Select wireless type**

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



## Select DECT wireless set

Figure 26  
Wireless window

Complete the following step.

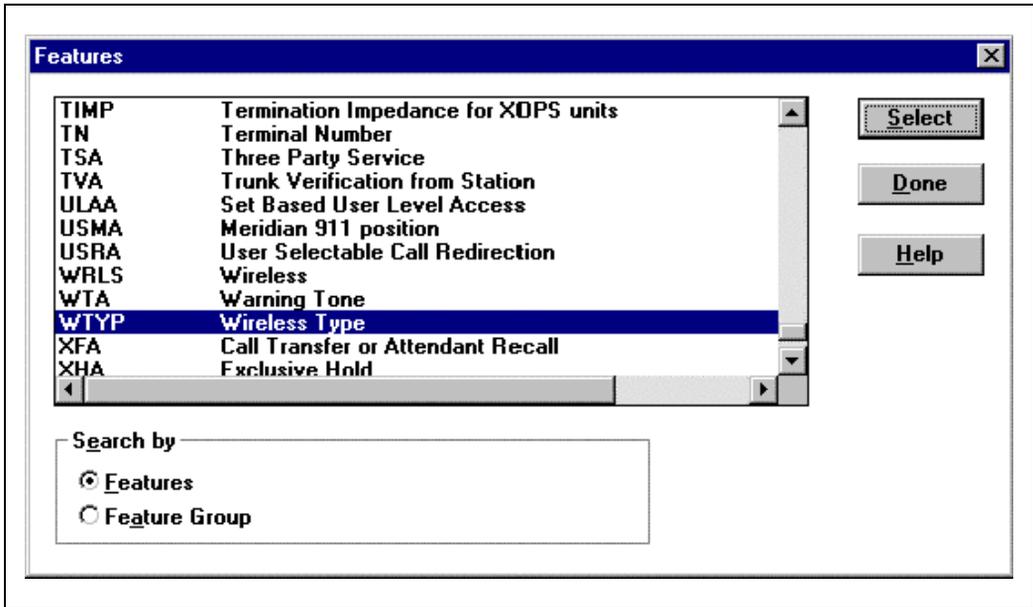
Table 29  
Select DECT wireless set

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



## Accept changes

Figure 27  
Features window



Complete the following step.

Table 30  
Accept changes

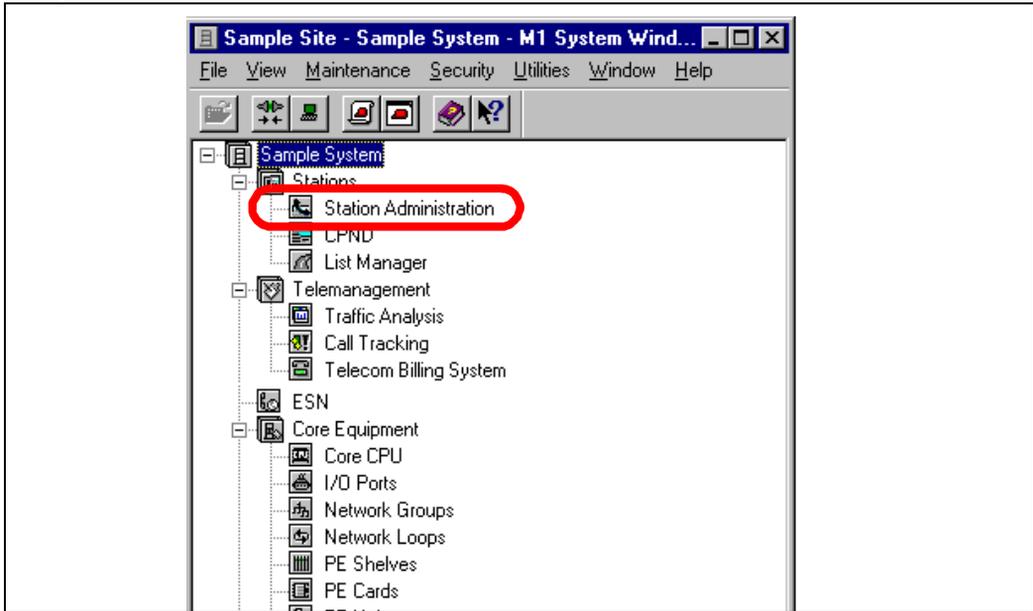
Step	Action
1	Accept changes.
	Click on the <b>Done</b> button.



## Configure concentrated handsets on a Meridian 1 PBX

### Open Station Administration window

Figure 28  
M1 System Window



Complete the following step.

Table 31  
Station Administration window

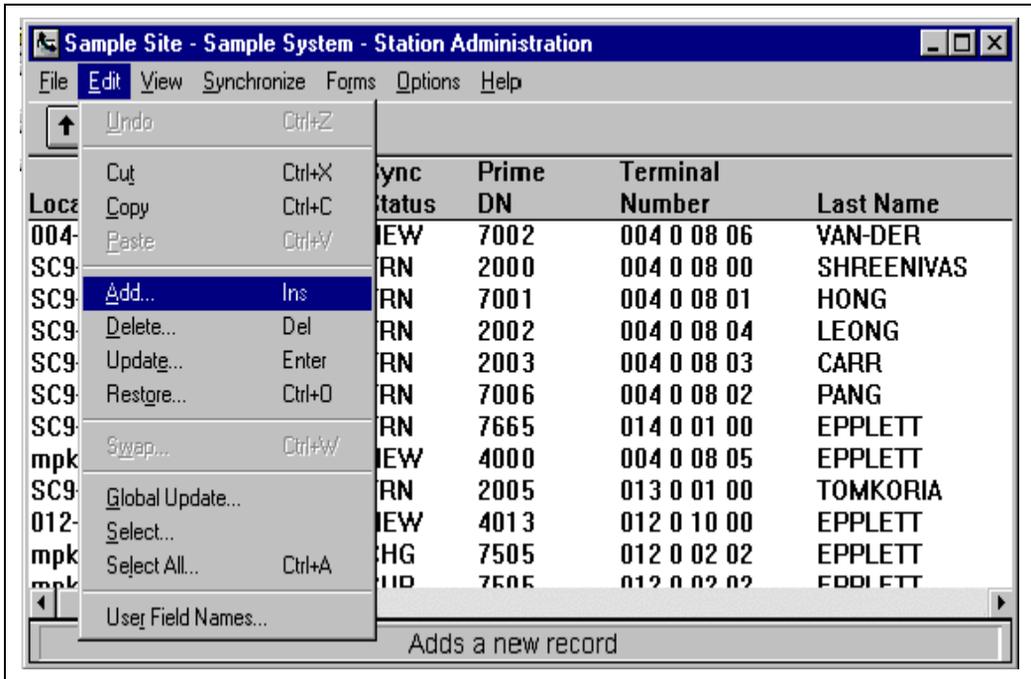
Step	Action
1	Open the Station Administration window.
	Click on <b>Station Administration</b> in the Meridian 1 System Window.



## Access Add Station window

Figure 29

Station Administration window



Complete the following step.

Table 32

Access Add Station window

Step	Action
1	Access Add Station dialog.
	From the <b>Edit</b> pull-down menu, click on <b>Add</b> .



## Select Digital Cordless Set

Figure 30  
Add Station dialog

Complete the following step.

Table 33  
Select Digital Cordless Set

Step	Action
1	Select Digital Cordless Set.
	Highlight <b>DCS</b> , and click on the <b>OK</b> button.



## Select Features

Figure 31  
DCS window

Complete the following step.

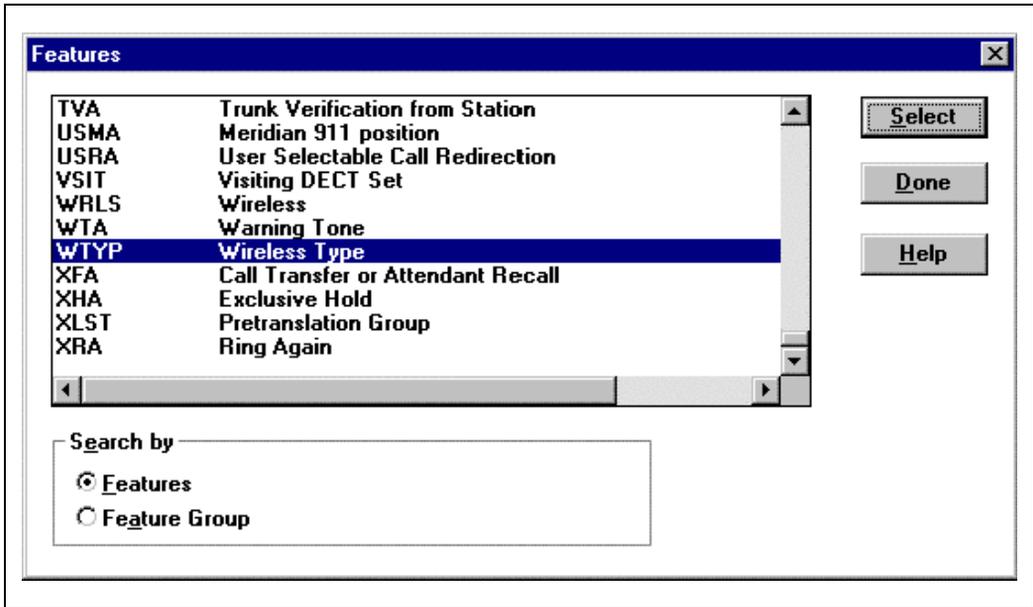
Table 34  
Select Features

Step	Action
1	Select features. Click on the <b>Features</b> button.



## Select wireless type

Figure 32  
Features window



Complete the following step.

Table 35  
Select wireless type

Step	Action
1	Select wireless type.
	Highlight <b>WTYP</b> , and click the <b>Select</b> button.



## Select Visit DECT Set or local calling

Figure 33  
Wireless Visiting DECT Set

Complete the following steps.

Table 36  
Select Visit or local (Part 1 of 2)

Step	Action
1	Select <b>Visit DECT Set</b> as <b>Yes</b> if this handset is visiting this Meridian 1 PBX. Select <b>No</b> if this handset is to be configured for local calling only.
	If Visiting DECT Set is Yes, go to step 2. If the handset is configured for local calling only, go to step 4.
2	Select visiting
	From the <b>Visiting DECT Set (VSIT)</b> list, select <b>Yes</b> .
3	Select a Home DN.
	Enter a DN in the <b>Home Directory Number (HMDN)</b> box.

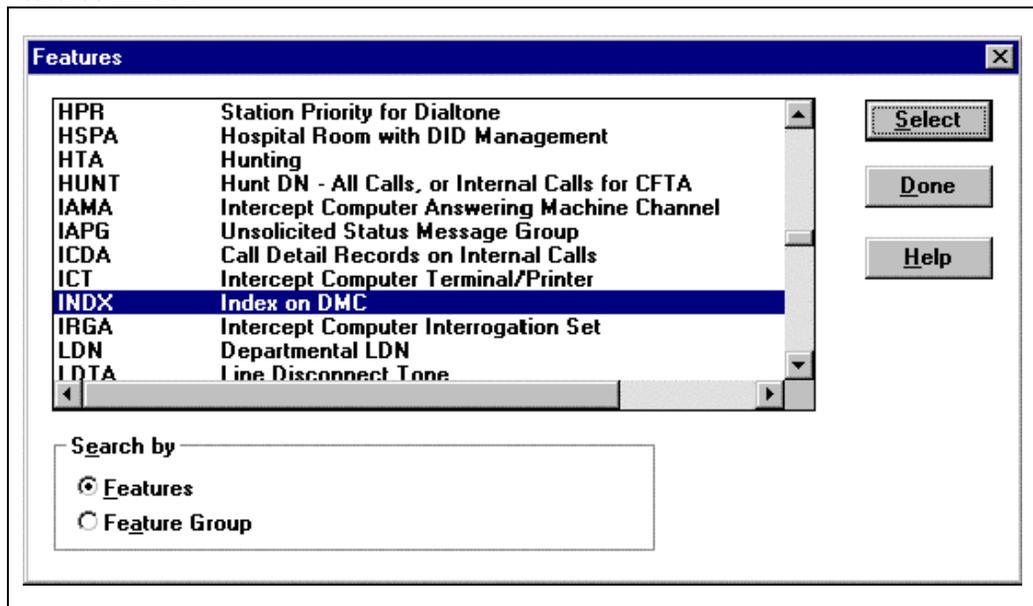
**Table 36**  
**Select Visit or local (Part 2 of 2)**

Step	Action
4	Configure for local calling only.
	From the <b>Visiting DECT Set (VSIT)</b> list, select <b>No</b> .
5	Accept changes.
	Click on the <b>OK</b> button.



## Select an index

**Figure 34**  
**Features window**



Complete the following step.

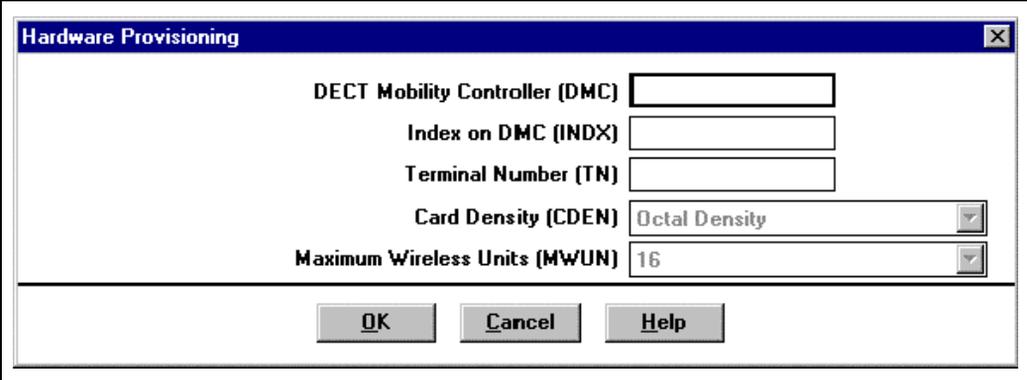
Table 37  
Select an index

Step	Action
1	Select an index.
	Highlight <b>INDX</b> , and click on the <b>Select</b> button.



## Provision hardware

Figure 35  
Hardware Provisioning window



The screenshot shows a window titled "Hardware Provisioning" with a close button (X) in the top right corner. The window contains the following fields and controls:

- DECT Mobility Controller (DMC):
- Index on DMC (INDX):
- Terminal Number (TN):
- Card Density (CDEN):
- Maximum Wireless Units (MWUN):

At the bottom of the window, there are three buttons: **OK**, **Cancel**, and **Help**.

Complete the following steps.

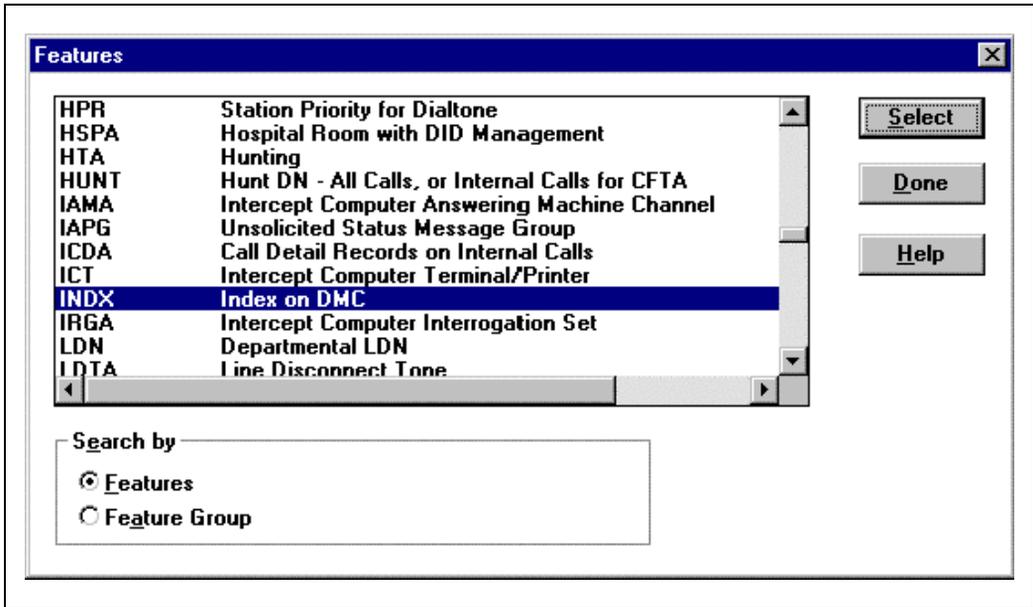
**Table 38**  
**Provision hardware**

<b>Step</b>	<b>Action</b>
<b>1</b>	Select a DMC TN.
	Enter a TN in the <b>DECT Mobility Controller (DMC)</b> box.
<b>2</b>	Select an index.
	Enter an index in the <b>Index on DMC (INDX)</b> box. (Index range is 0 to 509.) <b>Note:</b> The Terminal Number (TN) is a virtual TN and is selected by the Meridian 1 PBX system. <b>Note:</b> Index 0 – 509 on Meridian 1 is seen as Index 1 – 510 in OTM.
<b>3</b>	Accept changes.
	Click on the <b>OK</b> button.



## Accept changes

Figure 36  
Features window



Complete the following step.

Table 39  
Accept changes

Step	Action
1	Accept changes.
	Click on the <b>Done</b> button.



## Single line features

Figure 37  
500 window

Complete the following step.

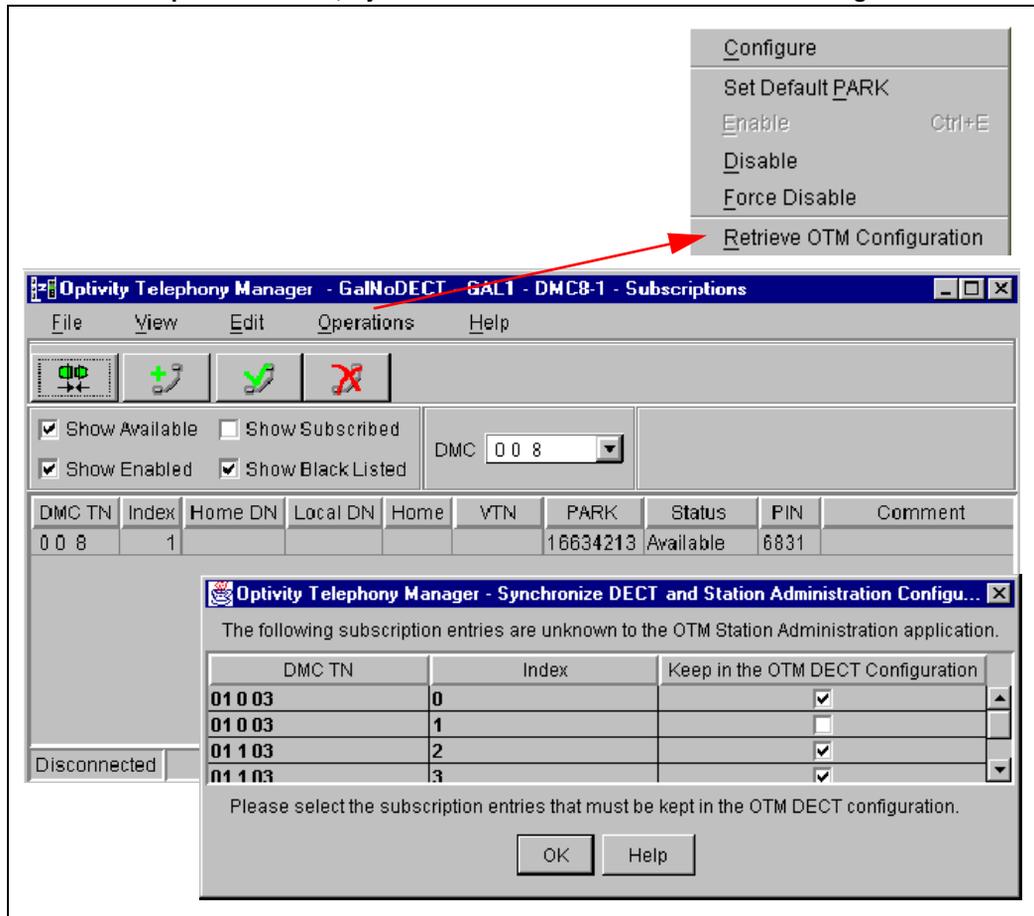
Table 40  
Single Line Features

Step	Action
1	For information on other Single Line Features. Refer to the OTM Station Administration in <i>Using Optivity Telephony Manager</i> (553-3001-330).



### Retrieve subscription data for handsets

Figure 38  
DECT Subscriptions window, Synchronize DECT and Administration Config window



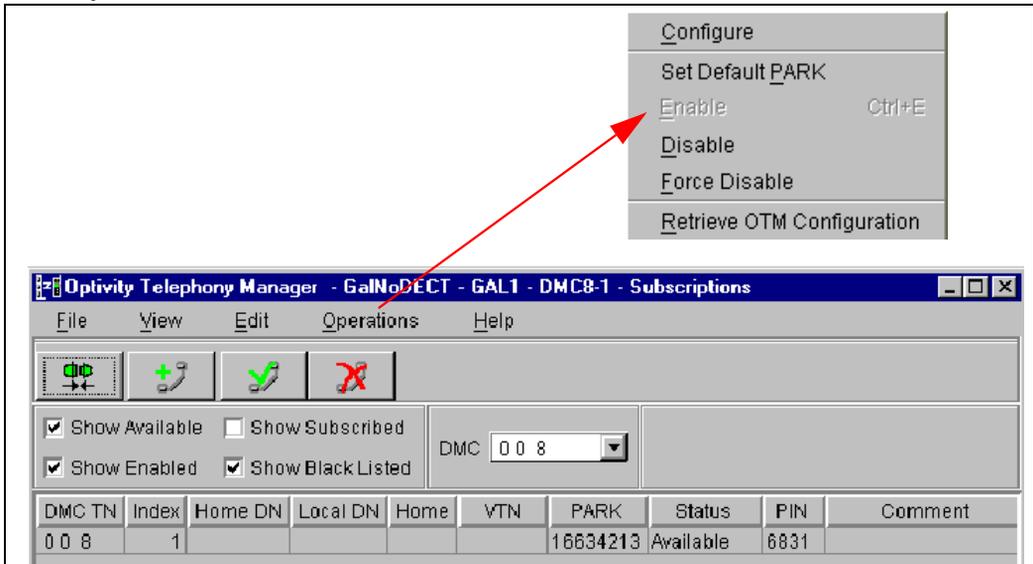
Complete the following steps:

**Table 41**  
**Retrieve subscription data for handsets**

Step	Action
1	Using Windows, login to OTM. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 20 to page 23.
2	Using a web-based navigator, open the Administrator login screen and login. Select the System Navigator. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 24 to page 28.
3	Open the Subscriptions window.
	Follow the instructions on page 29.
4	Retrieve the subscription configuration data from the OTM Station Administration database.
	In the Subscriptions window, click on the <b>Operations</b> pull-down menu, click on <b>Retrieve OTM Configuration</b> .
5	<b>Note:</b> At this point, all handsets configured on OTM Station Administration are shown in the Subscriptions window Open the Configure DECT Subscription dialog.
	Click the <b>File</b> pull-down menu. Click <b>Add</b> or  .
	

### Enable subscription

Figure 39  
Subscriptions window



Complete the following steps for each handset:

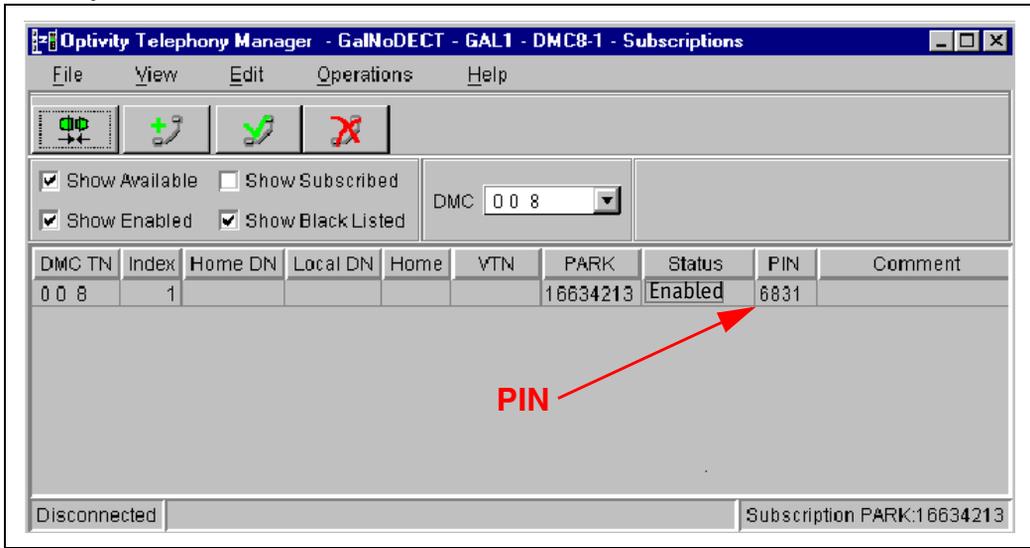
Table 42  
Enable handsets

Step	Action
1	<p><b>Note:</b> At this point, there are no PINs shown in the Subscriptions window. Select a handset from the list.</p> <p>Click on one handset in the list to highlight a row.</p>
2	<p>Enable handsets.</p> <p>Click on the <b>Operations</b> pull-down menu. Click <b>Enable</b> or click on .</p>



## Activate the PIN on the handsets

**Figure 40**  
Subscriptions window



Complete the following step:

**Table 43**  
Obtain the PIN

Step	Action
1	<p><b>Note:</b> At this point, in the Subscriptions window, the PINs are shown and the Status is Enabled.</p> <p>Subscribe the C4010, C4010Ex, C4040, and C4050 handsets.</p>
	<p>See “C4010, C4010 Ex, C4020 handset subscription” on page 78, and “C4050 handset subscription” on page 85.</p>



**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 41  
C4010 handset and C4010 Ex handset



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

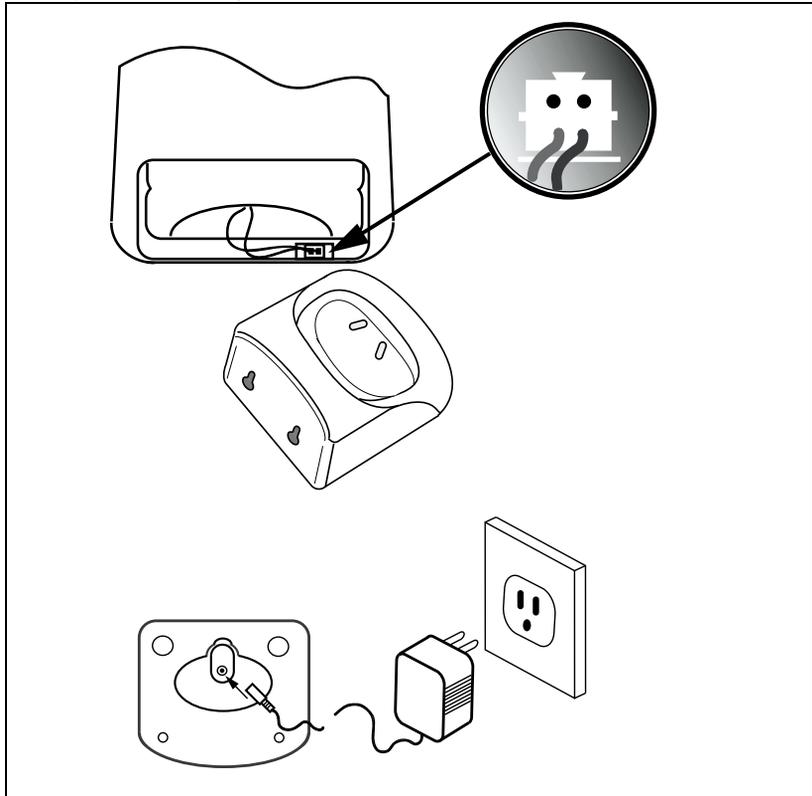
Consult the work order for a list of handset users and their locations.



**DANGER: Serious injury**

Never charge a C4010Ex battery in an explosive atmosphere.

**Figure 42**  
**Battery details, charger details, and connections**



Complete the following steps.

**Table 44**  
**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. <b>Note:</b> 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. <b>Note:</b> Never mount a battery charger in an explosive atmosphere.
6	Install the mounting screws. Use screws with a maximum diameter of 4 mm.
7	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. 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.  <b>Note:</b> The battery icon appears on the handset display screen indicating the battery is charging, whether the battery is installed or not.



**CAUTION: Service interruption**

Charge the C4010, C4010 Ex, and C4020 battery at least 12 hours before using the handset for the first time. This will ensure maximum battery life.

## Subscribe the C4010, C4010 Ex, C4020 handset

Consult the work order for a list of subscription names.

Complete the following steps.

**Table 45**  
C4010, C4010 Ex, C4020 handset subscription

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



**Table 46**  
**Handset name and DN identity**

<b>Step</b>	<b>Action</b>
<b>5</b>	Select <b>Menu</b> .
	Press the <b>Menu</b> key.
<b>6</b>	Select <b>Handset name</b> .
	Dial 86.
<b>7</b>	Enter the <b>Handset name</b> and/or the handset DN to identify the handset.
	To enter a character, press keys 0 to 9 as shown in Table 47 on page 83. For example, to enter E press the <b>3</b> key twice. To move to the next character, pause three seconds. To delete a character, press <b>Erase</b> , or select the digit and enter a new digit. <b>Note:</b> Handset DNs are programmed in LD 10, not in the DECT database.
<b>8</b>	Confirm the name and DN.
	Press <b>Ok</b> .



Use the Southern handset keypad alphabet equivalent listed in Table 47 for the following languages:

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

**Table 47**  
**Southern handset key pad alphabet equivalent**

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				

Use the Northern handset key pad alphabet equivalent listed in Table 48 for the following languages:

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

**Table 48**  
Northern handset key pad alphabet equivalent

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

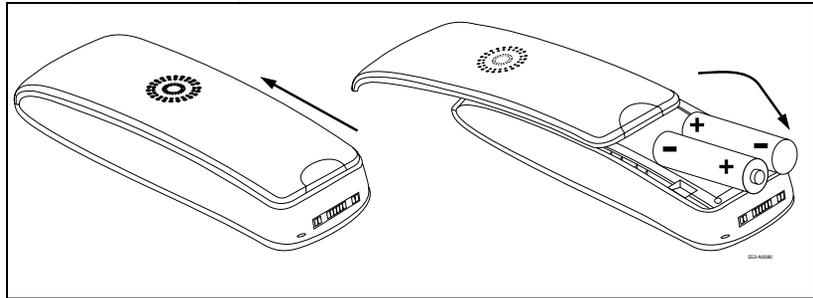
Figure 43  
C4050 handset



### Distribute C4050 handsets and install battery chargers

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

**Figure 44**  
**Battery details, charger details, and connections**



Complete the following steps.

**Table 49**  
**Install battery charger and charge batteries (Part 1 of 2)**

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. <b>Note:</b> 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.
6	Install the power supply.

**Table 49**  
**Install battery charger and charge batteries (Part 2 of 2)**

Step	Action
	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.
	<b>Note:</b> The LED ring on the handset is green when the batteries are charging.



**CAUTION: Service interruption**

Charge the C4050 battery at least eight hours before using the handset for the first time. This will ensure maximum battery life.

## Subscribe the C4050 handset

Consult the work order for a list of subscription names.

Complete the following steps.

**Table 50**  
**C4050 handset subscription (Part 1 of 2)**

Step	Action
1	Select Menu.
	Press <b>Menu</b> .
2	Select System.
	Scroll to <b>System</b> . Press <b>OK</b> .
3	Select Subscription.

**Table 50**  
**C4050 handset subscription (Part 2 of 2)**

Step	Action
	Press <b>OK</b> .
4	Select Options.
	Scroll to <b>New</b> . Press <b>OK</b> .
5	Enter PARK if two DECT systems overlap.
	Press <b>OK</b> .
6	Enter the PIN code. <b>Note:</b> 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.



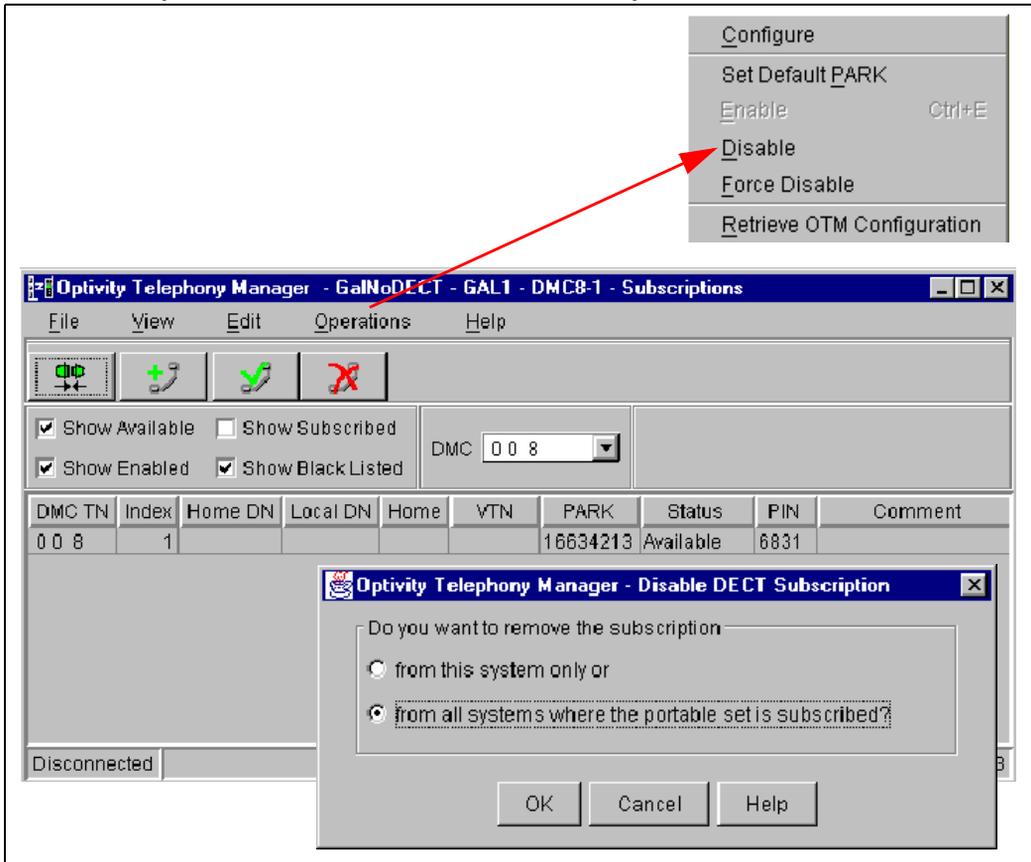
**Table 51**  
**Handset key pad alphabet equivalent**

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 *DECT Programming and Provisioning Record* (553-3601-250).

## Disable a handset subscription

Figure 45  
DECT Subscriptions window and Disable DECT Subscription window



**Note:** For further information, refer to “Disable subscriptions” in *DECT Overview* (553-3601-103) and “Multi Site Mobility Networking” in *DECT Overview* (553-3601-103).

Complete the following steps.

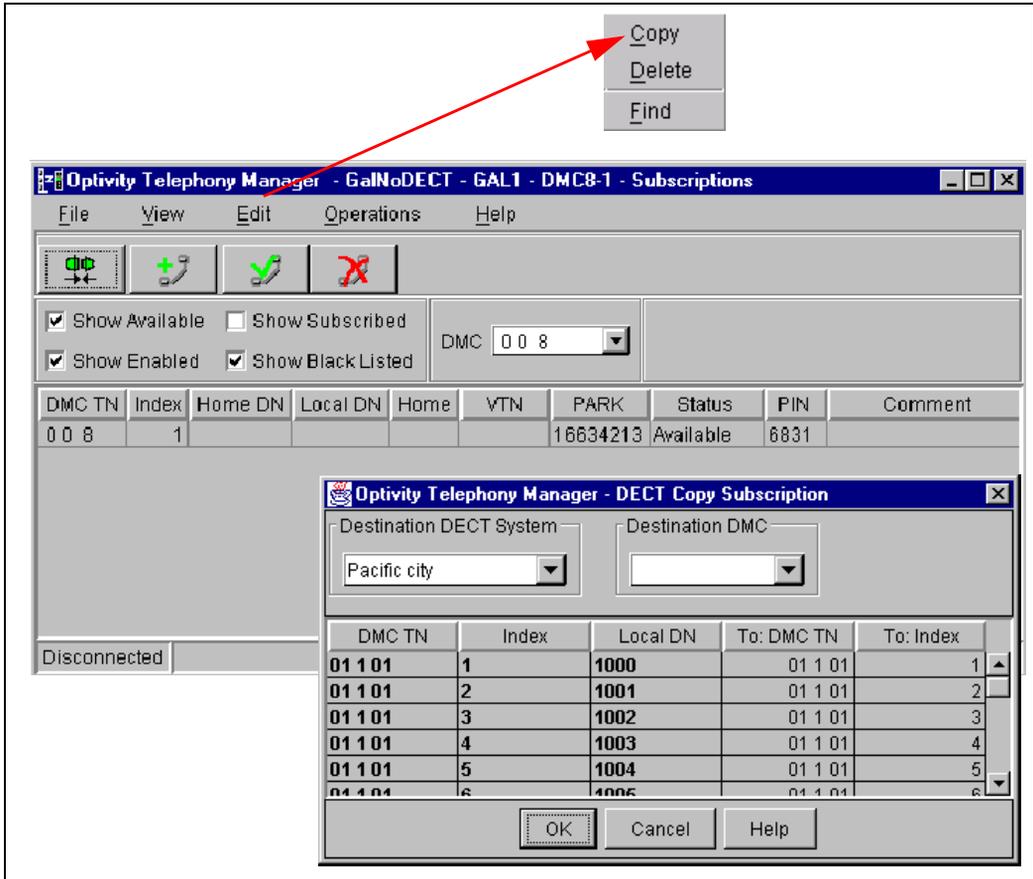
**Table 52**  
**Disable handset subscription**

Step	Action
1	Using Windows, login to OTM. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 20 to page 23.
2	Using a web-based navigator, open the Administrator login screen and login. Select the System Navigator. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 24 to page 28.
3	Open the Subscriptions window.
	Follow the instructions on page 29.
4	Select a handset subscription(s) for disabling. <b>Note:</b> A single handset, a list of handsets, or all handsets on a DMC can be selected.
	Highlight a <b>DMC TN</b> and an <b>Index</b> , or several <b>indexes</b> in the list.
5	Disable the handset subscription(s).
	From the <b>Operations</b> pull-down menu, click <b>Disable</b> .
6	Disable from this system only.
	Click <b>OK</b> .
7	Disable from all systems where the portable set is subscribed.
	Click <b>OK</b> .



## Copy a handset subscription

Figure 46  
DECT Subscriptions window and DECT Copy Subscription window



**Note:** For further information, refer to “Copy Subscriptions” in *DECT Overview* (553-3601-103)

Complete the following steps.

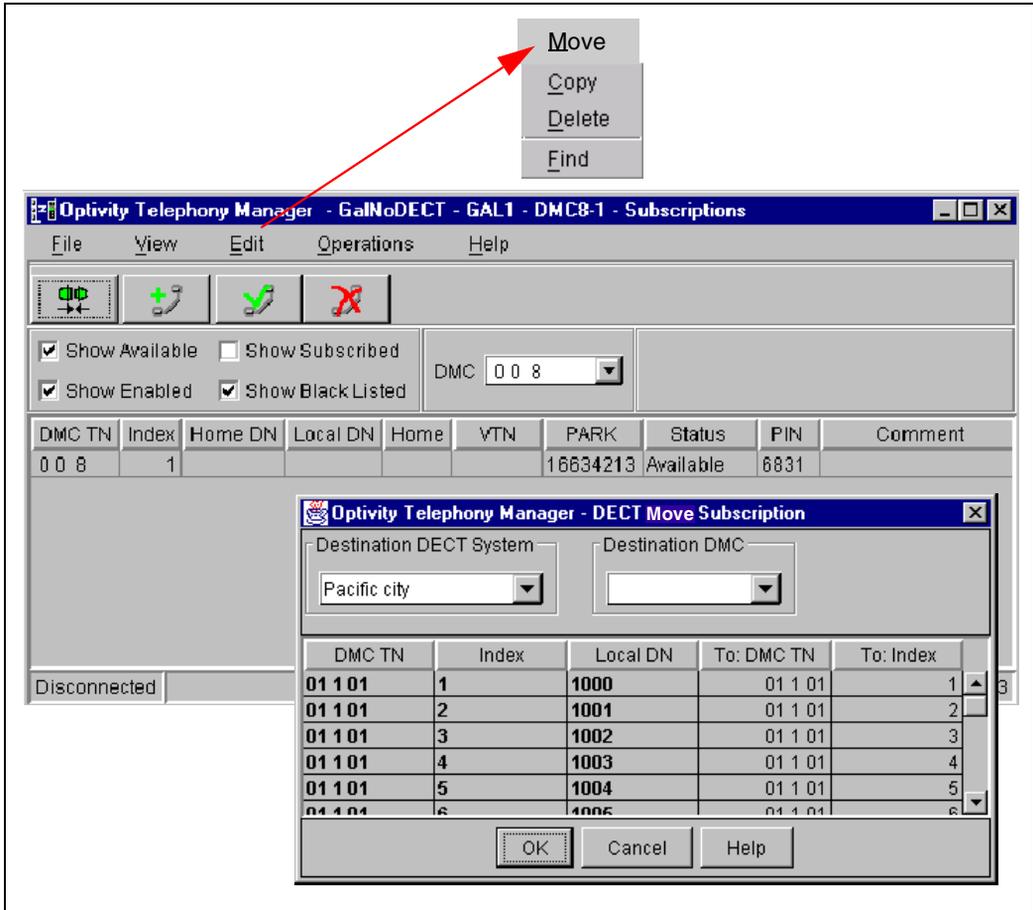
**Table 53**  
**Copy handset subscription**

Step	Action
1	Using Windows, login to OTM. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 20 to page 23.
2	Using a web-based navigator, open the Administrator login screen and login. Select the System Navigator. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 24 to page 28.
3	Select the source DECT system to copy the subscription.
	Highlight the DECT system in the DECT Systems window.
4	Open the Subscriptions window.
	Follow the instructions on page 29.
5	Open the DECT Copy Subscription dialog.
	From the <b>Edit</b> pull-down menu, click on <b>Copy</b> .
6	Select a DECT system where the copied subscription will be put.
	Pull-down the <b>Destination DECT System</b> list and highlight a system name.
7	Select DMC on the DECT system where the copied subscription will be put.
	Pull-down the <b>Destination DMC</b> list and highlight a DMC.
8	Select a handset subscription(s) to copy. <b>Note:</b> Select a single handset, a list of handsets, or all handsets on a DMC.
	Highlight a <b>DMC TN</b> and an <b>Index</b> (or more than one <b>index</b> ) in the list.
9	Select a DMC or Index for the subscription(s).
	Highlight a <b>To: DMC TN</b> or a <b>To: Index</b> (or more than one <b>index</b> ) in the list.
10	Accept the changes.
	Click on the <b>OK</b> button.



## Move a handset subscription

Figure 47  
DECT Subscriptions window and DECT Move Subscription window



**Note:** For further information, refer to "Move Subscriptions" in *DECT Overview* (553-3601-103).

Complete the following steps.

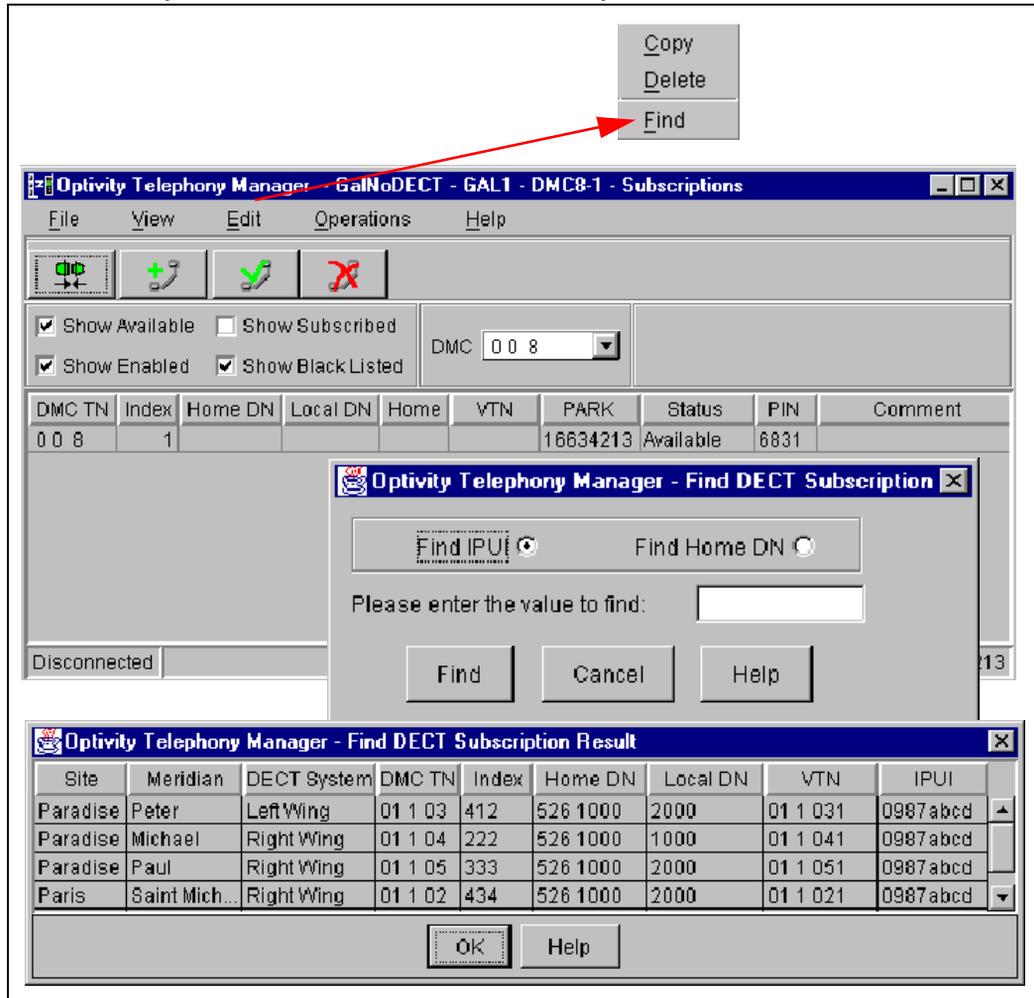
**Table 54**  
**Move handset subscription**

Step	Action
1	Using Windows, login to OTM. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 20 to page 23.
2	Using a web-based navigator, open the Administrator login screen and login. Select the System Navigator. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 24 to page 28.
3	Open the Subscriptions window.
	Follow the instructions on page 29.
4	Open the DECT Move Subscription dialog.
	From the <b>Edit</b> pull-down menu, click on <b>Move</b> .
5	Select a DECT system where the moved subscription is to be put.
	Pull-down the <b>Destination DECT System</b> list and highlight a system name.
6	Select DMC on the DECT system where the moved subscription is to be put.
	Pull-down the <b>Destination DMC</b> list and highlight a DMC.
7	Select DMC on the DECT system the moved subscription is to be put.
	Pull-down the <b>Destination DMC</b> list and highlight a DMC.
8	Select a handset subscription(s) to move. <b>Note:</b> Select a single handset, a list of handsets, or all handsets on a DMC.
	Highlight a <b>DMC TN</b> and an <b>Index</b> (or more than one <b>index</b> ) in the list.
9	Select a DMC or Index for the subscription(s).
	Highlight a <b>To: DMC TN</b> or a <b>To: Index</b> (or more than one <b>index</b> ) in the list.
10	Accept the changes.
	Click <b>OK</b> .



## Find a handset subscription

Figure 48  
DECT Subscriptions window and Find DECT Subscription window



**Note:** For further information, refer to “Find subscriptions” in *DECT Overview* (553-3601-103).

Complete the following steps.

**Table 55**

**Find handset subscription**

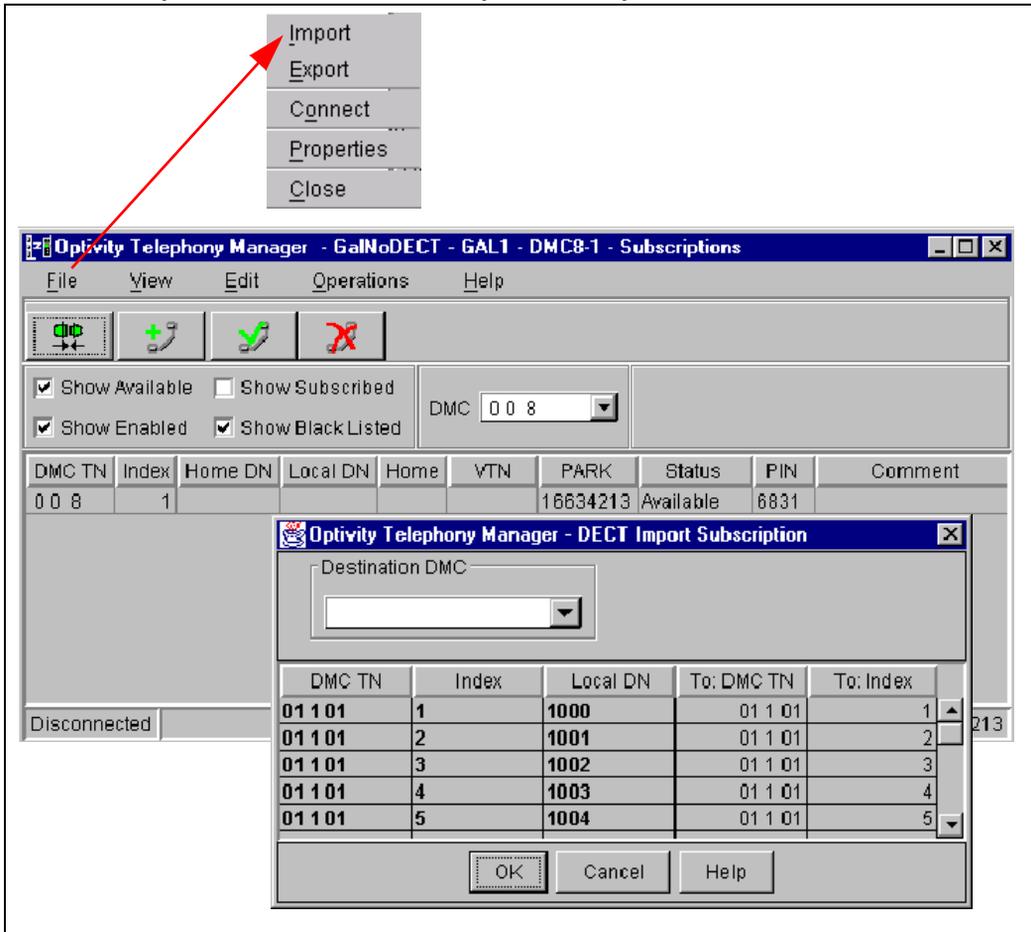
Step	Action
1	Using Windows, login to OTM. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 20 to page 23.
2	Using a web-based navigator, open the Administrator login screen and login. Select the System Navigator. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 24 to page 28.
3	Open the Subscriptions window.
	Follow the instructions on page 29.
4	Open the Find DECT Subscription dialog.
	From the <b>Edit</b> pull-down menu, click on <b>Find</b> .
5	Select find criteria.
	Click on <b>Find IPUI</b> or <b>Find Home DN</b> , enter the value, and click on the <b>Find</b> button.
6	View the results.



## Import a handset subscription

Figure 49

DECT Subscriptions window and DECT Import Subscription window



**Note:** For further information, refer to “Import subscriptions” in *DECT Overview* (553-3601-103).

Complete the following steps.

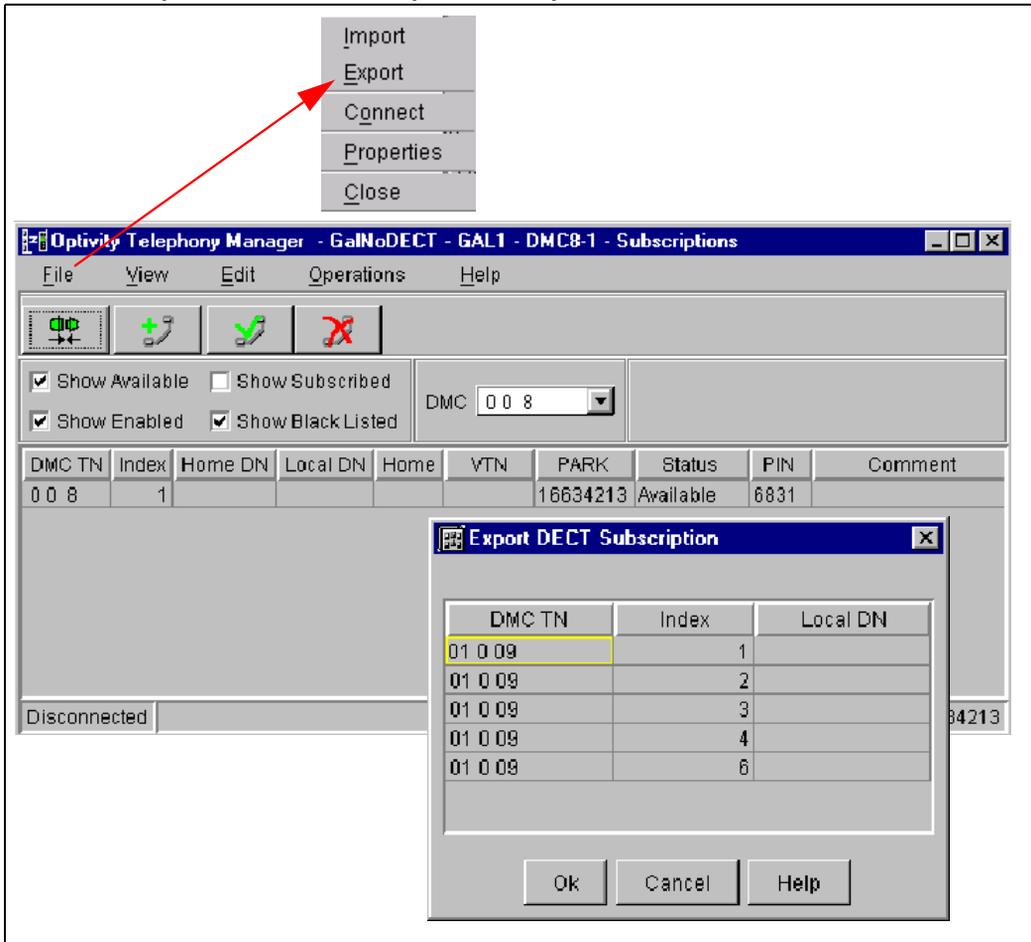
**Table 56**  
**Import handset subscription**

Step	Action
1	Access the DECT Application.
	Follow the instructions in “Windows access to the DECT application” on page 20.
2	Using a web-based navigator, open the Administrator login screen and login. Select the System Navigator. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 24 to page 28.
3	Open the Subscriptions window.
	Follow the instructions on page 29.
4	Open the DECT Import Subscription dialog.
	From the <b>File</b> pull-down menu, click on <b>Import</b> .
5	Select a DECT system where the imported subscription is to be put.
	Pull-down the <b>Destination DMC</b> list and highlight a DMC.
6	Select DMC to be imported.
	Pull-down the <b>Destination DMC</b> list and highlight a DMC.
7	Select a handset subscription(s) to import. <b>Note:</b> Select a single handset, a list of handsets, or all handsets on a DMC.
	Highlight a <b>DMC TN</b> and an <b>Index</b> , or several <b>indexes</b> in the list.
8	Select a DMC or Index for the subscription(s).
	Highlight a <b>To: DMC TN</b> or a <b>To: Index</b> , or several <b>To: indexes</b> in the list.
9	Accept the changes.
	Click <b>OK</b> .



## Export a handset subscription

Figure 50  
DECT Subscriptions window and Export Subscription window



**Note:** For further information, refer to “Export subscriptions” in *DECT Overview* (553-3601-103).

Complete the following steps.

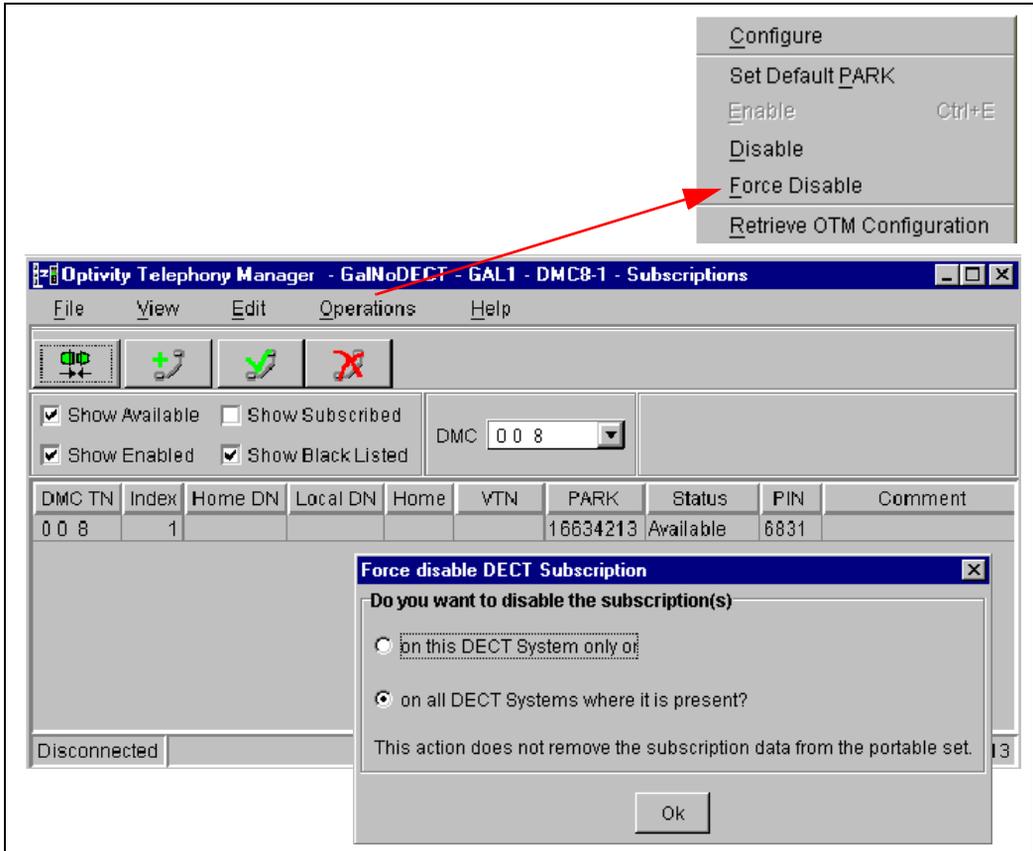
**Table 57**  
**Export handset subscription**

Step	Action
1	Using Windows, login to OTM. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 20 to page 23.
2	Using a web-based navigator, open the Administrator login screen and login. Select the System Navigator. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 24 to page 28.
3	Open the Subscriptions window.
	Follow the instructions on page 29.
4	Open the Export DECT Subscription dialog.
	From the <b>Find</b> pull-down menu, click on <b>Export</b> .
5	Select a handset subscription(s) to export. <b>Note:</b> A single handset, a list of handsets, or all handsets on a DMC can be selected.
	Highlight a <b>DMC TN</b> and an <b>Index</b> , or several <b>indexes</b> in the list.
6	Select a DMC or Index for the subscription(s).
	Highlight a <b>To: DMC TN</b> or a <b>To: Index</b> , or several <b>To: indexes</b> in the list.
7	Accept the changes.
	Click on the <b>OK</b> button.
8	Paste the subscriptions into a file.
	.



## Force disable handset subscription

Figure 51  
DECT Subscriptions window and Force disable DECT Subscription window



**Note:** For more information, refer to “Force disable” in *DECT Overview* (553-3601-103).

Complete the following steps.

**Table 58**  
**Force disable handset subscription**

Step	Action
1	Using Windows, login to OTM. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 20 to page 23.
2	Using a web-based navigator, open the Administrator login screen and login. Select the System Navigator. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 24 to page 28.
3	Open the Subscriptions window.
	Follow the instructions on page 29.
4	Open the Force Disable DECT Subscription dialog.
	From the <b>Operations</b> pull-down menu, click on <b>Force Disable</b> .
5	Select a handset subscription(s) for Force Disabling. <b>Note:</b> Select a single handset, a list of handsets, or all handsets on a DMC.
	Highlight a <b>DMC TN</b> and an <b>Index</b> (or more than one index) in the list.
6	Disable the handset subscription(s).
	From the <b>Operations</b> pull-down menu, click on <b>Force Disable</b> .
7	Disable from this system only.
	Click on <b>OK</b> button.
8	Disable from all systems where the portable set is subscribed.
	Click <b>OK</b> .



## Deleting TNs that are not on the switch

To remove configured sets (TRN status) that are no longer on the switch, perform the following steps:

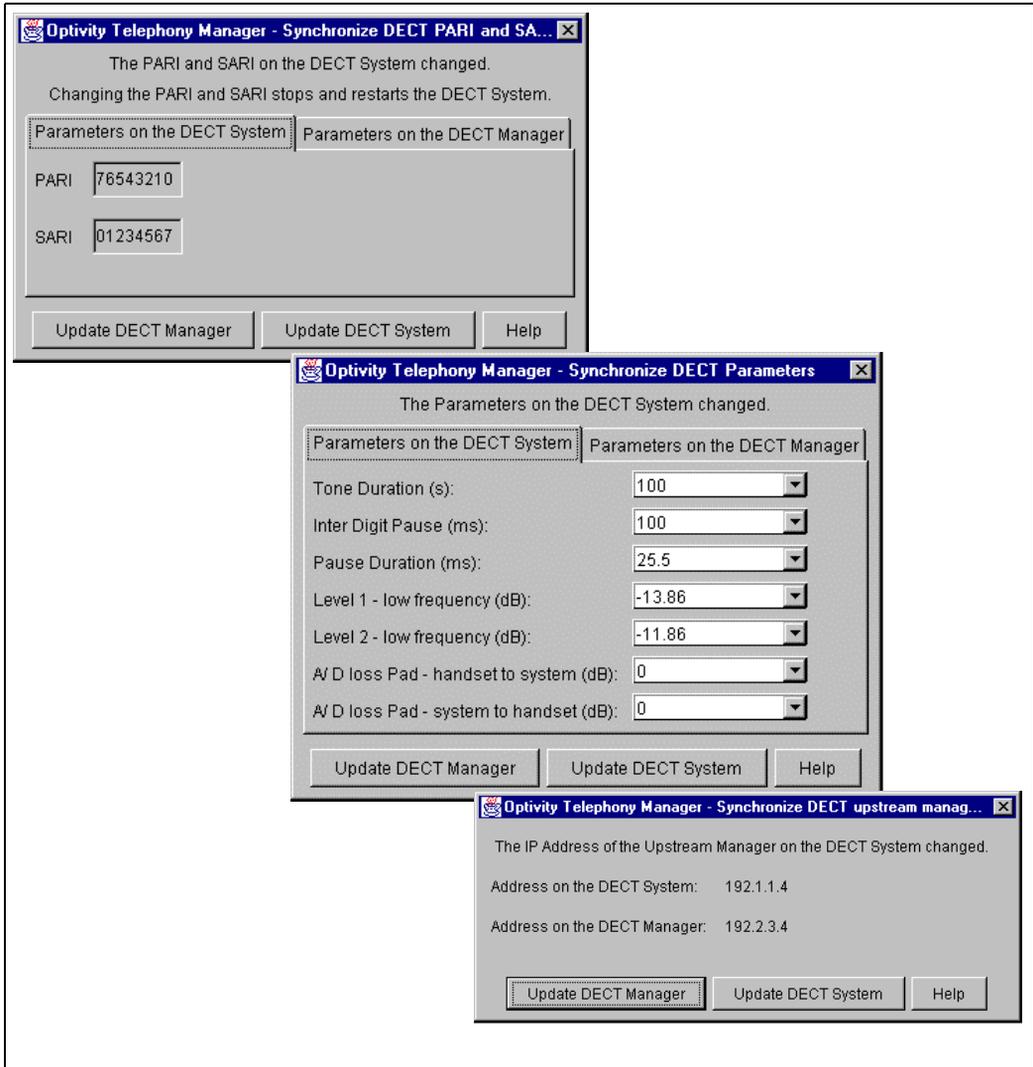
Step	Action
1	Using Windows, log in to OTM. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 20 to page 23.
2	Use a web-based navigator to open the Administrator login screen and log in. Select the System Navigator. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 24 to page 28.
3	Open the Subscriptions window.
	Follow the instructions on page 29.
4	Open the DECT Move Subscription dialog.
	From the <b>Edit</b> pull-down menu, click <b>Global update</b> .
5	Select the sync status <b>SSTAT</b> .
	Set <b>Old value</b> to the current status. Set <b>New value</b> to <b>NEW</b> .
6	Delete the TN's from the switch..



**Note:** Perform this procedure after 500 analog TNs have been converted to concentrated TNs.

## Update data on OTM or update data on a DECT system

Figure 52  
Mismatch dialogs



When the DECT manager connects to a DECT system, synchronization flags any differences between the DECT manager database and the DECT system database with mismatch dialogs. These dialogs are useful when provisioning DECT systems off-site.

See “Provision a DECT system remotely” on page 107, and “Subscribe a DECT system remotely” on page 110.

Complete the following steps.

**Table 59**  
**Update data on OTM**

Step	Action
1	Using Windows, login to OTM. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 20 to page 23.
2	Using a web-based navigator, open the Administrator login screen and login. Select the System Navigator. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 24 to page 28.
3	Select a DECT system.
	Highlight a DECT system from the list.
4	Connect to a DECT System.
	From the <b>Applications</b> pull-down menu, click on <b>Connect</b> or click on the  (green) icon.
5	If any of the dialogs in Figure 53 on page 107 appear, it is necessary to decide to update either the DECT manager or the DECT system.
	Click on either the <b>Update DECT Manager</b> button, or <b>Update DECT System</b> button.



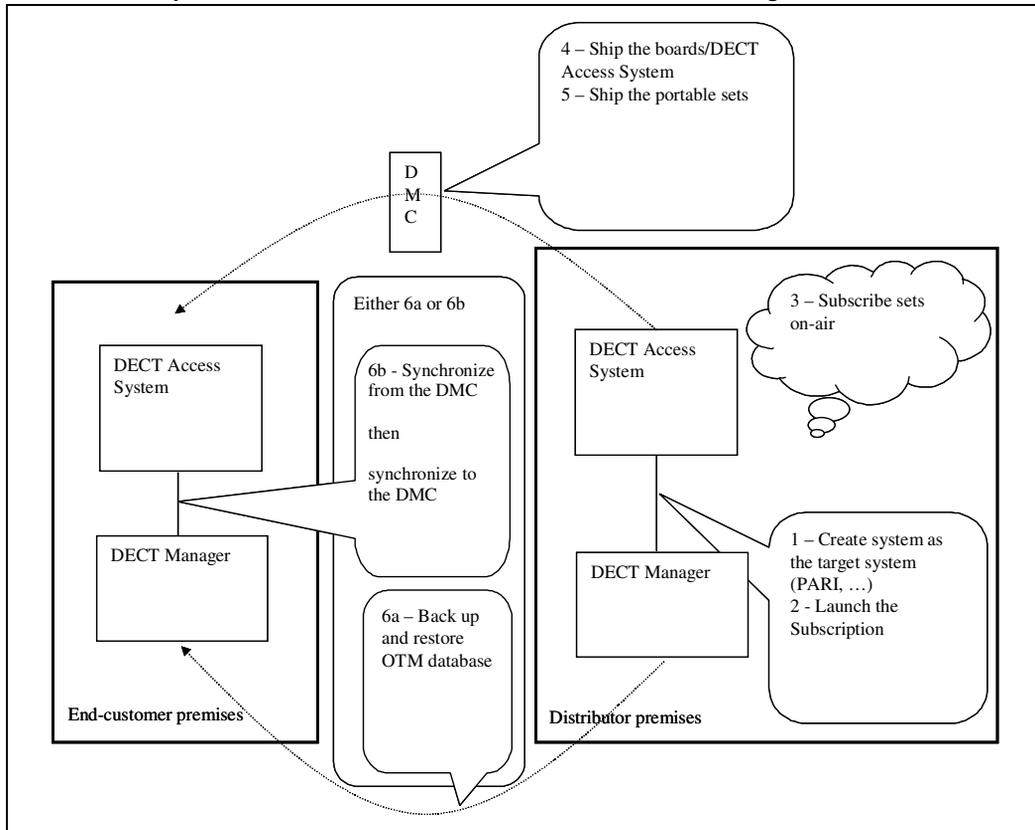
## Provision a DECT system remotely

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

### Remote DMC8 provision where the customer site has a DECT manager

Figure 53

Remote DMC8 provision where the customer site has a DECT manager



Complete the following step.

**Table 60**

**Remotely provision where the customer site has a DECT manager**

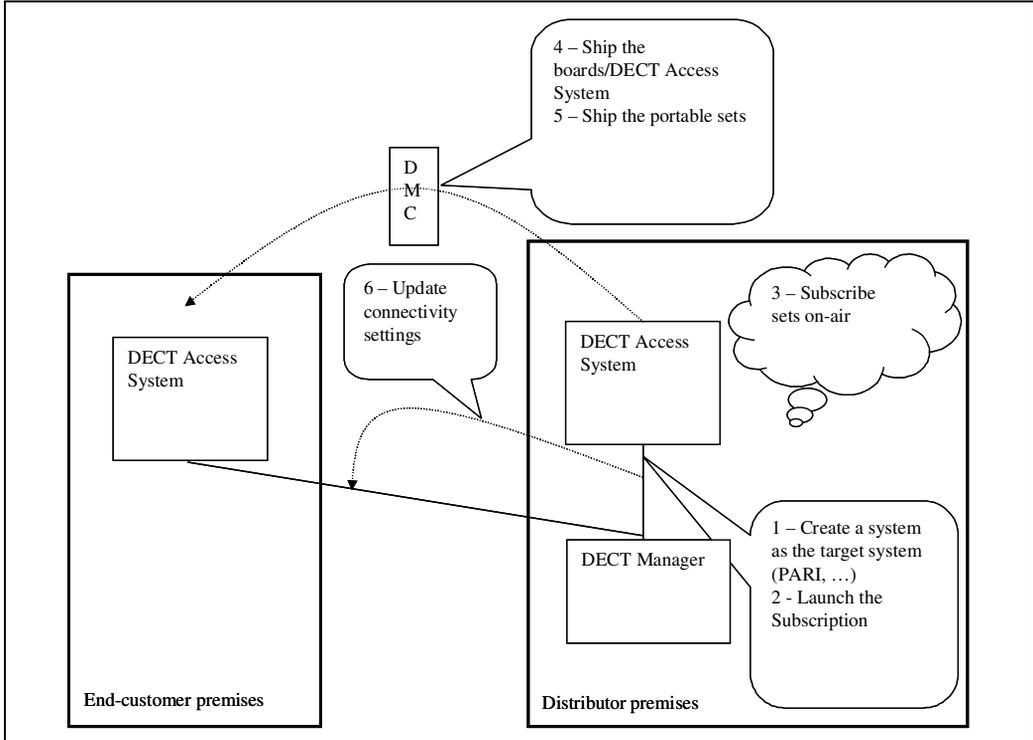
<b>Step</b>	<b>Action</b>
1	Remotely provision DMC8s for a customer site.
	Follow the steps 1 to 6a/6b shown in Figure 53 on page 107.



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

Figure 54

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



Complete the following step.

Table 61

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

Step	Action
1	Remotely provision a customer site.
	Follow steps 1 to 6 shown in Figure 54 on page 109.



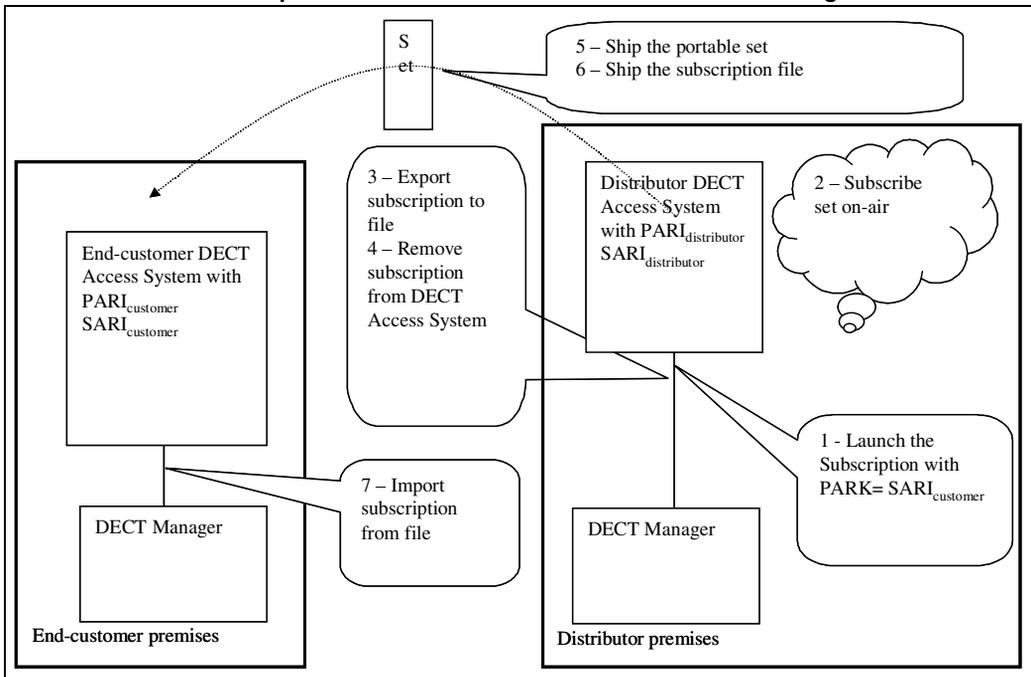
## Subscribe a DECT system remotely

A handset can subscribe itself to any DECT System, regardless of the DECT system Primary Access Rights Identifier (PARI) and Secondary Access Rights Identifier (SARI). In other words, from the handset itself, the handset can be subscribed to a DECT 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 55

Remote handset subscription where the customer site has a DECT manager



Complete the following step.

**Table 62**  
**Update IP address on OTM**

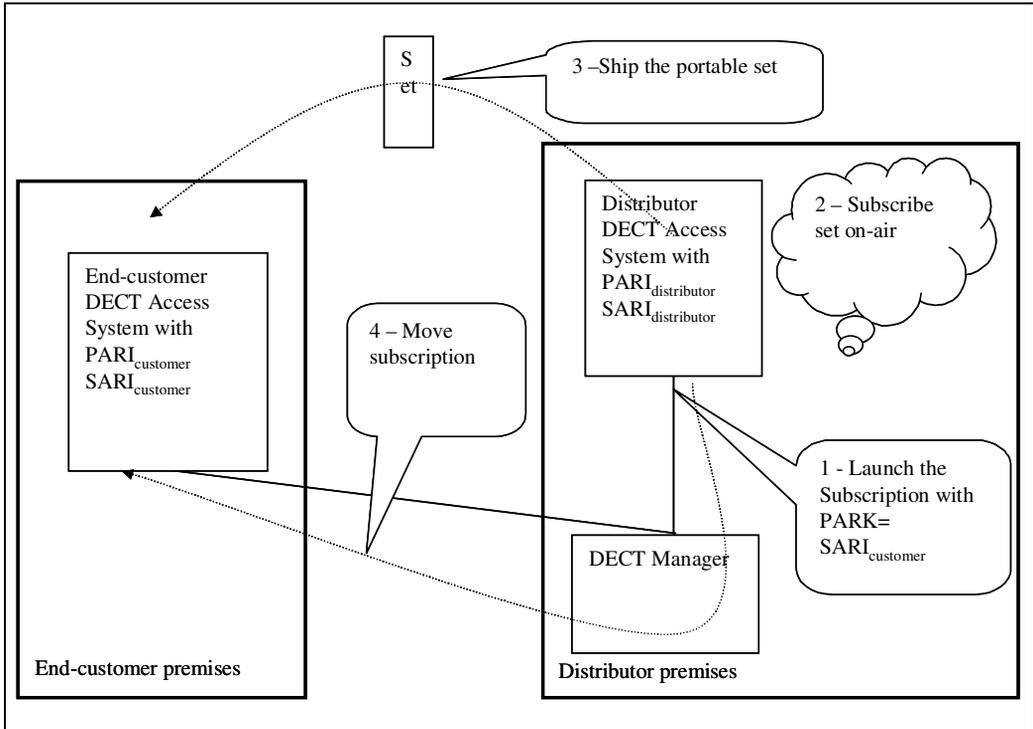
Step	Action
1	Remotely provision a customer site.
	Follow steps 1 to 7 shown in Figure 55.



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

**Figure 56**

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



Complete the following step.

**Table 63**

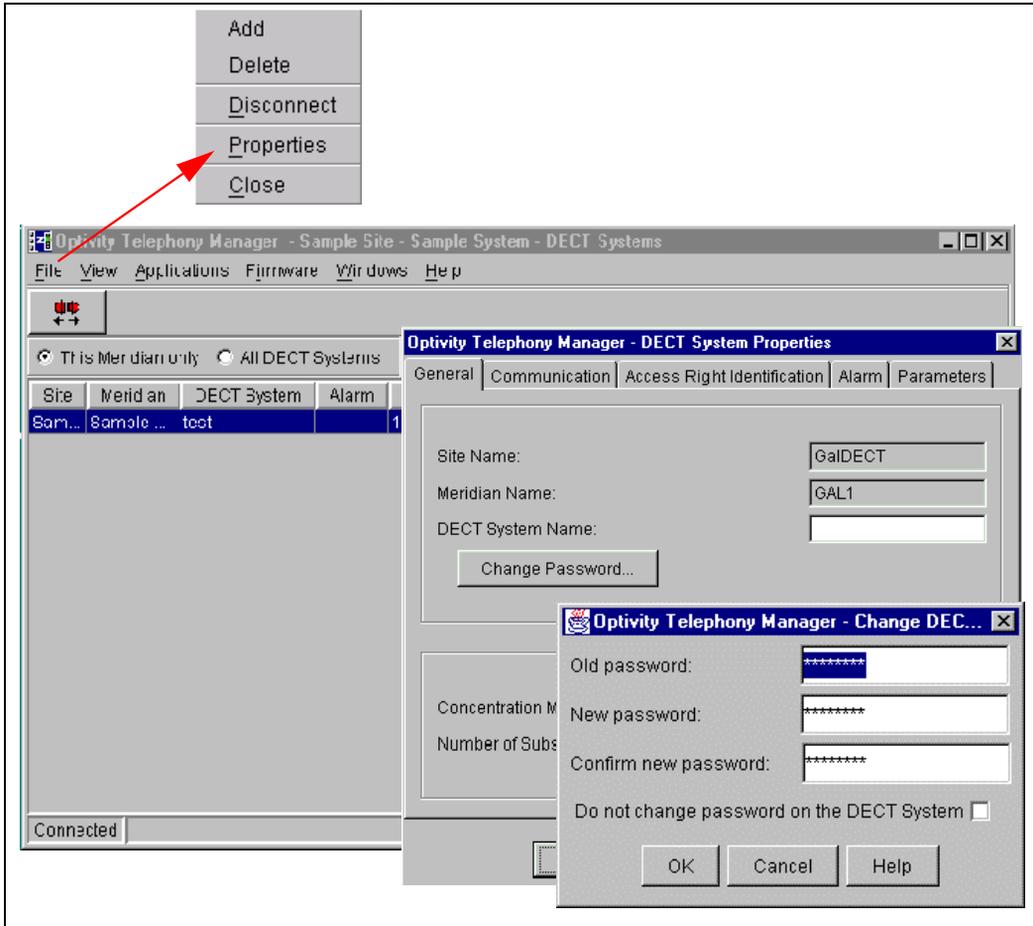
**Update IP address on OTM**

Step	Action
1	Remotely provision a customer site.
	Follow steps 1 to 4 shown in Figure 56.



## Change passwords

Figure 57  
DECT Systems window and Change DECT Password



**Note:** For lost passwords, see “Password recovery” on page 187.

Complete the following steps.

**Table 64**  
**Change passwords**

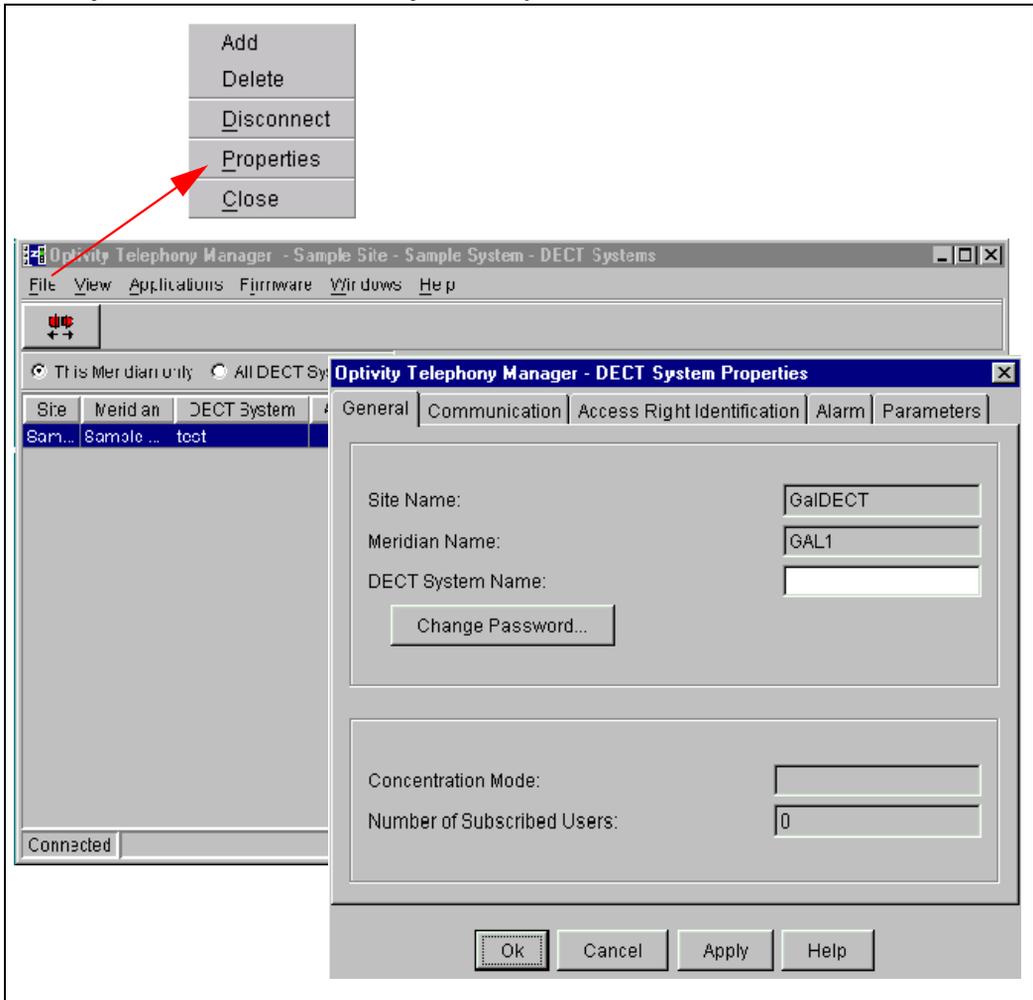
<b>Step</b>	<b>Action</b>
<b>1</b>	Using Windows, login to OTM. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 20 to page 23.
<b>2</b>	Using a web-based navigator, open the Administrator login screen and login. Select the System Navigator., Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 24 to page 28.
<b>3</b>	Open the DECT Systems Properties dialog.
	From the <b>File</b> pull-down menu, click on <b>Properties</b> , and click on the <b>General</b> tab.
<b>4</b>	Select Change Password.
	Click on the <b>Change Password</b> button.
<b>5</b>	Change the password.
	Enter the <b>Old Password</b> , enter the <b>New Password</b> , confirm the <b>New Password</b> , and click <b>OK</b> .



## Change the DECT system name

Figure 58

DECT Systems window and DECT System Properties – General tab



Complete the following steps.

**Table 65**  
**Change the DECT system name**

Step	Action
1	Using Windows, login to OTM. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 20 to page 23.
2	Using a web-based navigator, open the Administrator login screen and login. Select the System Navigator. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 24 to page 28.
3	Open the DECT Systems Properties dialog.
	From the <b>File</b> pull-down menu, click on <b>Properties</b> , and click on the <b>General</b> tab.
4	Change the DECT system name.
	Enter the new name in the <b>DECT System Name</b> box.

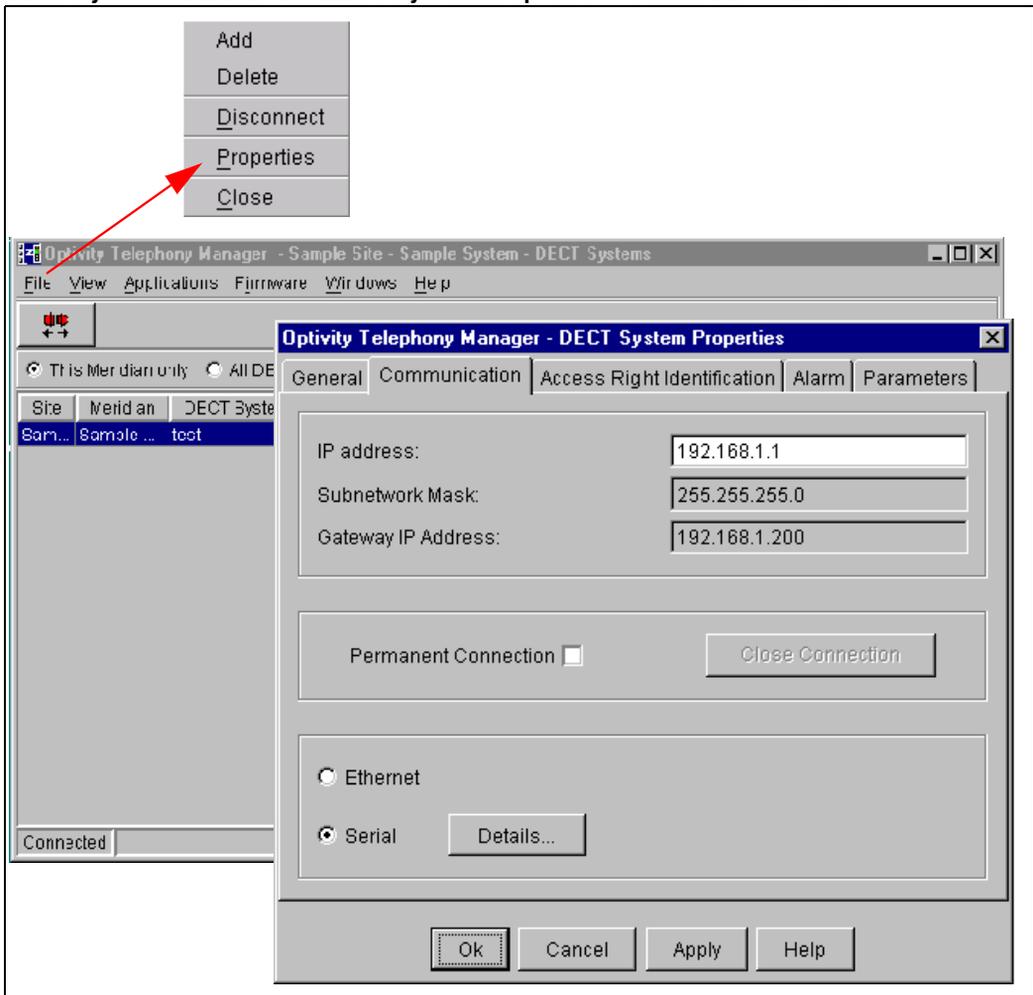


## Change IP address on OTM DECT manager

Before changing the IP address on the OTM DECT manager, close the connection. After the change on the DECT system, open the connection as a safety check.

Figure 59

DECT Systems window and DECT System Properties – Communication tab



Complete the following steps.

**Table 66**  
**Change the IP address on the DECT system**

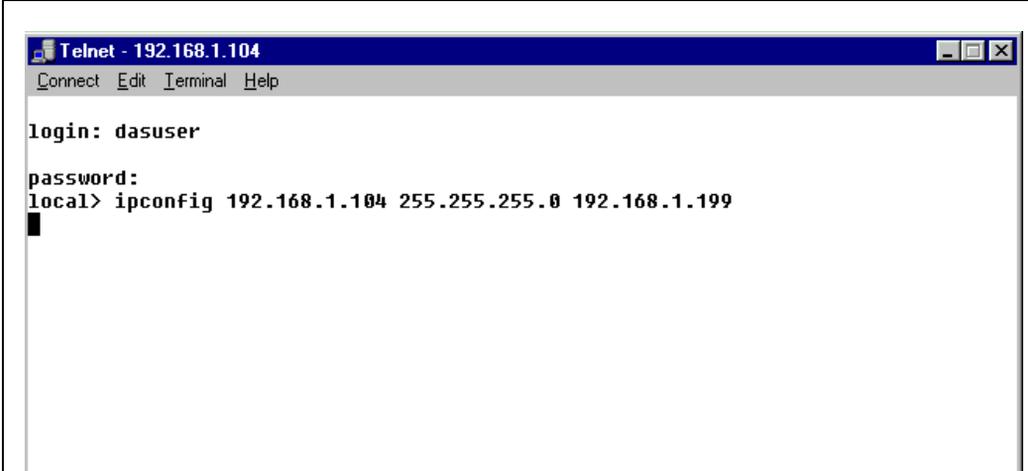
Step	Action
1	Using Windows, login to OTM. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 20 to page 23.
2	Using a web-based navigator, open the Administrator login screen and login. Select the System Navigator. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 24 to page 28.
3	Open the DECT Systems Properties dialog.
	From the <b>File</b> pull-down menu, click on <b>Properties</b> , and click on the <b>Communication</b> tab.
4	Select Ethernet.
	Click on the <b>Ethernet</b> radio button.
5	Accept the changes.
	Click <b>OK</b> .



## Change IP address on the DECT system DMC8 Relay card

Before changing the DMC8 Relay card's IP address through Telnet, close the connection. After the change on the DECT system, open the connection as a safety check.

**Figure 60**  
**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:

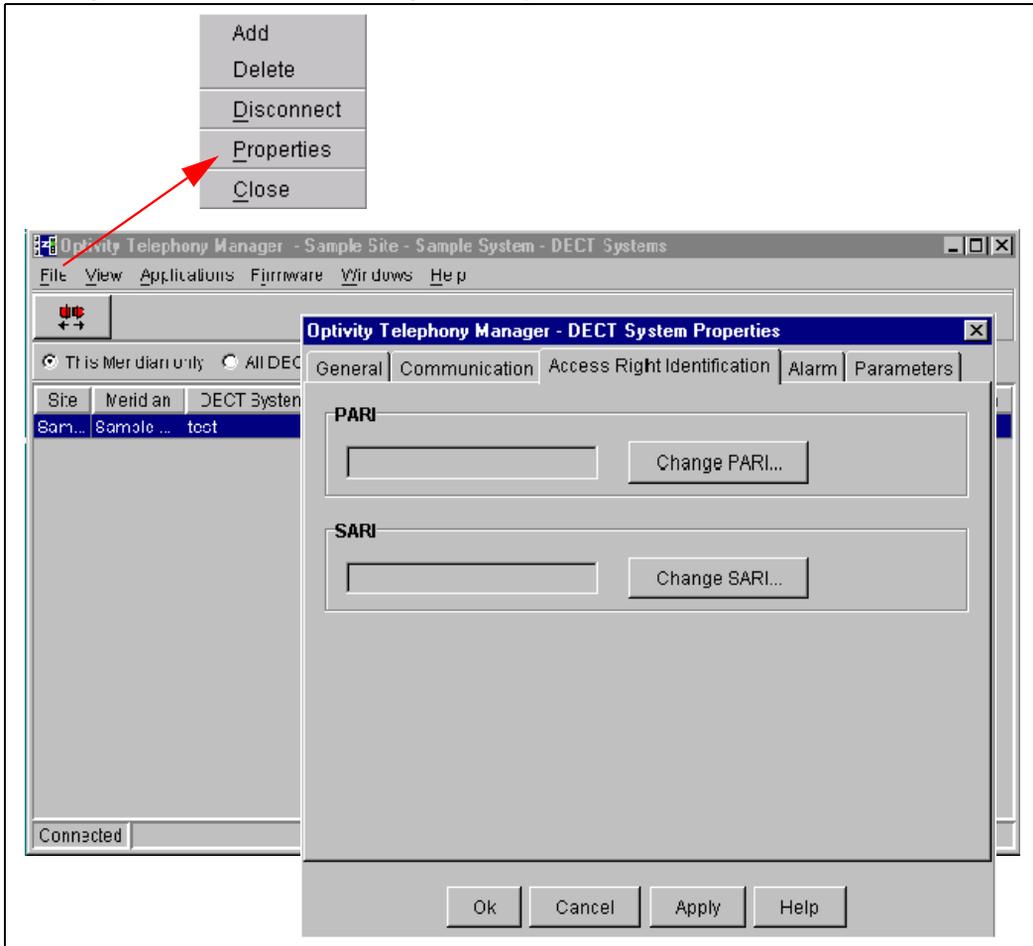
**Table 67**  
**Change the IP address on DECT system DMC8 Relay card**

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

## Change a PARI or SARI

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

**Figure 61**  
DECT Systems window and DECT System Properties – Access tab



Complete the following steps.

**Table 68**  
**Change a PARI or SARI**

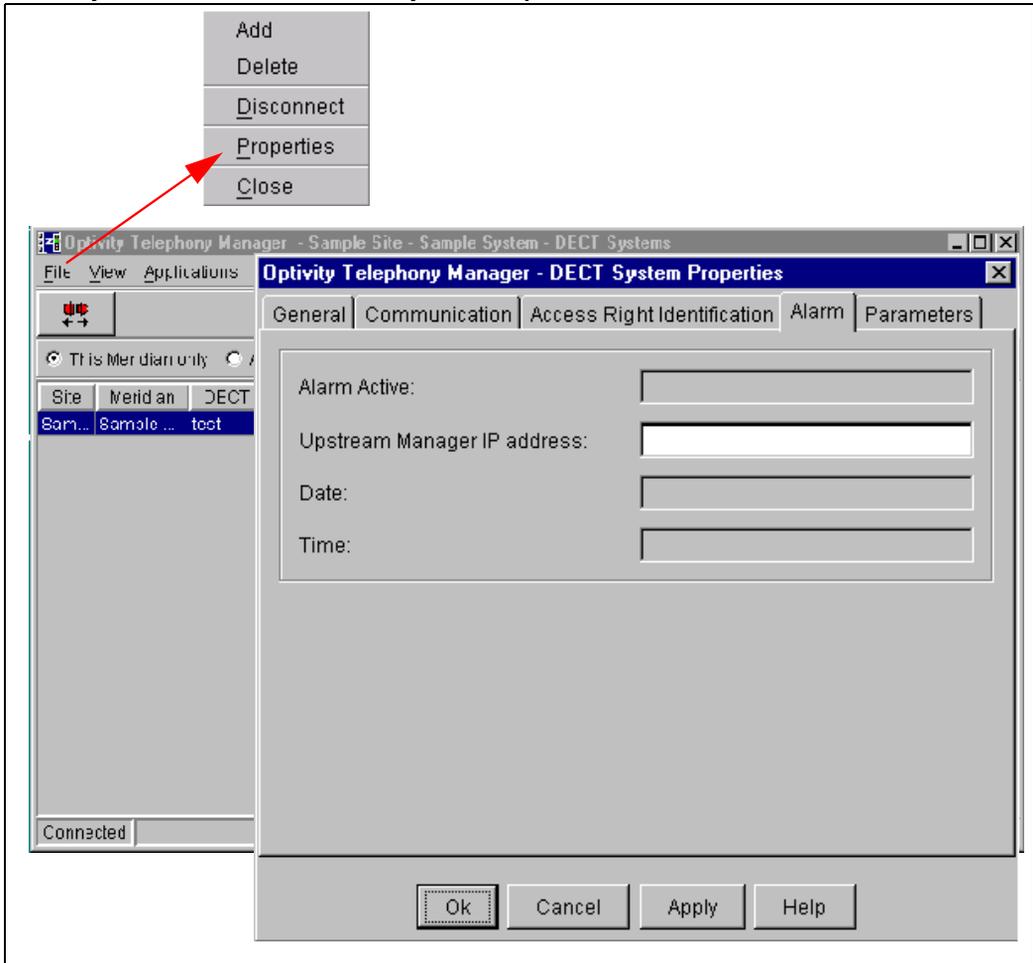
<b>Step</b>	<b>Action</b>
<b>1</b>	Using Windows, login to OTM. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 20 to page 23.
<b>2</b>	Using a web-based navigator, open the Administrator login screen and login. Select the System Navigator. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 24 to page 28.
<b>3</b>	Open the DECT Systems Properties dialog.
	From the <b>File</b> pull-down menu, click on <b>Properties</b> , and click on the <b>Access Right Identification</b> tab.
<b>4</b>	Change the PARI or SARI.
	Enter the <b>PARI</b> or <b>SARI</b> .
<b>5</b>	Accept the changes.
	Click on the <b>OK</b> button.



## Change the Upstream Manager IP address

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

**Figure 62**  
**DECT Systems window and DECT System Properties – Alarm tab**



Complete the following steps.

**Table 69**  
**Change the Upstream Manager IP address**

Step	Action
1	Using Windows, login to OTM. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 20 to page 23.
2	Using a web-based navigator, open the Administrator login screen and login. Select the System Navigator. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 24 to page 28.
3	Open the DECT Systems Properties dialog.
	From the <b>File</b> pull-down menu, click on <b>Properties</b> . Click the <b>Alarm</b> tab.
4	Change the Upstream Manager IP address.
	Enter the <b>Upstream Manager IP address</b> .
5	Accept the changes.
	Click on the <b>OK</b> button.

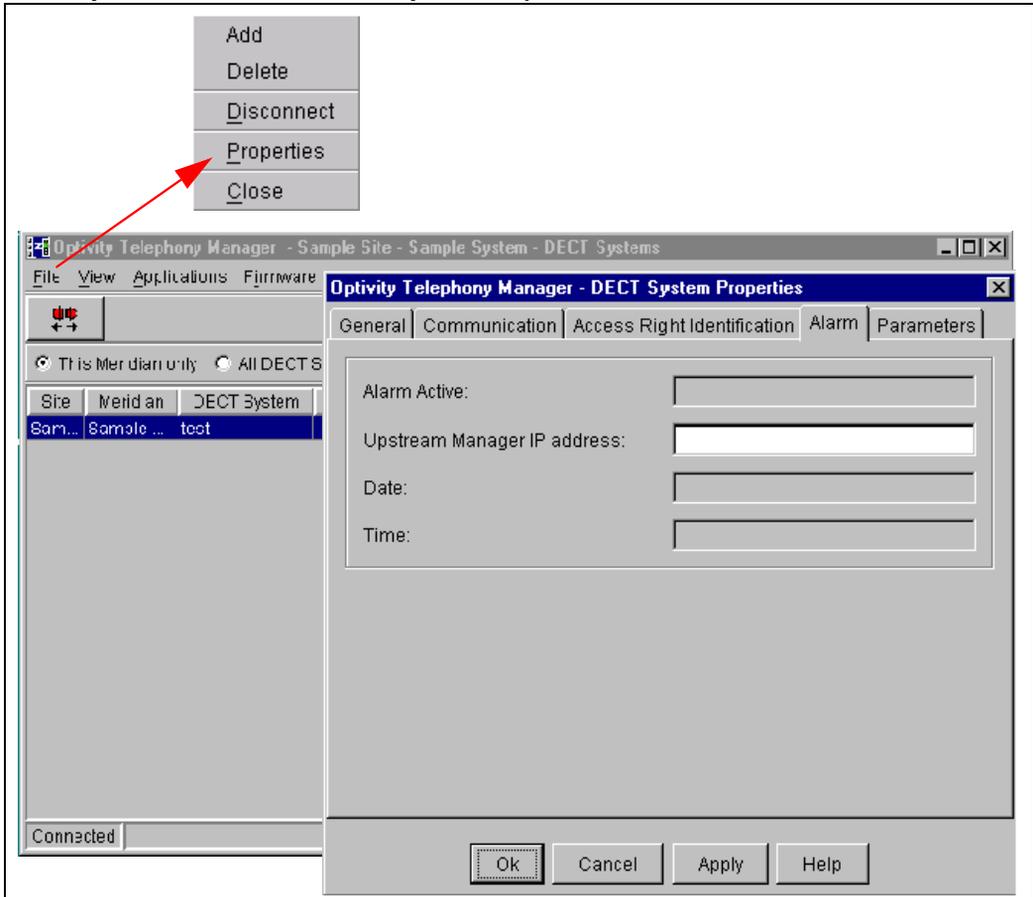


## Change time and date

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

**Note:** The time and date must be changed when the DECT system reboots or a DMC resets.

**Figure 63**  
**DECT Systems window and DECT System Properties – Alarm tab**



Complete the following steps.

**Table 70**  
**Change time and date**

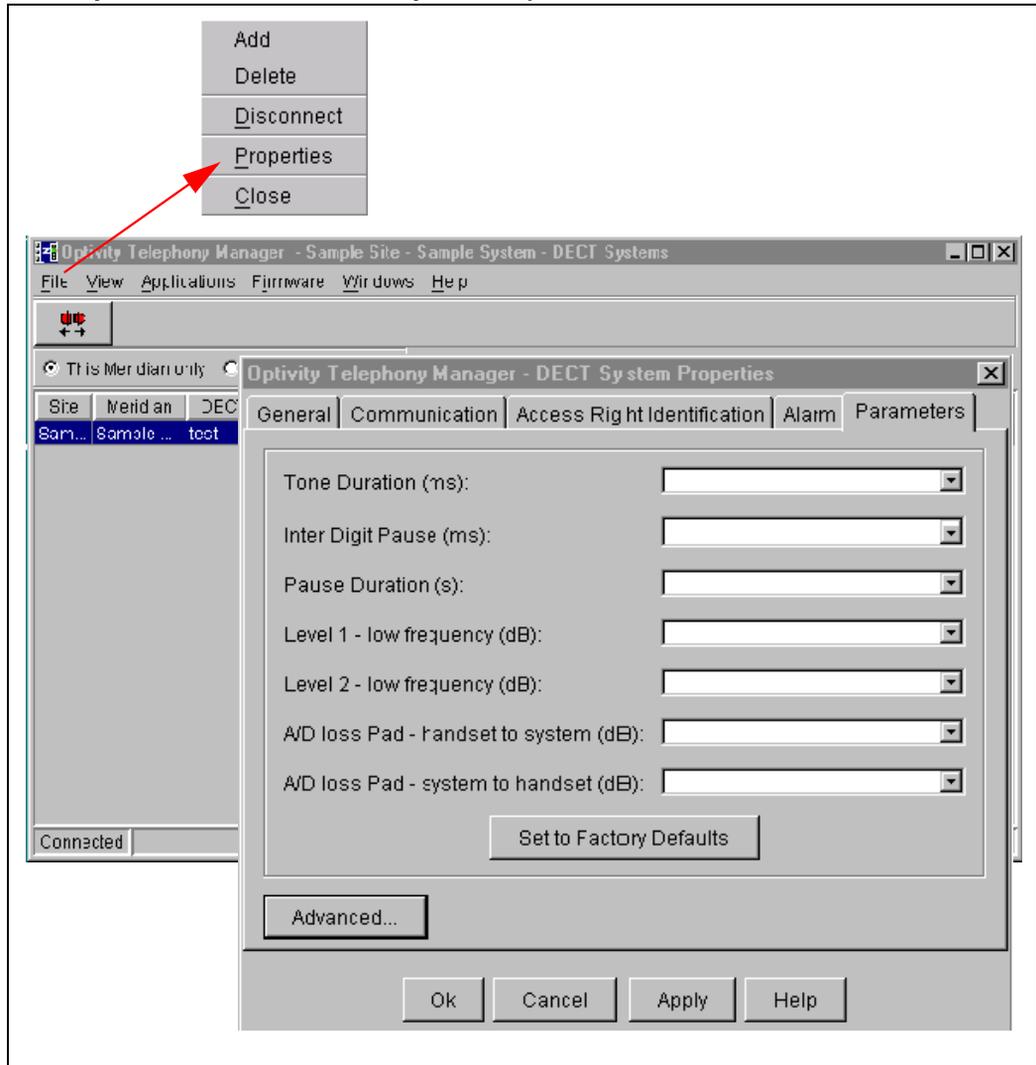
Step	Action
1	Using Windows, login to OTM. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on, page 20 to page 23.
2	Using a web-based navigator, open the Administrator login screen and login. Select the System Navigator. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 24 to page 28.
3	Connect to a DECT System.
	From the <b>Applications</b> pull-down menu click on <b>Connect</b> or  (green).
4	Open the DECT Systems Properties dialog.
	From the <b>File</b> pull-down menu, click on <b>Properties</b> . Click the <b>Alarm</b> tab.
5	Change the time and date.
	Enter the <b>Date</b> and <b>Time</b> .
6	Accept the changes.
	Click the <b>OK</b> button.



## Change parameters

Figure 64

DECT Systems window and DECT System Properties – Parameters tab



Complete the following steps.

**Table 71**  
**Change parameters**

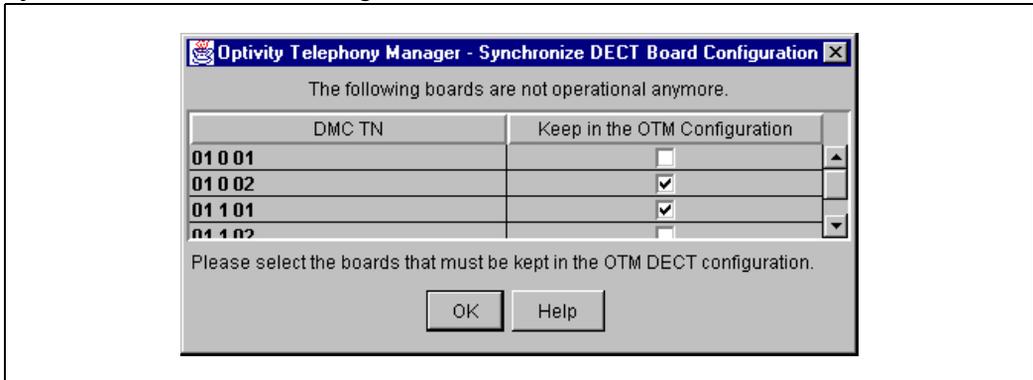
Step	Action
1	Using Windows, log in to OTM. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on, page 20 to page 23.
2	Using a web-based navigator, open the Administrator login screen and login. Select the System Navigator. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 24 to page 28.
3	Open the DECT System Properties dialog.
	From the <b>File</b> pull-down menu, click on <b>Properties</b> . Click the <b>Parameters</b> tab.
4	Change the parameters.
	From the appropriate pull-down menus, highlight the parameter time/level.
5	Accept the changes.
	Click the <b>OK</b> button.



## Keep or remove non-operational DMC8 cards from OTM

*Note:* Figure 65 on page 129 only appears when a connection is established and there is a mismatch. If there is a permanent connection and the DECT system configuration changes, the OTM DECT manager is updated automatically. The change is noted in the OTM event log.

**Figure 65**  
**Synchronize DECT Board Configuration window**



Complete the following steps.

**Table 72**  
**Keep or remove non-operational DMC8 cards from OTM**

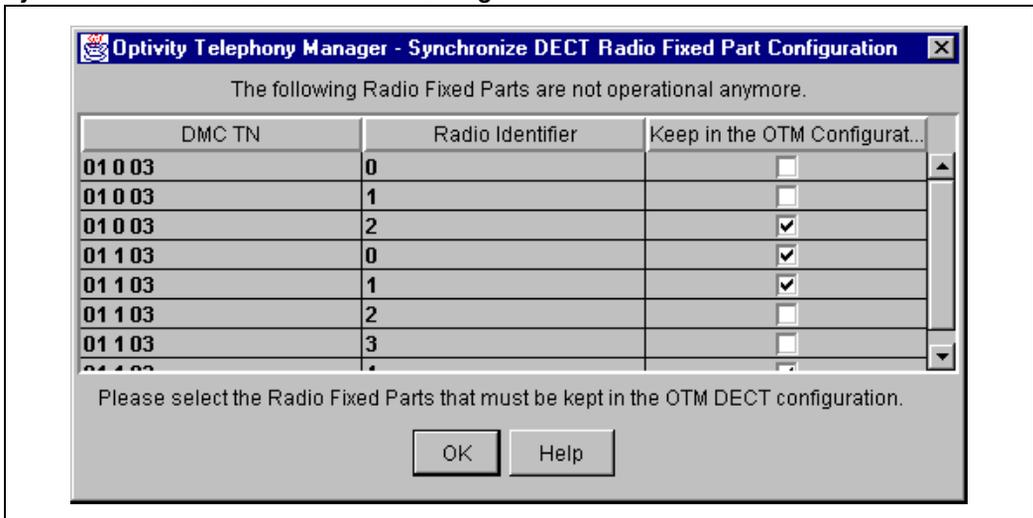
Step	Action
1	To keep DMC8 cards, Delete the check mark from the appropriate box.
2	To remove DMC8 cards, Put a check mark in the appropriate box.
4	Accept the changes. Click the <b>OK</b> button.



## Keep or remove non-operational base stations 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 DECT system configuration changes, the OTM DECT manager is updated automatically and the change is noted in the OTM event log.

Figure 66  
Synchronize DECT Radio Fixed Part Configuration window



Complete the following steps.

**Table 73**

**Keep or remove non-operational base stations from OTM**

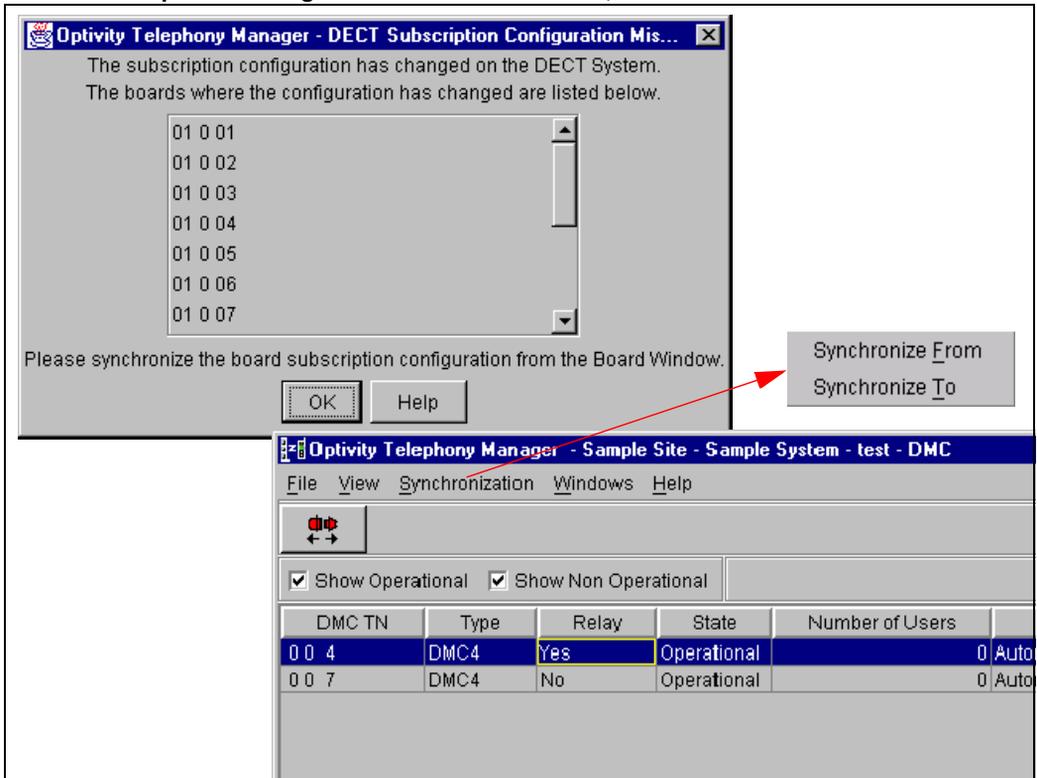
<b>Step</b>	<b>Action</b>
<b>1</b>	To keep base stations, Delete the check mark from the appropriate box.
<b>2</b>	To remove base stations, Put a check mark in the appropriate box.
<b>3</b>	Accept the changes. Click the <b>OK</b> button.



## Resolve a subscription configuration mismatch

*Note:* Figure 67 appears when subscriptions are enabled with the Subscriptions window Operation pull-down menu, clicking on Configure, and not also configuring the handset on the Meridian/Succession with Station Administration.

**Figure 67**  
**DECT Subscriptions Configuration Mismatch window, and DMC window**



Complete the following steps.

**Table 74**  
**Select login options**

<b>Step</b>	<b>Action</b>
<b>1</b>	Using Windows, login to OTM. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 20 to page 23.
<b>2</b>	Using a web-based navigator, open the Administrator login screen and login. Select the System Navigator. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 24 to page 28.
<b>3</b>	Open the DMC window.
	Follow the instructions on, page 29.
<b>4</b>	Store DMC changes from the DECT system in the OTM server,
	In the <b>Synchronization</b> pull-down menu, click on <b>Synchronize From</b> .
<b>5</b>	Make OTM server changes to the DMCs in the DECT system,
	In the <b>Synchronization</b> pull-down menu, click on <b>Synchronize To</b> .

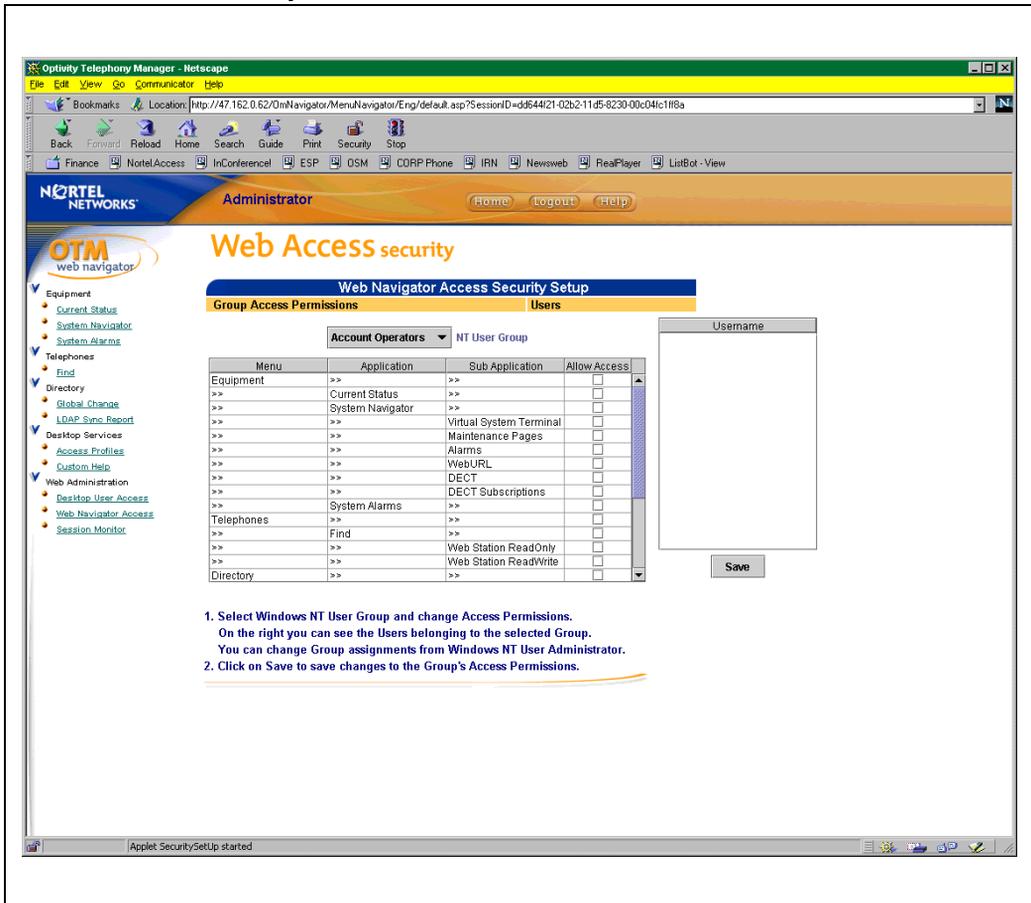


# User Access security

## Web-based navigator Access security

Group access to DECT OA&M features or handset subscriptions can be allowed or denied with the Web Access security window.

Figure 68  
OTM Web Access security



Complete the following steps.

**Table 75**  
**Web-based navigator Access security**

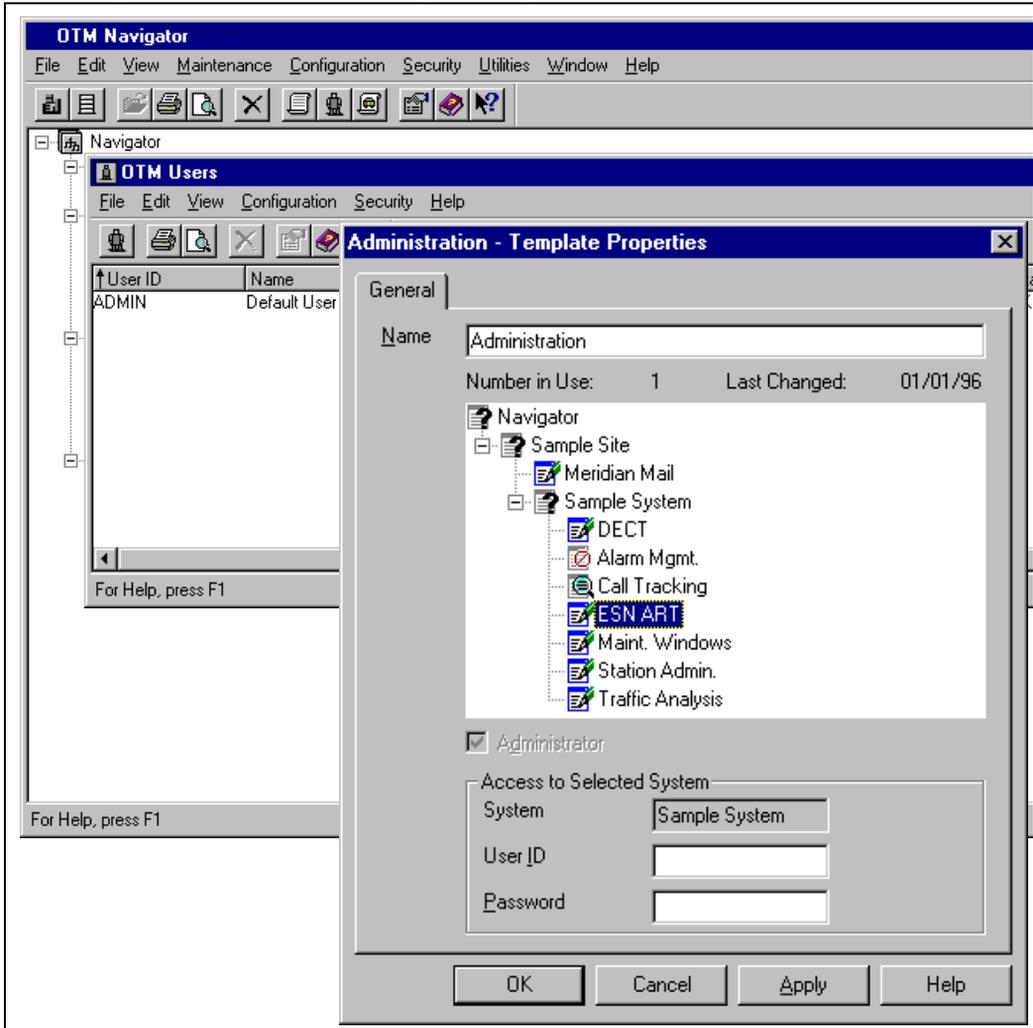
<b>Step</b>	<b>Action</b>
<b>1</b>	Using Windows, login to OTM. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on page 24 to page 28.
<b>2</b>	Select Web Navigator Access.
	Click on <b>Web Navigator Access</b> .
<b>3</b>	Follow the on-screen instructions.
	A check in the Allow Access column boxes permits access for the selected users group. No check in the boxes denies access to the selected users group.



## Windows Access security

Allow or deny Group access to DECT OA&M features with the Windows Administration – Template Properties dialog.

Figure 69  
OTM Navigator, OTM Users, and Template Properties



Complete the following steps.

**Table 76**  
**Windows Access security**

Step	Action
1	Using Windows, login to OTM to open the OTM Navigator window. See "Login to the OTM" on page 20.
2	Open the OTM Users window. From the <b>Security</b> pull-down menu, click on <b>OTM Users</b> .
3	Open the Template Properties. From the <b>Configuration</b> pull-down menu, click on <b>User Templates</b> .
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 <b>Note:</b> * Choosing read only access allows read and write access.





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# Troubleshooting

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## Disconnecting

The passwords on a DMC8 Relay card and a system on the OTM DECT must match.

The default password for both a DMC8 Relay card and an OTM DECT system is **Arsenal**.

If the password on a DMC8 Relay card is not the same as the OTM DECT password, OTM will not be able to connect to the relay card. If the DMC8 Relay card is rebooted, the mismatched password will be accepted for only five minutes. Then the card will disconnect again.

To solve the problem, ensure the password on the system in OTM DECT and the password on the DMC8 Relay card are the same.

It is recommended that the passwords be reset to the default **Arsenal**.

To change the OTM DECT password, see “Change passwords” on page 113.

*Note:* Select the option “Do not change password on the DECT system”.

To change the password on the DMC8 relay card, see “Password recovery” on page 187.

*Note:* Do **not** select the option “Do not change password on the DECT system”.

## Unable to connect with Web Client

For more information, see “MS Internet Explorer and VeriSign Digital Certificates” on page 24, if unable to connect to OTM DECT with Internet Explorer.



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# DECT System maintenance

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## Reference list

The following are the references in this section:

- [Using Optivity Telephony Manager \(553-3001-330\)](#)
- [DECT Installation Guide \(553-3601-203\)](#)

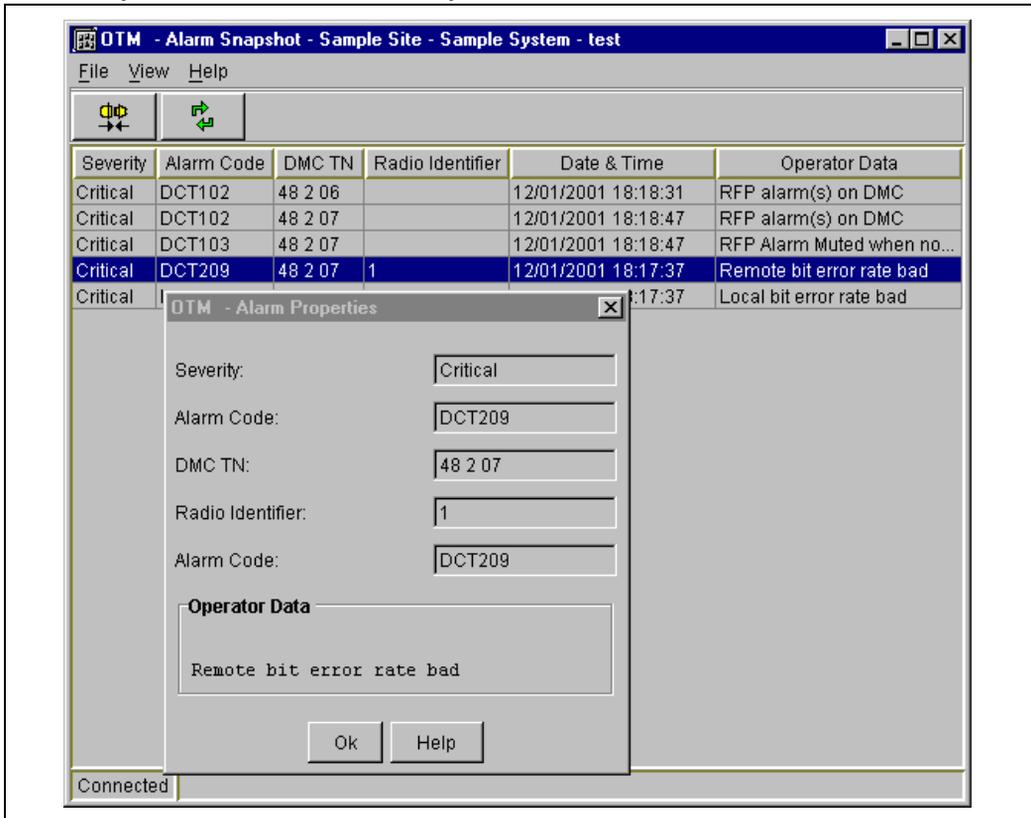
## Alarm Code maintenance actions

Alarm Codes can be viewed with one of the following:

- [Windows Alarm Snapshot \(page 143\)](#)
- [Web Alarm browser \(page 150\)](#)
- [Windows Alarm Notification \(page 151\)](#)

## Windows Alarm Snapshot

**Figure 70**  
Alarm Snapshot window and Alarm Properties window



**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.

Complete the following steps.

**Table 77**  
**Alarm Code maintenance actions**

Step	Action
1	Using Windows, and login to OTM. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window. Open the Current Alarms window.
	Follow the instructions on <a href="#">page 20</a> to <a href="#">page 30</a> .
2	Refresh the Alarm Snapshot window.
	Click on the  icon.
3	Examine the alarm code, and take the appropriate maintenance action.
	See <a href="#">Table 79 on page 151</a> .
	

*Note:* The Windows Alarm Notification browser ([page 151](#)) only displays alarms that have occurred since the window was opened. The Web Alarm browser ([page 150](#)) has a circular log that provides information on a limited history of alarms. The Web Alarm browser records alarms at all times.

**Table 78**  
**Alarms (Part 1 of 5)**

Alarm code	Alarm description	Maintenance action
<b>DMC8 operational state Synthesis</b>		
DCT001	All DMC8 cards 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 card 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.
<p><b>Note:</b> When at least one DMC8 card becomes inoperable, DCT002 appears in the alarm browser history. When all the DMC8 cards become operational again, DCT001 appears in the browser history.</p>		
<b>Presence of an alarm</b>		
DCT101	No alarms. (DCT101 only displayed in the Alarm browsers).	Information only, no action needed.
DCT102	<ol style="list-style-type: none"> <li>1 DCT102 displayed in the Alarm browsers is an alarm on a DMC8.</li> <li>2 DCT102 displayed in the Alarm Snapshot is an alarm on a base station.</li> </ol>	<ol style="list-style-type: none"> <li>1 Open the Alarm Snapshot window for alarm details and perform the corresponding maintenance actions.</li> <li>2 Look for one or more DCT202 to DCT215 alarms in the Alarm Snapshot window, and perform the corresponding maintenance actions.</li> </ol>
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.
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.

**Table 78**  
**Alarms (Part 2 of 5)**

Alarm code	Alarm description	Maintenance action
DCT105	Software alarm(s) on DMC8. Look for one or more DCT401 to DCT403 alarms for details. ( <b>DCT105</b> only displayed in the Alarm Snapshot window.)	Perform the DCT402 to DCT407 maintenance action.
<b>Base station alarms</b>		
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 re-connection does not solve the problem, one of the following could be the cause: <ol style="list-style-type: none"> <li>1 the base station</li> <li>2 the base station's DMC8 card(s)</li> <li>3 a cable problem between the base station and a DMC8 card.</li> </ol>	Disconnect the base station for 30 seconds. <ol style="list-style-type: none"> <li>1 Replace the base station.</li> <li>2 Replace the base station's DMC8.</li> <li>3 Check the faceplate cabling.</li> </ol>
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.
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.

**Table 78**  
**Alarms (Part 3 of 5)**

<b>Alarm code</b>	<b>Alarm description</b>	<b>Maintenance action</b>
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 the interpretation of the alarm snapshot or alarm browser applications; however, the alarm should clear automatically within 200 seconds.
<b>Faceplate cable alarms</b>		
DCT301	No faceplate cable alarm. (DCT301 only displayed in the Alarm browsers.)	Information only, no action needed.
DCT302	The DMC8card 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 DMC8 cards.  If the above procedure does not solve the problem, try to find which DMC8 card gives the error condition by inserting the DMC8 cards one at a time with a minute in between insertions.  If needed, replace the defective DMC8 card or the defect faceplate cables.
DCT303	No faceplate cable synchronization found.  The DMC8 card responsible for this alarm cannot pass the alarm on to the DMC8 Relay card.	Perform the DCT302 maintenance action.
DCT304	The DMC8 card 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 DECT system.
DCT305	The DMC8 card is working; however, there is a timing signal loss within the DMC8.	Perform the DCT302 maintenance action.

**Table 78**  
**Alarms (Part 4 of 5)**

<b>Alarm code</b>	<b>Alarm description</b>	<b>Maintenance action</b>
DCT306	The DMC8 card is working; however, the input of the faceplate cable controller is locked.	Perform the DCT302 maintenance action.
DCT307	The DMC8 card 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 provisioning an additional DMC8.
<b>Software alarms</b>		
DCT401	The DMC8 card is working; however, there is a subscription database corruption.	In the Boards window, <b>Synchronize From</b> the DMC8, then <b>Synchronize To</b> the DMC8.
DCT402	The DMC8 card is located in a card slot position that does not match the DMC8 card subscription data card slot address. The mismatch is due to one of the following: <ul style="list-style-type: none"> <li>the DMC8 card is placed in the wrong card slot position</li> <li>the DMC8 card will not come into service</li> </ul>	Perform the DCT401 maintenance action.
DCT403	Duplicate subscription in the system. A subscription is moved from a source DMC8 card to a destination DMC8 card; however, the original subscription is still present on the source DMC8 card. The DCT403 alarm should always come from both the source and destination DMC8 cards.	Perform the DCT401 maintenance action. If the problem does not clear, look for duplicated subscription IPU in the Subscription Property dialog. Delete the unnecessary subscription from the source DMC8.

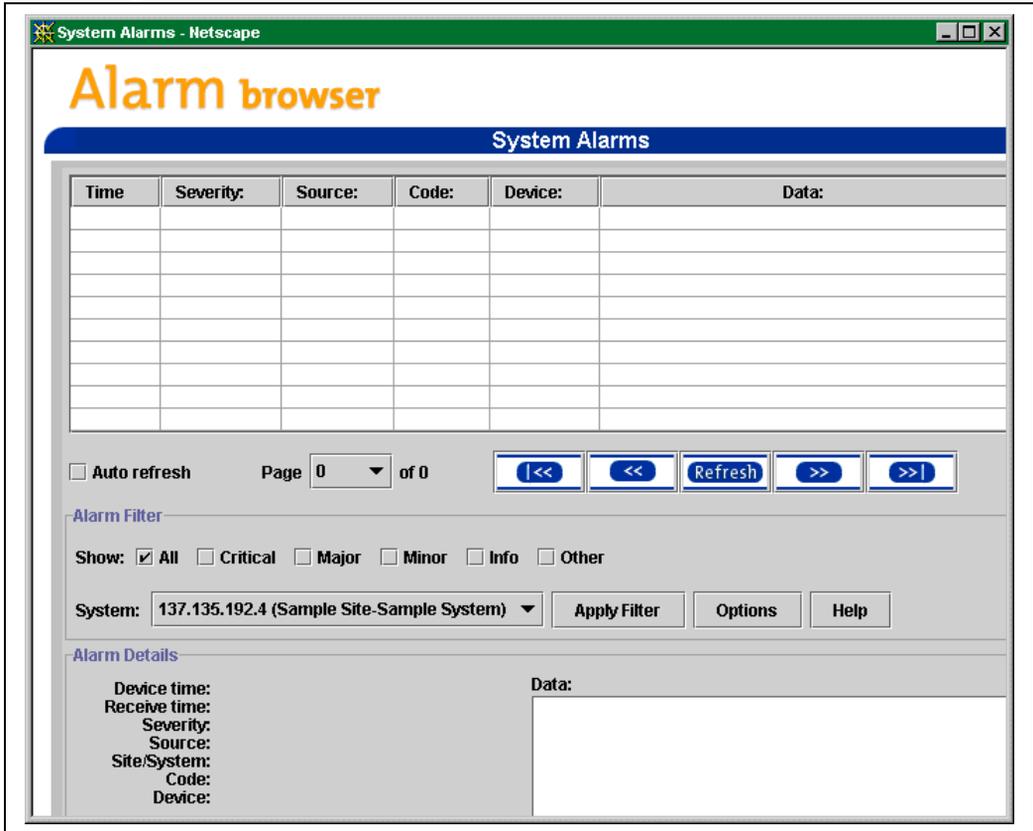
**Table 78**  
**Alarms (Part 5 of 5)**

<b>Alarm code</b>	<b>Alarm description</b>	<b>Maintenance action</b>
DCT404	(DCT404 only displayed in the Alarm browsers.) One of the following events occurred: <ul style="list-style-type: none"> <li>the power was turned on</li> <li>the DMC8 was inserted into the shelf backplane</li> <li>a software exception restarted the DMC8</li> </ul>	If this alarm was caused by a software exception, examine the alarm browsers for details.
<b>Radio Fixed Part alarm muted</b>		
DCT501	Alarms are muted in the RFP window, however the base station does not have any intrinsic alarms.	Use the RFP window to <b>Cancel Mute Alarms</b> .
<b>Backplane controller unit</b>		
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 71  
OTM web System Alarm browser



Complete the following steps.

**Table 79**  
**Alarm Code maintenance actions**

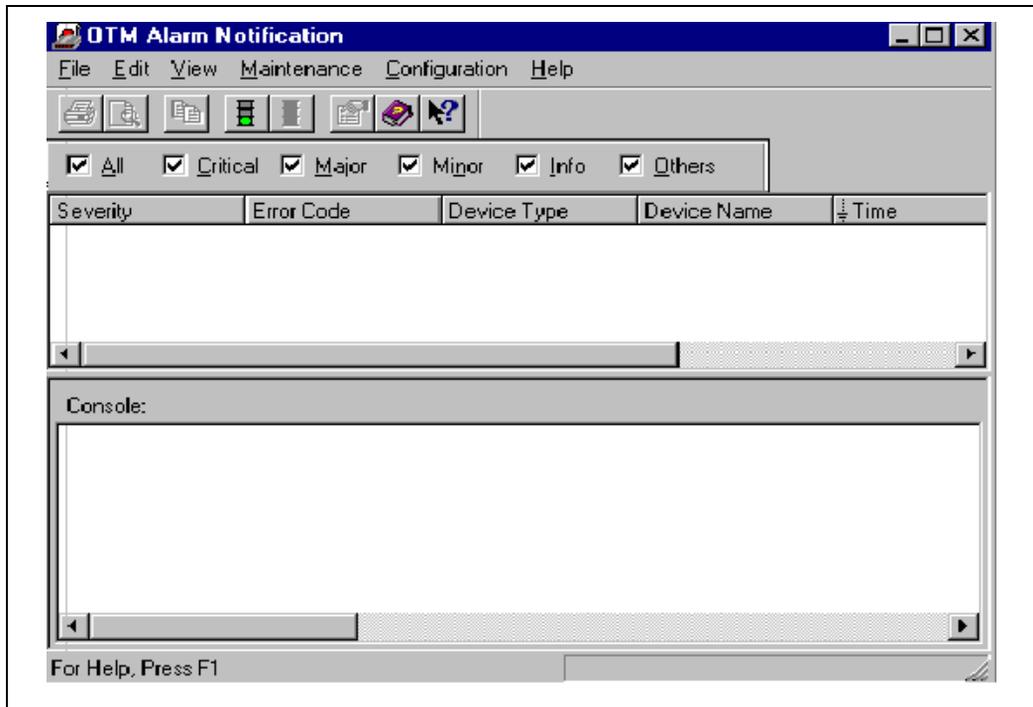
Step	Action
1	Using a web-based navigator, open the login screen and log in. Select the System Navigator. Select the Meridian 1 that supports the DECT system. Select Alarms.
	Follow the instructions on <a href="#">page 24</a> to <a href="#">page 28</a> .
2	Examine the code, and take the appropriate maintenance action.
	See <a href="#">Table 78 on page 145</a> .



## 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 (553-3001-330)*.

**Figure 72**  
**Alarm Notification**



Complete the following steps.

**Table 80**  
**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, <a href="#">page 24</a> to <a href="#">page 28</a> .
2	Examine the Message ID, and take the appropriate maintenance action.
	See <a href="#">Table 78</a> on <a href="#">page 145</a> .



## Event Monitor window

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

**Figure 73**  
**Event Log**

Severity	Date	Time	Applicat	User	Data Group	Computer	Message ID	Message
Info	4/4/01	3:37:26 PM	DECT	ADMIN		47.162.0.62	DCT01001	User ADMIN
Info	4/4/01	2:17:31 PM	DECT	DECT Fr		47.162.0.60	DCT01001	User DECT
Info	4/3/01	5:15:23 PM	DECT	ADMIN		47.162.0.62	DCT01001	User ADMIN
Info	4/3/01	4:26:27 PM	DECT	DECT Fr		47.162.0.60	DCT01001	User DECT
Info	4/12/01	11:13:52 AM	DECT	DECT B.	Sample Site - Sample Sys	47.162.0.62	DCT02000	Connection

For Help, press F1

Record Count: 1 of 373

Complete the following steps.

**Table 81**  
**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 <a href="#">page 24</a> to <a href="#">page 28</a> .
2	Examine the Application column.
	DECT indicates a DECT event.
3	Examine the Data Group column.
	Gives the Site name, PBX name, DECT name.
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 the explanation of Message ID number codes.
	

## LED status for DMC8/DMC8-E and base station

### LED status

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

**Table 82**  
**DMC8/DMC8-E red LED status**

Red LED State	Description	Action
On	The card is in one of the following states: <b>1</b> not programmed <b>2</b> disabled <b>3</b> has faults	<b>1</b> Program the card. See page 132. <b>2</b> Re-enable the card. Use LD 32 ENLC I s c. <b>3</b> Replace the card. See page 157.
Flashes three times	Card is doing a self test.	Wait.
Off	<b>1</b> The card is in service if the yellow LED is off and the green LED is on. <b>2</b> The card has no power if all LEDs are off.	<b>1</b> No action. <b>2</b> Restore power.

**Table 83**  
**DMC8/DMC8-E yellow/green LED status (Part 1 of 2)**

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.

**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**  
**DMC8/DMC8-E yellow/green LED status (Part 2 of 2)**

Yellow LED Status	Green LED Status	Description	Action
Slow flash†	On	Faults caused by one of the following: <ul style="list-style-type: none"> <li>• software download in progress</li> <li>• software distribution in progress</li> <li>• subscription or configuration data is saving to the flash ROM</li> </ul>	Wait. Do not remove the card, removal corrupts the flashROM data.
Off	Fast flash††	Card is synchronizing to the faceplate cable bus.	Wait.
Off	Slow flash†	<ol style="list-style-type: none"> <li>1 Card has no PARI, or has an incomplete PARI.</li> <li>2 Card has detected an error.</li> </ol>	<ol style="list-style-type: none"> <li>1 Contact the technical support group.</li> <li>2 Replace the card. See page 157.</li> </ol>
Off	On	Card is in service.	No action required.
Slow flash†	Slow flash†	Simultaneous occurrence of: <ul style="list-style-type: none"> <li>• card has no PARI, or incomplete PARI and</li> <li>• either software distribution is in progress or subscription or configuration data is saving to the flashROM</li> </ul>	Contact the 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 84**  
**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:

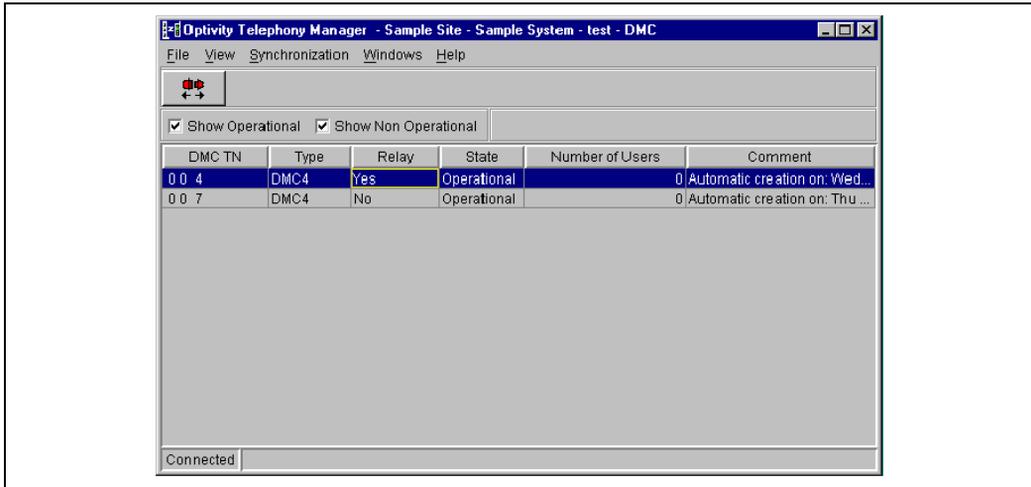
- any calls passing through the separated part of the faceplate bus are dropped.
- handsets configured on a DMC in the separated half cannot make or receive calls through a base station in the other half.

To remove, re-seat, or insert DMC8 card, perform the following actions:

- Backup the data from the DMC8 card to be removed.
- Remove the faulty DMC8 card.
- Insert a working DMC8 card.
- Restore the data to the DMC8 card that was replaced.

## Backup a DMC8 card's configuration and subscription information

**Figure 74**  
DMC window



Complete the following steps.

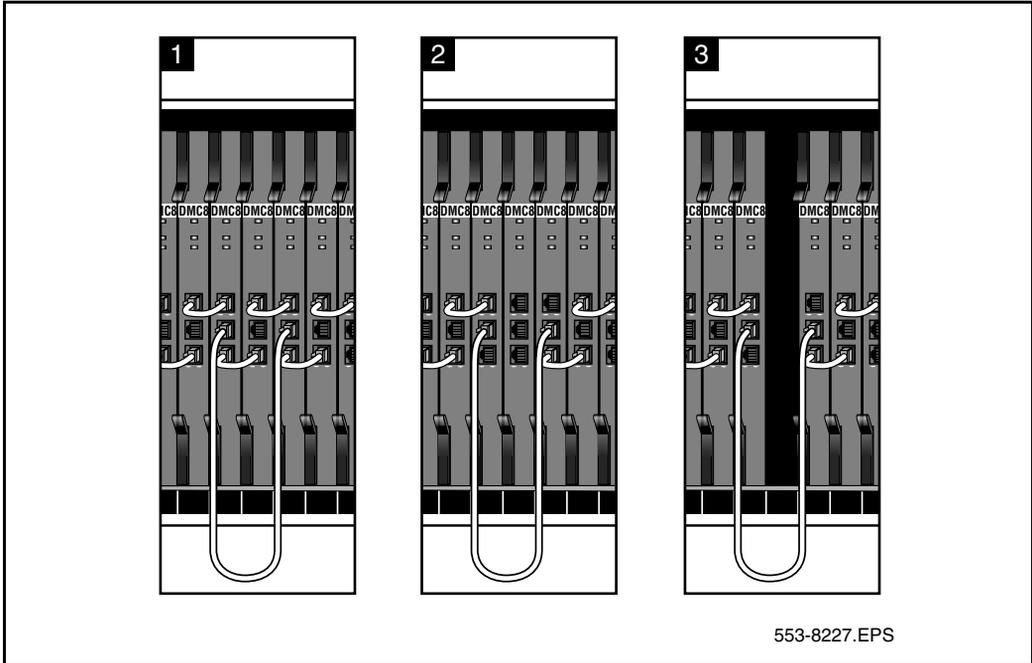
**Table 85**  
**Backup a DMC8 card's configuration and subscription information**

Step	Action
1	Using Windows, login to OTM. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window. Open the Boards window.
	Follow the instructions on <a href="#">page 20</a> to <a href="#">page 30</a> .
2	Select the DMC8 card.
	Highlight the DMC8 card in the list.
3	Save the DMC8 data on the OTM.
	From the <b>Synchronization</b> pull-down menu, click on <b>Synchronize From</b> .



## Remove a faulty DMC8 card

Figure 75  
DMC8 card removal



Complete the following steps.

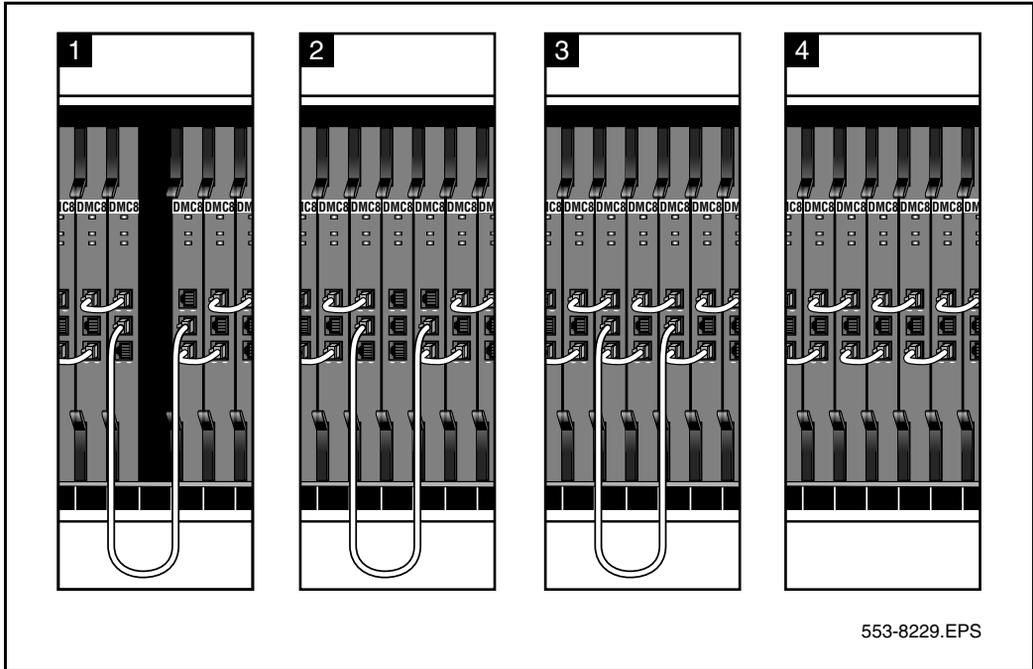
**Table 86**  
**Remove a faulty DMC8 card**

<b>Step</b>	<b>Action</b>
<b>1</b>	Connect the maintenance bypass cable.
	Plug the maintenance bypass cable into the <b>Maint</b> port of the DMC8 cards on either side of the DMC8card to be removed.
<b>2</b>	Disconnect the faceplate cables.
	Detach the faceplate cables from the DMC8 card to be removed and from the cards on either side of it.
<b>3</b>	Remove the DMC8.
	Release the card locking devices and lever the card out of the shelf backplane.



## Insert a serviceable DMC8 card

Figure 76  
DMC8 card insertion



Complete the following steps.

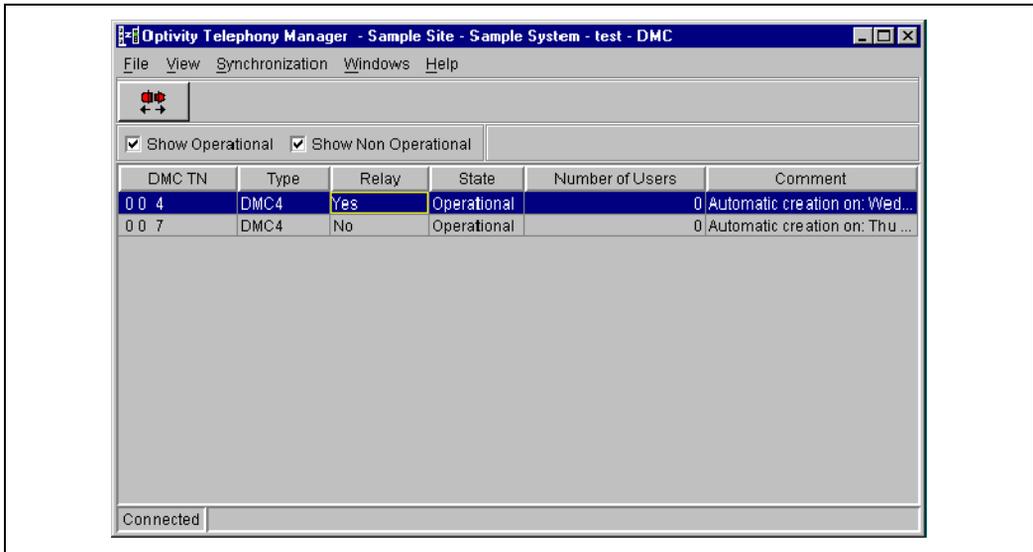
**Table 87**  
**Insert a serviceable DMC8 card**

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



## Restore subscription data to the serviceable DMC8 card

**Figure 77**  
DMC window



Complete the following steps.

**Table 88**  
Restore subscription data to the serviceable DMC8 card (Part 1 of 2)

Step	Action
1	Using Windows, login to OTM. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window, and open the Boards window.
	Follow the instructions on <a href="#">page 20</a> to <a href="#">page 30</a> .
2	Select the DMC8.
	Highlight the DMC8 in the list.

**Table 88**  
**Restore subscription data to the serviceable DMC8 card (Part 2 of 2)**

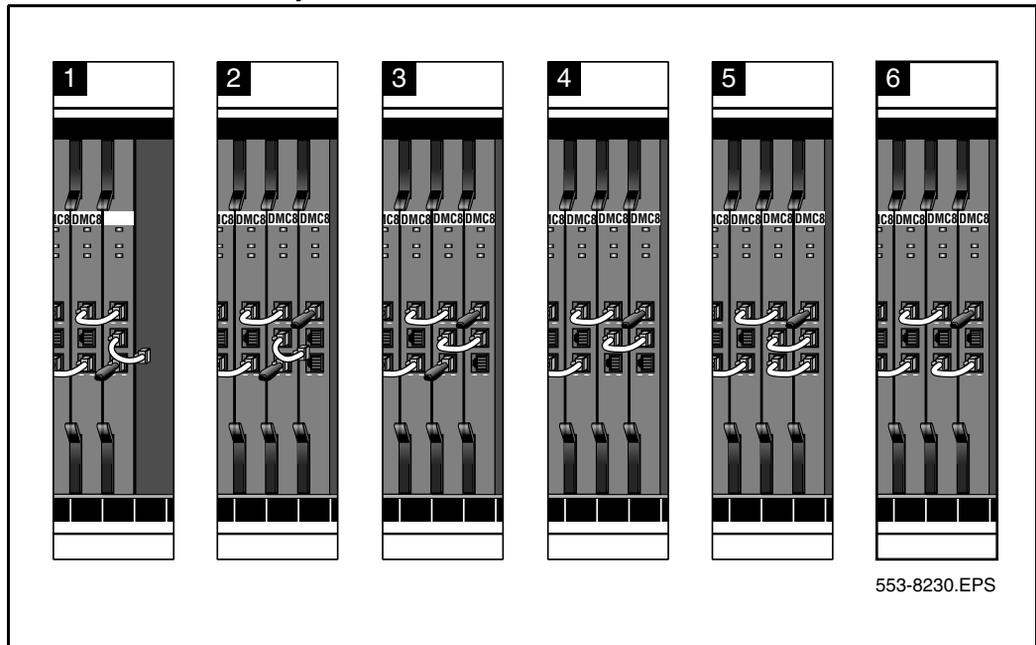
Step	Action
	Save the DMC8 data on the OTM.
	From the <b>Synchronization</b> pull-down menu, click on <b>Synchronize To</b> .



*Note:* Restore only one DMC (Board) at a time.

## Add a DMC8 card to a DECT system

**Figure 78**  
**Add a DMC8 card to the system**



Complete the following steps.

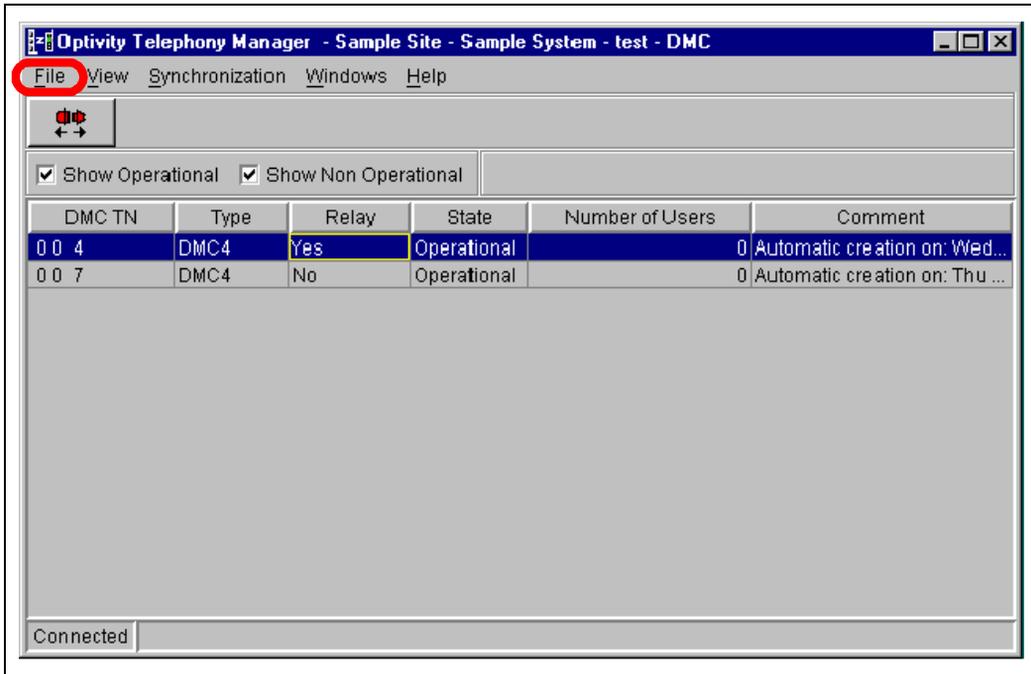
**Table 89**  
**Add a DMC8 card to a DECT system**

Step	Action
1	Connect the bypass cable.
	Plug the bypass cable into the <b>Maint</b> port of the existing DMC8.
2	Insert the DMC8 card, 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 card.
	Plug the bypass cable into the <b>Maint</b> port of the added DMC8 card.
4	Remove the terminating plug from the existing card.
	Remove the terminating plug from the bottom  port of the existing DMC8 card.
5	Connect the faceplate cable.
	Insert the faceplate cables into the bottom  port of the existing DMC8 card and the added DMC8 card.
6	Disconnect the bypass cable.
	Remove the maintenance bypass cable from the <b>Maint</b> port of the existing DMC8 card and the added DMC8 card.
7	Add the DMC8 card to the database.
	Use the procedure on <a href="#">page 163</a> .



## Reuse a DMC8 card in another DECT system

Figure 79  
DMC window



Complete the following steps.

Table 90  
Reuse a DMC8 card in another DECT system

Step	Action
1	Select the DMC8card to be reused. Highlight the DMC8 in the list.
2	Delete the subscriptions from the DMC8 card memory.
	From the <b>File</b> pull-down menu, click on <b>Clear</b> .

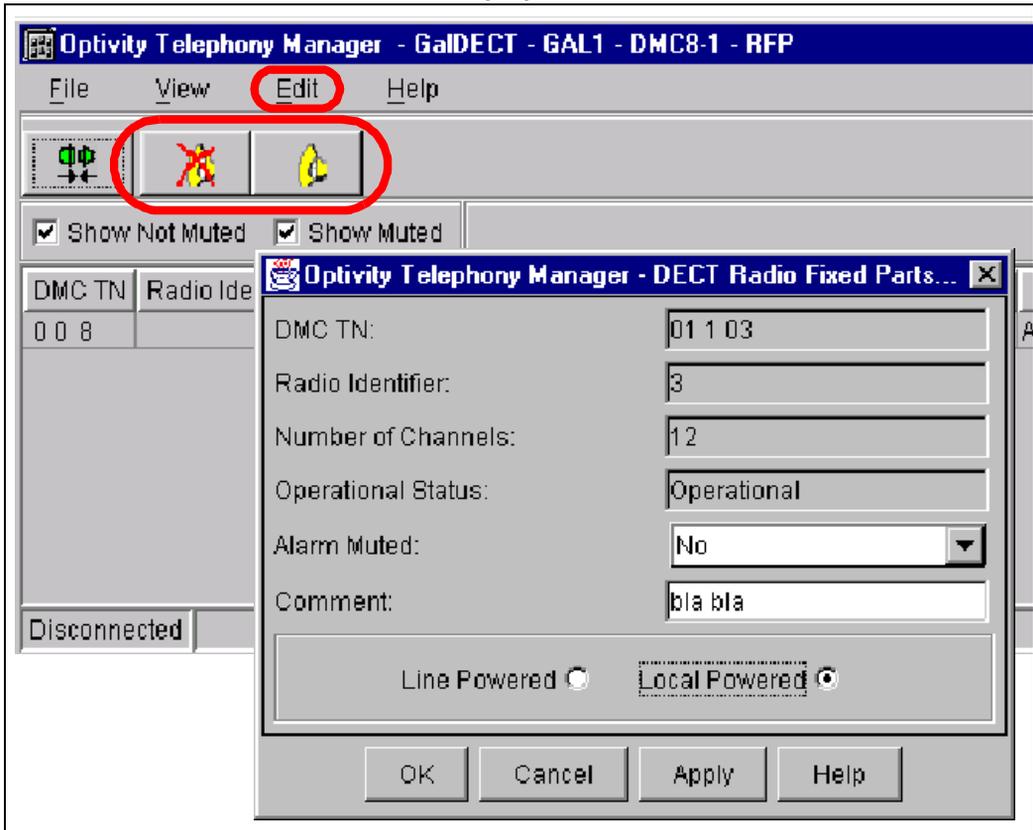


## Remove and re-install a base station for maintenance

### Mute alarms on a base station

Figure 80

RFP window, and DECT Radio Fixed Parts properties window



Complete the following steps.

**Table 91**  
**Mute alarm on a base station**

Step	Action
1	Using Windows, login to OTM. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window, and open the RFP window.
	Follow the instructions on <a href="#">page 20</a> to <a href="#">page 30</a> .
2	Select the DMC8 to mute.
	Highlight the DMC8 in the list.
3	Mute the alarms.
	From the <b>File</b> pull-down menu, click on <b>Mute Alarms</b> , or click on the  icon.
	

## Cancel mute alarms on a base station

Complete the following steps.

**Table 92**  
**Cancel mute alarms on a base station (Part 1 of 2)**

Step	Action
1	Using Windows, login to OTM. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window, and open the RFP window.
	Follow the instructions on <a href="#">page 20</a> to <a href="#">page 30</a> .
2	Select the DMC8 to cancel mute alarms.
	Highlight the DMC8 in the list.

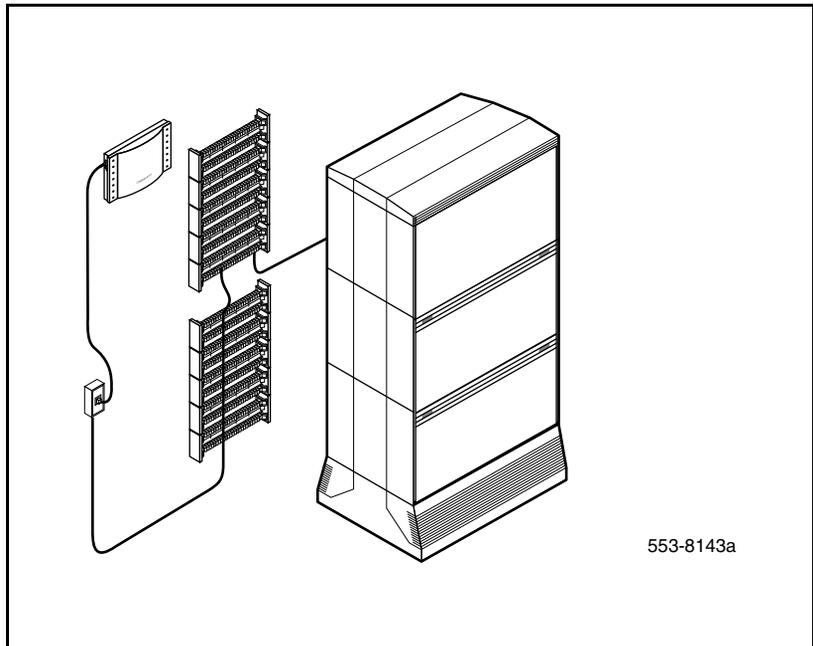
**Table 92**  
**Cancel mute alarms on a base station (Part 2 of 2)**

Step	Action
3	Cancel mute alarms.
	From the <b>File</b> pull-down menu, click on <b>Cancel Mute Alarms</b> , or click on the  icon.

**END**

## Disconnect and /Re-install a base station

**Figure 81**  
**Disconnect/re-install the base station**



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

Complete the following steps.

**Table 93**  
**Disconnect/reinstall a base station**

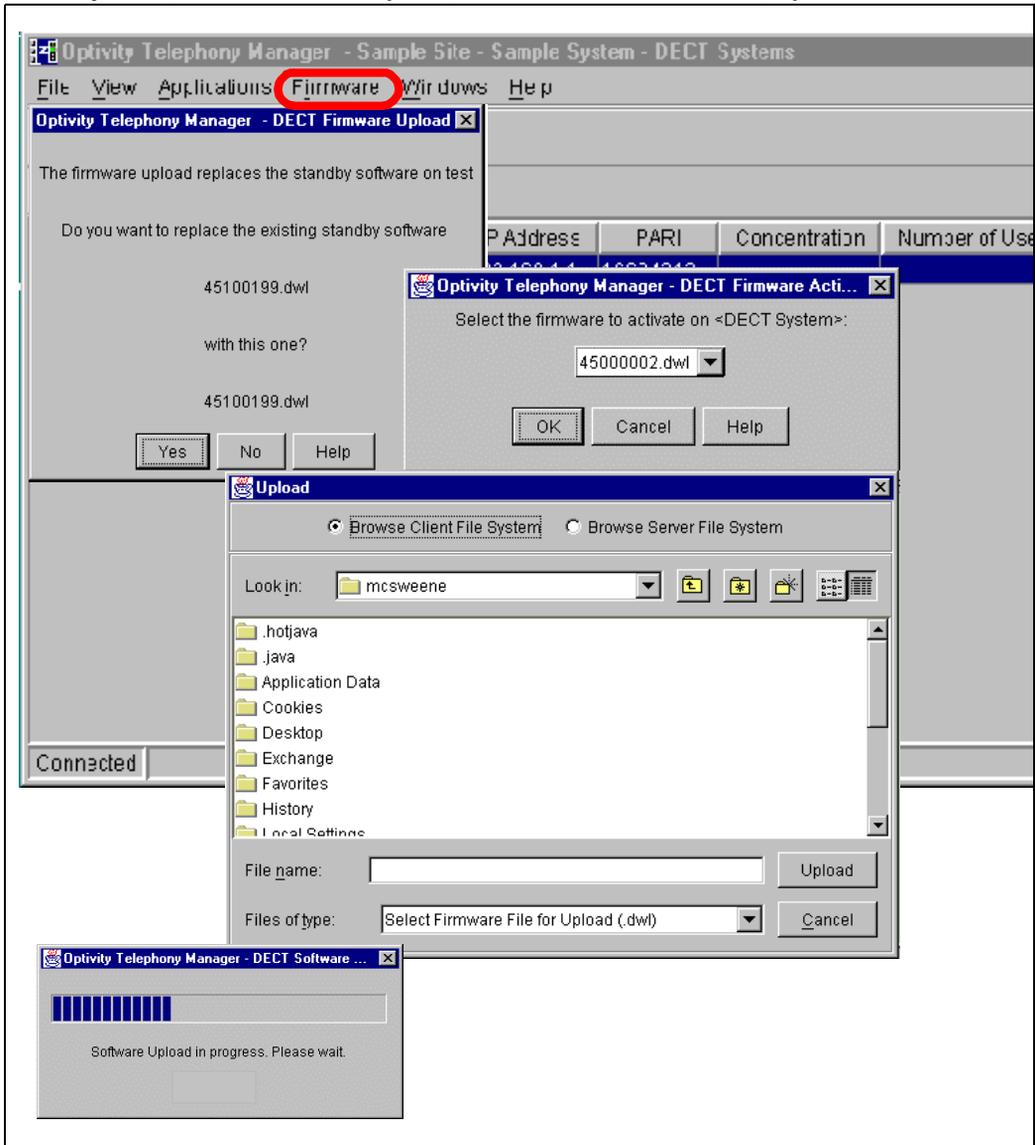
Step	Action
1	Disconnect the RJ-45 cable, MDF side.
	Unplug the RJ-45 cable from the wall socket of the RJ-45 box.
2	Disconnect the RJ-45 cable, base station side.
3	Remove the unserviceable base station from the mounting plate.
4	Re-install a serviceable base station on the mounting plate.
5	Re-connect the RJ-45 cable to the base station.
6	Re-connect the RJ-45 cable, MDF side.



## Firmware upload and activation

Figure 82

DECT Systems, DECT Firmware Upload, DECT Firmware Activation, Upload



Complete the following steps.

**Table 94**  
**Firmware upload and activation**

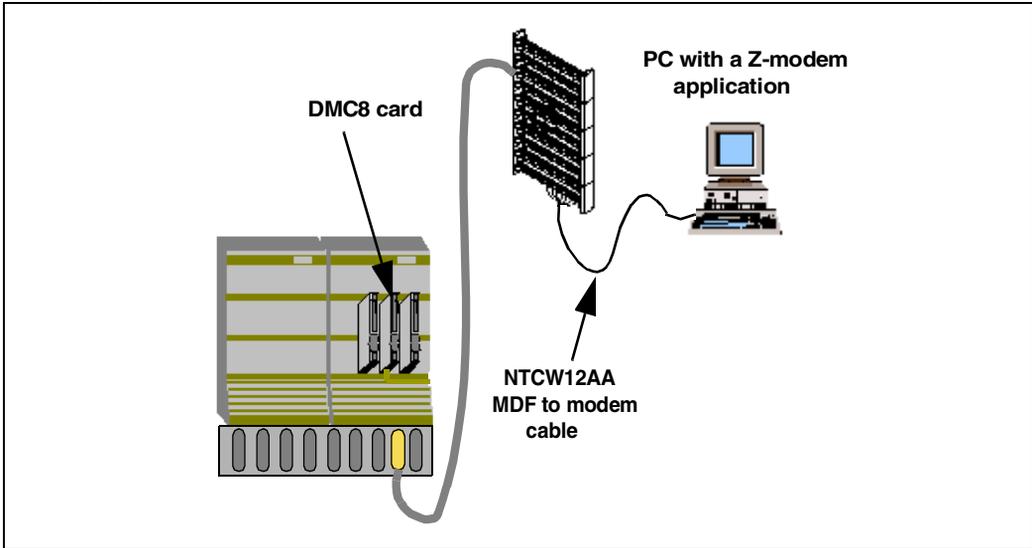
<b>Step</b>	<b>Action</b>
<b>1</b>	Using Windows, login to OTM. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window.
	Follow the instructions on <a href="#">page 20</a> to <a href="#">page 30</a> .
<b>2</b>	Open the Firmware upload dialog.
	Select the <b>Firmware</b> pull-down menu, and click on <b>Upload</b> .



## Recover from a firmware upload failure

It is possible to upload DMC firmware with the V.24 port of a DMC8 card using a PC equipped with Z-modem protocol. During the upload, the DMC8 card 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 83**  
**Recovery upload to a DMC8 card**



Complete the following steps.

**Table 95**  
**Firmware upload and activation (Part 1 of 2)**

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 card to be uploaded.  Refer to <a href="#">Table 96 on page 174</a> for the NTCW12AA cable tip and ring connections.
3	Locate the OTM server COM port.

**Table 95**  
**Firmware upload and activation (Part 2 of 2)**

Step	Action
	Connect the NTCW12AA cable connector into the PC COM port.
4	Unseat the DMC8 card.
	Disconnect the DMC8 card from the shelf backplane.
5	Access Z-modem application; for example, Windows HyperTerminal.
	<b>Start &gt; Programs &gt; Accessories &gt; HyperTerminal.</b>
6	Initiate the file transfer.
	Start the Z-modem application on the PC.
7	Activate the boot program.
	Insert the DMC8 card into the shelf backplane.
	

*Note:* The BIX tip and ring connections shown in [Table 96 on page 174](#) correspond to standard BIX designation. The first pair are labeled T0 and R0. See *DECT Installation Guide (553-3601-203)*, section “Planning and Designating the MDF”.

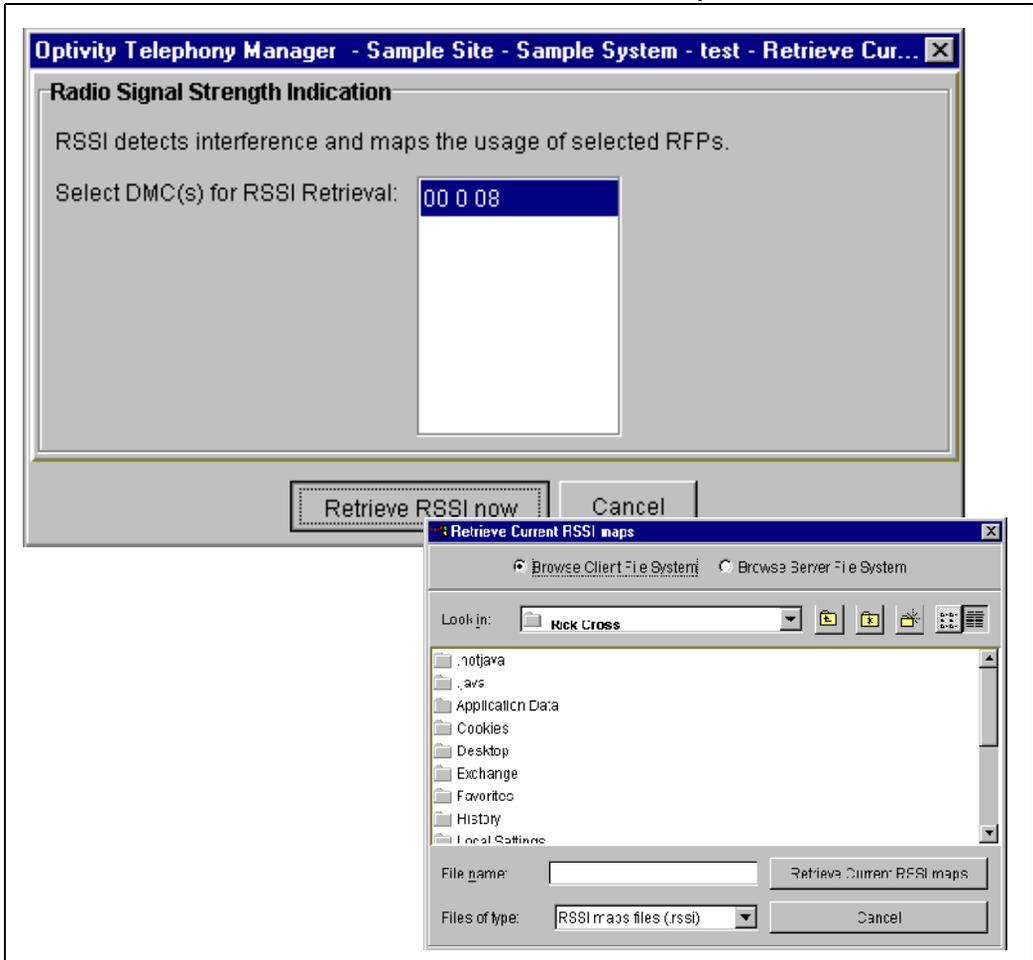
**Table 96**  
**NTCW12AA cable to MDF connections**

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 84**  
Retrieve Current RSSI window, and Retrieve Current RSSI maps window



Complete the following steps.

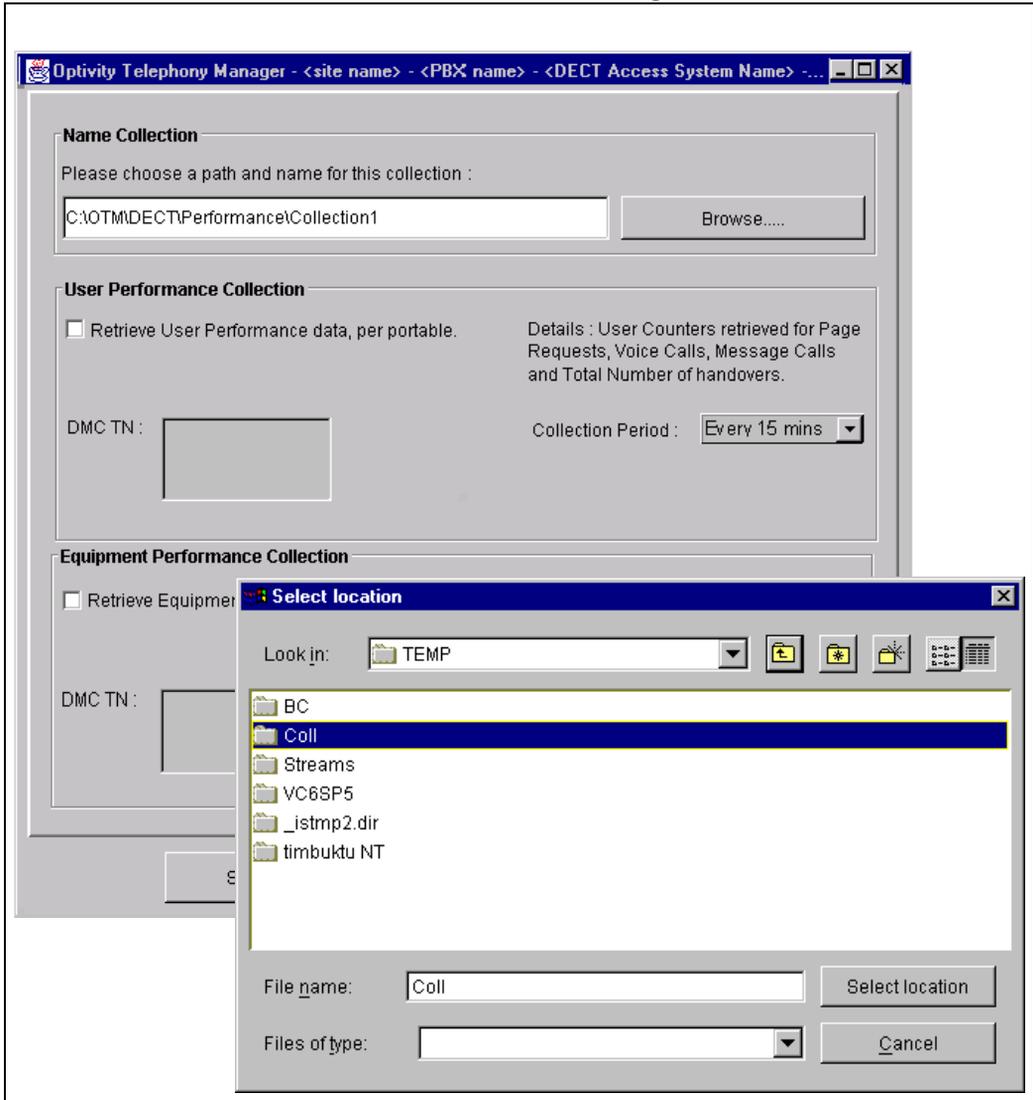
**Table 97**  
**Current RSSI Data**

Step	Action
1	Using Windows, login to OTM. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window, and open the Current RSSI Data window.
	Follow the instructions on <a href="#">page 20</a> to <a href="#">page 30</a> .
2	Select a DMC8 card or cards for RSSI information retrieval.
	Scroll and highlight a TN in the <b>Select DMC(s) for RSSI Retrieval:</b> box.
3	Retrieve the RSSI data.
	Click on the <b>Retrieve RSSI now</b> button.
4	Store the RSSI data.
	Select a file location.
	



## Start/stop User Performance Collection, Equipment Performance Collection

Figure 86  
Performance Collection window and Select location dialog



**CAUTION: Service interruption**

Check to ensure the Performance Collection is not using all the OTM server storage space.

Complete the following steps.

**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 DECT system. Launch the DECT application. Open the DECT Systems window, and open the Performance Collection window.
	Follow the instructions on <a href="#">page 20</a> to <a href="#">page 30</a> .
2	Select a collection name.
	Enter a name or browse for a collection name.
3	Select the check box <b>User Performance Collection</b> or <b>Equipment Performance Collection</b> , or both.
	Click on the check box.
4	Select a collection period. <b>Note:</b> The User Performance Collection period and the Equipment Performance Collection period are independent of each other.
	Highlight a time from the <b>Collection Period</b> box.
5	Select a DMC8 card.
	Highlight a TN from the <b>DMC TN</b> box.
6	Start the collection.
	Click the <b>Start</b> button.
7	Stop the collection.
	Click the <b>Stop</b> button.



## 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 [“Equipment Performance Collection file sample”](#) on page 191

### 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 call
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
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 (Part 1 of 2)**

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. <b>See Radio Head Errors section below.</b>
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
<b>Radio Head Errors</b>	
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

**Table 100**  
**RFP statistical performance data (Part 2 of 2)**

<b>Counter</b>	<b>Description</b>
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 (Part 1 of 2)**

<b>Error code</b>	<b>Description</b>
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
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

**Table 101**  
**RFP Error codes (Part 2 of 2)**

<b>Error code</b>	<b>Description</b>
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 13 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 33 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 33 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

*Example:* upm-brd24\_20010418170924.xml

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

See [“User Performance Collection file sample” on page 193](#)

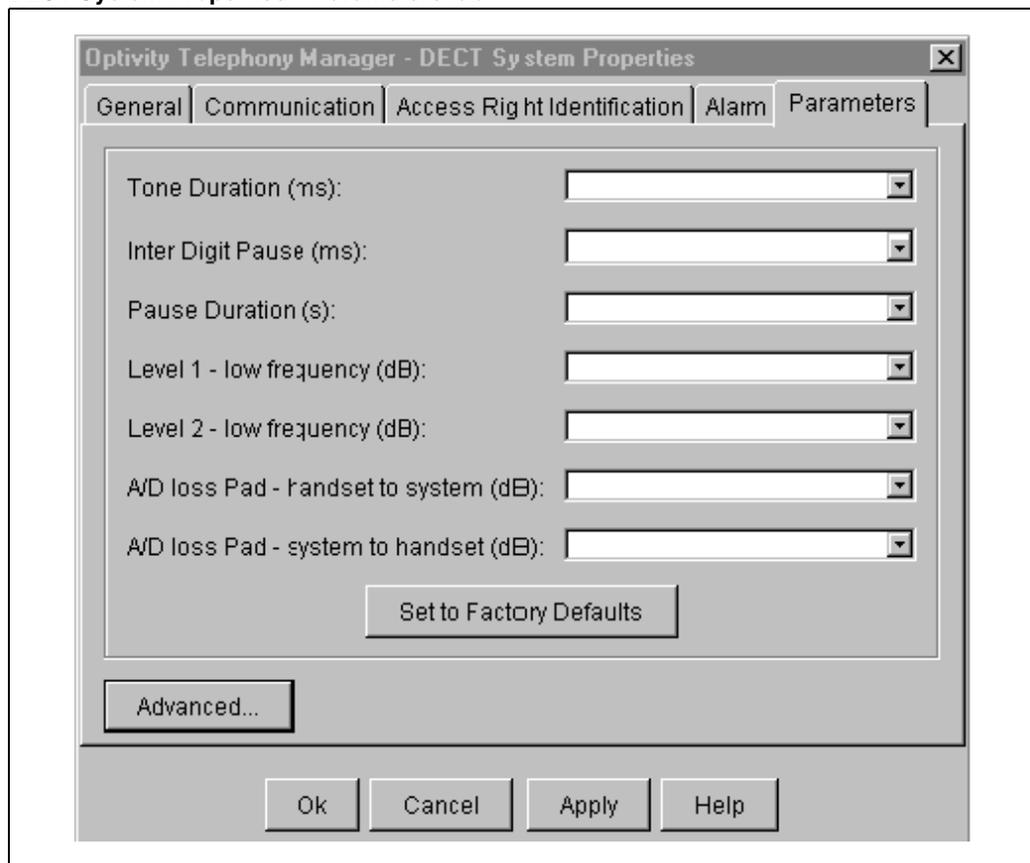
## Statistical Performance Data

**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



Complete the following steps.

**Table 103**  
**Set parameters**

Step	Action
1	Using Windows, login to OTM. Select the Meridian 1 that supports the DECT system, Launch the DECT application. Open the DECT Systems window. Open the Properties dialog, and click on the Parameters tab.
	Follow the instructions on <a href="#">page 20</a> to <a href="#">page 30</a> .
2	Select the parameter.
	Select a pull-down menu item, and click <b>Apply</b> .

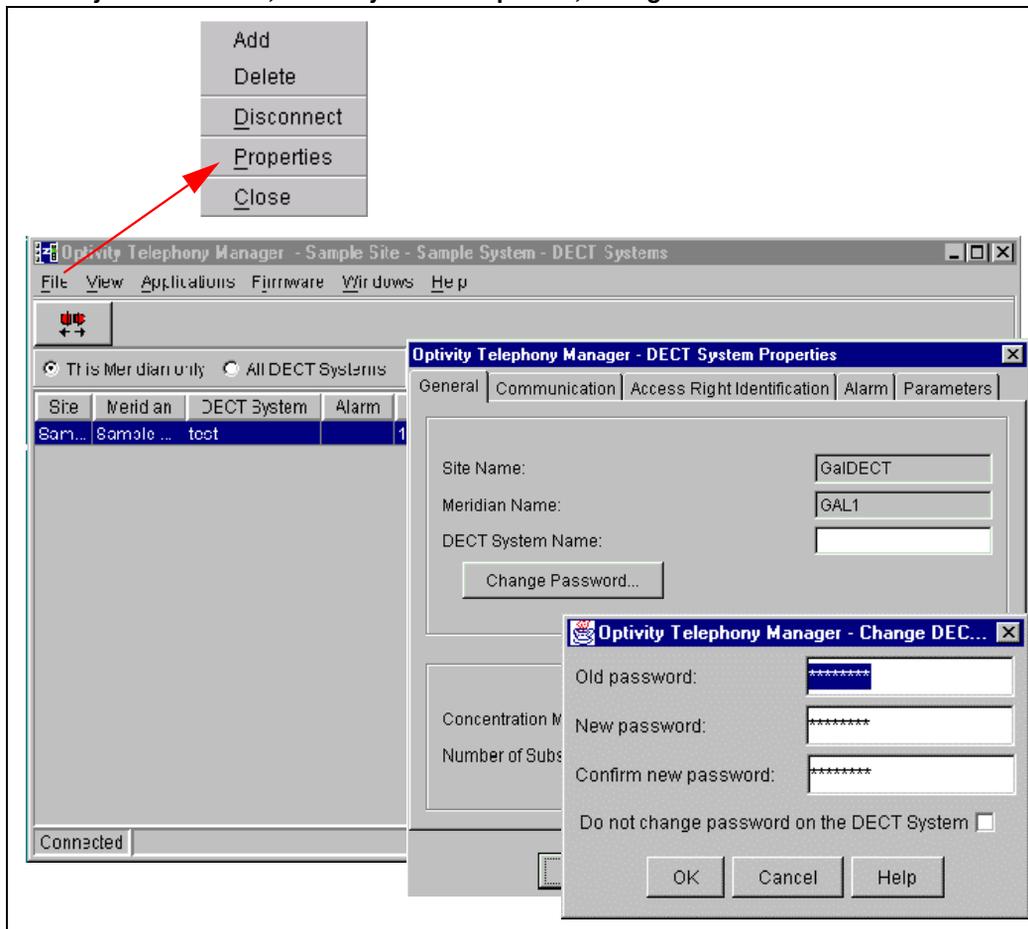


## Password recovery

The DECT 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. Passwords cannot be accessed from the OTM.

The OTM provides a mechanism allowing the password to be reset to the factory password. The password can be changed in the DECT system and the OTM DECT database, or in the OTM DECT database only.

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



Complete the following steps.

**Table 104**  
**Password recovery**

Step	Action
1	Using Windows, login to OTM. Select the Meridian 1 that supports the DECT system. Launch the DECT application. Open the DECT Systems window. Open the Properties dialog, and click on the General tab.
	Follow the instructions on <a href="#">page 20</a> to <a href="#">page 23</a> .
2	Select password change.
	Click on <b>Change Password</b> .
3	Change to the factory default password. <b>Note:</b> The default is case sensitive.
	Type <b>Arsenal</b> in the <b>New password</b> box.
4	Confirm the password.
	Type <b>Arsenal</b> in the <b>Confirm new password</b> box.
5	Set up for a password change the on the DECT system.
	Remove the DMC8 Relay card, and reinsert the DMC8 Relay card.
6	Connect to the DECT system <i>within five minutes</i> .
	From the <b>Applications</b> pull-down menu click on <b>Connect</b> or the  (green) icon.
	



---

# Appendix 1: Performance Collection file samples

---

## Equipment Performance Collection file sample

```
<?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</
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
,0,0,0,1,0,0,0,0,0,0,0</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
```







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# DECT

## Operation Administration and Maintenance

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