

Nortel Communication Server 1000

Using the DMC DECT Manager

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New in this release

This is a new document created to support Communication Server 1000 Release 7.0.

Other Changes

Revision History

June 2010

Standard 01.01. This is a new document created to support Communication Server 1000 Release 7.0.

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How to get help

This chapter explains how to get help for Nortel products and services.

Getting help from the Nortel Web site

The best way to get technical support for Nortel products is from the Nortel Technical Support Web site:

http//www.nortel.com/support

This site provides quick access to software, documentation, bulletins, and tools to address issues with Nortel products. From this site, you can:

- download software, documentation, and product bulletins
- search the Technical Support Web site and the Nortel Knowledge Base for answers to technical issues
- sign up for automatic notification of new software and documentation for Nortel equipment
- open and manage technical support cases

Getting help over the telephone from a Nortel Solutions Center

If you do not find the information you require on the Nortel Technical Support Web site, and you have a Nortel support contract, you can also get help over the telephone from a Nortel Solutions Center.

In North America, call 1-800-4NORTEL (1-800-466-7835).

Outside North America, go to the following Web site to obtain the telephone number for your region:

http://www.nortel.com/callus

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Getting help from a specialist by using an Express Routing Code

To access some Nortel Technical Solutions Centers, you can use an Express Routing Code (ERC) to quickly route your call to a specialist in your Nortel product or service. To locate the ERC for your product or service, go to:

http://www.nortel.com/erc

Getting help through a Nortel distributor or re-seller

If you purchased a service contract for your Nortel product from a distributor or authorized re-seller, contact the technical support staff for that distributor or re-seller.

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Installation of DMC DECT Manager

- “Install DMC DECT Manager” (page 11)
- “Uninstall DMC DECT Manager” (page 16)
- “Upgrade DMC DECT Manager” (page 18)
- “Launch DMC DECT Manager” (page 20)

Manage DMC DECT Manager Installation

Use the procedures in this section to install, uninstall, upgrade and launch the DMC DECT Manager application.

Install DMC DECT Manager

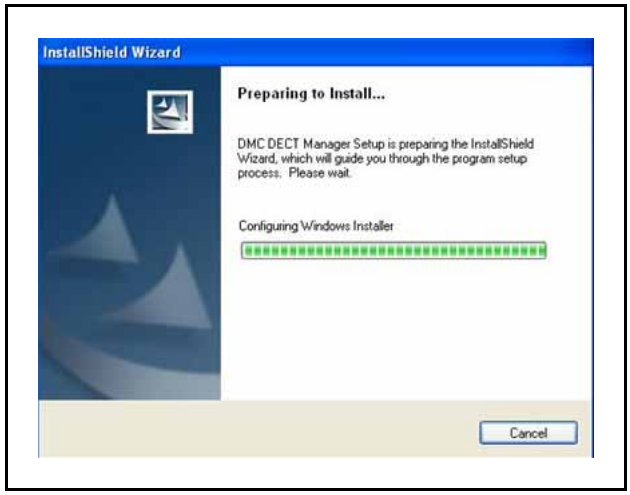
ATTENTION
The DMC DECT Manager application can not co-reside with Telephony Manager.

Procedure 1
Installing DMC DECT Manager

Step	Action
1	Double-click **setup.exe** from the DMC DECT Manager Application installation package. The Preparing to Install window appears.

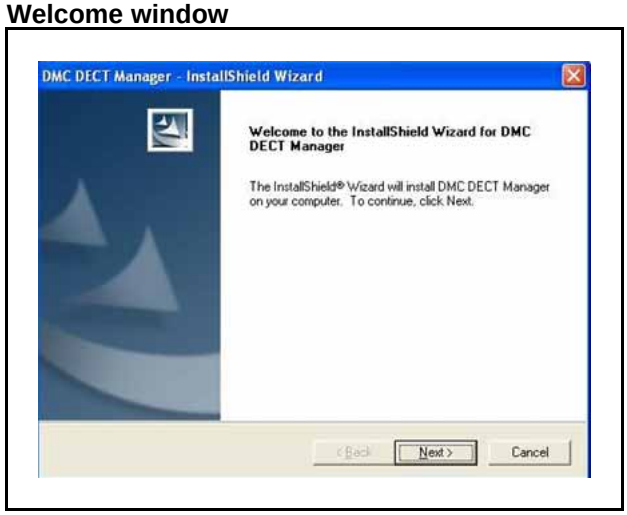
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Figure 1
Preparing to Install window



The Welcome window appears.

Figure 2
Welcome window

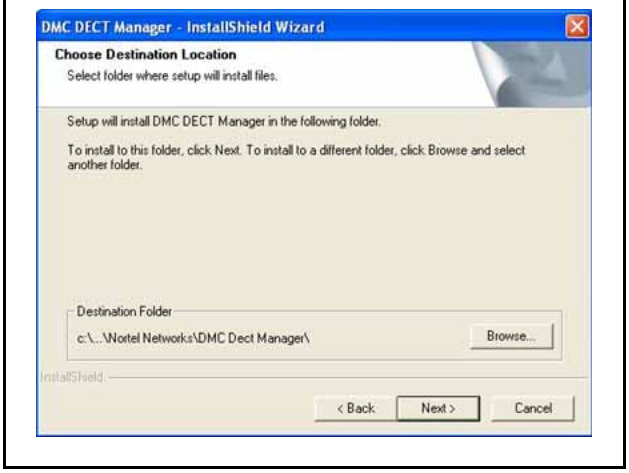


2 Click **Next**.

The Choose Destination Location window appears.

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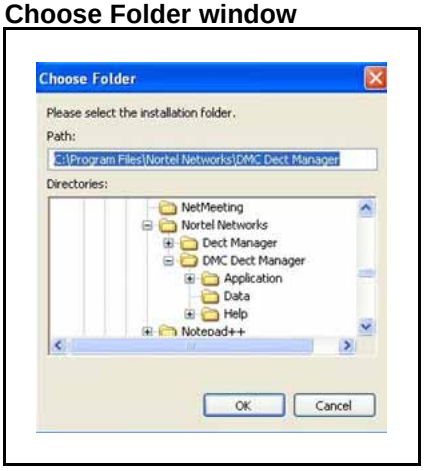
Figure 3
Choose Destination Location window



3 Click **Next** to continue with the default path selected, or click **Browse** to choose a new destination location.

The Choose Folder window appears.

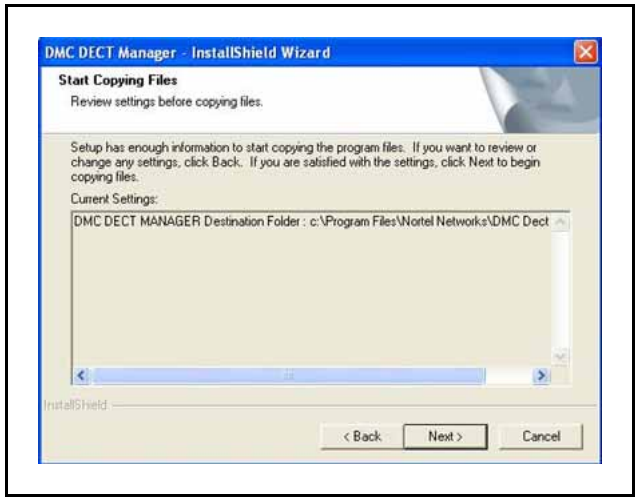
Figure 4
Choose Folder window



4 The selected settings are displayed in the Start Copying Files window.

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Figure 5
Start Copying Files window.

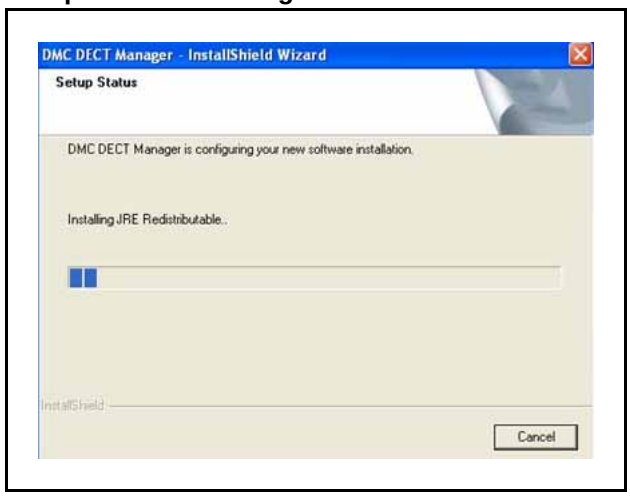


5 Click **Next**.

6 The Installation program checks for the JRE and Access Runtime prerequisites on the system.

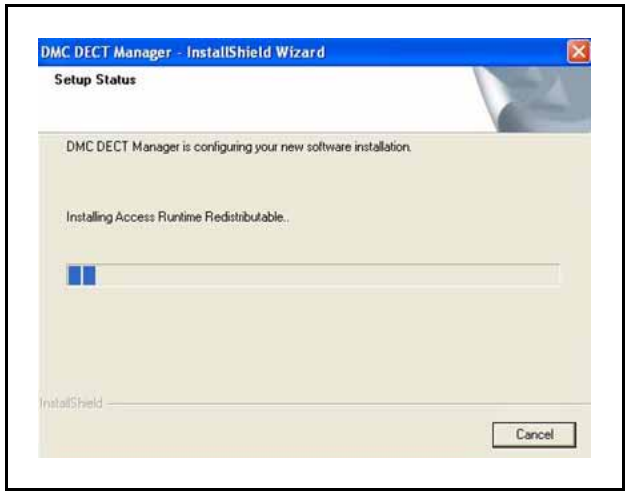
If the prerequisites are present, the Installation program skips to the DMC DECT Manager installation. Otherwise, the Installation program installs the prerequisites.

Figure 6
Setup Status Installing JRE



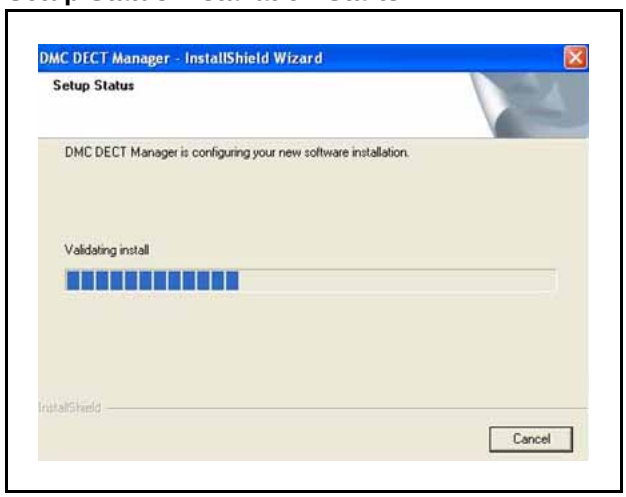
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Figure 7
Setup Status Installing Access Runtime



7 The DMC DECT Manager installation starts.

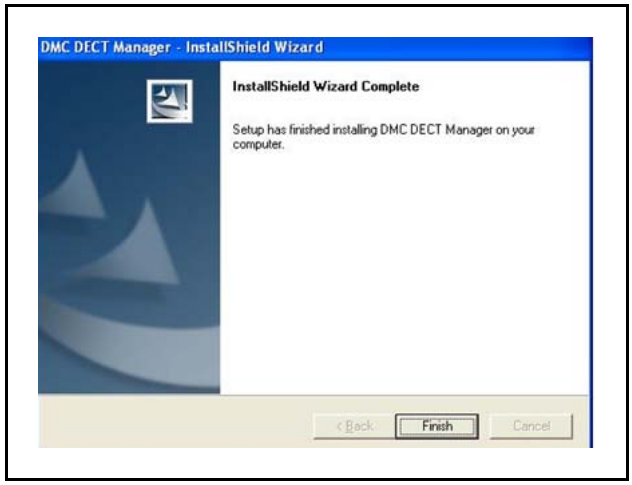
Figure 8
Setup Status Installation Starts



8 Click **Finish** to complete the installation.

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Figure 9
InstallShield Wizard Complete



--End--

Uninstall DMC DECT Manager

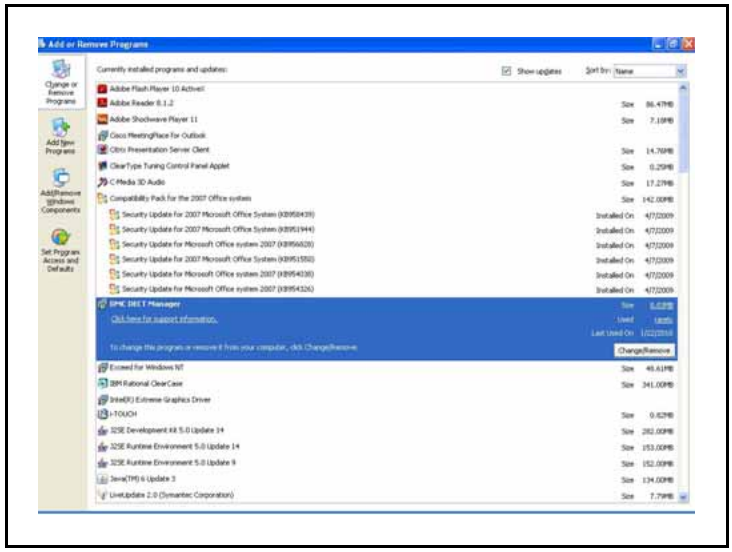
The DMC DECT Manager Application must be closed before uninstalling the application.

Procedure 2
Uninstalling DMC DECT Manager

Step	Action
1	From the Windows **Start** menu, select **Control Panel**.
2	Double click **Add or Remove Programs**.
3	Select **DMC DECT Manager** in the list of programs and click **Remove**.

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Figure 10
Add or Remove Programs window



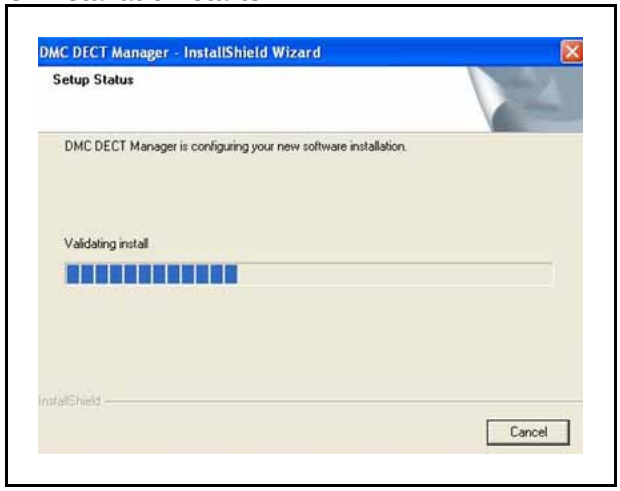
4 Setup starts preparing for the uninstallation.

Figure 11
InstallShield Wizard



5 Uninstallation starts.

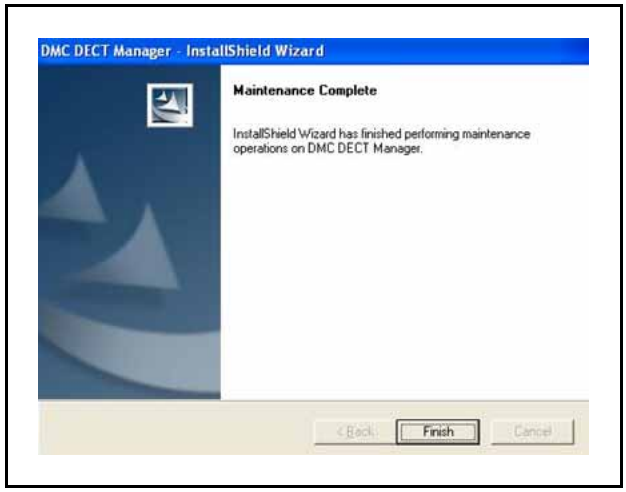
Figure 12
Uninstallation starts



6 Click **Finish** o complete the uninstallation of DMC DECT Manager.

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Figure 13
Maintenance complete



--End--

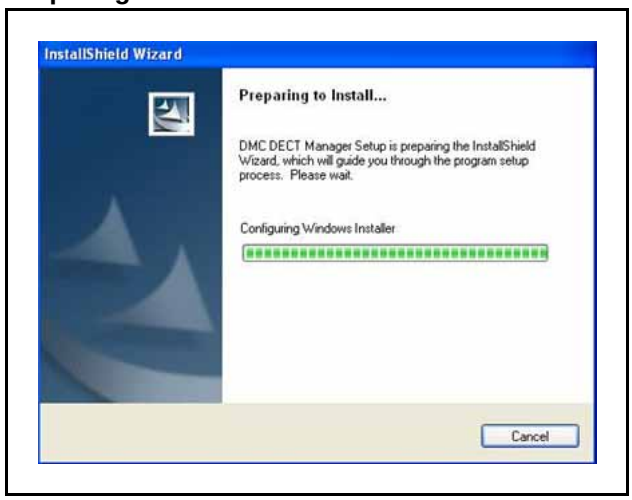
Upgrade DMC DECT Manager

To upgrade DMC DECT Manager, follow the steps in Procedure 3 "Upgrading DMC DECT Manager" (page 18).

Procedure 3
Upgrading DMC DECT Manager

Step	Action
1	Double click **setup.exe** from the DMC DECT Manager Application package.

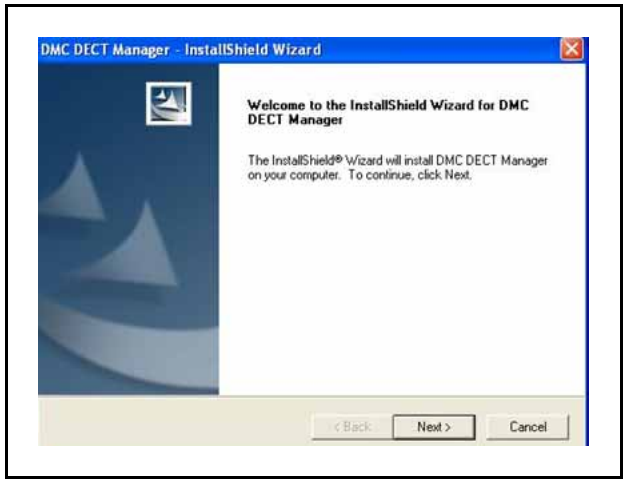
Figure 14
Preparing to Install



2	Click **Next** to continue with the upgrade.

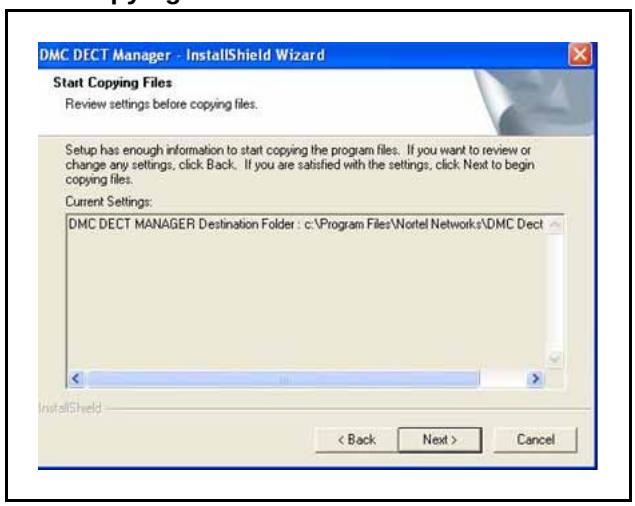
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Figure 15
DMC DECT Manager InstallShield Wizard



The Start Copying Files window appears with the installed location of DMC DECT Manager.

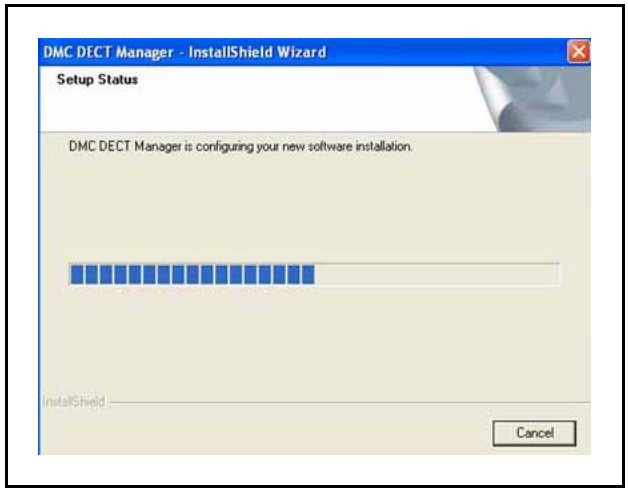
Figure 16
Start Copying Files window



3 Click **Next** to continue. The upgrade starts.

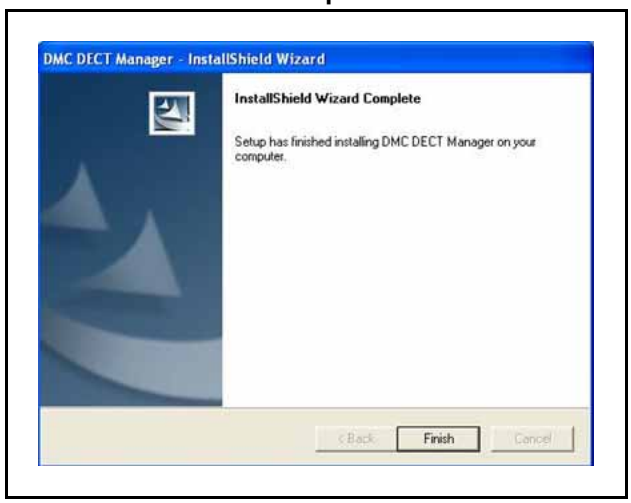
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Figure 17
Setup Status



4 Click **Finish** to complete the upgrade.

Figure 18
InstallShield Wizard Complete



--End--

Launch DMC DECT Manager

Installing DMC DECT Manager creates two shortcuts in **Start, Programs, Nortel DMC DECT Manager Menu**:

- DMC DECT Manager.

  Use the DMC DECT Manager shortcut to launch the DMC DECT Manager application and to configure the DECT Access Systems.

- Backup Restore Utility.

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Use the Backup Restore Utility shortcut to launch the DECT Backup and Restore utility.

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PBX System Configuration

A DMC DECT system is configured to a CS 1000 PBX for managing handsets. Some of the DECT System parameters are computed based on the type of CS 1000 system to which the DMC is configured.

To configure DECT Systems in DMC DECT Manager, the user must create a PBX system with a name and type. The DMC DECT Manager supports two types of PBX systems: “Large System” and “Small System”. Use the following rules to determine the PBX system type.

- **Rule 1:** If the PBX Release number is 2111/2121 (Option11C / OptionCSE11C), select Small System
- **Rule 2:** If the PBX Release number is anything other than 2111/2121, select Large System

Manage the PBX System

Use the PBX System Properties window to add a PBX system, and to modify or delete an existing PBX system.

Add a new PBX System

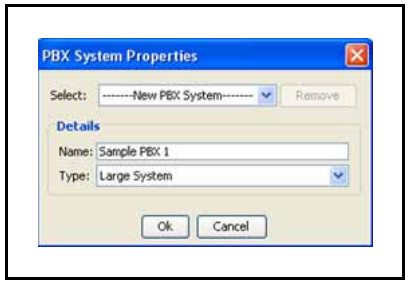
A PBX System must have a unique name and type (large system or small system). A PBX System name must not contain any special characters.

Procedure 4
Adding a new PBX System

Step	Action
1	Select **Start, Programs, Nortel DMC DECT Manager, DMC DECT Manager**.
2	Select **New PBX System** from the **Select** drop down list. New PBX System is the default setting.

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Figure 19
PBX System Properties



3 Enter the name of the new PBX system in the **Name** text box.

4 Select the type of PBX system from the **Type** drop down list. There are two options: “Large System” and “Small System”.

5 Click **Ok**.

--End--

Use the DECT Access System (DAS) window to add DECT systems to a PBX system.

Modify a PBX system

Use the PBX System Properties window to modify an existing PBX system.

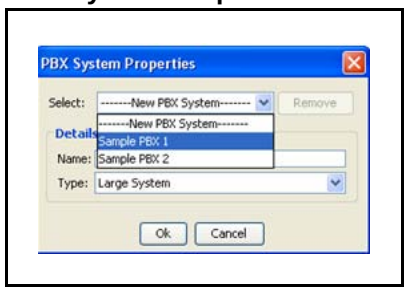
Procedure 5
Modifying a PBX system

Step	Action

1 Select the PBX system to be modified from the **Select** drop down list.

The corresponding details for the selected PBX system are displayed in the Details section.

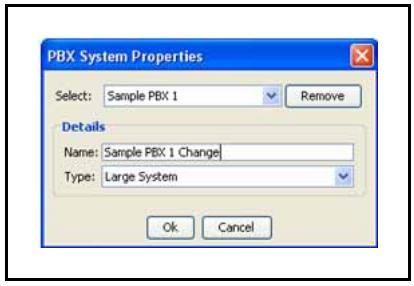
Figure 20
PBX System Properties Details



2 Make the required modifications (for example, Name, Type) and click **Ok**.

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Figure 21
PBX System Properties modifications



--End--

Remove a PBX system

Removing a PBX system removes all data pertaining to that PBX system including DMC DECT systems configured in it.

Procedure 6
Removing a PBX system

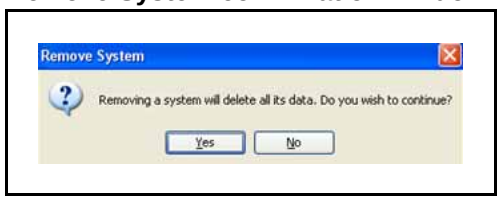
Step	Action
1	Select the PBX system to be removed from the **Select** drop down list. The corresponding details for the selected PBX system are displayed in the Details section.

Figure 22
PBX System Properties remove



Step	Action
2	Click **Remove**. A confirmation dialog window appears.

Figure 23
Remove System confirmation window



Step	Action
3	Click **Yes** to continue.

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The corresponding data of the selected PBX System is deleted.

--End--

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DECT Application features

DECT Application features

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

- view the MDECT System provisioning with the DECT Systems window
- view the DMC8 configuration with the Boards (DMC) window
- view base station configuration with the Radio Fixed Part (base station) window
- view subscription information with the Subscriptions window
- upgrade Firmware using the DECT Systems window
- subscribe handsets using the Subscriptions window
- support DMC-8 and DMC (serial only)
- synchronize (update) the DECT Application database to the MDECT system configuration when the DECT Manager connects to the MDECT system
- collect performance data using the Performance Collection window
- view On-line Help

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DECT Systems window

- “What you can do with the DECT Systems window” (page 29)
- “DECT Systems window definition” (page 30)
- “Connecting to an MDECT system” (page 32)
- “DECT System Properties dialog” (page 33)
- “Firmware upload” (page 36)

What you can do with the DECT Systems window

This window allows you to:

- select an MDECT system to view database details or select all MDECT systems to view database details
- add an MDECT system
- delete an MDECT system
- connect to, disconnect from, lock or unlock a connection between your DECT Manager and an MDECT system
- open the following windows for selected MDECT systems
  - “Subscriptions window” (page 39)
  - “Boards (DMC) window” (page 55)
  - “Radio Fixed Part (base station) window” (page 59)
  - “Active Alarm Snapshot window” (page 63)
  - “Performance Collection window” (page 67)
  - “Retrieve RSSI Snapshot window” (page 69)

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DECT Systems window definition

The DECT Systems window displays the following:

- **File**, holds a pull-down menu that allows you to select one of the following:
  - Add, creates a new MDECT system with default values and opens the System Properties dialog
  - Delete, removes an MDECT system from the DECT Manager
  - Connect / Lock / Disconnect, same functions as the Connect/Disconnect tool
  - Properties, opens the System Properties dialog
  - Close, closes the client application and all DECT windows opened by that client
- **View**, holds a pull-down menu that allows you to show or hide the:
  - Tool bar
  - Status bar
- **Applications**, holds a pull-down menu that allows you to open the following windows:
  - Subscriptions window
  - Boards (DMC) window
  - Radio Fixed Part (base station) window
  - Current Alarms
  - Performance Collection window
  - Retrieve RSSI Snapshot window
- **Firmware**, holds a pull-down menu allowing you to open the following windows:
  - Upload, loads firmware to DMC (see “Firmware upload” (page 36))
  - Activation, makes a firmware active
- **Help**, holds a pull-down menu that allows you to select:
  - Content and Index
- **Tool bar icon**, that allows you to click the tool button to:
  - Open a connection to an MDECT system selected in the List when the Connection status shows *Disconnected*. When opened the icon changes to red.
  - Lock the connection to an MDECT system when the Connection status is *Connected*. This prevents another user from closing the connection.

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— Disconnect from an MDECT system when the Connection status is *Connected*

— Unlock the connection from an MDECT system when the Connection status is *Connected Locked*

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

- **List filter**, allows you to select one of the following:
  — This Meridian only, lists the MDECT System data you select from the PBX System Properties Window
  — All DECT Systems, lists every MDECT Systems data managed by the DECT Manager
- **List field**, shows the following for the MDECT system or systems selected from the M 1 System Window:
  — Meridian 1 PBX name (see “DECT System Properties dialog - General tab” (page 33))
  — MDECT system name (see “DECT System Properties dialog - General tab” (page 33))
  — presence of an alarm (see “DECT System Properties dialog - Alarm tab” (page 35))
  — IP address, for the MDECT system (see “DECT System Detailed Connection settings properties” (page 35))
  — Primary Access Rights Identifier (see “DECT System Properties dialog - Access Right Identification tab” (page 35))
  — Concentration mode (see “DECT System Properties dialog - Access Right Identification tab” (page 35))
  — number of subscribed handsets (see “DECT System Properties dialog - General tab” (page 33))
  — connection status
- **Connection status field**, shows the current state of the connection, where:
  — Disconnected indicates no communication between the DECT Manager and an MDECT system.
  — Connected indicates communication between the DECT Manager and an MDECT system for an operation initiated by a user. The connection disconnects when the operation is finished.
- **Operation progress field**, shows the last received event associated with the connection, such as:

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— Disconnecting

— Connecting

— Modem Busy

— Dialing

Connecting to an MDECT system

When you open the first connection to a new, installed MDECT system, the DECT Manager Application retrieves the DMC configuration from the DECT database. The DECT Manager Application reads the parameters from the MDECT system for the manager database.

You can do one of the following to open a connection to an MDECT system from a DECT Manager Application:

- check the Permanent Connection box, (see “DECT System Properties dialog - Communication tab” (page 34)), allowing the connection to open when the DECT Manager starts
- select an MDECT system in the list and click the Connect icon
- select an action on the menu bar that requires a system connection. For example, Firmware > Upload; the connection opens to carry out the upload and then closes.

  Note: Avoid using this type of connection opening for subscription actions otherwise the subscription status is not refreshed when an on-air subscription or de-subscription occurs.

The status bar of the application provides progress feedback while the connection is opening.

See also

- “Synchronization when the DECT Application connects to an MDECT system” (page 32)

Synchronization when the DECT Application connects to an MDECT system

When your DECT manager connects to the MDECT system, synchronization occurs. Synchronization compares the database on your manager to that of the MDECT system. Database mismatches are flagged by dialogs. You then have the opportunity to change either the MDECT system data or the manager data.

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A number of synchronization steps occur during connection. Synchronization flags changes made to an MDECT system database by other managers.

Two types of synchronization occur when the connection state goes from Disconnected to Connected, as follows:

- when you use the File menu or tool button to connect. You can control the synchronization through dialogs.
- when the DECT Manager re-establishes a permanent connection to the MDECT system. A synchronization report is available in the Event log on the DECT Manager.

When you connect to an MDECT system that has data that does not match the DECT Manager Application data, choose one of the following:

- update the DECT Application database from the MDECT system data
- update the MDECT system data with the DECT Application database

DECT System Properties dialog

This dialog displays the DECT System Properties:

- “DECT System Properties dialog - General tab” (page 33)
- “DECT System Properties dialog - Communication tab” (page 34)
- “DECT System Properties dialog - Access Right Identification tab” (page 35)
- “DECT System Properties dialog - Alarm tab” (page 35)
- “DECT System Properties dialog - Parameters tab” (page 36)

DECT System Properties dialog - General tab

The General tab allows you to do the following:

- view the Meridian 1 PBX name
- view or change the DECT System name (see “DECT System Name Missing dialog” (page 34) and “DECT System Name Already in Use dialog” (page 34))
- change the password (see “Change password dialog” (page 34))
- view if Concentration mode is active or Concentration mode is not active
- view the number of subscribed handsets

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DECT System Name Missing dialog

The DECT System Name Missing dialog appears when a DECT System name is not entered.

The application will not allow a system to be saved unless a name has been provided and is unique.

DECT System Name Already in Use dialog

The DECT System Name Already in Use dialog appears when a DECT System name is the same as the name of another system.

Change password dialog

The Change DECT System Password dialog is selected from the DECT System Properties dialog, General tab.

If the new password does not match the confirmed password, a dialog warns you that the passwords do not match and allows you to change the passwords.

DECT System Properties dialog - Communication tab

The DECT System Properties dialog is selected from the File menu.

The Communication tab allows you to do the following:

- view or change the unique IP address, used if the connection is Serial or Ethernet
- view the Subnetwork Mask
- view the Gateway IP address
- check a Permanent Connection, to:
  - keep the connection open
  - open the connection
- select Close Connection (see “Close Connection dialog” (page 35))
- select Ethernet or Serial connection
- select Details for the Serial connection (see “DECT System Detailed Connection settings properties” (page 35))
- save a new MDECT system definition by pressing the OK button. This causes the manager to try to connect to a new MDECT system and write the system name in MIB2, after you:
  - enter the new system IP address
  - specify the new system name

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See also

- “DECT System Detailed Connection settings properties” (page 35)

Close Connection dialog

The Close Connection dialog is selected from the DECT System Properties dialog, Communication tab.

DECT System Detailed Connection settings properties

System Detailed Connection settings properties is selected from the Details button of DECT System Properties dialog - Communication tab.

The System Detailed Connection settings properties allows you to do the following:

- view or change the DECT Manager IP interface assigned to the PC RAS port interface on the same network as the DECT system
- view or select the COM Port attached to either the DECT system or the modem
- select a modem mode
- view or change the Phone Number that dials the modem

DECT System Properties dialog - Access Right Identification tab

The DECT System Properties dialog is selected from the File menu.

There are two Access Right Identification, a Primary and a Secondary, which identify each MDECT system. The Access Right Identification allows you to do the following:

- view or change the PARI (see “Change PARI dialog” (page 52))
- view or change the SARI (A SARI dialog box is similar to the Change PARI dialog)

See also

- “Change PARI dialog” (page 52)

DECT System Properties dialog - Alarm tab

The DECT System Properties dialog is selected from the File menu.

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The Alarm allows you to do the following:

- view a Yes or NO in the active alarm when the manager is connected to an MDECT system with an active alarm.
- view or change the Upstream Manager IP address. The MDECT system can send alarms to an upstream manager.
- view or change the Date and Time, used to timestamp alarms. When not connected, the Date and Time fields are blank. When the MDECT system is reset, the time and date are not updated.

DECT System Properties dialog - Parameters tab

The DECT System Properties dialog is selected from the File menu.

The Parameters allows you to do the following:

- view or change Tone Duration in milliseconds
- view or change Inter Digit Pulse width in milliseconds
- view or change Level 1 - low frequency in decibels
- view or change Level 2 - low frequency in decibels
- view or change Analog/Digital loss pad- handset to system in decibels
- view or change Analog/Digital loss pad- system to handset in decibels
- set all parameters to Factory Default values

Do not use the Advanced button as it can cause your system to fail.

The DECT System Properties Parameters are read from the MDECT system on synchronization.

Firmware upload

The Firmware upload dialog is selected from the Firmware menu.

The designator DMC is used to differentiate between the NTCW00AA DMC and the NTCW00AB DMC8.

This dialog alerts you that a DMC cannot support a firmware upload. If you select OK, a file chooser lets you select a firmware file (see “Firmware activation dialog” (page 37)), from the Client. When OKis selected, you can replace the existing standby firmware with new firmware.

You can do one of the following:

- accept the firmware for the MDECT system
- cancel the firmware upload for the MDECT system

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Firmware activation dialog

This dialog allows you to select the firmware to activate on DECT system.

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Subscriptions window

The Subscriptions window is selected from the DECT Systems window Applications menu.

- “What you can do with the Subscriptions window” (page 39)
- “Subscriptions window definition” (page 40)
- “Configure DECT subscription dialog” (page 43)
- “Enable a subscription” (page 43)
- “Disable subscriptions” (page 43)
- “Delete subscriptions” (page 44)
- “Copy subscriptions” (page 45)
- “Move subscriptions” (page 45)
- “Import subscriptions” (page 46)
- “Export subscriptions” (page 46)
- “Find subscriptions” (page 46)
- “Synchronize DECT and Station Administration Configuration” (page 46)
- “Meridian PBX to MDECT system synchronization” (page 50)
- “Multi Site Mobility Networking subscriptions” (page 50)
- “Force disable” (page 52)
- “Subscription properties” (page 53)

What you can do with the Subscriptions window

This window allows you to:

- connect to, disconnect from, lock or unlock a connection between your DECT Manager and an MDECT system
- choose to show, in any combination, (see “Enable a subscription” (page 43) and “Disable subscriptions” (page 43)) handsets that are:

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  - Available
  - Subscribed
  - Enabled
  - Blacklisted
  - configured on one DMC8 or all DMC8s
- Subscribe (configure) handsets
- De-subscribe handsets
- Copy subscription data
- Move subscription data
- Delete subscription data
- Find subscription data
- Export subscription data
- Import subscription data

Note: Before a handset will work, the handset must be programmed on the Meridian 1 PBX using LD 10.

Subscriptions window definition

The Subscriptions window displays the following:

- **File**, holds a pull-down menu allowing you to select one of the following:
  - Import, a subscription from a file (see “Import subscriptions” (page 46))
  - Export, a subscription to a file (see “Export subscriptions” (page 46))
  - Connect, Lock, Unlock, Disconnect
  - Properties, includes data in the subscription list and International Portable User Identifier (IPUI) (see “Subscription properties” (page 53))
  - Close, the Subscriptions window
- **View**, holds a pull-down menu allowing you to show or hide the:
  - Tool bar
  - Status bar
- **Edit**, holds a pull-down menu allowing you to open the following dialog boxes:

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- Copy (see "Copy subscriptions" (page 45))
- Delete (see "Delete subscriptions" (page 44))
- Find (see "Find subscriptions" (page 46))

- **Operations**, holds a pull-down menu allowing you to open the following windows:
  - Configure, allows you to program a handset on the Meridian 1 system (see "Configure DECT subscription dialog" (page 43))
  - Set Default PARK, allows you to enter the default Portable Access Rights Key (see "Multi Site Mobility Networking subscriptions" (page 50))
  - Enable, allows you to subscribe a handset
  - Disable, allows you to de-subscribe a handset from one MDECT system (see "Disable subscriptions" (page 43)) or de-subscribe a handset from all MDECT systems (see "Multi Site Mobility Networking subscriptions" (page 50) for example)
  - Force Disable, allows you to return the subscription to the available state, requests the system to disable the subscription. However, there is no interaction between the system and handset (see "Force disable" (page 52))
  - Synchronize with Phone Data, allows the user to retrieve Meridian 1 handset configuration from a CSV file generated using the EM Phone Provisioning application to synchronize and resolve mismatches between Station Administration configuration and DECT Application configuration (see "Synchronize DECT and Station Administration Configuration" (page 46))
- **Help**, holds a pull-down menu allowing you to select:
  - Content and Index
- **Tool bar**, allows you to click the tool button to:
  - Connect, lock, unlock, disconnect, same function as DECT Systems window
  - Enable, allows you to subscribe a handset
  - Disable, allows you to de-subscribe a handset
  - Configure, allows you to program a handset
- **List filter**, allows you to show or hide details of handsets that are:
  - available (see "Enable a subscription" (page 43) and "Disable subscriptions" (page 43))
  - subscribed (see "Enable a subscription" (page 43) and "Disable subscriptions" (page 43))

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- enabled (see “Enable a subscription” (page 43) and “Disable subscriptions” (page 43))
- black-listed (see “Enable a subscription” (page 43) and “Disable subscriptions” (page 43))
- DMC restricts the list to subscription data for one DMC or lists subscription data for all DMC

- **List**, shows the following subscription details for handsets assigned to a <sitename>, a <PBX name>, a <DECT system name>:
  - DMC TN
  - index, 32 units or 510 virtual units for concentration on a DMC
  - concentrated handset Home DN
  - concentrated handset Local DN, different than Home DN for visitor concentrated handset
  - virtual TN for concentration handsets
  - subscription PARK
  - subscription status, updated by SNMP traps from the MDECT system
  - PIN code shown during subscription activation
  - an 80-character comment
- **Pop up menu**, available when at least one subscription is selected, contains the following items:
  - Configure
  - Enable
  - Disable
  - Copy
  - Move
  - Delete
  - Export
  - Properties
  - Help
- **Status bar**, shows:
  - connection status
  - operation status
  - current subscription PARK

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Configure DECT subscription dialog

Configure DECT Subscription allows you to:

- select a DMC TN
- enter the first subscription index (unit, as in l s c u)
- select a number of consecutive subscriptions

When configured, the subscription becomes available and you can enable the subscription. During the enable process, the DECT manager generates a PIN code for the subscription (see “Enable a subscription” (page 43)).

Enable a subscription

Available - DECT channel is configured and available for subscription.

Enabled - The subscription process starts with the user selecting the handsets and pulling down the Operations menu and then clicking on Enable.

Pin code entered within 15 minutes? The DECT Manager provides a PIN.

Subscribed – The handset is now ready to make and receive calls.

Disable subscriptions

You can de-subscribe a subscription on:

- a single handset
- a list of selected handsets
- all handsets on a DMC

Subscribed – The handset can make and receive calls. The de-subscription process starts with the user selecting the handsets and pulling down the operations menu then clicking on Disable.

Black listed – The following conditions must exist

- Connection with the system
- Handset in range
- Handset on
- Handset go off-hook or called

Available – Handset ready for subscription

Launching an on-air de-subscription requires an open connection to the MDECT system.

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When the DECT Manager starts the de-subscription, the MDECT system holds the de-subscription until one of the following occurs:

- the handset makes or receives a call
- the DECT Manager removes the subscription

The MDECT system notifies the DECT Manager that the handset is de-subscribed.

The DECT manager can stop a handset from operating on all the MDECT systems where the handset is subscribed with a given International Portable User Identifier (IPUI).

To stop a handset from operating, requires that the handset is within radio range and ready for on-air de-subscription. The process removes handset subscription data from the following:

- the MDECT system DMCs
- the handset
- the DECT managers handset and MDECT system files

When the handset's subscription data is removed, the handset no longer works on any MDECT system.

Delete subscriptions

The Delete operation allows you to remove handset information from the manager and the MDECT system, but not the handset. The Delete operation does not require the handset to be available for on-air de-subscription. The Delete operation does the following:

- removes the MDECT system handset subscription data
- retains the handsets subscription data, if the handset had subscription data (As the handset does not remove its subscription data, it continues operating on all the MDECT systems where this subscription is relevant.)
- removes the DECT manager handsets subscription data including comments and Meridian 1 PBX Station Administration data

The DECT Manager provides the ability to remove subscription records from the following:

- a single handset subscription
- a list of selected subscriptions
- a DMC or from all DMCs at once

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The subscription removal requires an open connection to the MDECT system.

You can remove subscription records to:

- clean a Multi Site Mobility Networking MDECT system subscriptions on the distributors premises
- move a DMC from one MDECT system to another

Copy subscriptions

The Copy Subscription dialog is selected from the Edit menu.

The copy dialog allows you to copy subscriptions from a DMC on MDECT system A and paste the subscriptions into a DMC on MDECT system B. The subscriptions have to be in the *Subscribed* status.

You select the Destination MDECT system and the Destination DMC from the DECT Copy Subscription dialog. The connection to the destination system must be open.

You can copy subscriptions from the following:

- a single handset subscription
- a list of selected subscriptions
- a DMC

Note: You cannot copy subscriptions within the same MDECT system. When a subscription is copied, only the MDECT system data is copied, not the Meridian 1 PBX data.

In the DECT Copy Subscription dialog the source subscription data is in the three left columns; DMC TN, Index, and Local DN. You view the source subscription from the Subscription window. The destination subscription data is in columns To: DMC TN, and To: Index. Index is the Unit on the DMC. When the dialog opens, the source DMCs and destination DMCs are the same.

When you copy, you must connect to the destination MDECT system.

The Copy Subscription feature provides a way to support Multi Site Mobility Networking, by allowing you to subscribe handsets without being on the Distributor Premises.

Move subscriptions

The Move Subscriptions dialog is selected from the Edit menu.

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Move Subscriptions is similar to Copy, except for the following. The move dialog allows you to cut/remove subscriptions from a DMC on MDECT system A, and paste the subscriptions into a DMC on the same MDECT system, or MDECT system B.

When you move, you must connect to both the source MDECT system and the destination MDECT system.

Import subscriptions

The Import Subscriptions dialog is selected from the File menu.

Import Subscriptions is similar to Copy, except for the following. The import dialog allows you to copy subscriptions from an import file and paste the subscriptions into a DMC on an MDECT system.

To paste a subscription, you must be connected to an MDECT system.

Export subscriptions

The Export Subscriptions dialog is selected from the File menu.

Export Subscriptions is similar to Copy, except for the following. The export dialog allows you to copy subscriptions from an MDECT system and paste the subscriptions into a file.

> ***Note:*** Import/Export are used to support Multi Site Mobility Networking and Subscription on the Distributor Premises to a MDECT system normally managed by TM "B", not your TM "A".

Find subscriptions

The Find Subscriptions dialog is selected from the Edit menu.

The Find operation allows you to find subscription information by searching for an IPUI or a Home DN, using the Find DECT Subscription dialog.

The find action displays the subscription information in the Find DECT Subscription Result dialog.

Synchronize DECT and Station Administration Configuration

Synchronizing phone data from a CSV file generated using the EM Phone Provisioning application allows the user to retrieve Meridian 1 handset configuration and resolve mismatches between Station Administration configuration and DECT Application configuration. To synchronize DECT and Station Administration Configuration, use the EM Phone Provisioning application to generate a CSV file with phone details. A report profile is

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available under <DMC DECT Manager Root>/Data directory. Upload the report profile to the EM Phone Provisioning application and generate the required CSV file for DMC DECT.

The CSV report contains all phones having WTYP=’DECT’ and WRLS=’YES’ for a particular element in UCM. The CSV report has the following format:

Table 1
CSV report format

Sl. No.	Phone Feature	Phone Feature Description
1	INDX	Index on DMC
2	HMDN	Home Directory Number
3	VSIT	Visiting DECT Set
4	PRIMEDN	Prime DN
5	TN	Terminal Number
6	DMC	DECT mobility controller

Procedure 7
Synchronizing DECT and Station Administration Configuration

Step	Action
1	Select **Start, Programs, Nortel DMC DECT Manager, DMC DECT Manager**.
2	Select the required PBX System from the list of PBX systems and click **Ok**.

Figure 24
DMC DECT System Window

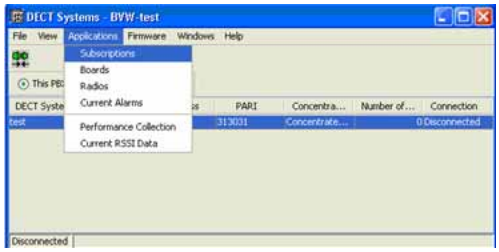


The DMC DECT System Window appears.

3	Select the required DECT System and click **Applications, Subscriptions**.

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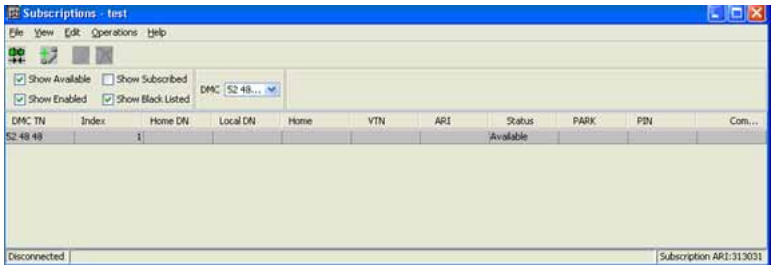
Figure 25
Applications Subscriptions



4 Click on **Subscriptions**.

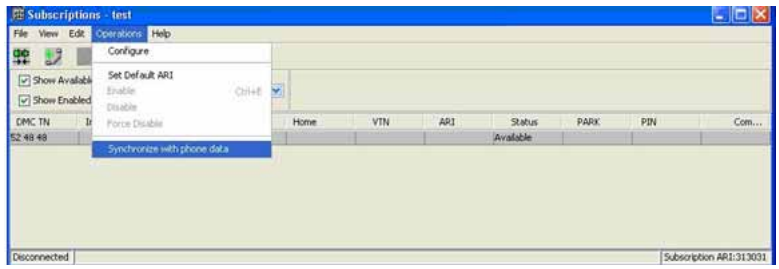
The Subscription Window appears.

Figure 26
Subscription Window



5 Click on **Operations, Synchronize with phone data**

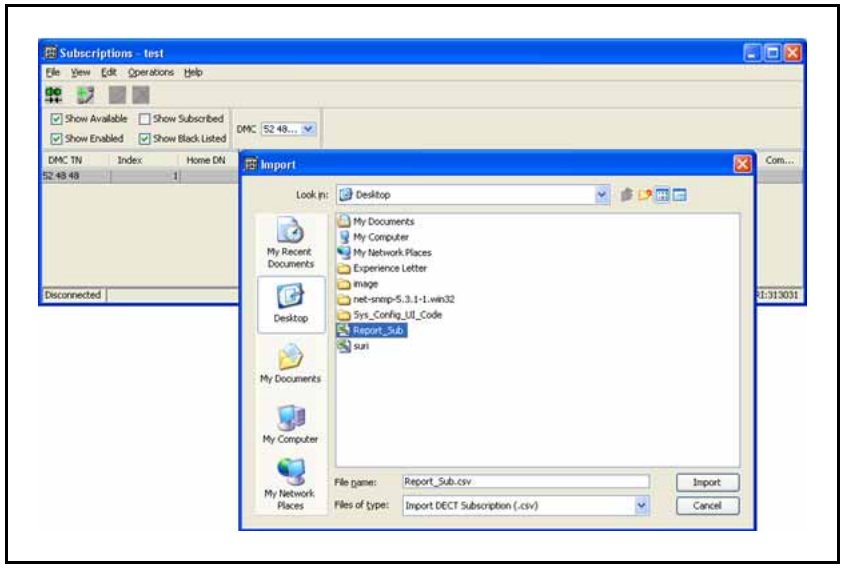
Figure 27
Operations Synchronize with phone data



6 Click on **Synchronize with phone data**. Browse to the CSV report having phone data and click **Import**.

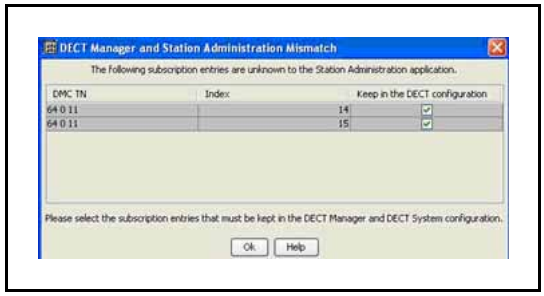
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Figure 28
Import Subscriptions



The DECT and Station Administration Mismatch window appears, if there is a mismatch between the DMC DECT Manager data and the CSV report.

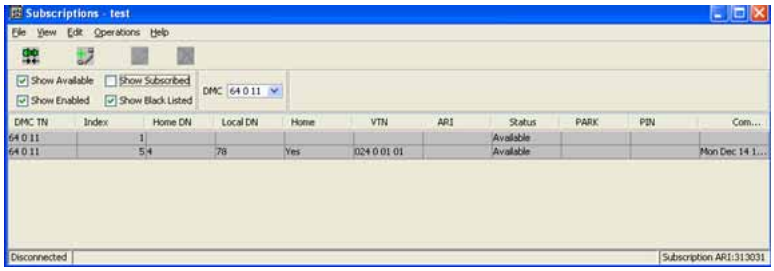
Figure 29
DECT and Station Administration Mismatch



If there is no mismatch, synchronization is completed and the subscriptions in the CSV file are imported to DMC DECT Manager.

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Figure 30
Subscriptions Imported



--End--

Meridian PBX to MDECT system synchronization

If the Meridian PBX configuration data is available in the form of a CSV file generated from the EM Phone Provisioning application, then a synchronization facility is available to import the data into DMC DECT Manager. Synchronization follows the following rules:

- A handset not listed in the DECT Manager but present in the PBX is added in the DECT Manager list.
- If the DECT Manager lists a handset but the CSV file does not, the DECT Manager prompts you to either keep or remove the handset.

Add handsets to the DECT manager by selecting **Configure** from the **Operations** menu.

The Synchronize DECT and Station Administration Mismatch dialog highlights DMC TNs in the DECT managers that are not configured in the EM Phone Provisioning application database. You can check those subscriptions that you must keep in the DECT manager.

If there is no mismatch that DECT Manager cannot resolve automatically, the Synchronize DECT and Station Administration dialog does not appear. For example, there are no entries in the EM Phone Provisioning application database, or the DECT Manager does not have a DMC configured in a Meridian 1 PBX TN location, where an entry does exist in the EM Phone Provisioning database.

Multi Site Mobility Networking subscriptions

In Multi Site Mobility Networking (MSMN), a handset is subscribed in a given MDECT system and used in one or many MDECT systems.

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Every handset has a Portable Access Rights Key (PARK). Every MDECT system has a Primary Access Rights Identifier (PARI), and can have a Secondary Access Rights Identifier (SARI).

The handset PARK and MDECT system PARI and SARI are used by the handset and MDECT system to identify each other. The PARK and PARI/SARI match allow the handset to work with an MDECT system.

In an MSMN network, for example, MDECT system "A" has a PARI matching a handset PARK and MDECT systems "B", "C", and "D" have a SARI matching the handset PARK.

The DECT Manager user programs the SARI in the MDECT system. The DECT Manager provides the PARK during the on-air subscription, and the PARK is programed into the handset at subscription time (see “DECT System Properties dialog - Access Right Identification tab” (page 51) and “Change PARI dialog” (page 52)).

For example, you can subscribe a handset on an MDECT system on a distributors premises, where the handset is not to be in operation. You then download the subscription data to an MDECT system where the handset is to be in operation. The PARI of the MDECT system where the handset is subscribed and the SARI of the MDECT system where you use the handset are not always the same. You provide the PARK matching the destination MDECT system to the handset during the on-air subscription.

The DECT Manager provides the ability to specify the PARK given to the handset, to support Multi Site Mobility Networking and Subscription on the distributor premises (see “Change PARI dialog” (page 52)). The PARK normally defaults to the PARI of the system where the on-air subscription occurs. For MSMN, you must set the default PARK equal to the network SARI value before any subscription activity.

The PARK used by the DECT subscription application is subject to the following:

- PARK is limited to the lifetime of the subscription application
- two different users can use a different PARK on the same MDECT system at the same time
- PARK is not recorded in persistent storage

DECT System Properties dialog - Access Right Identification tab

The DECT System Properties dialog is selected from the File menu.

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There are two Access Right Identification, a Primary and a Secondary, which identify each MDECT system. The Access Right Identification allows you to do the following:

- view or change the PARI (see “Change PARI dialog” (page 52))
- view or change the SARI (A SARI dialog box is similar to the Change PARI dialog)

See also

- “Change PARI dialog” (page 52)

Change PARI dialog

The Change PARI dialog appears when you press the Change PARI button of the Access Right Identification.

You must not change the PARI or SARI until you connect to the MDECT system requiring the new PARI or SARI.

During synchronization, a dialog warns you if a MDECT system has a different PARI or SARI than the DECT manager.

See “Multi Site Mobility Networking subscriptions” (page 50) for additional information about changing the PARI and SARI.

Force disable

The Force disable DECT Subscriptions dialog is selected from the Operations menu.

Force Disable returns the subscription to the available state, requests the system to disable the subscription. However, there is no interaction between the system and handset.

You can use Force Disable when the handset is not in range or on-air.

Use **on this DECT System only or** if you want to remove the handset subscription from only this MDECT system and remove the handset subscription from all other MDECT systems in the background.

Use **on all DECT Systems where it is present?** if you want to remove the handset subscription from all systems at the same time.

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Subscription properties

The Subscription properties sheet is selected from the File menu.

- "What you can do with the Subscription properties sheet" (page 53)
- "Subscription properties sheet definition" (page 53)

What you can do with the Subscription properties sheet

This properties sheet allows you to:

- view the DMC Terminal Number
- view the Index. Index is the TN unit, as programmed in LD 10 in a non-concentrated system, and a virtual TN unit in a concentrated system.
- change and apply Comments, up to 80 characters
- view Home Directory Number (where the handset is configured on the Meridian PBX as the home location)
- view Local Directory Number
- view Home handset only
- view handset Virtual Terminal Number
- view the International Portable User Identifier (IPUI)
- view the subscription PARK
- view the subscription status
- view the subscription PIN

Subscription properties sheet definition

The Subscription properties sheet displays the same subscription data as the Subscriptions window list items.

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Boards (DMC) window

The Boards window is selected from the DECT Systems window Applications menu:

- "What you can do with the Boards (DMC) window" (page 55)
- "Boards (DMC) window definition" (page 55)
- "Board (DMC) properties sheet" (page 57)

What you can do with the Boards (DMC) window

This window allows you to:

- examine DMC details
- connect to, disconnect from, lock or unlock a connection between your DECT Manager and an MDECT system
- choose to show operational DMC, or non-operational DMC or both
- open a properties sheet

Boards (DMC) window definition

The Boards window displays the following DMC data:

- **File**, holds a pull-down menu allowing you to select one of the following:
  - Clear, erases all subscriptions, sets all base stations to installed status and line powered, allowing you to program the DMC in a new MDECT system
  - Connect, Lock, Unlock, Disconnect, works the same as the Connect/Disconnect tool
  - Properties
  - Close, closes the DMC window
- **View**, holds a pull-down menu allowing you to show or hide the:

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- Tool bar
- Status bar

- **Synchronization**, holds a pull-down menu allowing you to:
  - Synchronize From, subscription and base station alarm muting/power source configuration data from a DMC to the DECT Manager
  - Synchronize To, subscription and base station alarm muting/power source configuration data from the DECT Manager to a DMC
- **Help,** holds a pull-down menu allowing you to select:
  - Content and Index
- **Tool bar**, allows you to click the tool button to:
  - Connect, lock, unlock, disconnect
- **List filter**, allows you to show list details of only the operational DMC or non-operational DMC or both
- **List**, shows the following DMC details:
  - DMC TN
  - DMC type
  - relay DMC
  - operational state, when DMC operational status changes, the DECT Manager updates the status
  - Number of handsets on a DMC
  - an 80-character comment
- **Pop up menu**,
  - Synchronize from DMC
  - Synchronize to DMC
  - Properties
  - Help
- **Properties**, displays additional information about DMC. Only the comment can be modified.

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Board (DMC) properties sheet

The Board properties sheet is selected from the File menu.

- "What you can do with the Board properties sheet" (page 57)

What you can do with the Board properties sheet

This properties sheet allows you to:

- view DMC details
- view operational status. When the DMC operational status changes on the MDECT system, the TM updates the status
- change and apply Comments, up to 80 characters
- view DMC Type Number
- view DMC Manufacture Code
- view DMC Standby Software Package
- view DMC Boot Package
- view DMC Protocol Version
- open the help file
- close the properties sheet

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Radio Fixed Part (base station) window

The Radio Fixed Part window is selected from the DECT Systems window Applications menu:

- "What you can do with the Radio Fixed Part (base station) window" (page 59)
- "Radio Fixed Part (base station) window definition" (page 59)
- "Radio Fixed Part (base station) properties sheet" (page 61)

What you can do with the Radio Fixed Part (base station) window

This window allows you to:

- examine base station details
- connect to, disconnect from, lock or unlock a connection between your DECT Manager and an MDECT system
- choose to show Muted base stations, or Not Muted base stations or both
- cancel mute allows a base station to generate alarm messages or mute keeps a base station from generating alarm messages
- open a properties sheet

Radio Fixed Part (base station) window definition

The Radio Fixed Part window displays the following base station data:

- **File**, holds a pull-down menu allowing you to select one of the following:
  - Connect / Lock / Unlock / Disconnect, same functions as the Connect / Disconnect tool
  - Properties, opens the Radio Fixed Part properties sheet
  - Close, closes the Radio Fixed Part window
- **View**, holds a pull-down menu allowing you to show or hide the:

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- Tool bar
- Status bar

- **Edit**, holds a pull-down menu allowing you to:
  - Mute Alarms, keeps a selected base station from generating alarms
  - Cancel Mute Alarms, allows a selected base station to generate alarms

    Note: You can view alarms on the Active Alarm Snapshot window.

- **Help**, holds a pull-down menu allowing you to select:
  - Content and Index
- **Tool bar icon**, allows you to click the tool button to:
  - Connect, lock, unlock, disconnect
  - Mute Alarms, keeps a selected base station from generating alarms
  - Cancel Mute Alarms, allows a selected base station to generate alarms
- **List filter**, allows you to select a list showing base stations allowed to generate alarms, or base stations not allowed to generate alarms, or both
- **List**, displays:
  - DMC TN, connected to a base station
  - Radio Identifier, identifies the base station (1 to 4) connected to the DMC and the base station (1 to 8) connected to the DMC8
  - Operational State, indicates if a base station is operational or is not operational
  - Alarm Muted, indicates if a base station is allowed to generate alarms or not
  - Number of Channels, identifies the base station as either a 6-channel or a 12-channel base station
  - Comment, an 80-character comment field in the DECT application
- **Pop-up menu**, appears when at least one RFP is selected, and you right click the mouse. Selecting one or more Radio Fixed Part (click/double-click on a Radio Identifier or highlight a row in the list) displays a menu with the following:
  - Properties
- **Help** allows you to select Content and Index or About DECT application

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Radio Fixed Part (base station) properties sheet

The Radio Fixed Part properties sheet is selected from the pop-up menu.

- "What you can do with the Radio Fixed Part properties sheet" (page 61)
- "Radio Fixed Part properties sheet definition" (page 61)

What you can do with the Radio Fixed Part properties sheet

This properties sheet allows you to:

- view base station details
- view Operational Status. When base station operational status changes, the DECT Manager updates the status
- change and apply Alarm Muting
- change and apply Comments, up to 80 characters
- select Line Power (powered by DMC) or Local Powered
- open the help file
- close the properties sheet

Radio Fixed Part properties sheet definition

The Radio Fixed Part properties sheet displays the same base station data as the Radio Fixed Part window list items. The properties sheet also shows the power source for the selected base station.

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Active Alarm Snapshot window

The Active Alarm Snapshot window is selected from the DECT Systems window Applications menu.

- "What you can do with the Active Alarm Snapshot window" (page 63)
- "Active Alarm Snapshot window definition" (page 63)
- "Active Alarm Snapshot properties sheet" (page 64)

What you can do with the Active Alarm Snapshot window

This window allows you to:

- connect to the Active Alarm Snapshot window
- refresh the window
- open a properties sheet

Active Alarm Snapshot window definition

The Active Alarm Snapshot window displays the alarm data stored in the DMC. The alarm data displayed does not change or update until manually refreshed

- **File**, holds a pull-down menu allowing you to select one of the following:
  - Connect / Lock / Unlock / Disconnect, same functions as the Connect / Disconnect tool
  - Properties, opens the Active Alarm Snapshot properties sheet
  - Close, closes the Active Alarm Snapshot window
- **View**, holds a pull-down menu allowing you to select:

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- Tool bar, to show or hide
- Status bar, to show or hide
- Refresh, updates the Active Alarm Snapshot window with the latest alarm data from the MDECT system selected in the title bar. You cannot select a separate DMC TN to refresh.

- **Help**, holds a pull-down menu allowing you to select:
  - Content and Index
- **Tool bar**, allows you to click the tool button to:
  - Connect, lock, unlock, disconnect
  - Refresh, updates the Active Alarm Snapshot window with the latest alarm data from the MDECT system selected in the title bar. You can not select a separate DMC TN to refresh.
- **List**, shows read-only data about:
  - Severity, always labeled as Critical
  - Error Code, a three digit code. Refer to the Meridian Companion DECT Operation Administration and Maintenance NTP for the meaning of the Error Codes
  - DMC TN, indicates the location of the card that originated the alarm
  - Radio Identifier (base station identifier), indicates the base station that is the source of an alarm
  - Date and Time, when the alarm occurred
  - Operator Data, describes the alarm and the faulty component if applicable
- **Pop-up menu**, appears when at least one RFP is selected, and you right click the mouse.
  - Properties
- **Help** displays Content and Index, and About DECT application

Active Alarm Snapshot properties sheet

The Active Alarm Snapshot properties sheet is selected from the pop-up menu.

- "What you can do with the Active Alarm Snapshot properties sheet" (page 65)
- "Active Alarm Snapshot properties sheet definition" (page 65)

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What you can do with the Active Alarm Snapshot properties sheet

This properties sheet allows you to:

- view alarm (MDECT system message) details
- close the properties sheet
- open the help file

Active Alarm Snapshot properties sheet definition

The Active Alarm Snapshot properties sheet displays the same alarm data as the Active Alarm Snapshot window list items.

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Performance Collection window

The Performance Collection window is selected from the DECT Systems window Applications menu.

- "What you can do with the Performance Collection window" (page 67)
- "Performance Collection window definition" (page 67)
- "Performance Collection additional information" (page 67)

What you can do with the Performance Collection window

This window allows you to:

- start and stop User Performance Collection counters
- start and stop Equipment Performance Collection counters

Performance Collection window definition

The Performance Collection window displays the following:

- **Name**, allows you to select the directory where you want to store the Performance Collection file.
- **User Performance Collection**, collects counter data on handset user related activities.
- **Equipment Performance Collection**, collects counter data on DMC related activities.

Performance Collection additional information

The DECT Manager user starts and stops performance counter collection. You can not schedule performance collection. The collection begins when you start it and ceases when you stop it.

You can set the collection period for 15 minutes, 30 minutes, one hour, one day. The performance counters are on the DMCs. You can select DMC TNs.

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You can collect User (handset) data and Equipment (MDECT system) data separately. You can set User (handset) data and Equipment (MDECT system) data collection periods separately.

The DECT Manager stores the performance files. Rebooting the DECT Manager does not destroy the files. The back up and restore application on the DECT Manager does not back up and restore the performance files.

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Retrieve RSSI Snapshot window

The Retrieve RSSI Snapshot window is selected from the DECT Systems window Applications menu.

- "What you can do with the Retrieve RSSI Snapshot window" (page 69)
- "Retrieve RSSI Snapshot window definition" (page 69)
- "Retrieve RSSI Snapshot attributes" (page 69)

What you can do with the Retrieve RSSI Snapshot window

This window allows you to:

- view Radio Signal Strength Indication details
- scroll and select a DMC for RSSI information retrieval

Retrieve RSSI Snapshot window definition

The Retrieve RSSI Snapshot window collects, on request, the RSSI for selected DMC.

Retrieve RSSI Snapshot attributes

The DECT Manager collects the RSSI as an ASCII file. The DECT Manager user must indicate where to store the RSSI file.

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Backup and Restore utility

- Procedure 8 “Backup DECT data” (page 71)
- Procedure 9 “Restore DECT data” (page 73)

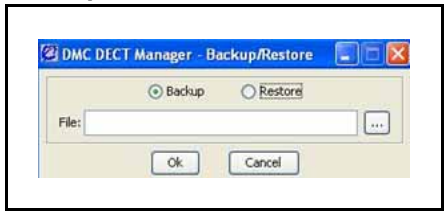
DECT Data Backup and Restore operations are performed using the DMC DECT Backup and Restore utility.

The DECT Data backup file contains all configured PBX Systems, corresponding DECT systems and other configuration data compressed in a file with .bak extension.

The Backup utility automatically generates a backup file name during a backup operation. The user can change the filename, if required, but, the filename should always have .bak extension. A backup file, by default, has the following format: DMC_DECT_BACKUP_mm_dd_yyyy.bak

During the restore operation, a user selects a backup file and replaces the existing configuration in the DMC DECT Manager with the configuration available in the backup file. Note that the restore operation does not compare the data in the backup file with existing data.

Procedure 8
Backup DECT data

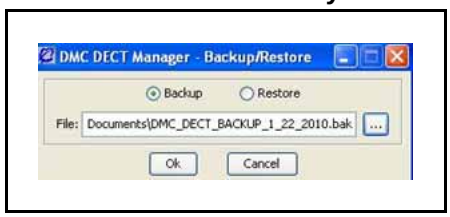
Step	Action
1	Click **Start, Programs, Nortel DMC DECT Manager, Backup Restore Utility** **Figure 31** **Backup and Restore** 

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2 Select the **Backup** option. (The backup option is selected by default.)

3 Click the **File** browse button to select the directory and provide the backup file name. Ensure that the file extension is .bak.

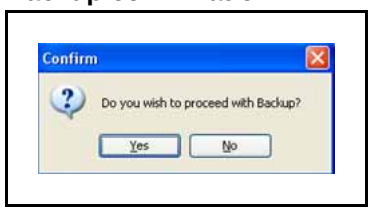
Figure 32
Browse to select directory



4 Click **OK**.

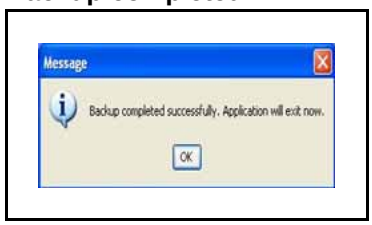
5 Click **Yes** to proceed with the backup.

Figure 33
Backup confirmation



6 Click **OK**.

Figure 34
Backup completed



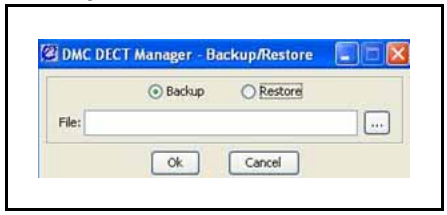
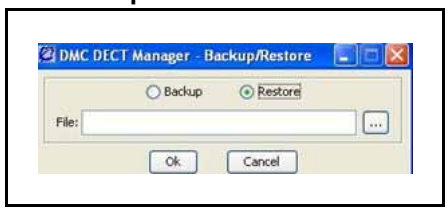
--End--

Note that

- Basic validation is performed during the backup operation.
- File name is mandatory
- Verify the extension of the file. File extension must be .bak

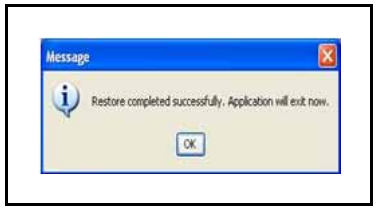
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Procedure 9
Restore DECT data

Step	Action
1	Click **Start, Programs, Nortel DMC DECT Manager, Backup Restore Utility** **Figure 35** **Backup and Restore** 
2	Select the **Restore** option. (The backup option is selected by default.) **Figure 36** **Restore option** 
3	Click the **File** browse button to select the DECT backed up file. **Figure 37** **Browse to backed up file** 
4	Click **OK**.
5	Click **Yes** to proceed with the restore. **Figure 38** **Restore confirmation** 
6	Click **OK**.

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Figure 39
Restore completed



--End--

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Nortel Communication Server 1000

Using the DMC DECT Manager

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