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# Meridian/Succession Companion DECT

## Installation Guide

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## Publication history

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### June 2001

Standard, Release 5.00. 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 553-3601-203.

This version replaces all previous versions.

### March 2000

Standard, Release 4.00. This version introduces information about: DECT C4010 handset, C4010 Ex handset, C4020 handset, DECT Manager fill down for MSMN concentrated DCMs, MSMN implementation and operation.

### July 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. This version arranges the handset subscription chapter in a more logical order.

### July 1998

Standard, Release 2.00. This version introduces information about the C4040 handset.

**June 1998**

Standard, Release 1.00. The first release of the *Meridian Companion DECT Installation Guide*.

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## About this guide

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### How to use this guide

Complete the installation tasks in sequence. Start at the first page and proceed through the procedures until you reach the end of this guide.

### Target audience

The Meridian Companion DECT Installation Guide provides information for installers, site maintenance personnel, and administrators.

### Identifying Nortel Networks PBX systems

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

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

The following systems are referred to as Small systems.

- Option 11

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

## Call out boxes



### CAUTION: Data loss

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



### CAUTION: Equipment damage

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



### CAUTION: Electrostatic sensitive device

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



### CAUTION: Service interruption

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



### DANGER: Electric shock

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



**DANGER: Serious injury**

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



**WARNING: Personal injury**

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



**NOTE**

This symbol is used to indicate advice.

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





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# Hardware Installation Introduction

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This chapter contains the following topics:

Before you begin . . . . .	11
Unpack and examine the equipment . . . . .	12

## Before you begin

Before you install the DECT system, the following must be completed:

- the site survey
- the deployment
- the installation of the house wiring for base stations

Before you install the DECT system you must have the following:

- site work order
- list of equipment to be installed, showing quantities
- the *Meridian 1 Companion DECT Provisioning Records* (553-3601-102)
- a marked-up floor plan
- a volt/ohm meter
- hand tools and hardware, such as
  - screwdrivers and pliers
  - spanners and socket wrenches
  - drill and drill bits

- screws and screw anchors
- punch-down tools for MDF and RJ45 surface mount jacks
- cable continuity checking equipment

## Unpack and examine the equipment

Complete the following steps:

**Table 1: Unpack and examine the equipment**

Step	Action
1	Check the items shipped for discrepancies against your list of equipment required for the installation.
	If any items are missing, take the action that is appropriate for this situation.
2	Carefully unpack and examine the equipment for damage.
	If any items are missing, take the action that is appropriate for this situation.





**NOTE**

Store the equipment containers away from the installation area. Use the containers to return damaged equipment.

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## Install Base Station

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This chapter contains the following topics:

DECT base station rules .....	13
Install C4600 and C4610 base stations .....	15
Install Base Station wiring to the MDF .....	16
Install the C4610 base station external power supply .....	21
Install base station in the external housing .....	22
Attach the external housing to a wall .....	25
Connect the external housing wiring to the MDF .....	27

### DECT base station rules

Be aware of the following rules:

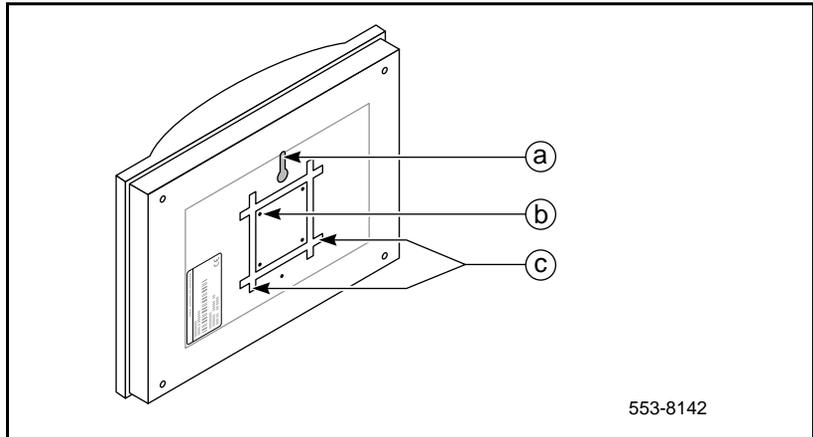
- DC powered Meridian systems input voltage of at least -48 volts is required for maximum base station line length.
- One hundred ohms is the maximum line length for a C4610 high traffic base station. If the line measurement approaches 100 ohms then an external power supply should be used.
- In the event the exact location is not accessible, mount the base station as close as possible to the location in the site survey.
- Mount the base station in a vertical position, not horizontally on a ceiling.
- Lead the base station cable directly away from the base station. Surplus cable can cause base station malfunctions.

- Place the base station where it is unlikely to be damaged. For example, a base station in a warehouse must be placed where it cannot be damaged by a forklift truck.
- Surrounding objects must not affect the base station. For example, a base station in a car park needs to be placed higher than any vehicle parked next to it.
- The minimum distance between two base stations must be greater than two meters.
- Do not mount base stations on large concrete or stone columns, air ducts or large metal objects.
- The external base station is powered from the line connection and does not require a mains connection.
- Use the external housing kit to mount any base station out-of-doors.
- Use the external housing kit for any base station subject to conductive pollution, or dust which could become conductive due to expected condensation.
- The NTCW00AB DMC8 and NTCW01AB DMC8-E is compatible with M1 X11 Software Releases:
  - Release 23 onwards supports, Basic configuration, CLID and CPND, DECT card addressing within OA&M, 16 users per card
  - Release 24B onwards supports 32 users per card
  - Release 25 onwards supports MSMN and Concentration

## Install C4600 and C4610 base stations

Consult your work order and marked-up floor plan to determine the position of the base station and perform the following steps:

**Figure 1: Base station mounting details**



### Key

- a screw mounting slot
- b screw and cable tie retaining washer hole
- c cable tie grooves

**Table 2: Install C4600 and C4610 base station**

Step	Action
1	Locate the base station mounting position.
2	Install the base station mounting screw.
	If required, drill the holes for a screw anchor and install the anchor.
3	Fasten the base station on the wall or a building protrusion.
	Hang the base station on the screw or use cable ties to mount the base station. Insert the cable ties in the vertical or horizontal grooves on the back of the base station. Secure the cable ties to the base station with the retaining washers and screws provided. Fasten the cable ties to the building protrusion.



### Install Base Station wiring to the MDF

Consult your work order and marked-up floor plan to determine the base station to MDF connections and perform the following steps:

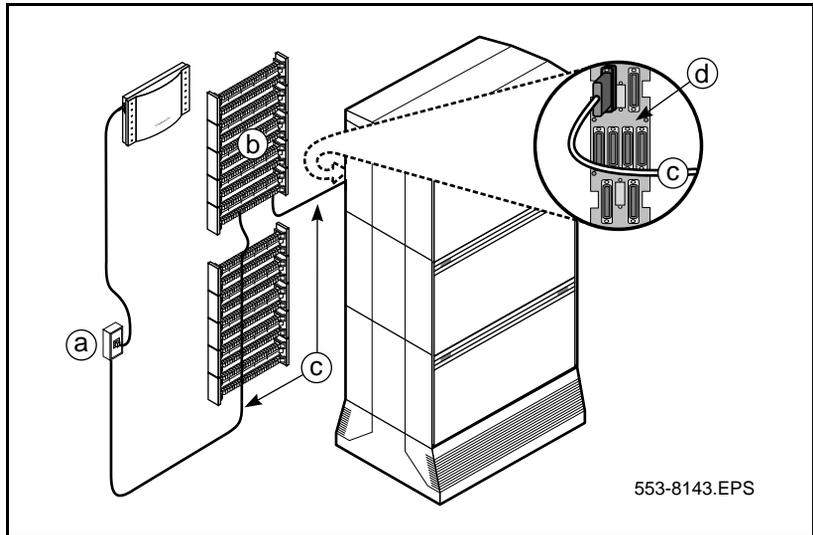


**CAUTION: Service interruption**

For maximum line length before signal degradation occurs, use UTP Cat 5 cabling between the base station and the shelf or cabinet. If the line length exceeds 100 ohms for the 4610 base station, an external power supply must be used.

The maximum distance when using external power with UTP Cat 5 cabling is approximately 1.7 km.

**Figure 2: Base station, MDF, and I/O panel details**



**Key**

- a RJ45 single surface mount jack
- b MDF
- c recommended UTP Cat 5 cable
- d IPE shelf I/O connector panel

**Table 3: Install Base Station wiring to the MDF**

Step	Action
1	Connect one end of the NTCW10 cable into the base station RJ45 jack. Use the supplied cable.
2	Install the RJ45 single surface mount jack. Use the NTCW10 cable length to measure the location of the RJ45 surface mount jack.

**Table 3: Install Base Station wiring to the MDF**

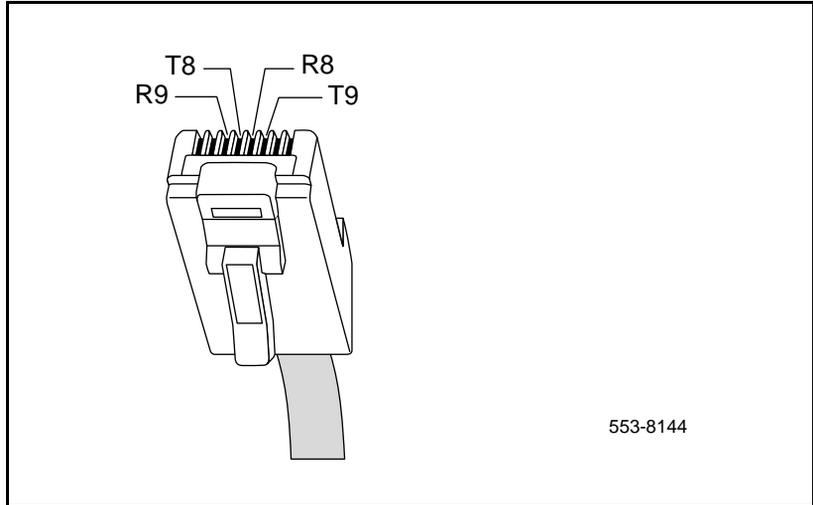
Step	Action
3	Connect a UTP3/UTP5 cable from the MDF house side to the RJ45 surface mount jack.
	<p><a href="#">Table 4 on page 19</a> shows the RJ45 plug/socket to MDF connections. For DMC8s type NTCW00AB and NTCW01AB connect from base station 1 to base station 8.</p> <p><b>Note:</b> To support base stations 5, 6, 7, and 8 on NT8D37 (AA and DC) IPE modules requires 24 tip and ring pair backplane to I/O panel connections. To re-cable NT8D37 from 16 pair to 24 pair, see <i>System Installation Procedures</i> (553-3001-210), Appendix C.</p>
4	Connect the free end of the NTCW10 cable into the RJ45 surface mount jack.



**NOTE**

The BIX tip and ring connections shown in [Table 4 on page 19](#) correspond to standard BIX designation. The first pair are labeled T0 and R0. (See the *Installation and Maintenance NTP*, section *Planning and Designating the MDF*.)

**Figure 3: RJ45 plug/socket connections to base station 1 MDF**



**Table 4: Base station RJ45 to BIX MDF connections**

Base station number	RJ45 pin out of the plug and socket	MDF connection
Base station 1	4	T8
Base station 1	5	R8
Base station 1	6	T9
Base station 1	3	R9
Base station 2	4	T10
Base station 2	5	R10
Base station 2	6	T11
Base station 2	3	R11
Base station 3	4	T12
Base station 3	5	R12
Base station 3	6	T13

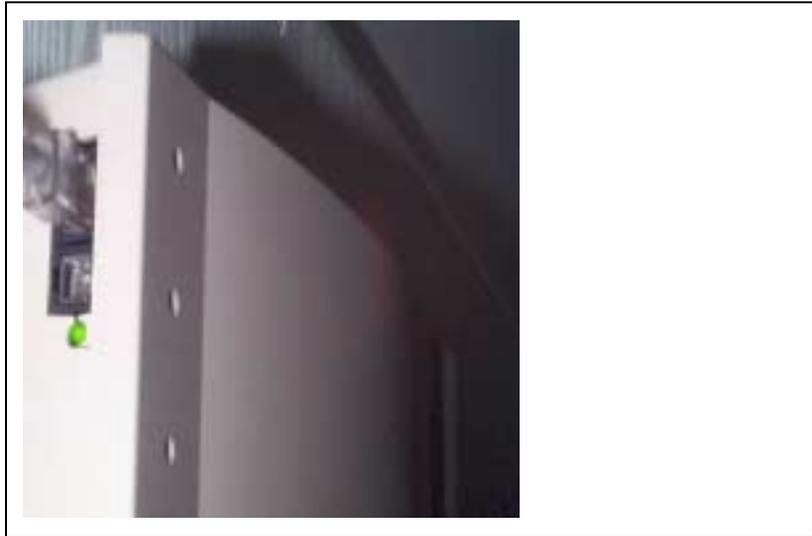
**Table 4: Base station RJ45 to BIX MDF connections**

Base station number	RJ45 pin out of the plug and socket	MDF connection
Base station 3	3	R13
Base station 4	4	T14
Base station 4	5	R14
Base station 4	6	T15
Base station 4	3	R15
Base station 5	4	T16
Base station 5	5	R16
Base station 5	6	T17
Base station 5	3	R17
Base station 6	4	T18
Base station 6	5	R18
Base station 6	6	T19
Base station 6	3	R19
Base station 7	4	T20
Base station 7	5	R20
Base station 7	6	T21
Base station 7	3	R21
Base station 8	4	T22
Base station 8	5	R22
Base station 8	6	T23
Base station 8	3	R23

## Install the C4610 base station external power supply

An external power supply must be installed on the 12 channel base station if the UTP Cat 5 line length exceeds 100 ohms.

**Figure 4: C4610 base station external power**



**Table 5: Install the C4610 base station external power supply**

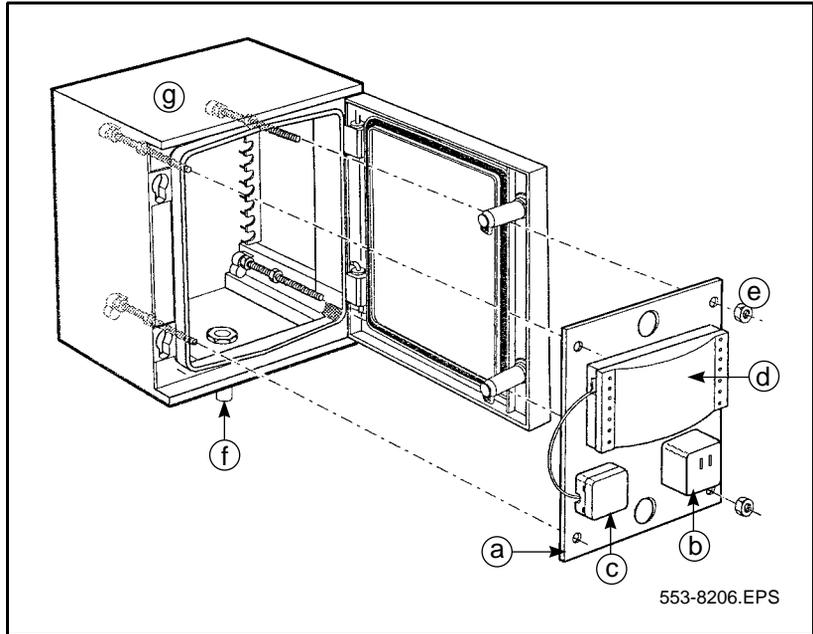
Step	Action
1	Remove the plastic stopper from the C4610 base station power socket. The power socket is located next to the yellow LED.
2	Plug the external power supply jack into the C4610 base station power socket.
3	Connect the external power supply to the AC mains outlet.



## Install base station in the external housing

Consult your work order and perform the following steps:

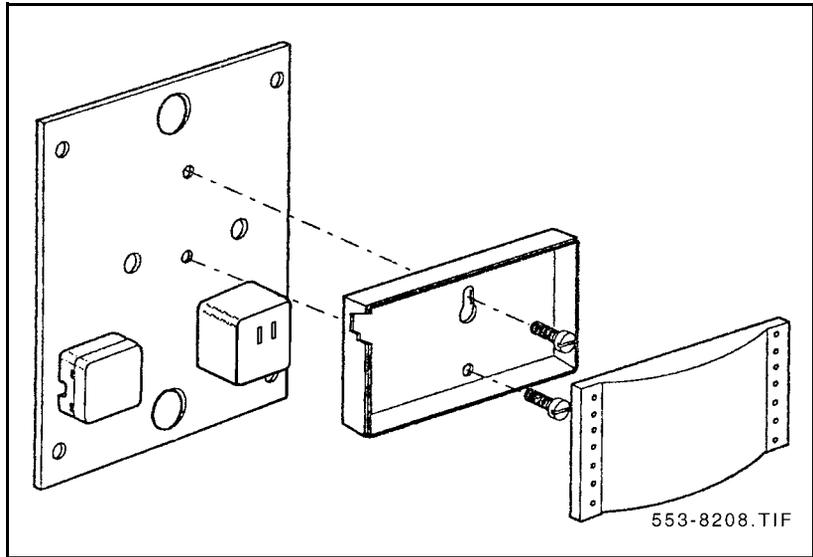
**Figure 5: External housing details**



### Key

- a component mounting plate
- b power transformer (not used)
- c cable connecting box
- d base station
- e plate retaining nuts
- f cable outlet
- g external housing cabinet

**Figure 6: Base station mounting details**



**CAUTION: Equipment damage**

The following procedure requires the removal of the base station cover. The circuit board is attached to the base station cover. Do not damage the circuit board or bend the two antennas on the bottom of the circuit board.

**Table 6: Install the base station in the external housing**

Step	Action
1	Open the external housing cover. Insert the external housing key and turn clockwise.
2	Remove the base station mounting plate.

**Table 6: Install the base station in the external housing**

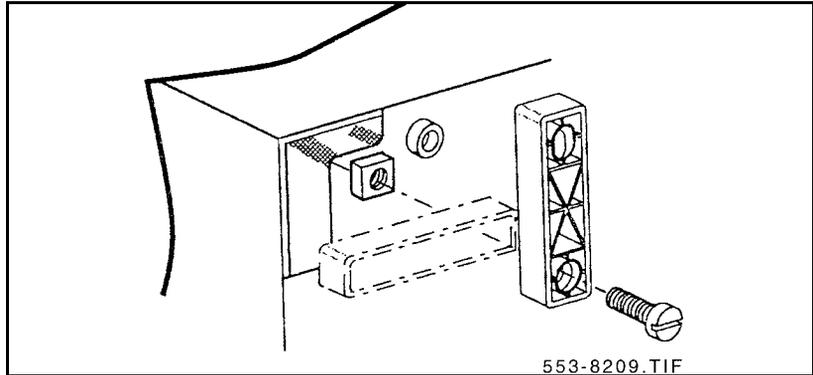
Step	Action
	Unscrew the four nuts securing the plate and pull the plate from the cabinet.
3	Remove the base station cover. See the preceding caution note.
	Carefully pry one corner of the cover from the base station, then the other corner.
4	Remove the base station lower screw hole cover.
	Push the screw hole cover out of the base station.
5	Mount the base station to the housing plate.
	Affix with the screws as shown in <a href="#">Figure 6</a> .
6	Replace the base station cover.
	Snap the cover in place.
7	Connect the connecting box cable to the base station.
	Snap the connecting box cable into the base station RJ45 connector. Lead the cable away from the base station for optimal performance of the antennas.
8	Replace the base station mounting plate.
	Secure the plate with the four nuts.



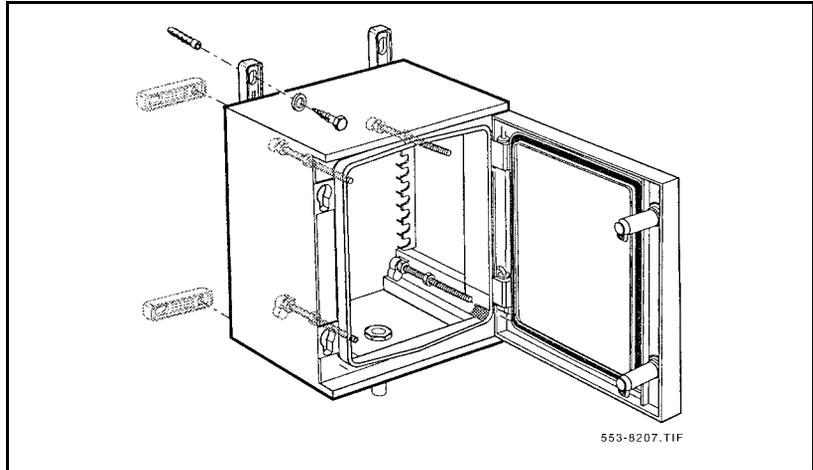
## Attach the external housing to a wall

Consult your work order and marked-up floor plan to determine the position of the base station external housing and perform the following steps:

**Figure 7: External housing mounting lugs**



**Figure 8: External housing wall mounting**





**DANGER: Electric shock**

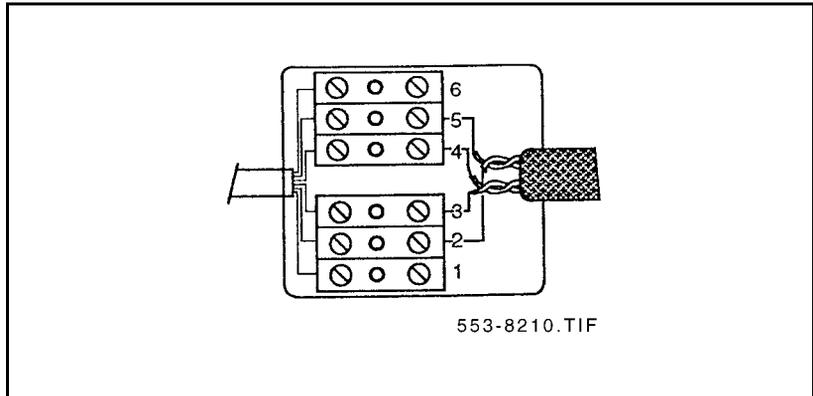
Do not drill into electrical wires embedded in the wall.

**Table 7: Attach the external housing to a wall**

Step	Action
1	Choose the vertical or horizontal mounting position.
	See <a href="#">Figure 7 on page 25</a> for details. Reposition mounting lugs if necessary.
2	Drill mounting holes in the wall.
	Use the drilling jig to align the holes.
3	Mount the external housing to the wall.
	See <a href="#">Figure 8 on page 25</a> for details. Use the screws, and appropriate inserts, to fasten the housing to the wall.

## Connect the external housing wiring to the MDF

Figure 9: External housing MDF connection details



### NOTE

The BIX tip and ring connections shown in [Table 9 on page 28](#) correspond to standard BIX designation. The first pair are labeled T0 and R0. (See the *Installation and Maintenance NTP*, section *Planning and Designating the MDF*.)

Consult your work order and perform the following steps:

**Table 8: Connect the external housing wiring to the MDF**

Step	Action
1	Lead the building cable into the external housing. Route the cable through the cable outlet in the external housing.
2	Secure the cable in the connecting box. Use a cable tie-wrap.
3	Connect the external housing wiring from the connecting box to the MDF.
	<p><b>Note:</b> See <a href="#">Figure 9 on page 27</a> and <a href="#">Table 9 on page 28</a> for wiring connections. For DMC8s type NTCW00AB and NTCW01AB connect from base station 1 to base station 8.</p> <p><b>Note:</b> To support base stations 5, 6, 7, and 8 on NT8D37 (AA and DC) IPE modules requires 24 tip and ring pair backplane to I/O panel connections. To re-cable NT8D37 from 16 pair to 24 pair, see <i>System Installation Procedures</i> (553-3001-210), Appendix C.</p>



**Table 9: External housing base station to BIX MDF connections**

External housing base station number	External housing connector box pin number	MDF connection
Base station 1	3	T8
Base station 1	4	R8
Base station 1	2	T9
Base station 1	5	R9
Base station 2	3	T10
Base station 2	4	R10
Base station 2	2	T11

**Table 9: External housing base station to BIX MDF connections**

<b>External housing base station number</b>	<b>External housing connector box pin number</b>	<b>MDF connection</b>
Base station 2	5	R11
Base station 3	3	T12
Base station 3	4	R12
Base station 3	2	T13
Base station 3	5	R13
Base station 4	3	T14
Base station 4	4	R14
Base station 4	2	T15
Base station 5	4	T16
Base station 5	5	R16
Base station 5	6	T17
Base station 5	3	R17
Base station 6	4	T18
Base station 6	5	R18
Base station 6	6	T19
Base station 6	3	R19
Base station 7	4	T20
Base station 7	5	R20
Base station 7	6	T21
Base station 7	3	R21
Base station 8	4	T22
Base station 8	5	R22
Base station 8	6	T23
Base station 8	3	R23



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# Install Additional IPE Shelves or Option 11 Cabinets

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This chapter contains the following topics:

Install additional IPE modules . . . . .	31
Install additional Option 11 cabinets . . . . .	34
Install IPE module wiring to the MDF . . . . .	37
Install Option 11 cabinet wiring to the MDF . . . . .	41

## Install additional IPE modules

Consult your work order and marked-up floor plan to determine if additional IPE modules are required and perform the following steps:



### NOTE

If you are not familiar with this process, refer to the *System Photo Installation Guide*, Task 4, Task 5, and Task 6 or the *Installation NTP*.

**Table 10: Install additional IPE modules**

Step	Action
1	Remove the IPE module front and rear covers.
	Remove the covers from the module, on which the DECT module will sit.
2	Remove the air grills.
	Release the air grill tabs or Southco® fasteners and lift the air grill off.
3	Remove the top cap.
	Loosen and remove the three front and rear top cap bolts. Lift off top cap.
4	Unfasten the column LED.
	Remove the LED bracket bolts.
5	Remove the I/O back panel cover.
	Unlock the four Southco fasteners.
6	Disconnect the column LED.
	Unlock LED wiring connector latches on the module backplane. Detach the LED wiring connector.
7	Disconnect the thermal sensor connector.
	Unlock the sensor connector latches on the 36 pin orange/brown colored connector, located to the left of the LED connector. Unplug the sensor connector.
8	Remove the EMI perf panel.
	Lift directly up.
9	Place the new module on top of the column.
	Keep your hands and fingers out from under the module when placing the module on top of the equipment column.
10	Connect the new module wiring.

**Table 10: Install additional IPE modules**

Step	Action
	Install the sensor connector of the new module into the vertical connector housing of the module below.
11	Secure the new module.
	Insert the five bolts and lock washers into the base of the new module. Tighten the bolts into the original module.
12	Attach the power cable.
	Connect the ribbon cable of the new module to J2 of the module below.
13	Reinstall the EMI perf panel and the LED.
	Install the LED connector and the sensor connector on the new module.
14	Replace the air grills and covers.
	Reverse the procedure for steps 1 to 4.
	

## Install additional Option 11 cabinets

Consult your work order and marked-up floor plan to determine if additional Option 11 cabinets are required and perform the following steps:



### NOTE

If you are not familiar with this process, refer to the *Option 11 Installation Guide, Chapter 6*.



### CAUTION: Electrostatic sensitive device

Wear a properly connected antistatic wrist strap to handle circuit cards. Handle cards by the edges only. Do not touch the contacts or components. Set the cards on a protective anti-static bag. If an antistatic bag is not available, hand hold the card, or set it in a card cage unseated from the connectors.

**Table 11: Install additional Option 11 cabinets**

Step	Action
1	Mount the expansion cabinet.
	For a wall mount, draw a level line, rest the bottom of mounting bracket on the line, screw the mounting bracket to the wall. Hang the cabinet on the mounting bracket. Fasten the bottom of the cabinet to the wall. For a floor mount, install the cabinet on the pedestal. Position the cabinet according to the equipment layout plan.
2	Remove the drip tray.
	Slide drip tray outward.

**Table 11: Install additional Option 11 cabinets**

<b>Step</b>	<b>Action</b>
<b>3</b>	Install ground wire.
	Use as a minimum, #6AWG ground wire. Tag the main ground connection at the ground source to ensure it is not accidentally discontinued. Test the ground.
<b>4</b>	Install the power supply.
	Wear the anti-static wrist strap. Turn power supply circuit breaker to OFF. Check the option switches on the power supply.
<b>5</b>	Install the fiber routing guide.
	Mount the guide in the area below the circuit cards and secure with the existing screws.
<b>6</b>	Connect the fiber optic cable or copper cable as applicable.
	For the A0618443 cable, remove the two plugs on the Fiber Receiver card. Connect the cable to the card so the “V” shaped groove is facing inward. For the glass fiber optic cable, remove the plug on one connector on the card, and the cap on the cable. Insert the connector and secure with a half turn clockwise. Wind the excess cable on the storage device.
<b>7</b>	Insert the circuit cards in the expansion cabinet.
	Refer to the following step action table “Install DMC8-Es” and your work order for card placement.
<b>8</b>	Install or expand the MDF cross-connect terminal.
	Consult your marked-up floor plan for the MDF addition location.
<b>9</b>	Install cables from the cabinet to the MDF cross-connect.
	Consult your marked-up floor plan for the cable location.
<b>10</b>	Install PFTU and SDI cable if required.
	Consult your marked-up floor plan for the cable location.
<b>11</b>	Replace the expansion cabinet drip tray.
	Slide the drip tray inward.
<b>12</b>	Remove the main cabinet cover and drip tray.

**Table 11: Install additional Option 11 cabinets**

<b>Step</b>	<b>Action</b>
	Undo the catches on the main cabinet and slide the drip tray outward.
<b>13</b>	Install a Fiber Routing guide in the main cabinet, if required.
	The Fiber Routing guide is secured to the under side of the bottom card rail and uses the screws to the left of the CPU card label and under the card 2 label.
<b>14</b>	Turn the power supply circuit breaker to OFF.
<b>15</b>	Unseat the NTDK20 SSC card and install a Fiber Expansion daughterboard.
	Connect the Fiber Expansion daughterboard to the connector "Fiber 1" if this is the first expansion cabinet, or to "Fiber 2" if this is the second expansion cabinet.
<b>16</b>	Connect the fiber optic cable to the Fiber Expansion daughterboard.
	For the A0618443 cable, remove the two plugs on the Fiber Receiver card. Connect the cable to the card so the "V" shaped groove is facing inward. For the glass fiber optic cable, remove the plug on one connector on the card and the cap on the cable. Insert the connector and secure with a half turn clockwise. Wind the excess cable on the storage device.
<b>17</b>	Re-seat the NTDK20 SCC card.
<b>18</b>	Route the fiber optic cable through the Fiber Routing Guide.
<b>19</b>	Set the circuit breaker in the main cabinet to ON.
	The system will reload, then check time and date using LD2.
<b>20</b>	Reinstall the drip tray in the main cabinet.
<b>21</b>	Reinstall the main cabinet cover.



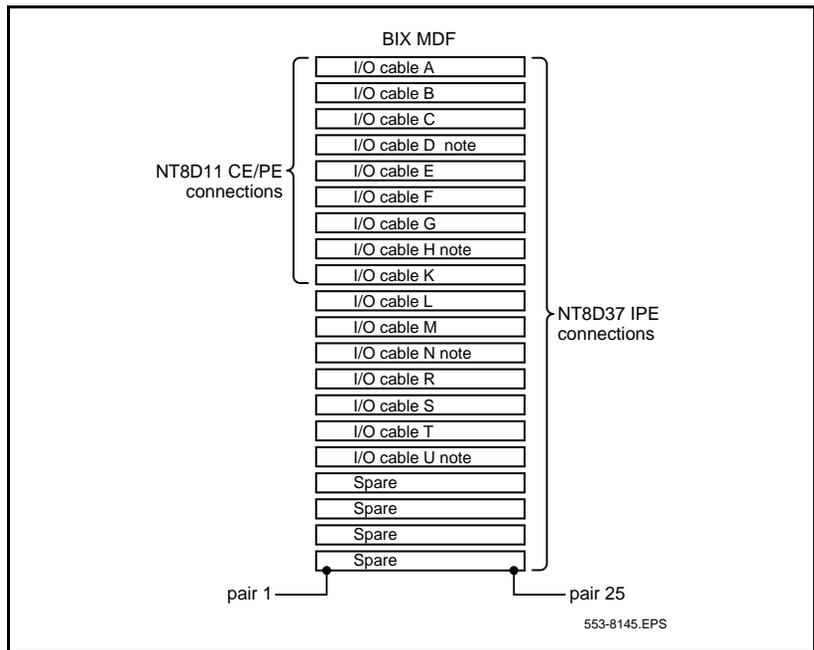
## Install IPE module wiring to the MDF



### CAUTION: Service interruption

You can use the existing MDF cabling, however UTP Cat 5 — NTCW15 or NTCW16 or NTCW17 MDF to PBX cabling is recommended as it provides a greater line length before signal degradation occurs.

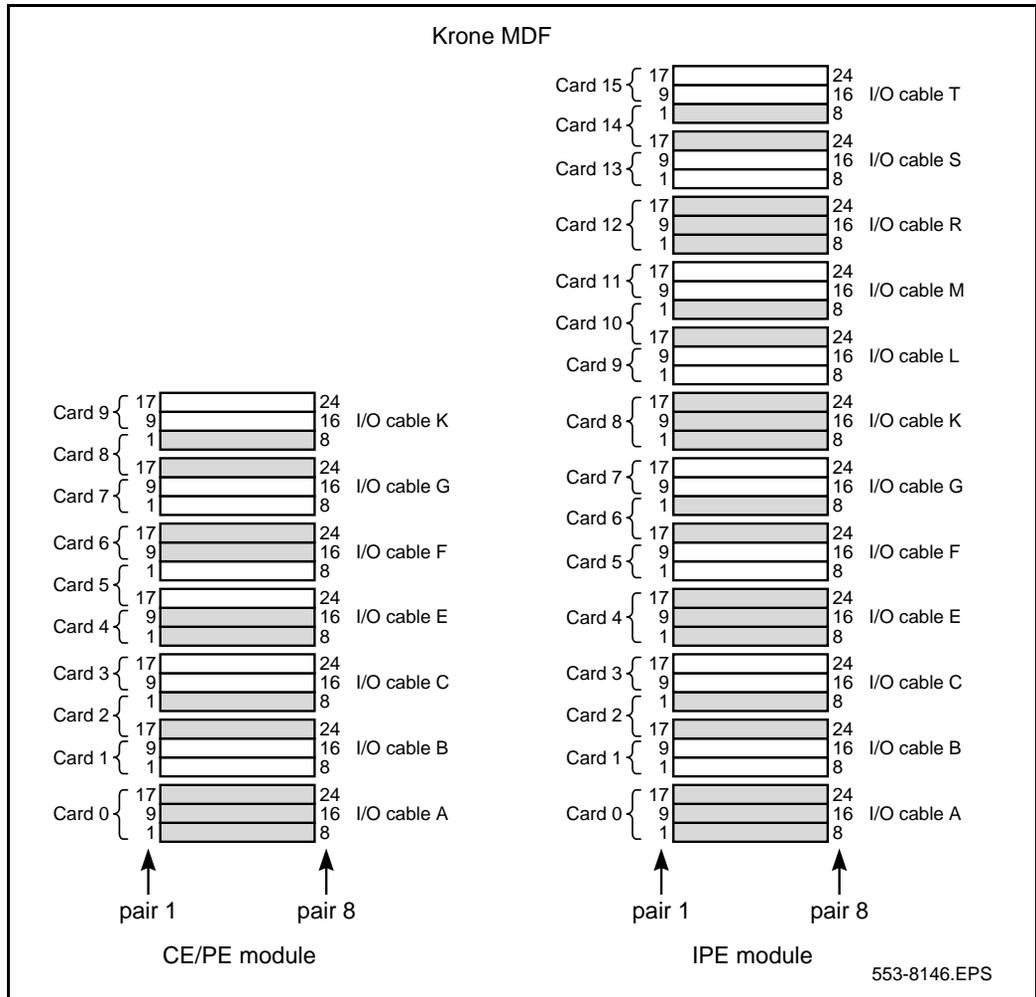
**Figure 10: IPE I/O cable to BIX MDF termination**



### NOTE

In NT8D11AC or NT8D11DC CE/PE and NT8D37AC or NT8D37DC IPE modules, these BIX connectors are not used. However, they are used in the NT8D11BC or NT8D11EC CE/PE and NT8D37BA or NT8D37 EC IPE modules.

Figure 11: IPE I/O cable to Krone MDF termination



Consult your work order to determine the layout of the module I/O panel to MDF cabling route and perform the following steps:

**Table 12: Install IPE module wiring to the MDF**

<b>Step</b>	<b>Action</b>
1	Identify the UTP Cat 5 twenty-five pair MDF cable.
	Label both ends of the cable with the IPE module number and the I/O panel letter designation.
2	Connect the IPE or cabinet end of the cable.
	Insert the cable's Amphenol® connector into the appropriate I/O panel connector. See <a href="#">Table 13 on page 39</a> .
3	Run the cable to the MDF.
4	Terminate the cable on the MDF.
	For BIX MDF, refer to <a href="#">Figure 10 on page 37</a> to locate the BIX connectors and <a href="#">Table 13 on page 39</a> to locate the cable color code. For Krone MDF, refer to <a href="#">Figure 11 on page 38</a> to locate the Krone connectors and <a href="#">Table 13</a> to locate the cable color code.



**Table 13: Color code for 25 pair cable**

<b>Amphenol pin number</b>	<b>Tip</b>	<b>Ring</b>
	<b>Body/Band</b>	<b>Body/Band</b>
26/1	White/Blue	Blue/White
27/2	White/Orange	Orange/White
28/3	White/Green	Green/White
29/4	White/Brown	Brown/White
30/5	White/Slate	Slate/White
31/6	Red/Blue	Blue/Red
32/7	Red/Orange	Orange/Red

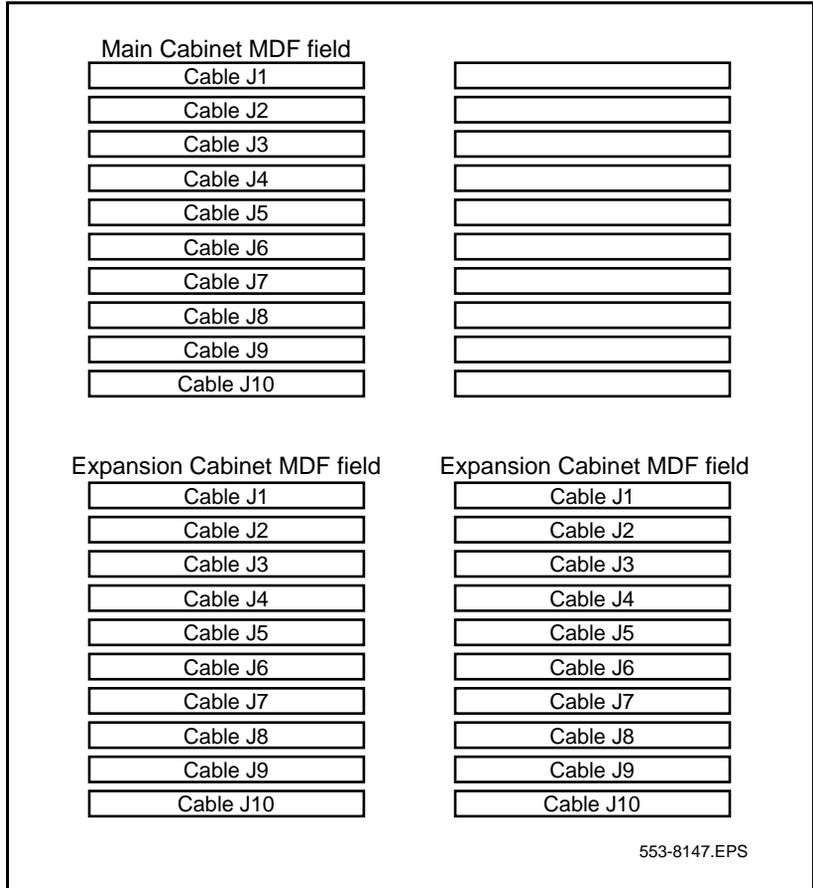
**Table 13: Color code for 25 pair cable**

<b>Amphenol pin number</b>	<b>Tip</b>	<b>Ring</b>
	<b>Body/Band</b>	<b>Body/Band</b>
33/8	Red/Green	Green/Red
34/9	Red/Brown	Brown/Red
35/10	Red/Slate	Slate/Red
36/11	Black/Blue	Blue/Black
37/12	Black/Orange	Orange/Black
38/13	Black/Green	Green/Black
39/14	Black/Brown	Brown/Black
40/15	Black/Slate	Slate/Black
41/16	Yellow/Blue	Blue/Yellow
42/17	Yellow/Orange	Orange/Yellow
43/18	Yellow/Green	Green/Yellow
44/19	Yellow/Brown	Brown/Yellow
45/20	Yellow/Slate	Slate/Yellow
46/21	Violet/Blue	Blue/Violet
47/22	Violet/Orange	Orange/Violet
48/23	Violet/Green	Green/Violet
49/24	Violet/Brown	Brown/Violet
50/25	Violet/Slate	Slate/Violet

## Install Option 11 cabinet wiring to the MDF

Consult your work order to determine the Option 11 cabinet to MDF cabling route, and perform the following steps:

**Figure 12: Option 11 MDF details**



**Table 14: Install Option 11 cabinet wiring to the MDF**

<b>Step</b>	<b>Action</b>
<b>1</b>	Identify the UTP Cat 5 twenty five pair MDF cable.
	Label both ends of the cable with the cabinet jack number.
<b>2</b>	Connect the cabinet end of the cable.
	Insert the cable's Amphenol connector into the appropriate cabinet connector jack.
<b>3</b>	Run the cable to the MDF.
<b>4</b>	Terminate the cable on the MDF.
	For BIX MDF, refer to <a href="#">Figure 12 on page 41</a> to locate the BIX connectors and <a href="#">Table 13 on page 39</a> to locate the cable color code.
	

---

## Install DMC8 and Faceplate Cables

---

This chapter contains the following topics:

Cross-connect base stations to the DMC8 positions . . . . .	43
Cross-connect base stations to the DMC8 Relay card . . . . .	47
Install DMC8 and DMC8-E in an IPE shelf (Option 51 to 81) . . . . .	49
Install DMC8-E in an Option 11 cabinet . . . . .	52
Install faceplate cables and inter-shelf/cabinet cable . . . . .	62

### Cross-connect base stations to the DMC8 positions

Consult your work order to determine the cross-connect details and perform the following steps:



**CAUTION: Service interruption**

The jumper wire on the MDF must be at least UTP Cat 3. UTP Cat 5 is recommended as it provides a greater line length before signal degradation occurs.

**Table 15: Cross-connect base stations to the DMC8 positions**

Step	Action
1	Cross-connect from the base station house side connector to the DMC8 equipment side connector.
	Connect a jumper wire from the tip and ring of the house side connector to the tip and ring of the equipment side connector. Refer to <a href="#">Table 16 on page 44</a> for the tip and ring designators. For DMC8s type NTCW00AB and NTCW01AB connect from base station 1 to base station 8. <b>Note:</b> To support base stations 5, 6, 7, and 8 on NT8D37 (AA and DC) IPE modules requires 24 tip and ring pair backplane to I/O panel connections. To re-cable NT8D37 from 16 pair to 24 pair, see <i>System Installation Procedures</i> (553-3001-210), Appendix C.
2	Cross-connect the remaining base stations.
	Repeat step one until all base stations are cross-connected.



**NOTE**

The BIX tip and ring connections shown in [Table 16](#) correspond to standard BIX designation. The first pair are labeled T0 and R0. (See the *Installation and Maintenance NTP*, section *Planning and Designating the MDF*.)

**Table 16: Base station tip and ring connections**

Base station number	Base station MDF connection	DMC8 MDF connection
Base station 1	T8	T8
Base station 1	R8	R8
Base station 1	T9	T9

**Table 16: Base station tip and ring connections**

<b>Base station number</b>	<b>Base station MDF connection</b>	<b>DMC8 MDF connection</b>
Base station 1	R9	R9
Base station 2	T10	T10
Base station 2	R10	R10
Base station 2	T11	T11
Base station 2	R11	R11
Base station 3	T12	T12
Base station 3	R12	R12
Base station 3	T13	T13
Base station 3	R13	R13
Base station 4	T14	T14
Base station 4	R14	R14
Base station 4	T15	T15
Base station 4	R15	R15
Base station 5	T16	T16
Base station 5	R16	R16
Base station 5	T17	T17
Base station 5	R17	R17
Base station 6	T18	T18
Base station 6	R18	R18
Base station 6	T19	T19
Base station 6	R19	R19
Base station 7	T20	T20
Base station 7	R20	R20
Base station 7	T21	T21
Base station 7	R21	R21
Base station 8	T22	T22

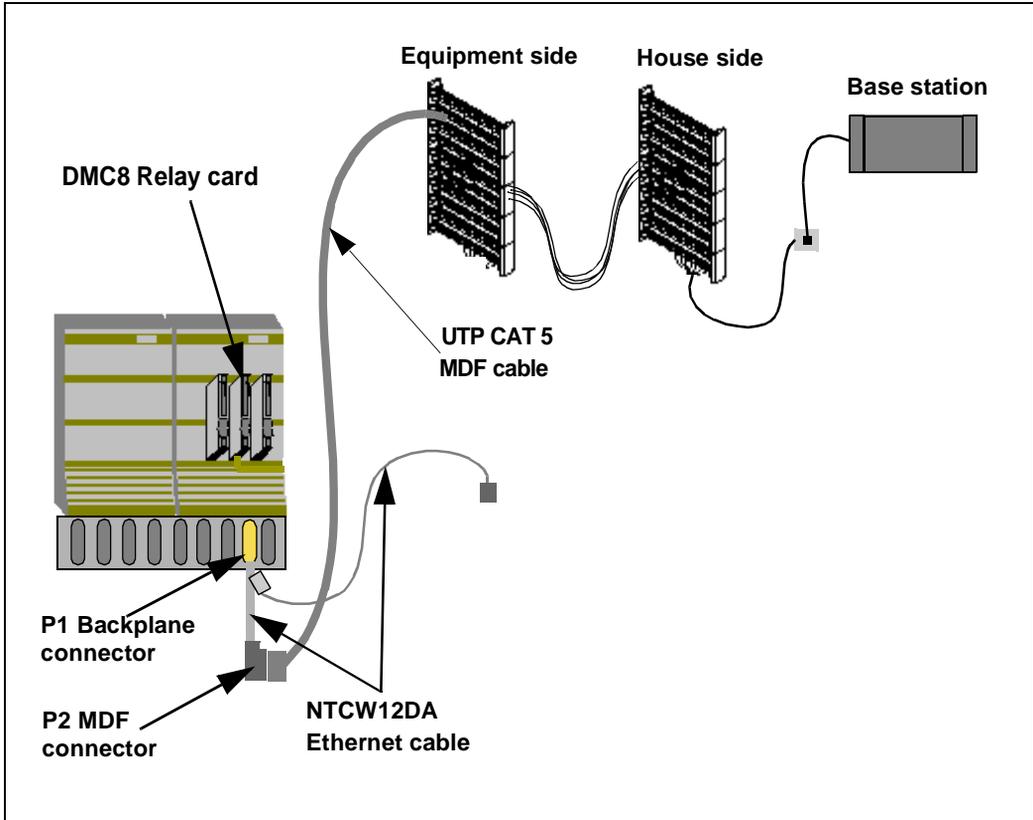
**Table 16: Base station tip and ring connections**

<b>Base station number</b>	<b>Base station MDF connection</b>	<b>DMC8 MDF connection</b>
Base station 8	R22	R22
Base station 8	T23	T23
Base station 8	R23	R23

# Cross-connect base stations to the DMC8 Relay card

Consult your work order to determine the cross-connect details and perform the following steps:

Figure 13:  
DMC8 Relay card to base station connections



**Table 17: Cross-connect base stations to the DMC8 positions**

Step	Action
1	Connect the NTCW12DA cable to the DMC8 Relay card.
	Insert P1 into the DMC8 Relay card backplane connector located on the Meridian 1 PBX shelf/module or the Option 11 cabinet.
2	Connect the MDF cable to the NTCW12DA cable.
	Insert the MDF cable connector into P2.
3	Connect the MDF cable to the equipment side MDF cross-connect terminal block.
	See <i>System Installation Procedures (553-3001-210) Cabling lines and trunks</i> or <i>Option 11 Planning and Installation Guide (553-3021-210) Installing and connecting cross-connect terminal to cabinets</i> .
4	Cross-connect from the base station house-side connector to the DMC8 Relay card equipment side connector.
	<p>Connect a jumper wire from the tip and ring of the house-side connector to the tip and ring of the equipment-side connector. Refer to <a href="#">Table 16 on page 44</a> for the tip and ring designators. For DMC8s type NTCW00AB and NTCW01AB connect from base station 1 to base station 8.</p> <p>To support base stations 5, 6, 7, and 8 on NT8D37 (AA and DC) IPE modules requires 24 tip and ring pair backplane to I/O panel connections. To re-cable NT8D37 from 16 pair to 24 pair, see <i>System Installation Procedures (553-3001-210)</i>, Appendix C.</p>



## Install DMC8 and DMC8-E in an IPE shelf (Option 51 to 81)

Refer to your work order and marked-up floor plan to determine the position of the DMC8 and DMC8-E and perform the following steps:



### CAUTION: Electrostatic sensitive device

Wear a correctly connected antistatic wrist strap to handle circuit cards. Handle cards by the edges only. Do not touch the contacts or components. Set the cards on a protective antistatic bag, whenever possible. If an antistatic bag is not available, hand hold the card, or set it in a card cage removed from the connectors.



### CAUTION: Service interruption

Only install DMC8-Es in slot 8.



### NOTE

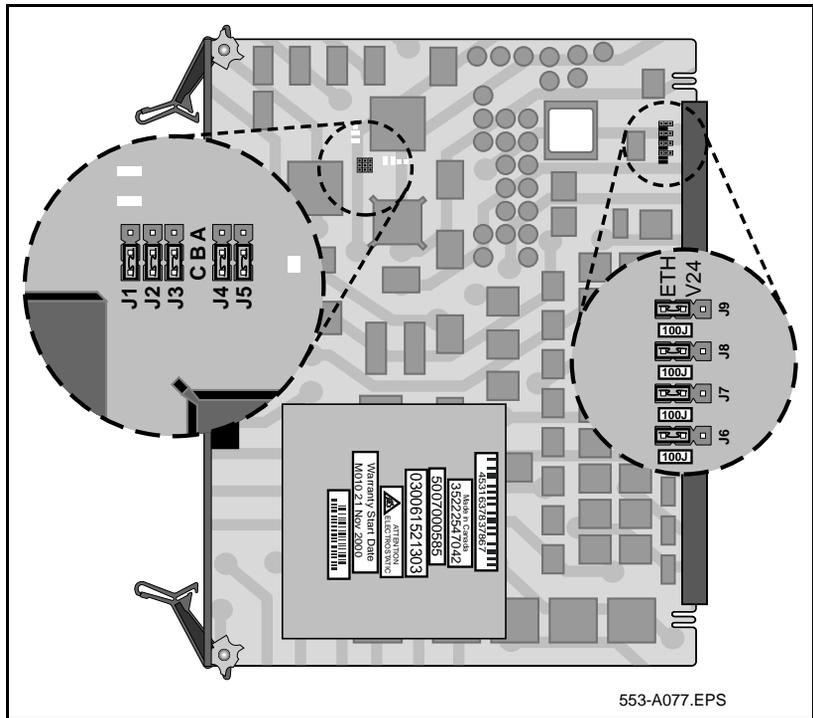
The DMCs must be installed next to each other so the faceplate cables connect to the ports.



### NOTE

See the Meridian Companion DECT NTP Overview [“System software parameters” on page 38](#) for DMC8 and DMC8-E X11 Release and software package compatibility.

Figure 14: DMC8/DMC8-E jumper details



See [page 53](#) for Option 11 card jumper settings.



**CAUTION: Service interruption**

Ensure that the DMC8/DMC8-E Relay card jumpers J6 to J9 are in the ETH position for operation on a dedicated LAN.

Ensure that the DMC8/DMC8-E Relay card jumpers J6 to J9 are in the V.24 position for operation on a serial connection to the OTM server.

**Table 18: Install DMC8 and DMC8-E in an IPE shelf (Option 51 to 81)**

Step	Action
1	Install J1 jumper straps on the DMC8 and the DMC8-Es for Card ID.
	For pre-Release 23 software strap A B. For post-Release 23 software, and Multi-Site Mobility Networking, strap B C.
2	Install J2 jumper straps on the DMC8 and the DMC8-Es for the system type.
	Strap A B for IPE shelf. (See <a href="#">page 53</a> for Option 11 settings.)
3	Install J3 jumper straps on the DMC8 and the DMC8-Es for cabinet or IPE shelf number.
	For shelf 0, the lower TN IPE shelf, strap B C. For shelf 1, the higher TN IPE shelf, strap A B.
4	Install J6 to J9 jumper straps on the DMC8 and the DMC8-Es used as the Relay card for either V.24 connection or Ethernet connection.
	For the V.24 connection strap jumpers J6 to J9 to the V24 position. For the Ethernet connection strap jumpers J6 to J9 to the ETH position.
5	Insert DMC8-E(s), if required.
	Place DMC8-E(s) in slot 8. See examples in <a href="#">Figure 16</a> , <a href="#">Figure 17</a> , <a href="#">Figure 18</a> , and <a href="#">Figure 19</a> .
6	Insert DMC(s).
	Place DMC8s in the slots as indicated on your work order. Do not place DMC8s in slot 8. See examples in <a href="#">Figure 16</a> , <a href="#">Figure 17</a> , <a href="#">Figure 18</a> , and <a href="#">Figure 19</a> .



## Install DMC8-E in an Option 11 cabinet

Consult your work order and marked-up floor plan to determine the position of the DMC8 and DMC8-Es and perform the following steps:



**CAUTION: Electrostatic sensitive device**

Wear a properly connected antistatic wrist strap when handling circuit cards. Handle cards by the edges only. Do not touch the contacts or components. Set the cards on a protective anti-static bag, whenever possible. If an antistatic bag is not available, hand hold the card, or set it in a card cage unseated from the connectors.



**CAUTION: Service interruption**

Do not install DMC8-Es into any slot except slots 9, 19, or 29.



**NOTE**

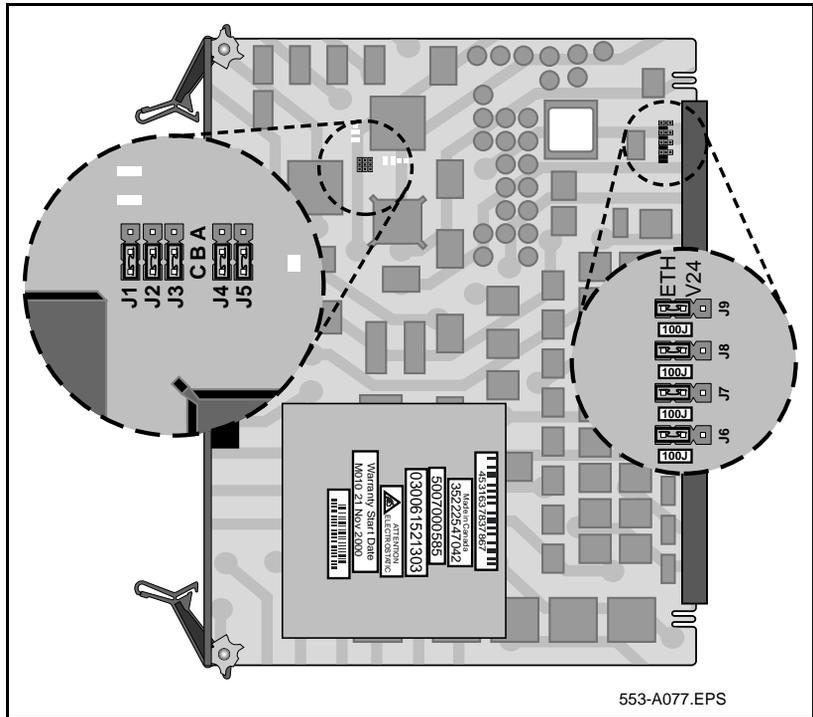
The DMCs must be adjacent to each other so the faceplate cables can be connected to the ports.



**NOTE**

See the Meridian Companion DECT NTP Overview [“System software parameters” on page 38](#) for DMC8 and DMC8-E X11 Release and software package compatibility.

Figure 15: DMC8/DMC8-E jumper details



See [page 50](#) for Option 51 to 81 card jumper settings.



**CAUTION: Service interruption**

Ensure that the DMC8/DMC8-E Relay card jumpers J6 to J9 are in the ETH position for operation on a dedicated LAN.

Ensure that the DMC8/DMC8-E Relay card jumpers J6 to J9 are in the V.24 position for operation on a serial connection to the OTM server.

**Table 19: Install DMC8-E in an Option 11 cabinet**

Step	Action
1	Install J1 jumper straps on the DMC8 and the DMC8-Es for Card ID.
	For pre Release 23 software strap A B. For post Release 23 software, and Multi-Site Mobility Networking, strap B C.
2	Install J2 jumper straps on the DMC8 and the DMC8-Es for system type.
	Strap B C for Option 11. (See <a href="#">page 50</a> for Option 51 to 81 settings.)
3	Install J3 jumper straps on the DMC8 and the DMC8-Es for shelf number.
	For the lower TN cabinet, strap B C. For the higher TN cabinet, strap A B.
4	Insert DMC8-E(s), if required.
	Place DMC8-E(s) in slot 9, slot 19 or slot 29. See examples in <a href="#">Figure 20</a> , <a href="#">Figure 21</a> , <a href="#">Figure 22</a> , and <a href="#">Figure 23</a> .
5	Install J6 to J9 jumper straps on the DMC8 and the DMC8-Es used as the Relay card for either V.24 connection or Ethernet connection.
	For the V.24 connection strap jumpers J6 to J9 to the V24 position. For the Ethernet connection strap jumpers J6 to J9 to the ETH position.
6	Insert DMC(s).
	Place DMC8s in the slots as indicated on your work order. Do not place DMC8s in slot 9, slot 19 or slot 29. See examples in <a href="#">Figure 20</a> , <a href="#">Figure 21</a> , <a href="#">Figure 22</a> , and <a href="#">Figure 23</a> .



Figure 16: Example of a full system housed in two IPE shelves

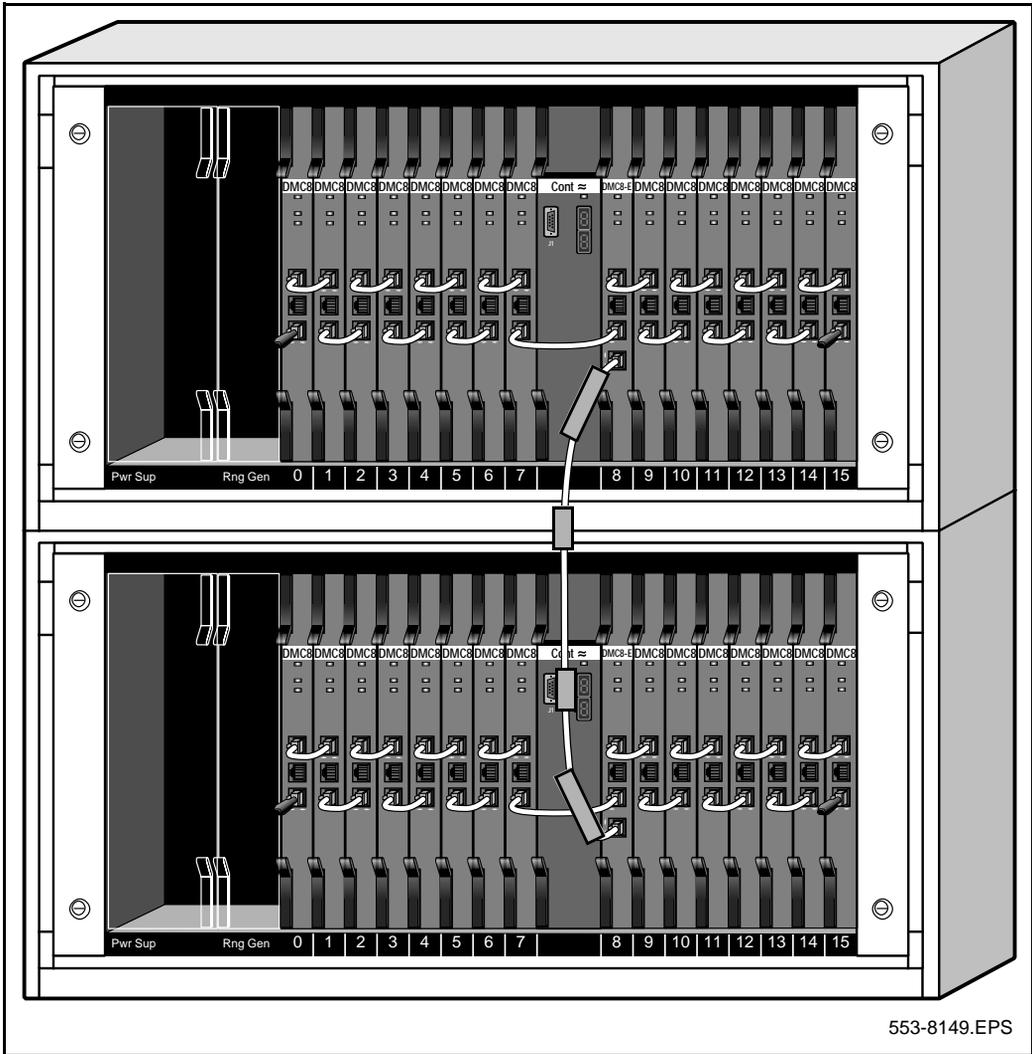
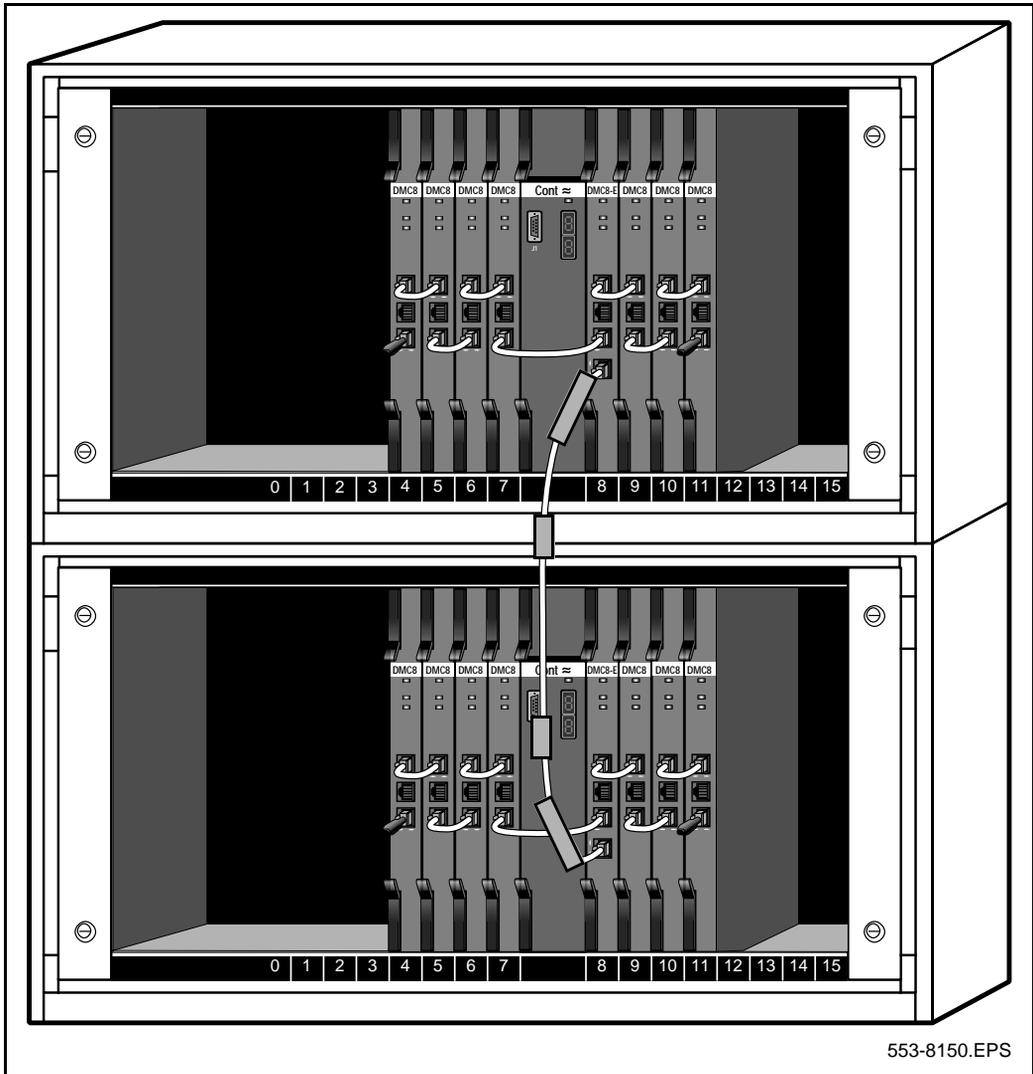
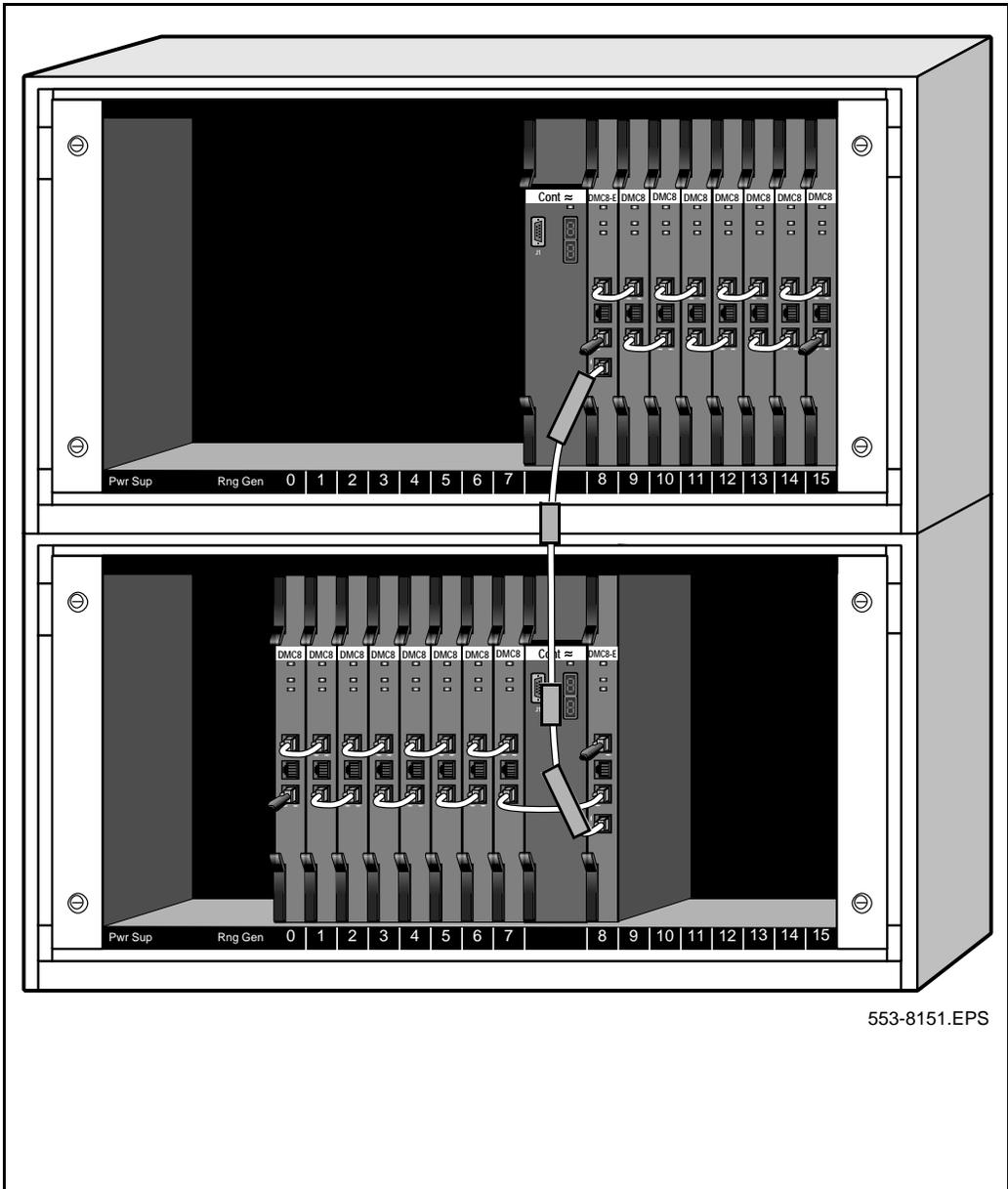


Figure 17: Example of a 16 card system housed in two IPE shelves



553-8150.EPS

Figure 18: Example of a 17 card system housed in two IPE shelves



553-8151.EPS

Figure 19: Example of an eight card system housed in one IPE shelf

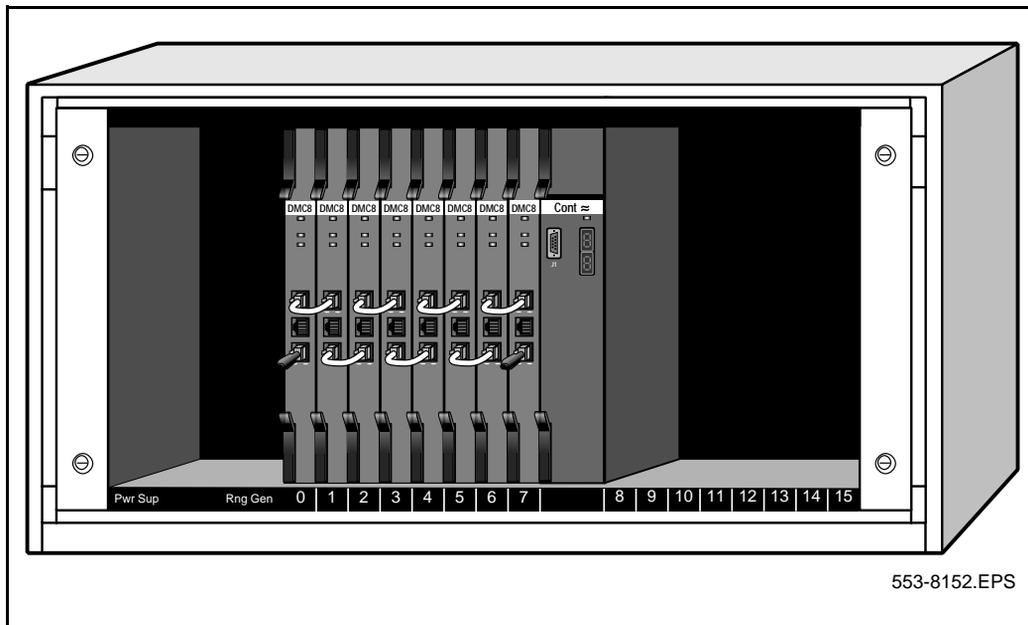


Figure 20: Example of a full Option 11 system not using a CPU cabinet

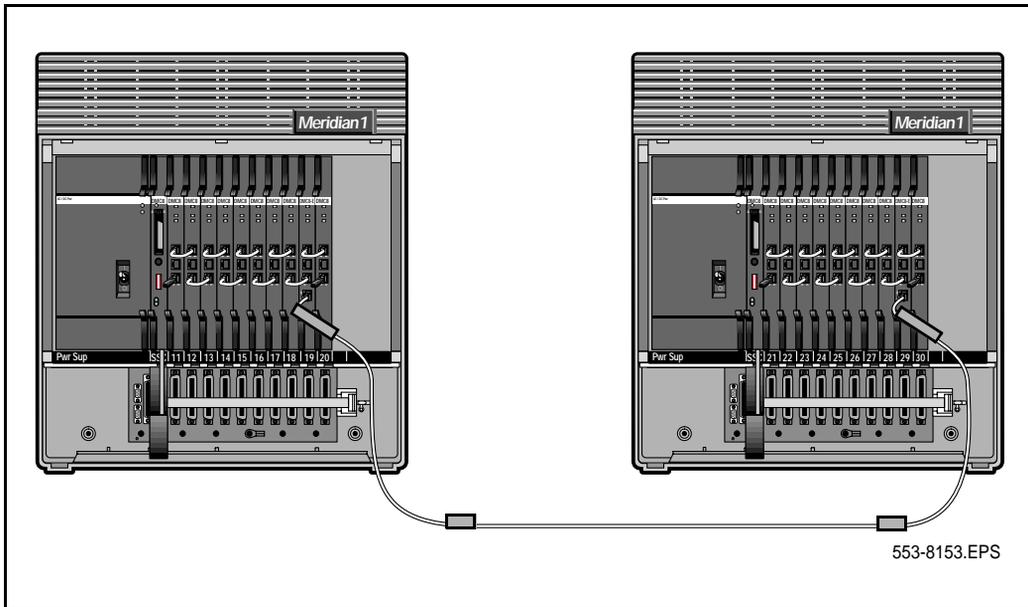


Figure 21: Example of a full Option 11 system using a CPU cabinet

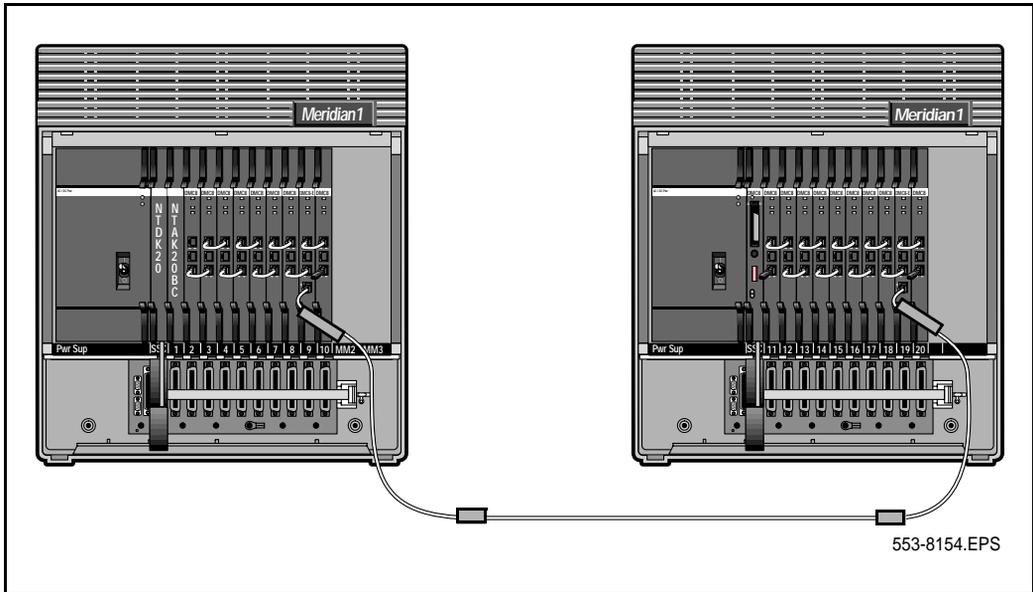


Figure 22: Example of an eight card system in two Opt 11 cabinets

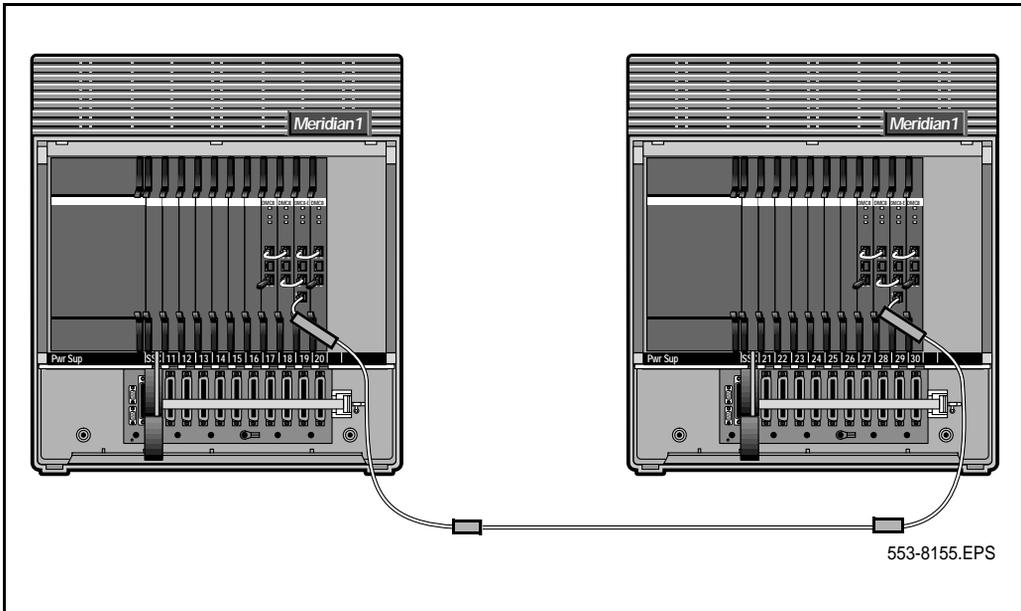
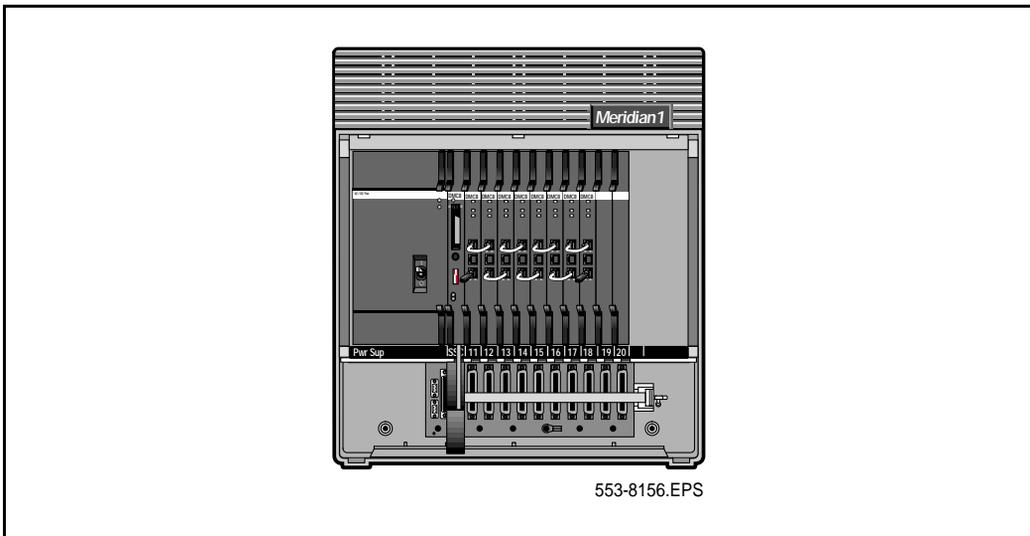


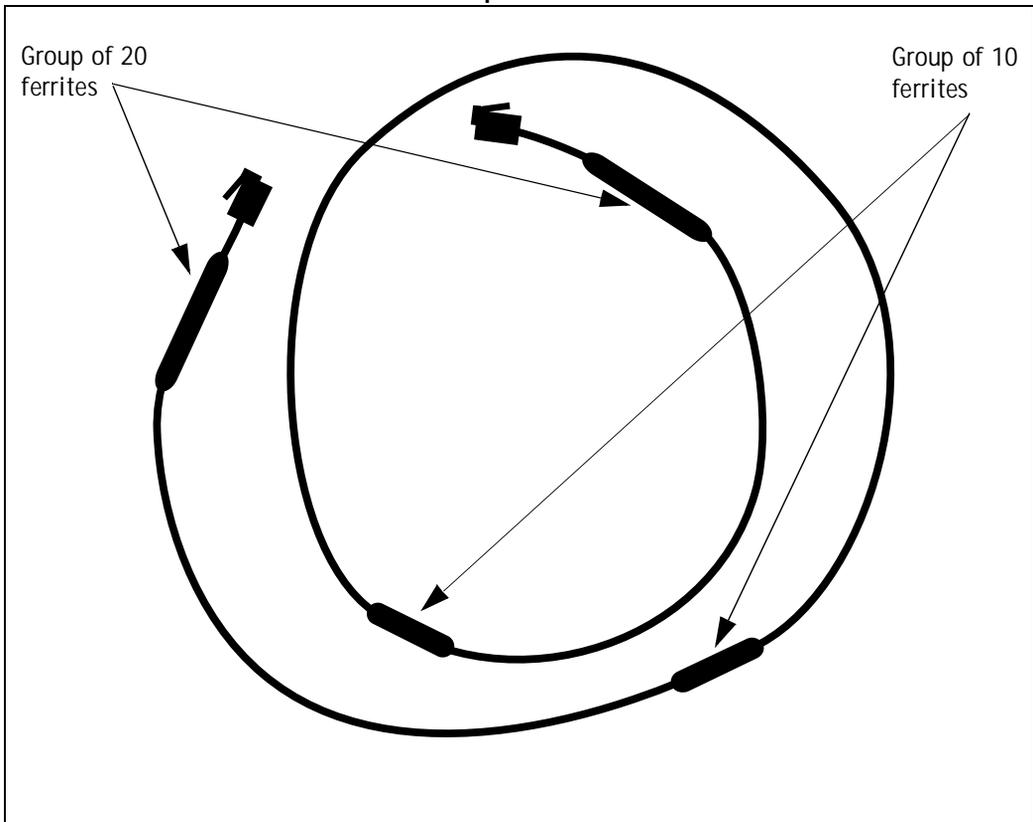
Figure 23: Example of an eight card system in one Opt 11 cabinet



## **Install faceplate cables and inter-shelf/cabinet cable**

Consult your work order to determine the position of the faceplate cable layout and NTCW11EA DMC8-E to DMC8-E inter-shelf cables and perform the following steps:

**Figure 24:**  
**NTCW11EA DMC8-E to DMC8-E faceplate cable**



**CAUTION: Service interruption**

The NTCW11EA DMC8-E to DMC8-E faceplate cable has four sets of movable ferrites. The position of the ferrites on the cable is important. See [Figure 24](#). Each end of the cable must have a group of 20 ferrites. One quarter of the distance from each end of the cable must have a group of 10 ferrites. The maximum length of the cable is 1.5 meters, limiting the position of DECT shelves 0 and 1 to adjacent IPE modules or Option 11 cabinets.

Consult your work order to determine the position of the terminator plugs and perform the following steps:

**Table 20: Install faceplate cables and inter-shelf/cabinet cable**

Step	Action
1	Connect the DMC8 to DMC8 faceplate cables.
	Arrange the NTCW11AA DMC8 to DMC8 cables so that the DMC8 to DMC8-E cable is connected into the ports shown in <a href="#">Figures 16 to 18</a> .
2	If required, connect the NTCW11BA DMC8 to DMC8-E cable on the IPE shelf. Not required on Option 11.
	Plug the cable into the lower port of the DMC8 in slot 7. Plug the other end of the cable into the arrow pointing left port of the DMC8-E in slot 8. See <a href="#">Figure 16</a> , <a href="#">Figure 17</a> , and <a href="#">Figure 18</a> .
3	Connect the NTCW11EA DMC8-E to DMC8-E inter-IPE shelf or inter-cabinet cable, if required.
	Plug the DMC8-E to DMC8-E cable into each DMC8-E lower port.
	

---

## Install OTM DECT application

---

This chapter contains the following topics:

Ensure the DECT application is on the OTM server . . . . .	65
Ensure a communications profile is associated with the DECT application . . . . .	67
Add a communications profile for the DECT application . . . . .	69
Add an Ethernet profile . . . . .	71

### NOTE

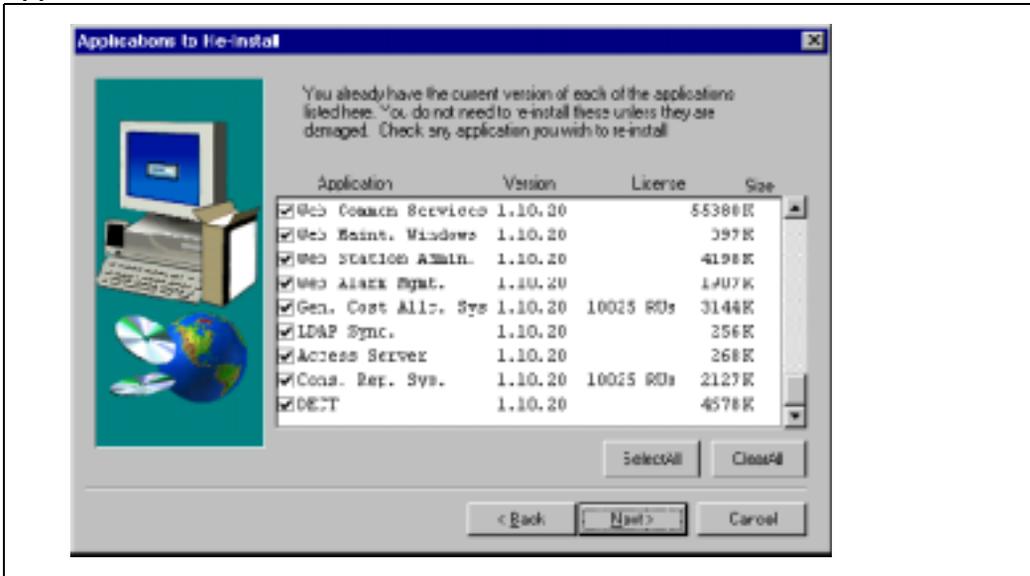


This Installation Guide assumes that an OTM server is installed on your Meridian 1 PBX or Option 11 PBX.

If the OTM is not installed, follow the instructions in the *Installing and Configuring Optivity Telephony Manager for Meridian 1 (553-3001-230) NTP*

## Ensure the DECT application is on the OTM server

**Figure 25:**  
**Applications to Re-install**



Complete the following steps:

**Ensure the DECT application is on the OTM server**

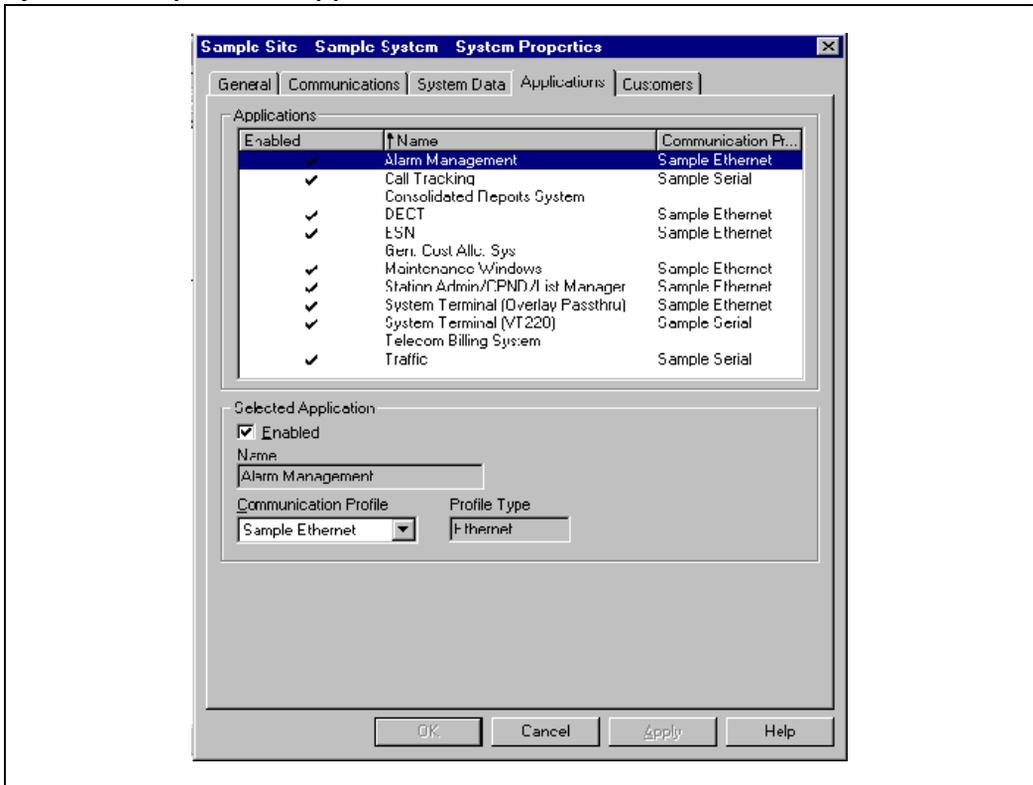
Step	Action
1	If there is a check in the DECT box in the Applications to Re-install dialog. Go to <a href="#">"Configure the MDECT system on the OTM server"</a> on page 73.
2	If there is no check in the DECT box in the Applications to Re-install dialog. <b>Note:</b> Installation is like any other application. Select the check-box and click on the <b>Next</b> button.



## Ensure a communications profile is associated with the DECT application

The DECT application must be associated with a communication profile.

**Figure 26:**  
**Systems Properties - Applications**



The following describes the **OK**, **Cancel**, and **Apply** button actions:

- **OK** adds the changes you have made and returns to the previous screen.
- **Apply** adds the changes and leaves the properties open so that you can add other information to this properties dialog.
- **Cancel** closes the dialog box without adding the changes.

Complete the following steps:

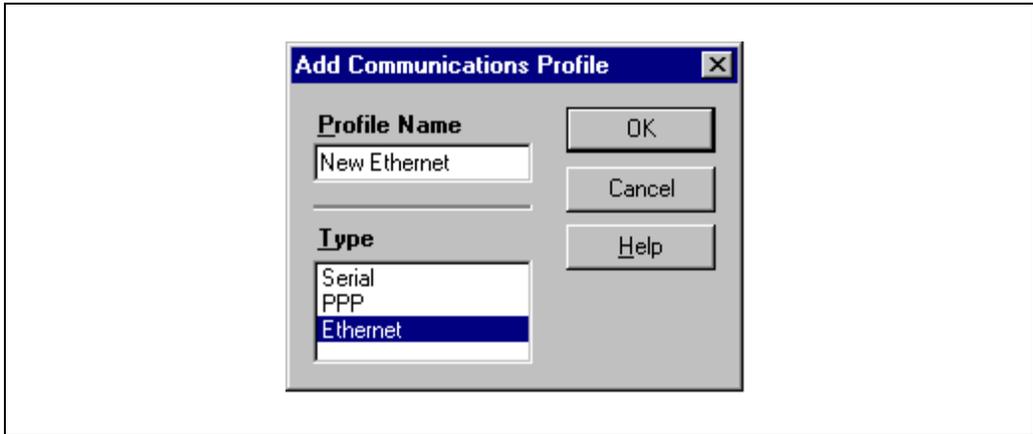
**Table 21: Ensure a Communications Profile is associated with the DECT application**

Step	Action
1	Open the Systems Properties sheet.
	Choose <b>Properties</b> from the OTM Navigator window <b>File</b> menu.
2	Select the Applications tab.
	Click on the <b>Applications</b> tab.
3	If there is a check in the Enabled column next to DECT in the Name column.
	Go to <a href="#">"Configure the MDECT system on the OTM server" on page 73.</a>
4	If there is no check in the Enabled column next to DECT in the Name column.
	Highlight <b>DECT</b> in the name column.
5	Select a Communication Profile.
	Choose any entry from the <b>Communication Profile</b> drop-down list. <b>Note:</b> If there are no entries in the Communication Profile drop-down list, go to <a href="#">"Add a communications profile for the DECT application" on page 69.</a>
6	Accept the changes.
	Click the <b>OK</b> button.



## Add a communications profile for the DECT application

Figure 27:  
Add Communications Profile



Complete the following steps:

Table 22: Add new Meridian 1 PBX communications profile

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 Add Communications Profile dialog.
	Click on the <b>Communications</b> tab and click <b>Add</b> .
4	Select a communications type.

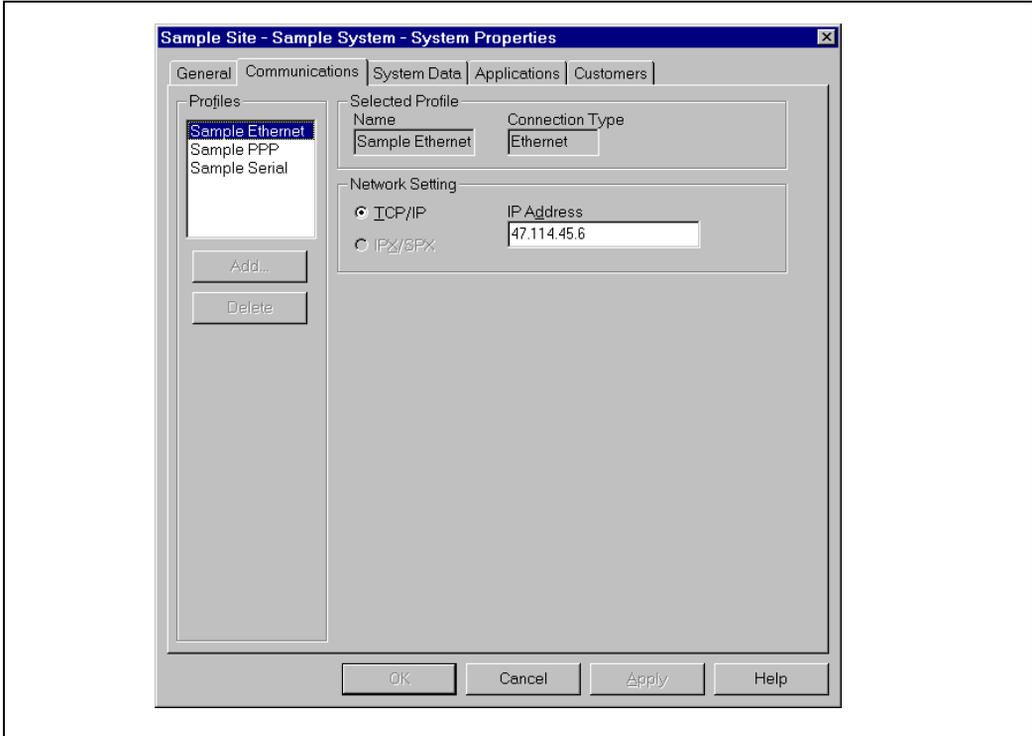
**Table 22: Add new Meridian 1 PBX communications profile**

Step	Action
	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.
5	Program the Profile Name.
	Enter a <b>Profile Name</b> .
6	Accept the changes.
	Click <b>OK</b> .



## Add an Ethernet profile

**Figure 28:**  
**System Properties - Communications**



Complete the following steps:

**Table 23: Add your Meridian 1 PBX Ethernet profile**

Step	Action
1	Fill in the communications information for the <b>Ethernet</b> profile.
	Enter any IP address. <b>Note:</b> Unless there is another application that requires a specific IP address, enter a non-existing address.
2	Accept changes.
	Click <b>Apply</b> .
3	Return to configuring a communications profile.
	Go to <a href="#">“Ensure a communications profile is associated with the DECT application” on page 67</a> .



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# Configure the MDECT system on the OTM server

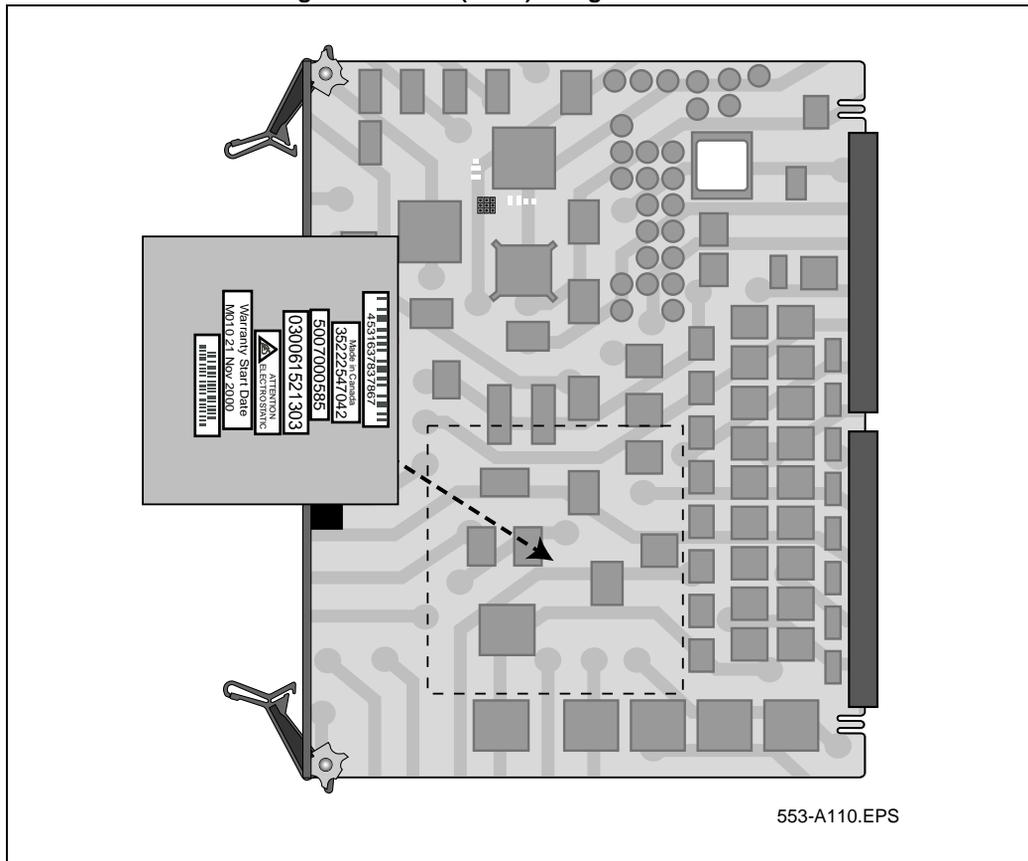
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This chapter contains the following topics:

Install the DME on the DMC8 relay card . . . . .	74
Change the DMC8 Relay card default IP address . . . . .	76
Connect the DMC8 Relay card to a configuring PC . . . . .	76
Reset the DMC8 Relay card default IP address to your LAN IP address . . . . .	78
Connect the DMC8 Relay to the OTM server . . . . .	80
Launch the DECT application . . . . .	82
Add your MDECT system . . . . .	83
Add General System Properties . . . . .	83
Set the MDECT system IP address to match the DMC8 Relay card . . . . .	85
Add the upstream manager IP address, if required . . . . .	87
Synchronize data with the MDECT system . . . . .	89
Synchronize DECT PARI and SARI . . . . .	91
Synchronize DECT Parameters . . . . .	92
Synchronize DECT Upstream Manager IP Address . . . . .	93

## Install the DME on the DMC8 relay card

**Figure 29:**  
NTCW25AA DECT Manager Ethernet (DME) daughterboard location



**Table 24: Install the DME on the DMC8 relay card**

Step	Action
1	Unpack the NTCW25AA DECT Manager Ethernet (DME) daughterboard.
	Remove the packing material.
2	Install the DME.
	Carefully position the daughterboard over the four standoff posts and press onto the DMC8 relay card.
	

# Change the DMC8 Relay card default IP address

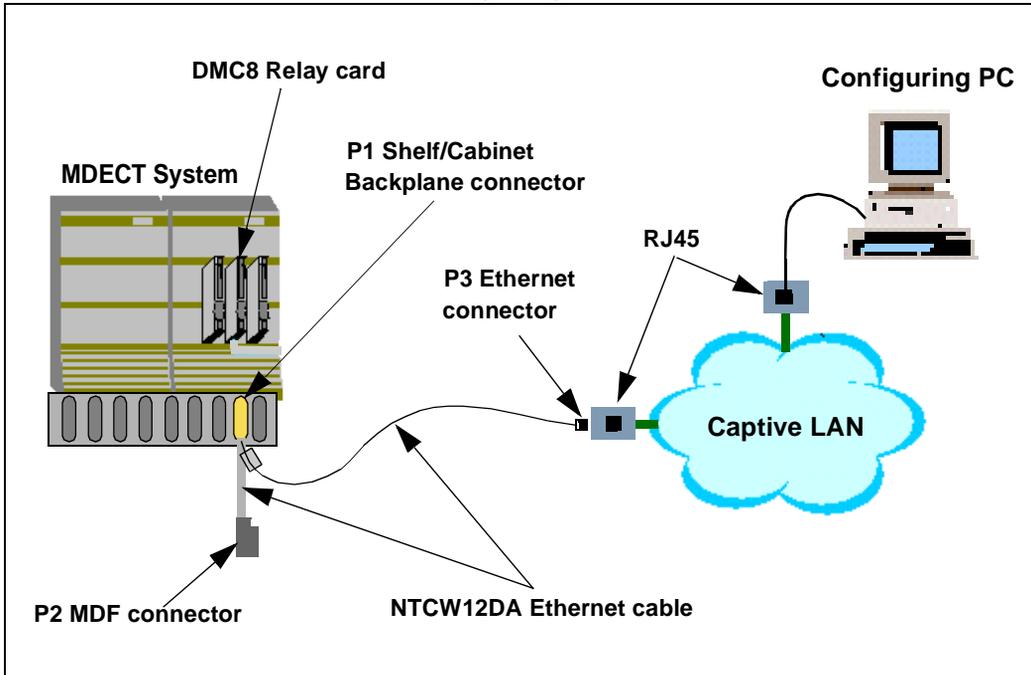
Connect the DMC8 Relay card to a configuring PC



**CAUTION:** Service interruption

The DMC8 is shipped with a default IP address 192.168.1.1. You must change the default address to conform to your network IP address plan.

**Figure 30:**  
NTCW12DA Ethernet cable to Configuring PC connections





**NOTE**

The configuring PC can be the OTM server or another PC.

If your configuring PC is the OTM server, the Captive LAN shown in [Figure 30](#) will be the OTM Server Dedicated LAN shown in [Figure 32 on page 80](#).

Consult your work order to determine the DMC8 Relay card location and perform the following steps:

**Table 25: Connect the DMC8 relay card to a configuring PC**

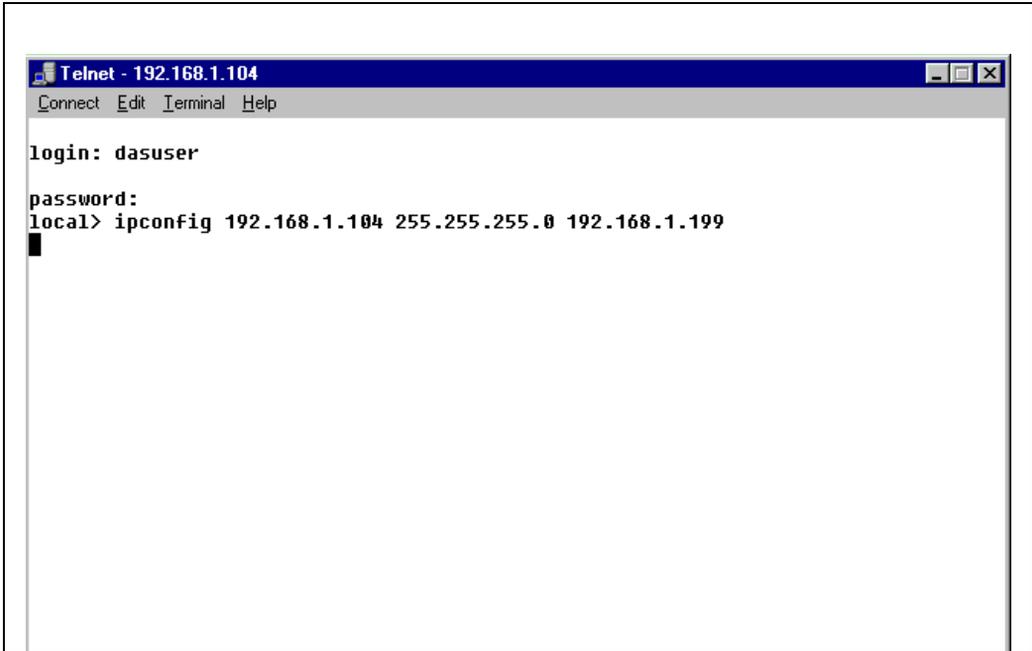
Step	Action
1	Connect the NTCW12DA cable to the DMC8 Relay card.
	Insert P1 into the DMC8 Relay card backplane connector located on the Meridian 1 PBX shelf/module or the Option 11 cabinet.
2	If your Configuring PC is on a Captive LAN, link the DMC8 Relay card to your Configuring PC.
	Insert P3 into the captive LAN RJ45 connector.
3	If your Configuring PC is on the OTM server dedicated LAN.
	Insert P3 into the OTM server dedicated LAN RJ45 connector. See <a href="#">“Connect the DMC8 Relay to the OTM server” on page 80</a> .



## Reset the DMC8 Relay card default IP address to your LAN IP address

You must change the Relay DMC8 default IP address 192.168.1.1 to conform to your server network IP address plan.

Figure 31:  
Telnet 192.168.1.1



Complete the following steps:

Table 26: Reset the Relay DMC8 default IP address to your LAN IP address

Step	Action
1	Open the Telnet dialog.
	Click on Start>Accessories>Telnet.

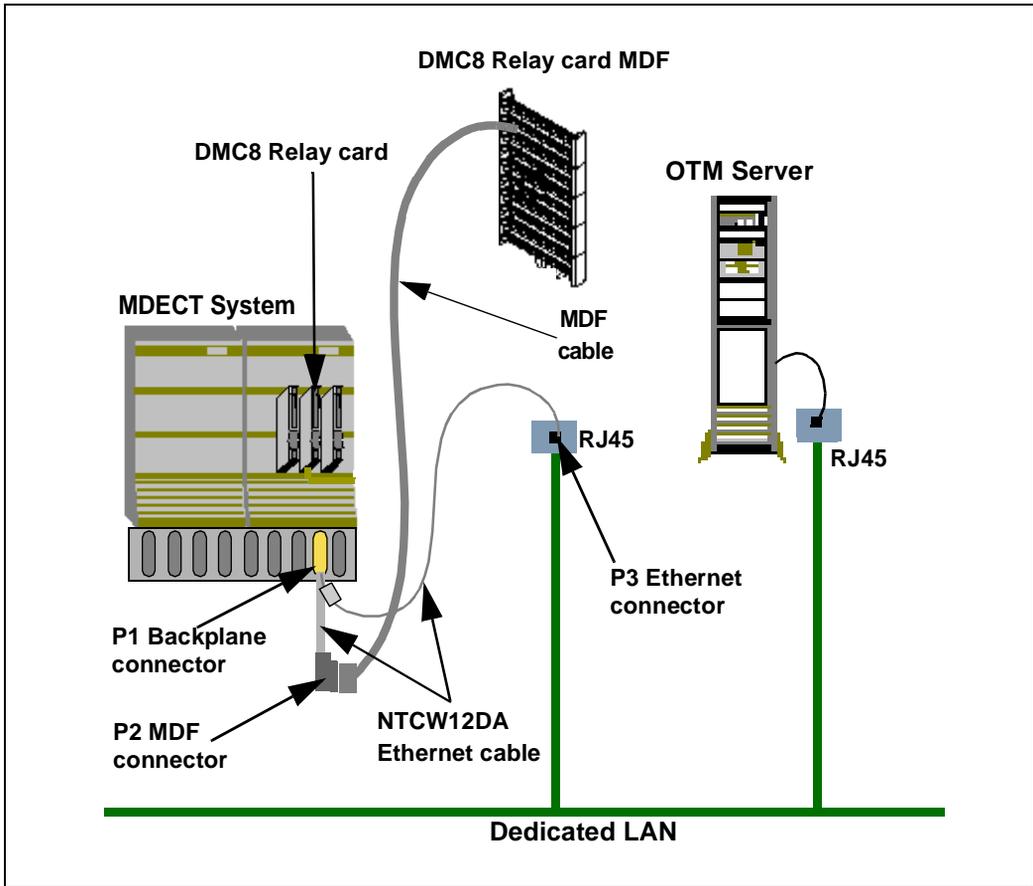
**Table 26: Reset the Relay DMC8 default IP address to your LAN IP address**

Step	Action
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 Relay DMC8 card address.
	Enter the following command: <b>ipconfig xxx.xxx.xxx.xxx yyy.yyy.yyy.yyy zzz.zzz.zzz.zzz</b> <b>xxx.xxx.xxx.xxx</b> = new IP address of the Relay DMC8 card. <b>yyy.yyy.yyy.yyy</b> = subnet mask, usually <b>255.255.255.0</b> <b>zzz.zzz.zzz.zzz</b> = IP address if this is the gateway for your network. <b>Note:</b> <b>zzz.zzz.zzz.zzz</b> should be set to the IP address of the OTM server Ethernet interface. If you have two Ethernet interfaces on the OTM server, <b>zzz.zzz.zzz.zzz</b> should be set to the IP address of the interface which is on the same network as the DMC8 Relay card.



## Connect the DMC8 Relay to the OTM server

Figure 32:  
NTCW12DA Ethernet cable to OTM Server LAN connections



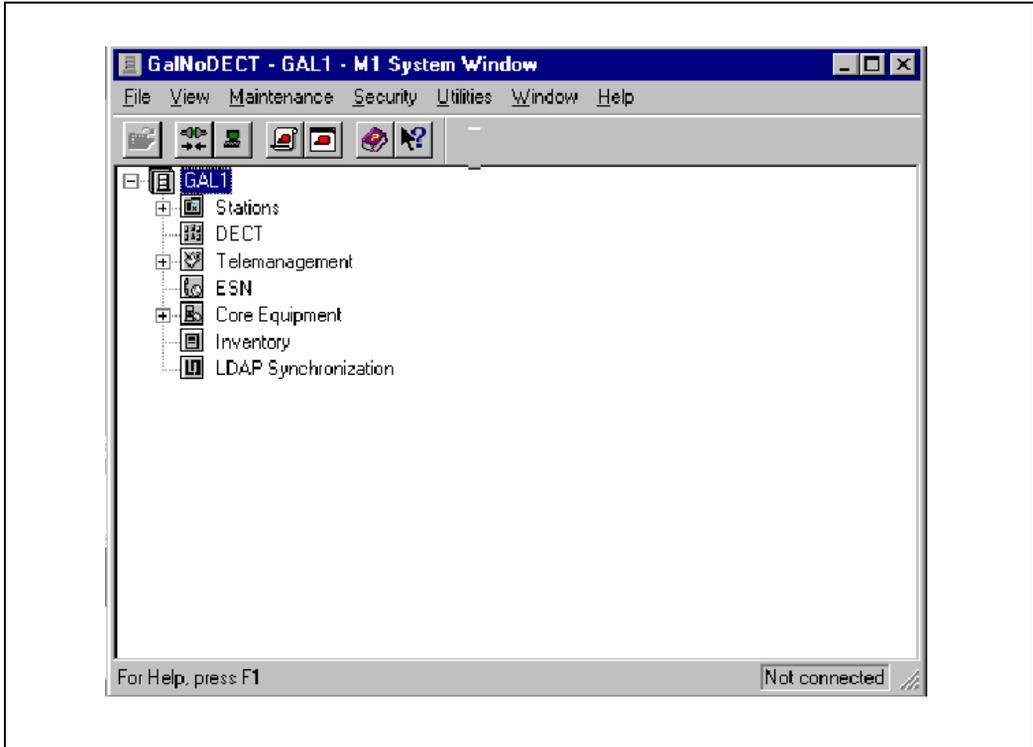
Complete the following steps:

**Table 27: Connect the DMC8 relay card to a Captive LAN**

Step	Action
1	If your DMC8 was configured on a captive LAN, remove the NTCW12DA Ethernet cable from the captive LAN.
	Disconnect P3 from the captive LAN RJ45 connector.
2	Connect the NTCW12DA cable to the OTM Server Dedicated LAN.
	Insert P3 into the Dedicated LAN RJ45 connector.
	

## Launch the DECT application

Figure 33:  
M1 System Window



Complete the following steps:

Table 28: Launch the DECT application

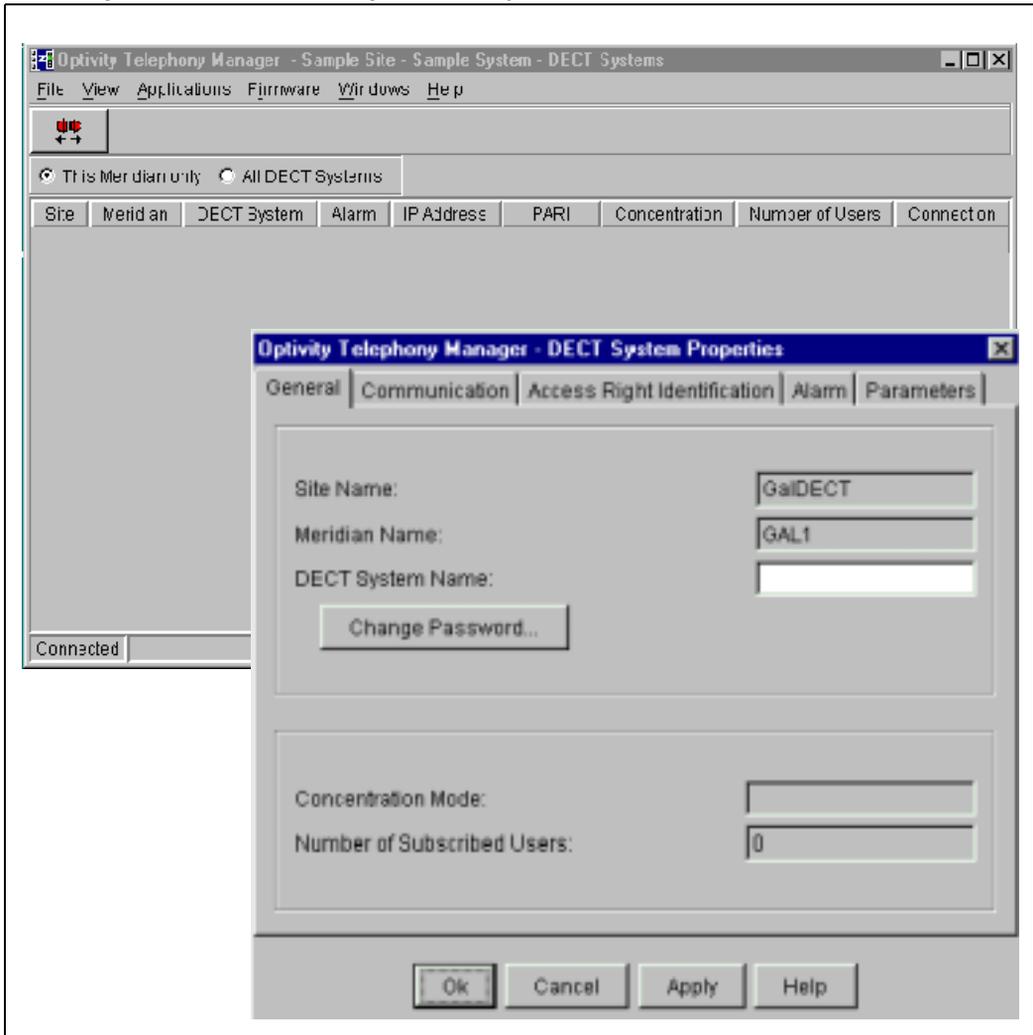
Step	Action
1	Launch the DECT application. Double click on the DECT icon.



# Add your MDECT system

## Add General System Properties

**Figure 34:**  
**DECT Systems and DECT System Properties**



Complete the following steps:

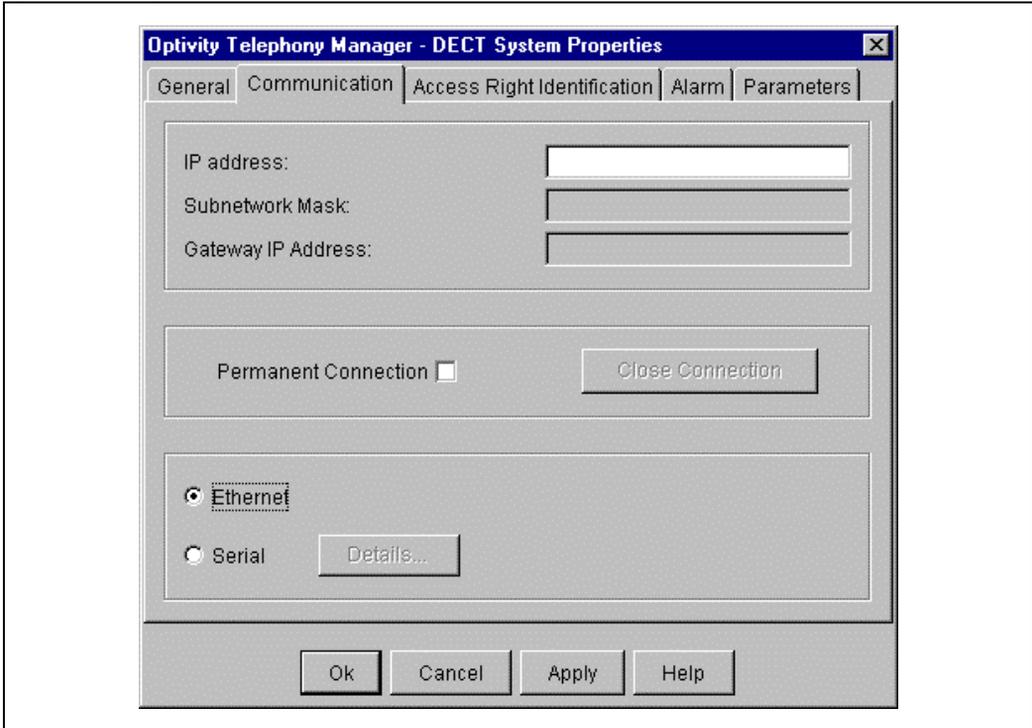
**Table 29: Add your MDECT system**

<b>Step</b>	<b>Action</b>
<b>1</b>	Open the DECT System Properties dialog.
	Pull down <b>File&gt;Properties</b> .
<b>2</b>	Enter the MDECT system name.
	Type your system name in the <b>DECT System Name</b> box.
	Accept the changes.
	Click on the <b>Apply</b> button.



## Set the MDECT system IP address to match the DMC8 Relay card

Figure 35:  
System Properties - Communication



Complete the following steps:

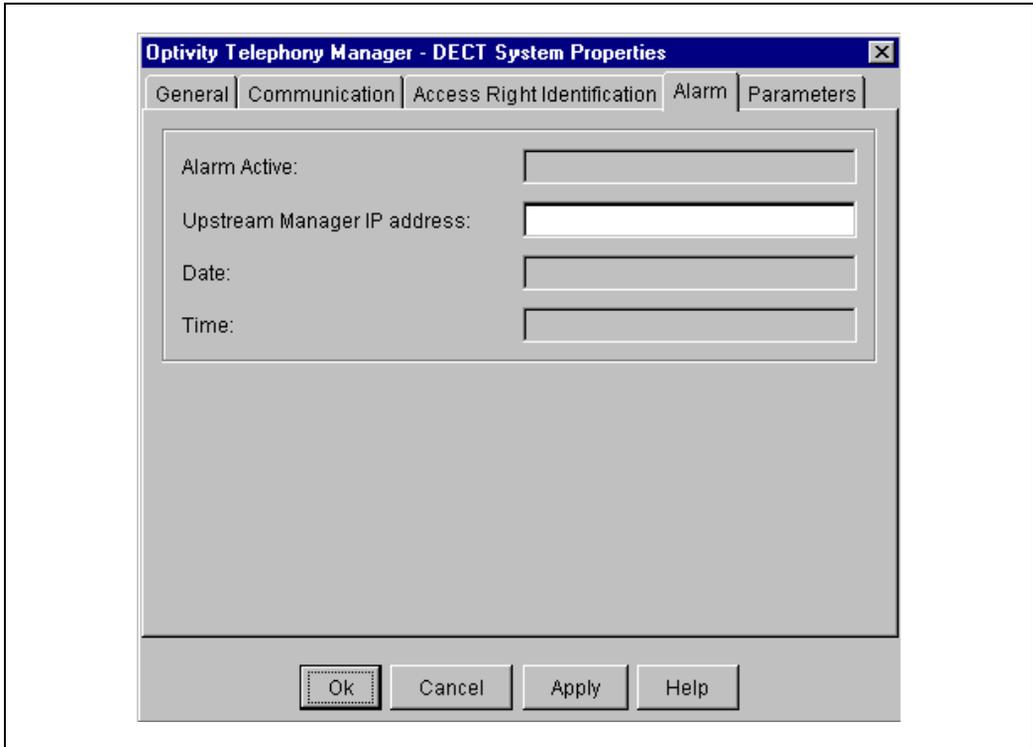
**Table 30: Set your IP address of the DMC8 Relay card in the manager**

Step	Action
1	Open the Communications dialog.
	Click on the <b>Communications</b> tab.
2	Enter the IP address.
	Type the IP address you entered in <a href="#">Table 26 on page 78</a> .
3	If your communication link is Ethernet, select <b>Ethernet</b> .
	Click on the <b>Ethernet</b> radio button.
4	If your communication link is Serial, select <b>Serial</b> .
	Click on <b>Serial</b> radio button, and go to <a href="#">"Add a V.24 serial connection" on page 139</a> .
5	Accept the changes.
	Click on the <b>OK</b> button. <b>Note:</b> When you click the OK button or Apply button at this point, the manager attempts to connect to the MDECT system to write the MIB2 system name.
6	If required, program an Upstream Manager.
	Go to <a href="#">page 87</a> .
7	If you do not require an Upstream Manager.
	Go to <a href="#">page 89</a> .



## Add the upstream manager IP address, if required

**Figure 36:**  
**System Properties - Alarm**



Complete the following steps:

**Table 31: Add the upstream IP address, if required**

Step	Action
1	Open the DECT System Properties dialog.
	Pull down <b>File&gt;Add</b> .
2	Open the Alarm dialog.

**Table 31: Add the upstream IP address, if required**

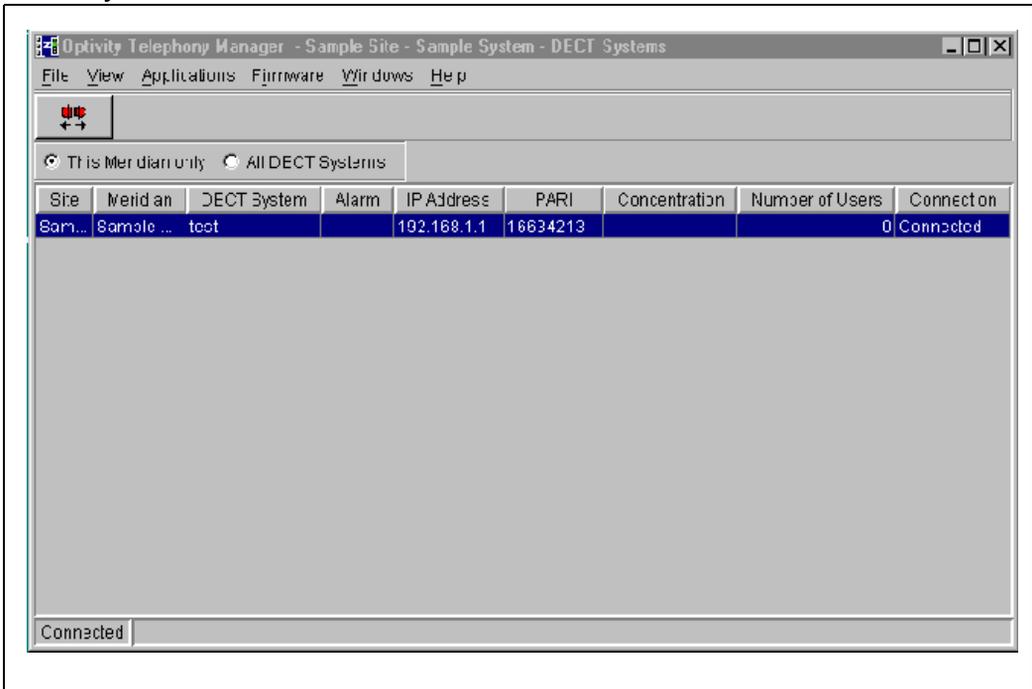
Step	Action
	Click on the <b>Alarm</b> tab.
3	Enter the IP address.
	Type your Upstream manager IP address.
4	Accept the changes.
	Click on the <b>OK</b> button.



## Synchronize data with the 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.

**Figure 37:**  
**DECT Systems**



Complete the following steps:

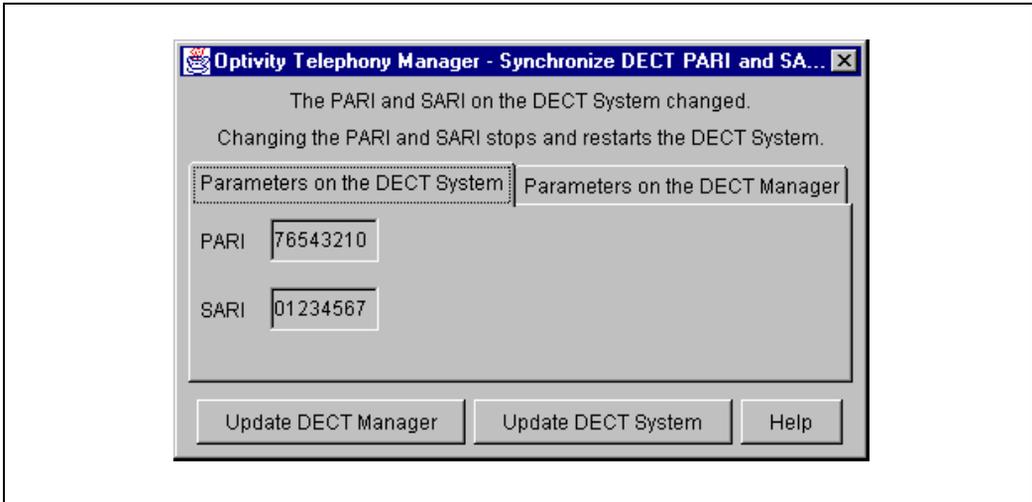
**Table 32: Synchronize data with the MDECT system**

<b>Step</b>	<b>Action</b>
<b>1</b>	If the toolbar icon is <b>red</b> your already connected to the MDECT system. Disconnect from the MDECT system.
	Double click on the icon, or use <b>File&gt;Disconnect</b> . Go to step 3.
<b>2</b>	If the toolbar icon is <b>green</b> .
	Go to the next step.
<b>3</b>	Re-connect to the MDECT system.
	Double click on the red icon, or use <b>File&gt;Connect</b> .



## Synchronize DECT PARI and SARI

**Figure 38:**  
**Synchronize DECT PARI and SARI Mismatch dialog**



Complete the following steps:

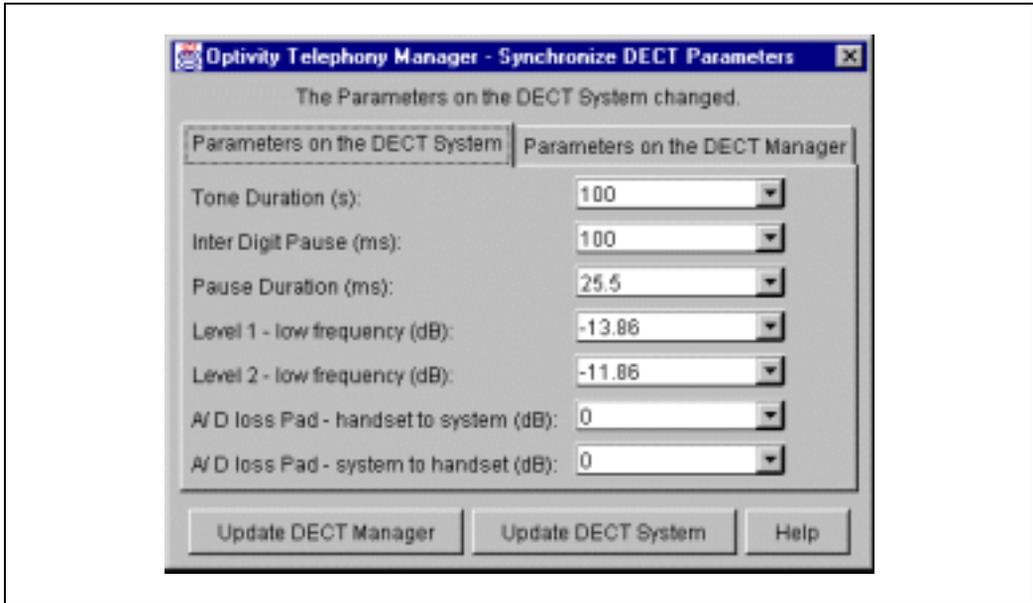
**Table 33: Synchronize DECT PARI and SARI**

Step	Action
1	Store the MDECT system PARI SARI parameters in the OTM Manager database.
	Click on the <b>Update DECT Manager</b> button.



## Synchronize DECT Parameters

Figure 39:  
Synchronize DECT Parameters Mismatch dialog



Complete the following steps:

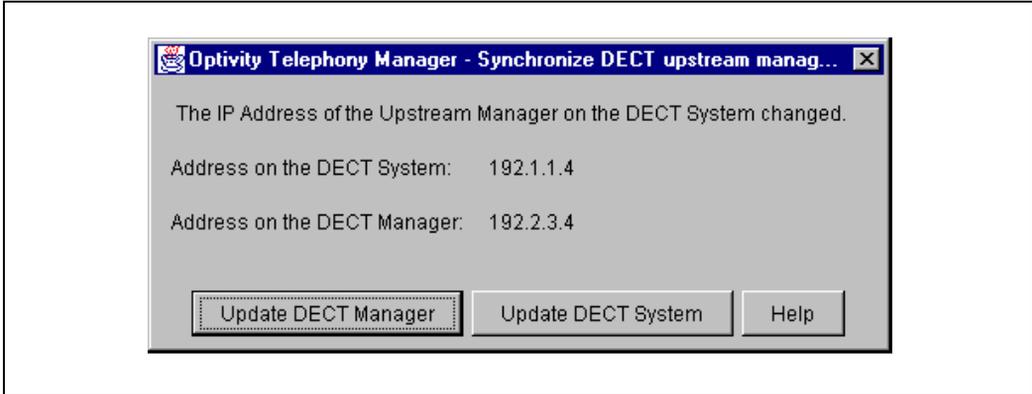
Table 34: Synchronize DECT Parameters

Step	Action
1	Store the MDECT system DECT parameters in the OTM Manager database.
	Click on the <b>Update DECT Manager</b> button.



## Synchronize DECT Upstream Manager IP Address

**Figure 40:**  
Synchronize DECT upstream manager IP address mismatch dialog



Complete the following steps:

**Table 35: Synchronize DECT Upstream Manager IP Address**

Step	Action
1	Store the MDECT system upstream manager IP address in the OTM Manager database.
	Click on the <b>Update DECT Manager</b> button.





---

## Configure handsets and retrieve subscription data

---

This chapter contains the following topics:

Configure non-concentrated handsets on a Meridian 1 PBX . . . . .	96
Open Station Administration window . . . . .	96
Access Add Station dialog . . . . .	97
Add 500 analog standard . . . . .	98
Access features . . . . .	99
Access wireless type . . . . .	100
Select wireless type . . . . .	101
Select DECT wireless set . . . . .	102
Accept changes . . . . .	103
Configure concentrated handsets on a Meridian 1 PBX . . . . .	104
Open Station Administration window . . . . .	104
Access Add Station dialog . . . . .	105
Select Digital Cordless Set . . . . .	106
Select Features . . . . .	107
Select wireless type . . . . .	108
Select Visit or local . . . . .	109
Select an index . . . . .	110
Provision hardware . . . . .	111
Accept changes . . . . .	112
Single line features . . . . .	113
Retrieve subscription data for handsets . . . . .	115
Enable subscription . . . . .	117
Activate the PIN on the handsets . . . . .	118

# Configure non-concentrated handsets on a Meridian 1 PBX

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

## Open Station Administration window

Figure 41:  
M1 System Window

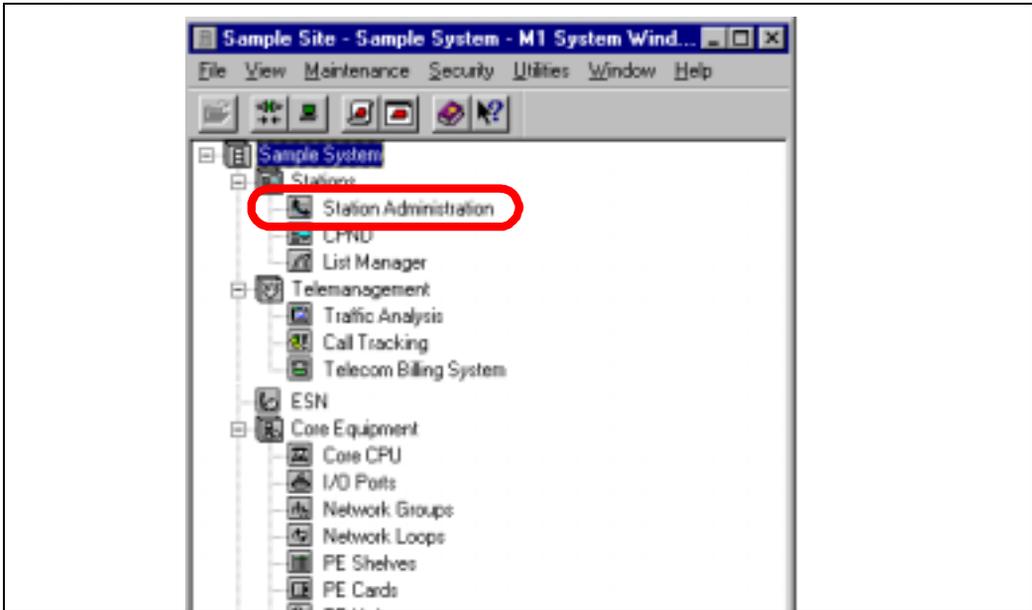


Table 36: Station Administration window

Step	Action
1	Open the Station Administration window.
	Click on <b>Station Administration</b> in the M1 System Window.



## Access Add Station dialog

Figure 42:  
Station Administration window

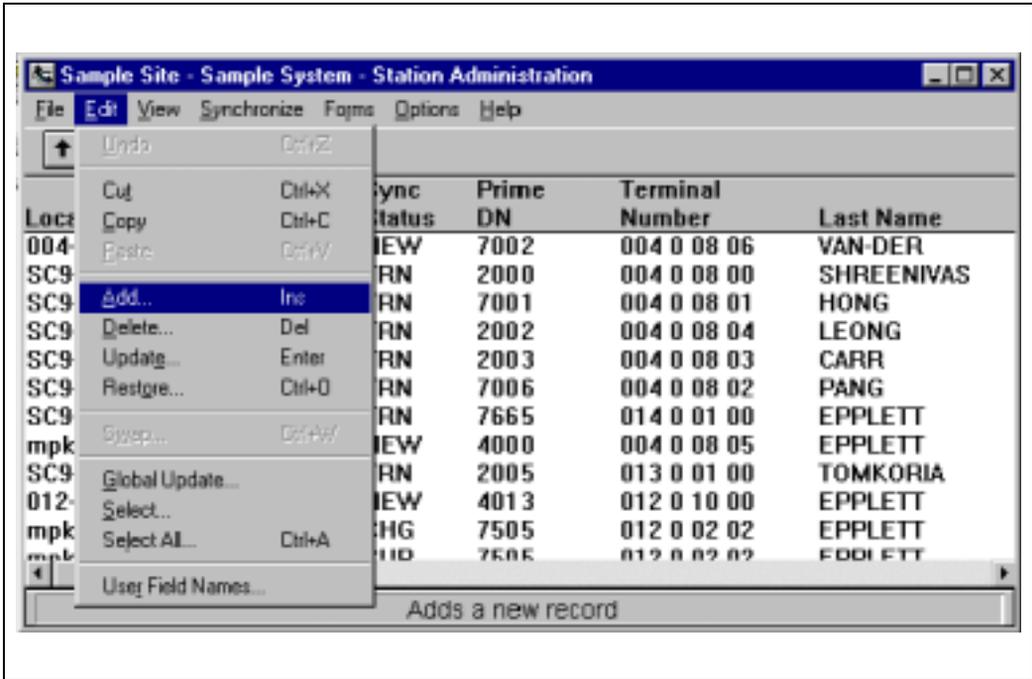


Table 37: Access Add Station dialog

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



## Add 500 analog standard

Figure 43:  
Add Station dialog

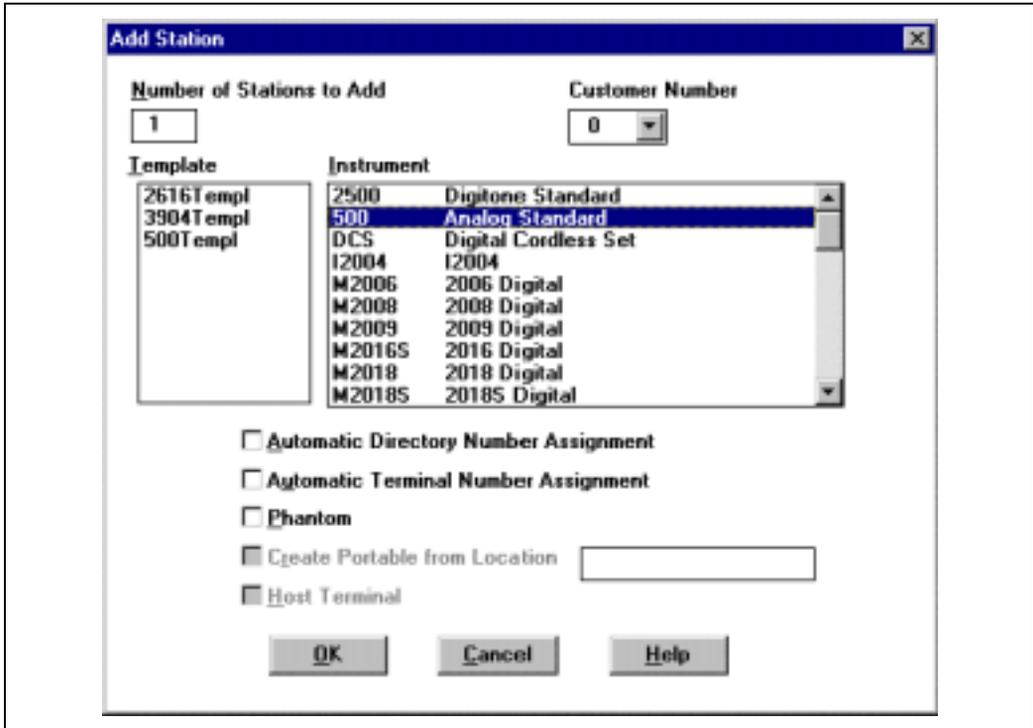


Table 38: Add 500 analog standard

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



## Access features

Figure 44:  
500 dialog

Figure 45: Access features

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



## Access wireless type

Figure 46:  
Features dialog

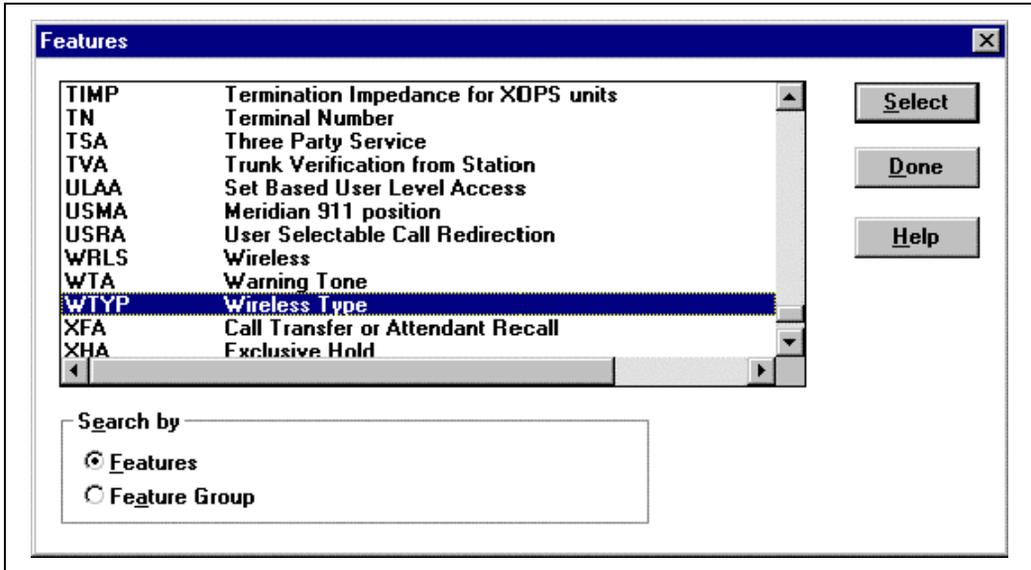


Table 39: Access wireless type

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



## Select wireless type

Figure 47:  
Wireless dialog

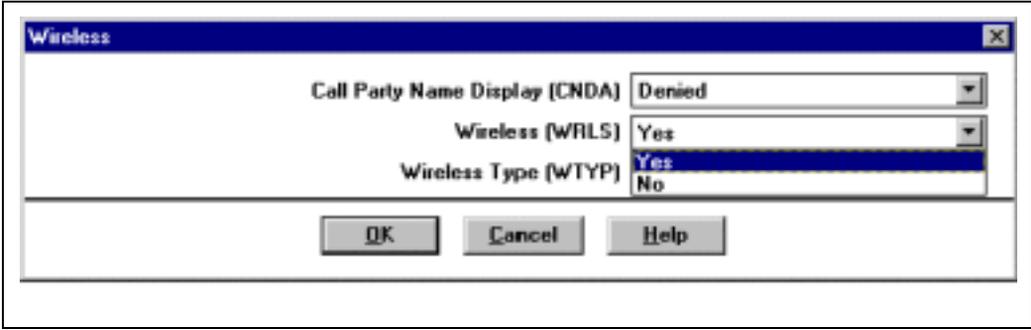


Table 40: Select wireless type

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 48:  
Wireless dialog

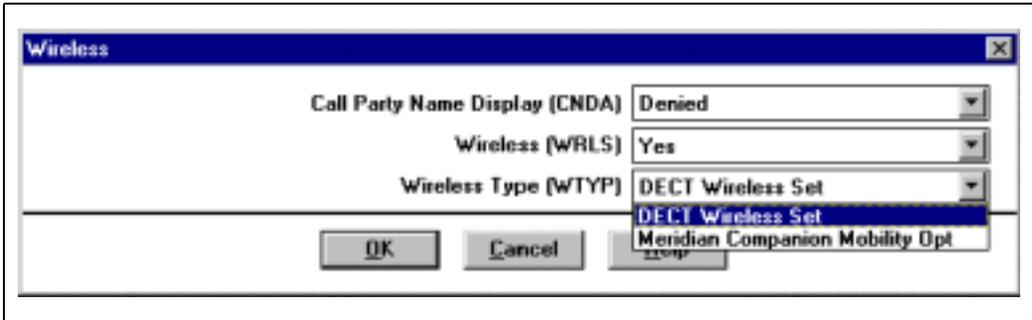


Table 41: Select DECT wireless set

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 49:  
Features dialog

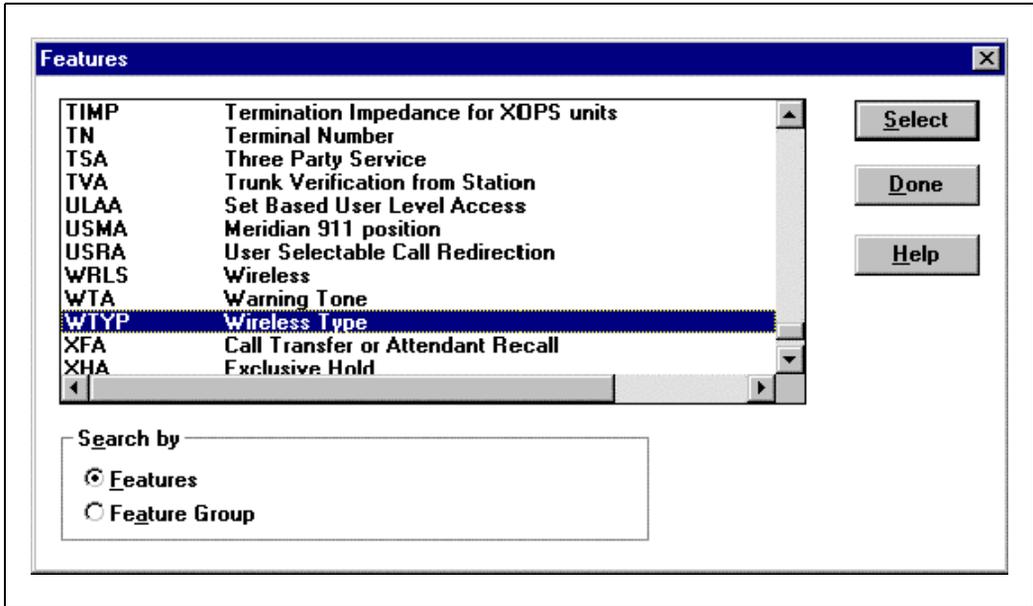


Table 42: Accept changes

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 50:  
M1 System Window

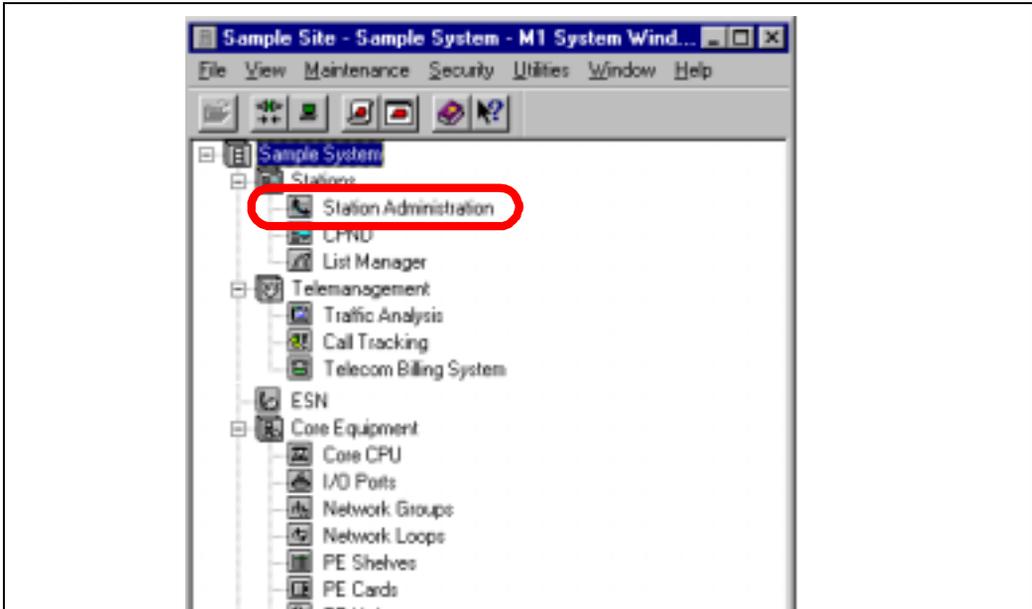


Table 43: Station Administration window

Step	Action
1	Open the Station Administration window.
	Click on <b>Station Administration</b> in the M1 System Window.



## Access Add Station dialog

Figure 51:  
Station Administration window

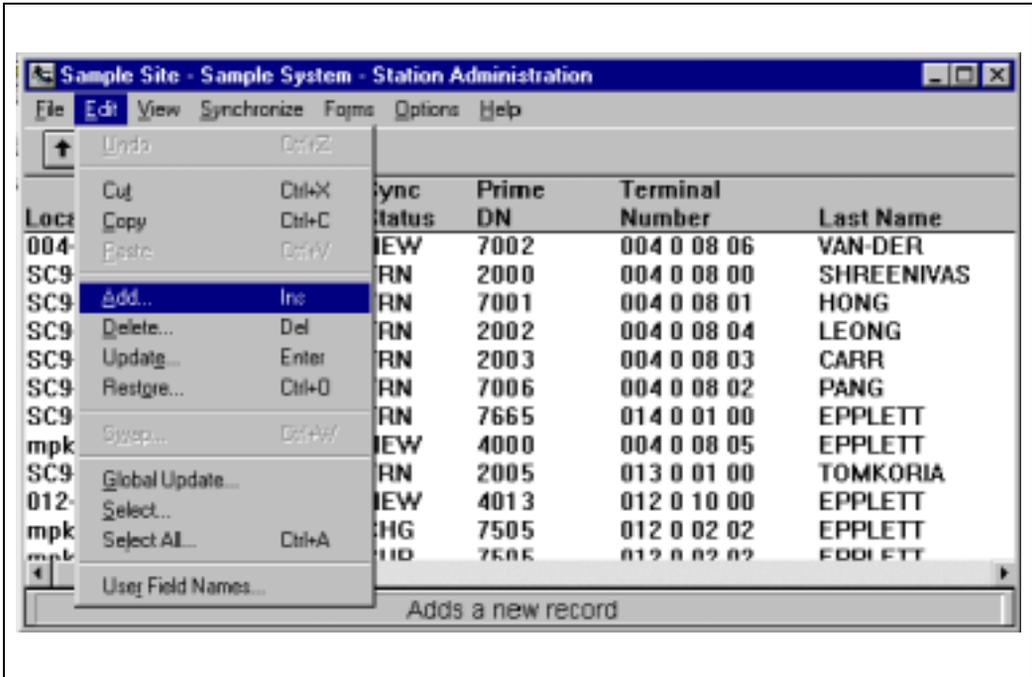


Table 44: Access Add Station dialog

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 52:  
Add Station dialog

Table 45: 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 53:  
DCS dialog

Table 46: Select Features

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



## Select wireless type

Figure 54:  
Features dialog

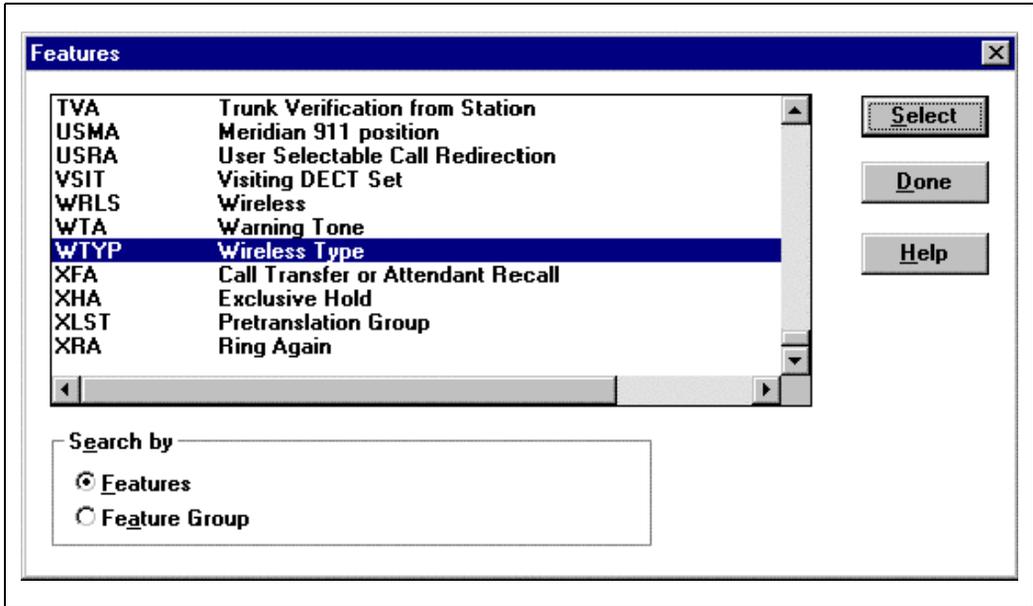


Table 47: Select wireless type

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



## Select Visit or local

Figure 55:  
Wireless dialog

Table 48: Select Visit or local

Step	Action
1	Select Visit if this handset is to visit this Meridian 1 PBX. Select local if this handset is configured on this Meridian 1 PBX.
	If Visit, go to step 2. If local, go to step 4.
2	Select visit.
	From the <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.
4	Select local.
	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 56:  
Features dialog

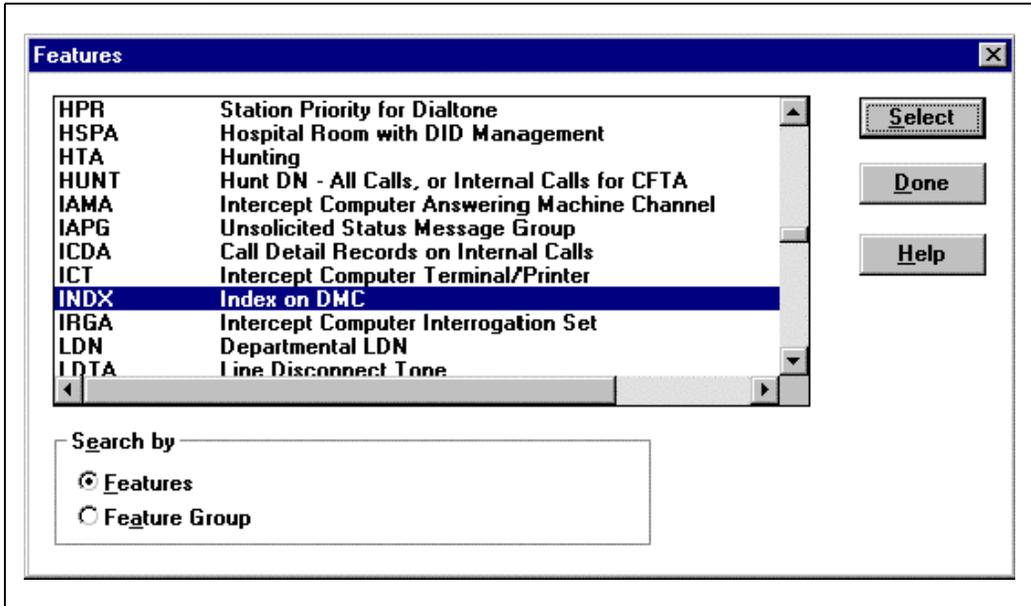


Table 49: Select an index

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



## Provision hardware

**Figure 57:**  
Hardware Provisioning dialog

**Table 50: Provision hardware**

Step	Action
1	Select a DMC TN. Enter a TN in the <b>DECT Mobility Controller (DMC)</b> box.
2	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.
3	Accept changes. Click on the <b>OK</b> button.



## Accept changes

Figure 58:  
Features dialog

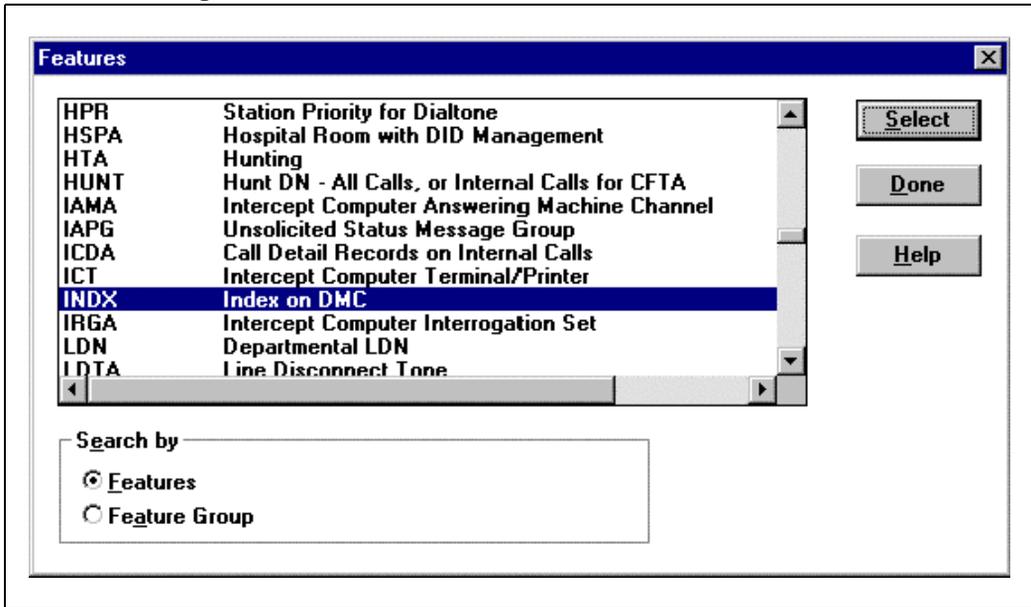


Table 51: Accept changes

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

## Single line features

Figure 59:  
500 dialog

Table 52: Single line features

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



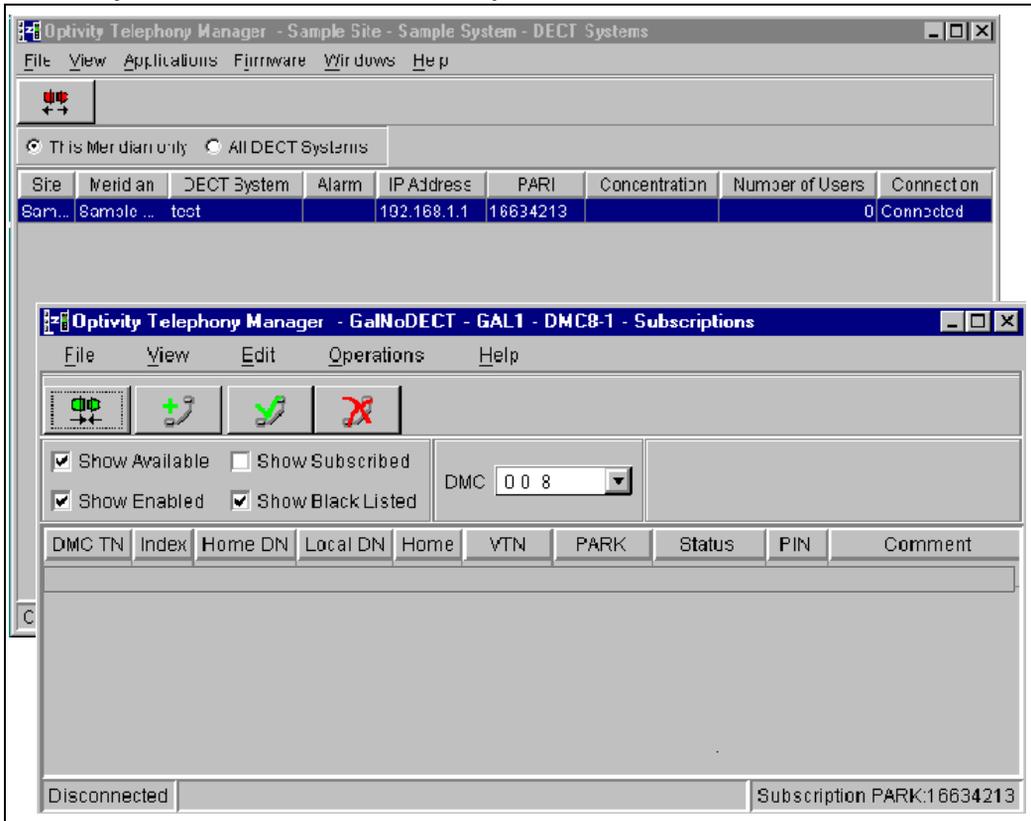


**NOTE**

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

# Retrieve subscription data for handsets

**Figure 60:**  
**DECT Systems window and Subscriptions window**



Complete the following steps:

**Table 53: Subscribe handsets**

Step	Action
1	Launch the Subscriptions window from the DECT Systems window.
	Click on the <b>A</b> pplications pull-down menu, click on <b>S</b> ubscriptions.
2	Retrieve the subscription configuration data from the OTM Station Administration database. <b>Note:</b> At this point, there is no handset data shown in the Subscriptions window.
	In the Subscriptions window, click on the <b>O</b> perations pull-down menu, click on <b>R</b> etrieve OTM Configuration.
3	<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 on the <b>F</b> ile pull-down menu, click on <b>A</b> dd or click on  .
END	

## Enable subscription

Figure 61:  
Subscriptions window



Complete the following steps for each handset:

Table 54: Configure handsets

Step	Action
1	<p><b>Note:</b> At this point, there are no PINs shown in the Subscriptions window.</p> <p>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 on <b>Enable</b> or click on .</p>



## Activate the PIN on the handsets

**Figure 62:**  
**Subscriptions window**



Complete the following steps:

**Table 55: Obtain the PIN**

Step	Action
3	<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 <a href="#">“C4010, C4010 Ex, C4020 handset subscription”</a> on page 120, and <a href="#">“C4050 handset subscription”</a> on page 127.</p>



**NOTE**

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

---

# Handset subscription

---

This chapter contains the following topics:

C4010, C4010 Ex, C4020 handset subscription . . . . .	120
Distribute C4010, C4010 Ex, C4020 handsets and install battery chargers . . . . .	120
Subscribe the C4010, C4010 Ex, C4020 handset . . . . .	123
C4050 handset subscription . . . . .	127
Distribute C4050 handsets and install battery chargers . . . . .	127
Subscribe the C4050 handset . . . . .	129

# C4010, C4010 Ex, C4020 handset subscription

Figure 63: C4010 handset and C4010 Ex handset

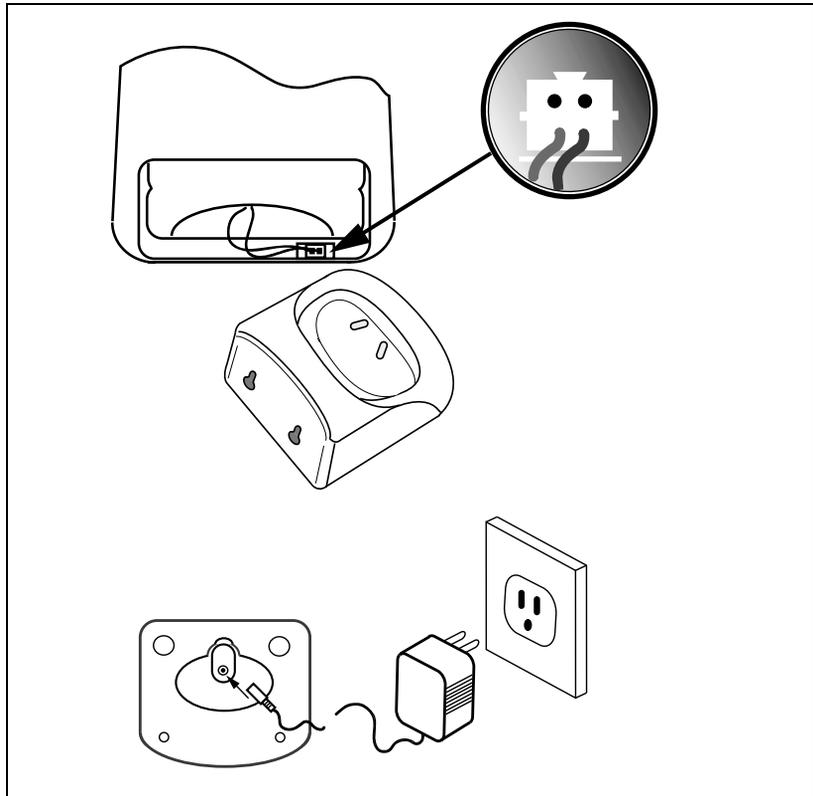


## Distribute C4010, C4010 Ex, C4020 handsets and install battery chargers

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



**DANGER: Serious injury**  
Never charge a C4010 Ex battery in an explosive atmosphere.

**Figure 64: Battery details, charger details, and connections****Table 56: Install battery charger and charge batteries**

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

**Table 56: Install battery charger and charge batteries**

<b>Step</b>	<b>Action</b>
<b>3</b>	Insert the handset battery pack, as applicable. <b>Note:</b> Use only the approved battery for the C4010 Ex handset.
<b>4</b>	Unpack the handset battery charger and its accessories.
<b>5</b>	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.
<b>6</b>	Install the mounting screws. Use screws with a maximum diameter of 4 mm.
	Turn the two screws into the wall at a distance of 45 mm from each other. Make sure that the screw heads protrude by 2.5 to 3 mm.
<b>7</b>	Hang the charger on the screws.
<b>8</b>	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.
<b>9</b>	Place the handset into the charger.
	<b>Note:</b> The battery icon appears on the display indicating the battery is charging, if the battery is installed or not.
	

**CAUTION: Service interruption**

Charge the C4010, C4010 Ex, C4020 battery at least 12 hours before using the handset for the first time. This will lengthen the service life of the battery.

## Subscribe the C4010, C4010 Ex, C4020 handset

Consult the work order for a list of subscription names.

**Table 57: 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 you entered, press <b>Erase</b> or select the digit and enter a new digit. Press the <b>Ok</b> key.

Table 58: Handset name and DN identity

Step	Action
5	Select <b>Menu</b> .
	Press the <b>Menu</b> key.
6	Select <b>Handset name</b> .
	Dial 86.
7	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 <a href="#">Table 59</a> . For example to enter E press key 3 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.
8	Confirm the name and DN.
	Press the <b>Ok</b> key.



**Table 59: Southern handset key pad alphabet equivalent**

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

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

**Table 60: Northern handset key pad alphabet equivalent**

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

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

## C4050 handset subscription

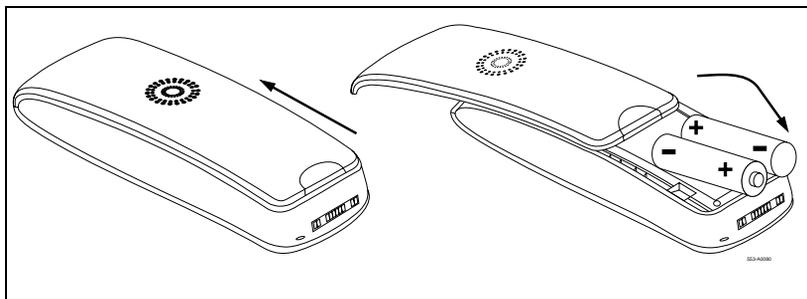
Figure 65: C4050 handset



### **Distribute C4050 handsets and install battery chargers**

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

**Figure 66: Battery details, charger details, and connections**



**Table 61: 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 C4050 handset.
4	Unpack the handset battery charger and its accessories.
5	Mount the battery charger.
	Place the charger on the desk.

**Table 61: Install battery charger and charge batteries**

Step	Action
6	Install the power supply.
	Plug the power supply cable into the connector located on the side of the charger, then plug the ac adapter into the 230 V ac mains socket.
7	Place the handset into the charger.
	<b>Note:</b> The LED ring on the handset shows 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 lengthen the service life of the battery.

**Subscribe the C4050 handset**

Consult the work order for a list of subscription names.

**Table 62: C4050 handset subscription**

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

**Table 62: C4050 handset subscription**

Step	Action
3	Select Subscription.
	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 63: 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						
*	*	-	+	=	~	<	>	^	%		
#	#	(	)	{	}	[	]	/	\	_	



---

# Base Station Power and Muting

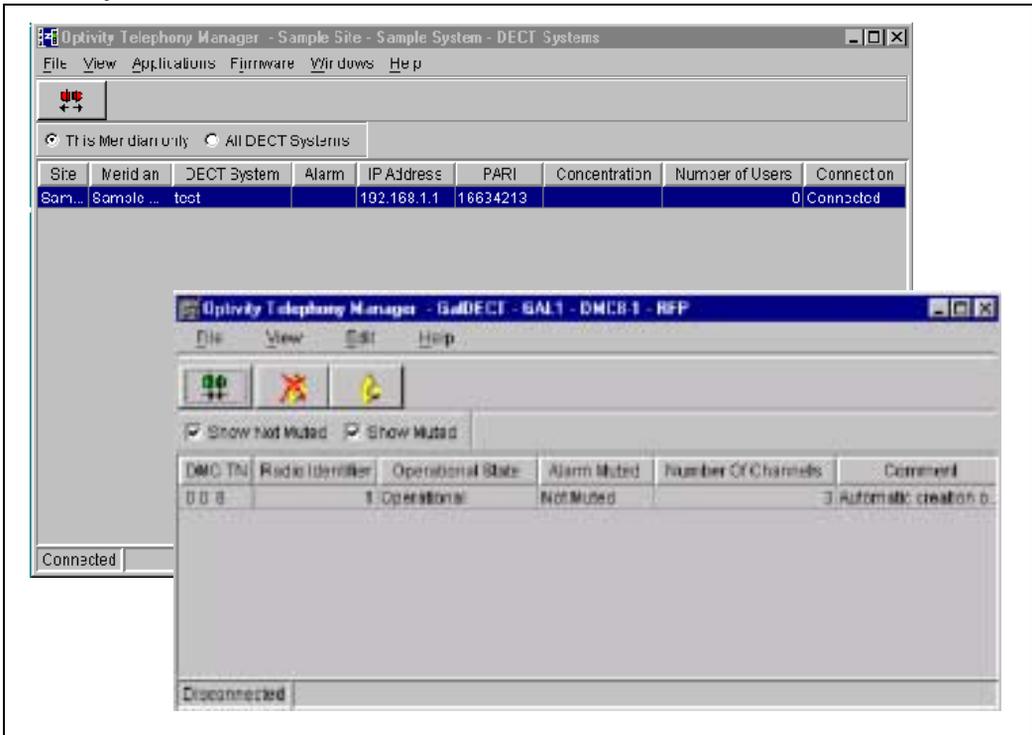
---

This chapter contains the following topics:

Open RFP window .....	134
Set alarm muting, line power, and comments for Base Stations .....	136

## Open RFP window

**Figure 67:**  
DECT Systems main window and RFP window



Complete the following steps:

**Table 64: Open RFP window**

Step	Action
1	Launch the DECT Systems window.
2	Launch the Boards window.

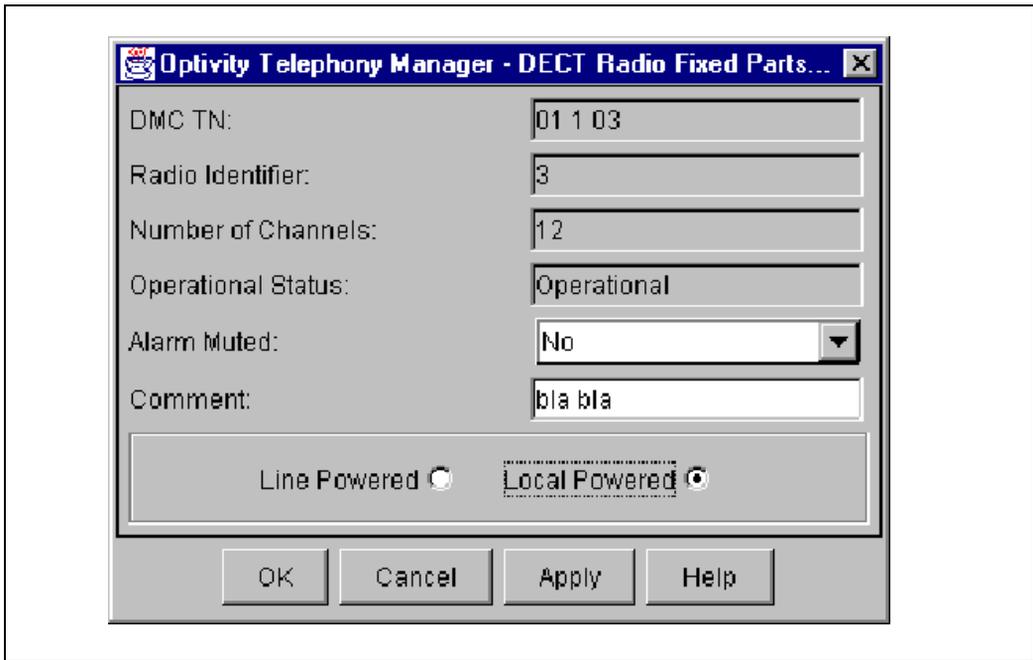
**Table 64: Open RFP window**

<b>Step</b>	<b>Action</b>
	On the DECT Systems window, click on the <b>A</b> pplications pull-down menu, click on <b>B</b> oards.
<b>3</b>	Select a base station from the list.
	Click on one RFP in the list to highlight a row.
<b>4</b>	Open the Radio Fixed Part properties dialog.
	Click on the <b>E</b> ile pull-down menu, click on <b>P</b> roperties.



## Set alarm muting, line power, and comments for Base Stations

**Figure 68:**  
DECT Radio Fixed Parts



Complete the following steps:

**Table 65: Set alarm muting, line power, and comments for Base Stations**

Step	Action
1	Set alarm muting. Select <b>No</b> to deny alarm muting or <b>Yes</b> to allow alarm muting.
	Click on <b>No</b> or <b>Yes</b> .
2	Enter up to 80 characters for comments.

**Table 65: Set alarm muting, line power, and comments for Base Stations**

<b>Step</b>	<b>Action</b>
	Type comments.
<b>3</b>	Select local powered or line powered for the selected base station.
	Click the <b>Line Powered</b> or <b>Local Powered</b> radio button.
<b>4</b>	Apply the selections.
	Click the <b>OK</b> button.





---

## Add a V.24 serial connection

---

This chapter contains the following topics:

DMC8 to OTM server serial connections . . . . .	140
Connect the relay card to a local OTM server . . . . .	141
Connect the relay card to a remote OTM server with modems . . . . .	143
Install a virtual modem on your PC . . . . .	146
Configure modem properties . . . . .	148
Set modem speed . . . . .	150
Set connection preferences . . . . .	152
Disable flow control . . . . .	154
Configure Remote Access Service (RAS) . . . . .	155
Set RAS modem and port usage . . . . .	157
Configure RAS setup and network . . . . .	158
Configure RAS services . . . . .	160
Set up and configure a RAS Phone book entry . . . . .	162
Open the Dial-up Networking dialog . . . . .	162
Set up the phone book entry name . . . . .	163
Set up the server dialog . . . . .	164
Go to the next dialog . . . . .	165
Set up complete . . . . .	166
Configure the networking dial-up . . . . .	167
Configure the Dial using entry . . . . .	168
Configure the Dial-up server type . . . . .	169
Configure IP address . . . . .	170
Accept the configuration changes . . . . .	172
Establish the RAS connection . . . . .	173
Establish a connection to the DECT system . . . . .	174
Establish connection complete . . . . .	175

Set the IP address through Telnet .....	176
Configure the IP address .....	177
Hang-up the RAS connection .....	178

## DMC8 to OTM server serial connections

A DMC8 relay card to OTM server serial connection is required if a DME daughterboard is not present on the relay card. There are two types of serial connection:

- when the relay card and OTM server are local, connected without a modem
- when the relay card and OTM server are remote, connected with a modem



**CAUTION: Service interruption**

Ensure that the DMC8/DMC8-E Relay card jumpers J6 to J9 are in the V.24 position for operation on a serial connection to the OTM server.

## Connect the relay card to a local OTM server

Figure 69: DMC8 relay card connection to a local OTM server

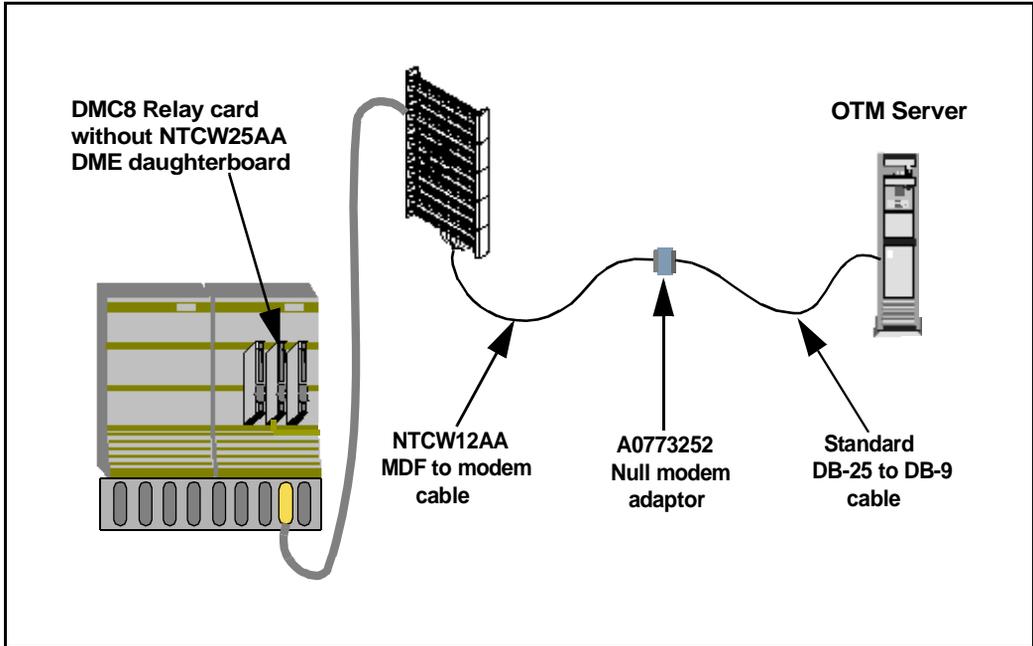


Table 66: Connect the relay card to a local OTM server

Step	Action
1	Connect the NTCW12AA cable to the DMC8 Relay card MDF connector.
	Refer to <a href="#">Table 67 on page 142</a> for the NTCW12AA cable tip and ring connections.

**Table 66: Connect the relay card to a local OTM server**

Step	Action
2	Choose the OTM server COM port from your work order.
	Connect the DB-9 cable connector into the OTM COM port.
3	Install the null modem plug.
	Connect the DB-25 connector end and the NTCW12AA cable end into the AO773252 null modem adapter.



**NOTE**

The BIX tip and ring connections shown in [Table 67 on page 142](#) correspond to standard BIX designation. The first pair are labeled T0 and R0. (See the *Installation and Maintenance NTP*, section *Planning and Designating the MDF*.)

**Table 67: 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

# Connect the relay card to a remote OTM server with modems

Figure 70: DMC8 relay card connection to a remote OTM server

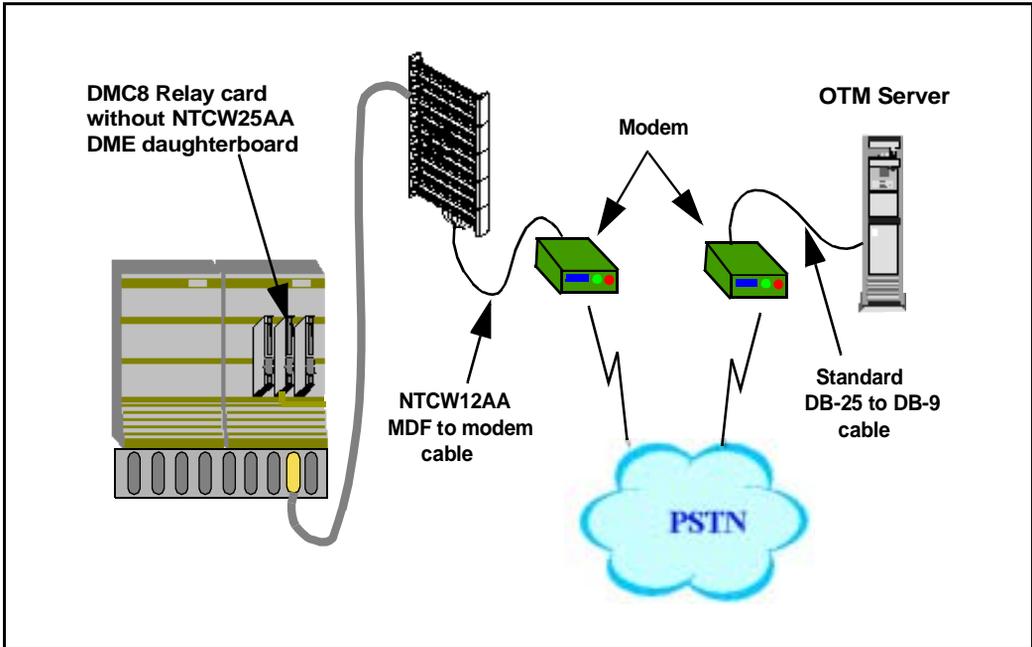


Table 68: Connect the remote OTM server to a modem

Step	Action
1	Connect the OTM COM port to the modem. Connect the DB-9 end of the V.24 cable to the OTM COM port. Connect the DB-25 end of the V.24 cable to the modem.

**Table 68: Connect the remote OTM server to a modem**

Step	Action
2	Set up the OTM modem.
	Follow the manufacturers set-up procedures. Set modem as follows: <ul style="list-style-type: none"> <li>• Line speed = 38400b/s</li> <li>• No parity</li> <li>• 1 stop bit</li> <li>• 8 bit words</li> <li>• No output control</li> <li>• No timer</li> </ul>
3	Connect the modem to the Public Switched Telephone Network.
	Plug a teledapt cable into the modem RJ11 jack. Connect the other end of the teledapt cable to the PSTN.



**Table 69: Connect the DMC8 Relay card to a modem**

Step	Action
1	Connect the NTCW12AA cable to the DMC8 Relay card MDF connector.
	Refer to <a href="#">Table 67 on page 142</a> for the NTCW12AA cable tip and ring connections.
2	Set up the OTM modem.

**Table 69: Connect the DMC8 Relay card to a modem**

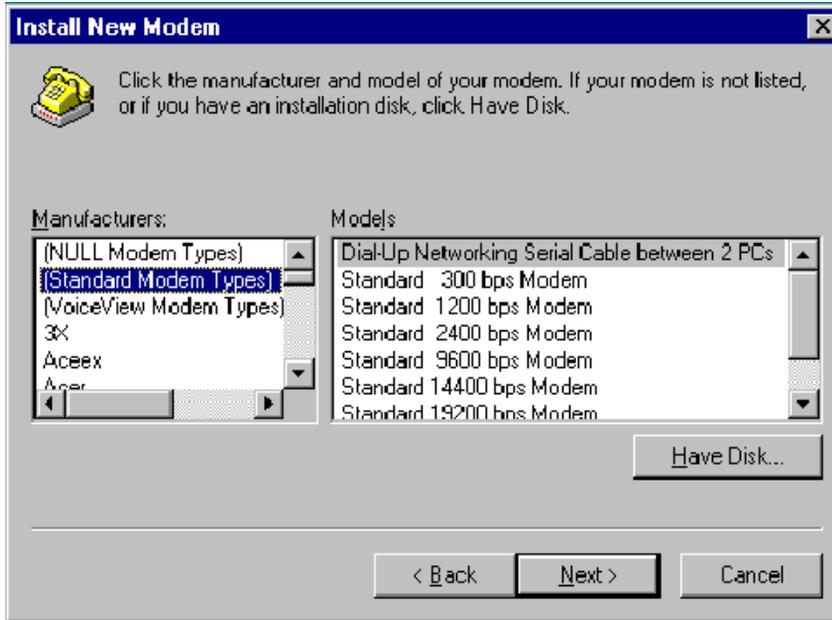
Step	Action
	Follow the manufacturers set-up procedures. Set modem as follows: <ul style="list-style-type: none"><li>• Line speed = 38400b/s</li><li>• No parity</li><li>• 1 stop bit</li><li>• 8 bit words</li><li>• No output control</li><li>• No timer</li></ul>
3	Connect the NTCW12AA cable to the modem.
4	Connect the OTM modem to the Public Switched Telephone Network.
	Plug a teledapt cable into the modem RJ11 jack. Connect the other end of the teledapt cable to the PSTN.



## Install a virtual modem on your PC

This task is only required if there is no Ethernet connectivity to the relay card.

**Figure 71:**  
**Install New Modem**



Complete the following steps:

**Table 70: Install a modem on your PC**

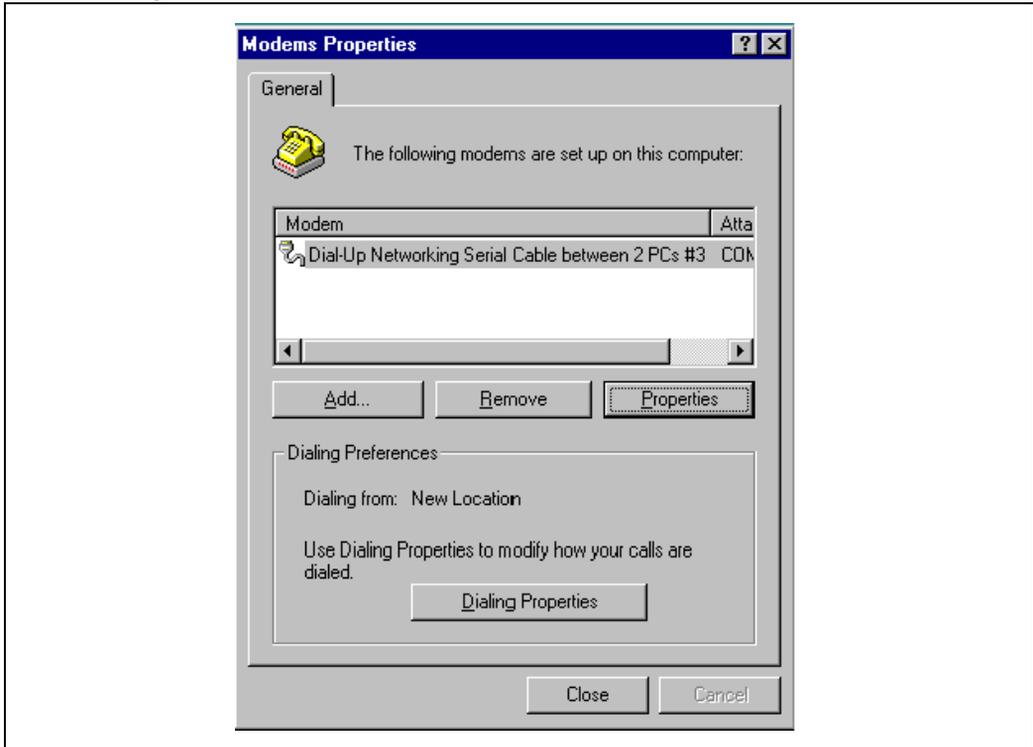
<b>Step</b>	<b>Action</b>
<b>1</b>	Go to Control Panel.
	Click on <b>Modem</b> .
<b>2</b>	Manufactures.
	Select [ <b>Standard Modem Types</b> ].
<b>3</b>	Models.
	Select <b>Dial-Up Networking Serial Cable between 2 PCs</b> .
<b>4</b>	Continue.
	Click on <b>Next</b> .



## Configure modem properties

The properties must be configured to interface serially to the MDECT system.

**Figure 72:**  
**Modem Properties**



Complete the following steps:

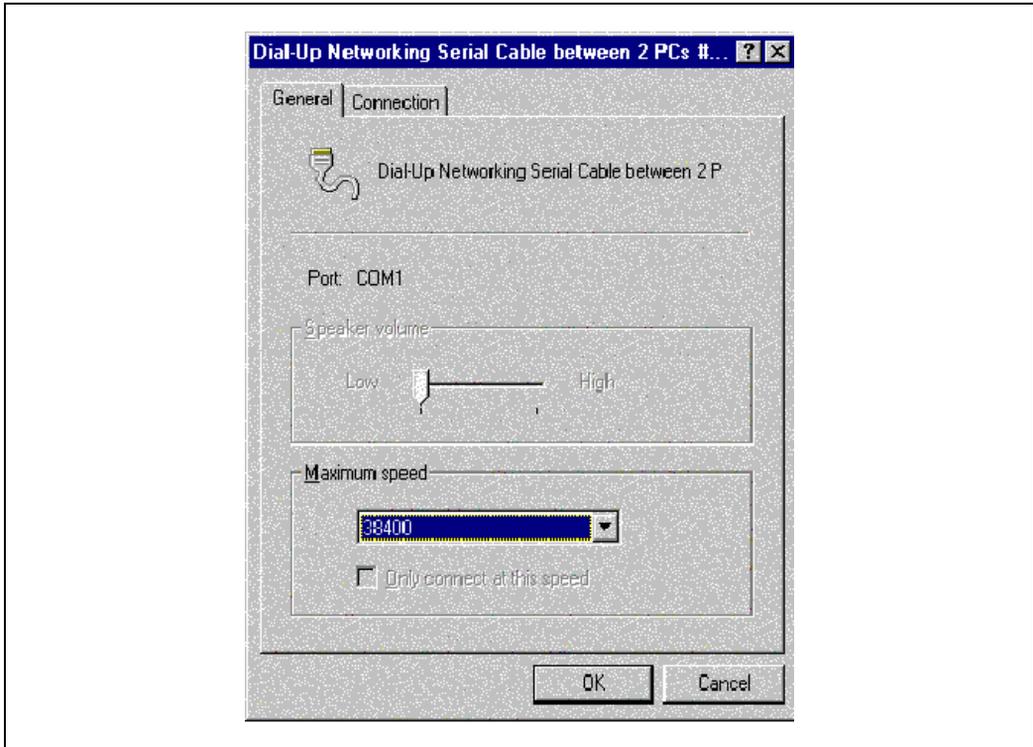
**Table 71: Configure modem properties**

<b>Step</b>	<b>Action</b>
<b>1</b>	Go to Control Panel.
	Click on <b>Modem</b> .
<b>2</b>	Select the modem installed.
	Click on the modem in the list.
<b>3</b>	Open the properties dialog.
	Click the <b>Properties</b> button.



## Set modem speed

Figure 73:  
Dial-Up Networking Serial Cable between 2 PCs #... General



Complete the following steps:

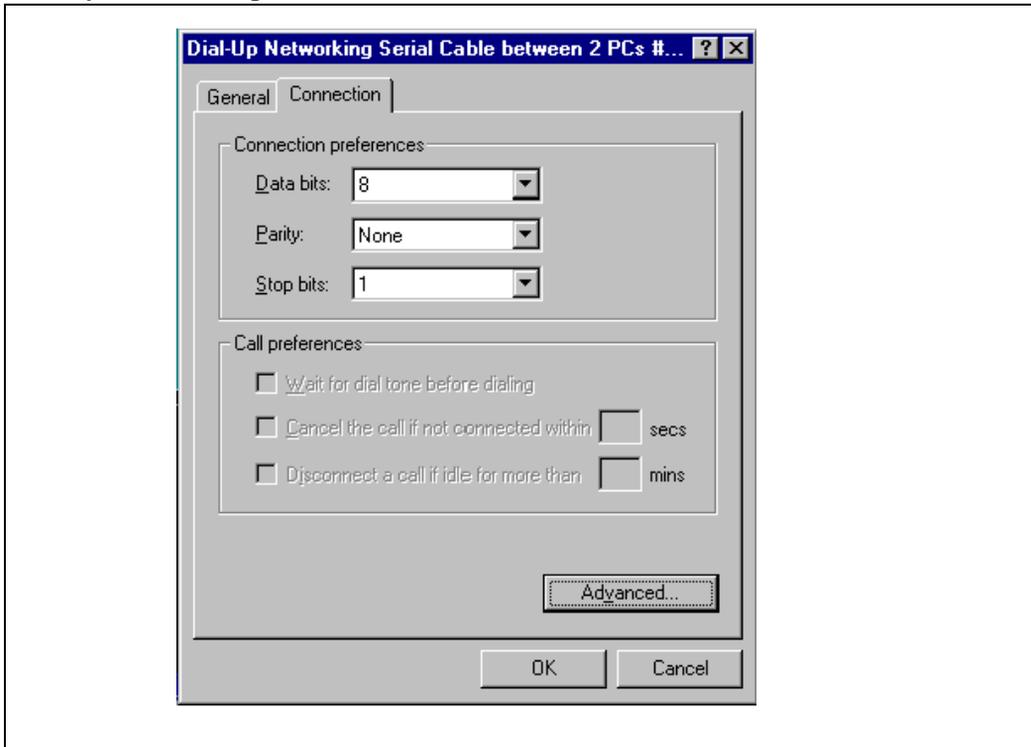
**Table 72: Set modem speed**

<b>Step</b>	<b>Action</b>
<b>1</b>	Select maximum modem speed.
	Choose <b>38400</b> .
<b>2</b>	Apply selection.
	Click the <b>OK</b> button.



## Set connection preferences

Figure 74:  
Dial-Up Networking Serial Cable between 2 PCs #... Connection tab



Complete the following steps:

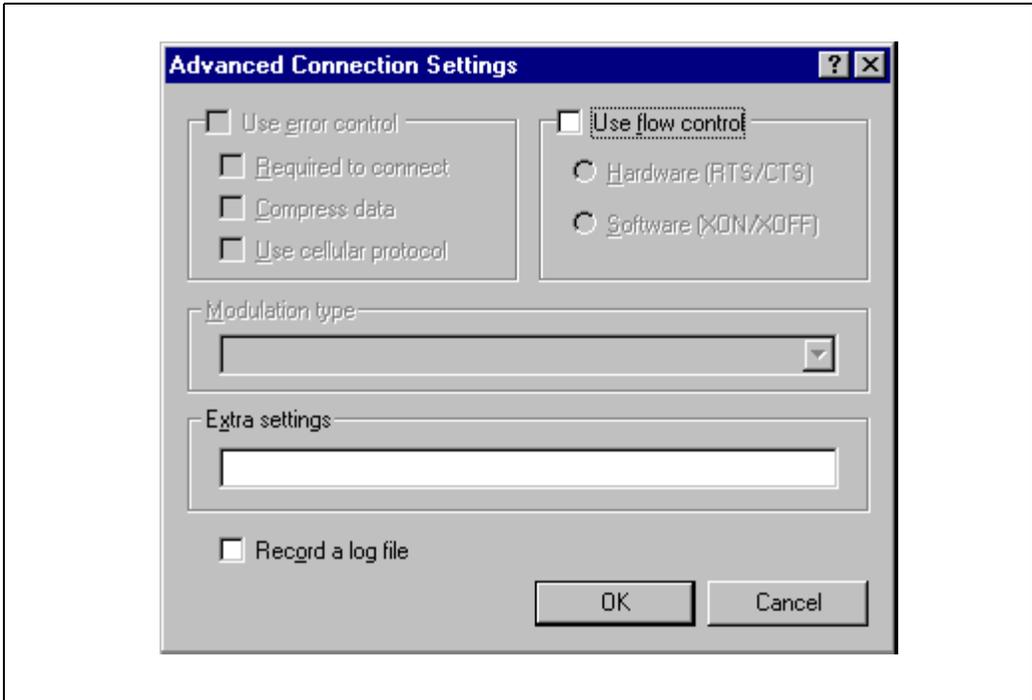
**Table 73: Set connection preferences**

<b>Step</b>	<b>Action</b>
<b>1</b>	Set Data bits.
	Select <b>8</b> .
<b>2</b>	Set Parity.
	Select <b>None</b> .
<b>3</b>	Set Stop bits
	Select <b>1</b> .
<b>4</b>	Open Advanced dialog.
	Click on the <b>Advanced</b> button.



## Disable flow control

Figure 75:  
Advanced Connection Settings



Complete the following steps:

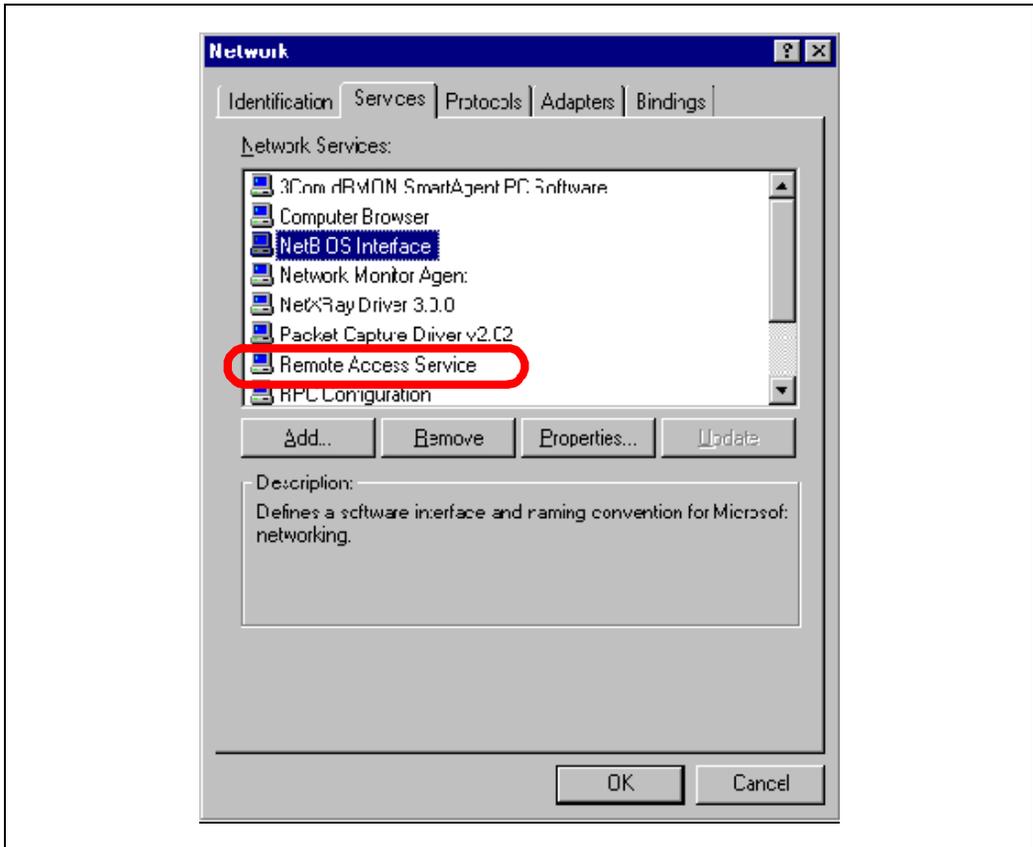
Table 74: Disable flow control

Step	Action
1	Ensure that flow control is disabled.
	Remove check from the <b>Use flow control</b> box.



## Configure Remote Access Service (RAS)

Figure 76:  
Network - Services



Complete the following steps:

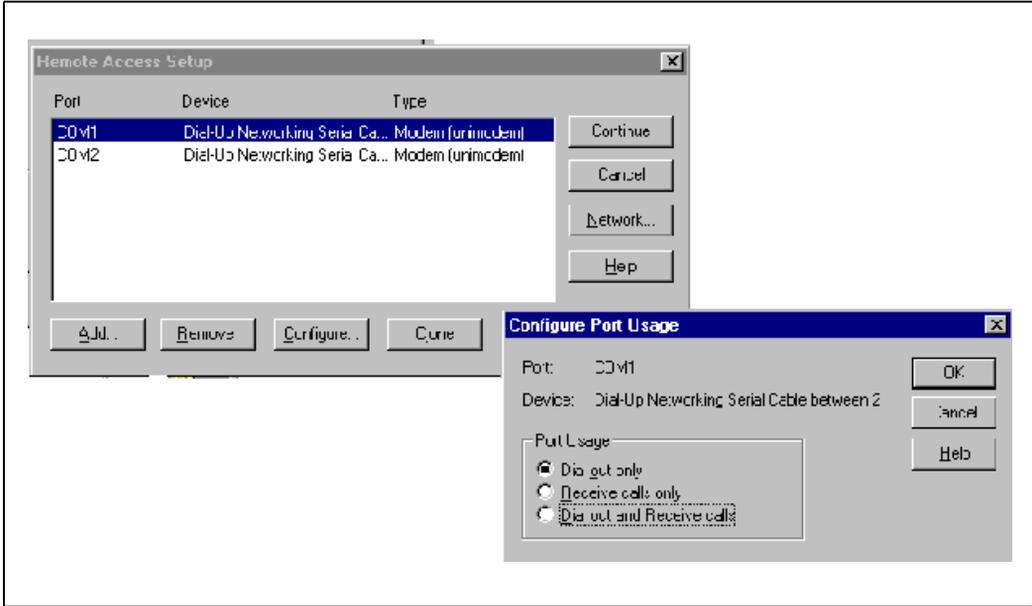
**Table 75: Configure Remote Access Service**

<b>Step</b>	<b>Action</b>
<b>1</b>	Open the Network property dialog. Start> Control Panel> click on the network icon.
<b>2</b>	Select Services. Click on Services tab.
<b>3</b>	Select the Remote Access Service. Click on <b>Remote Access Service</b> .



## Set RAS modem and port usage

**Figure 77:**  
Remote Access Setup and Configure Port Usage



Complete the following steps:

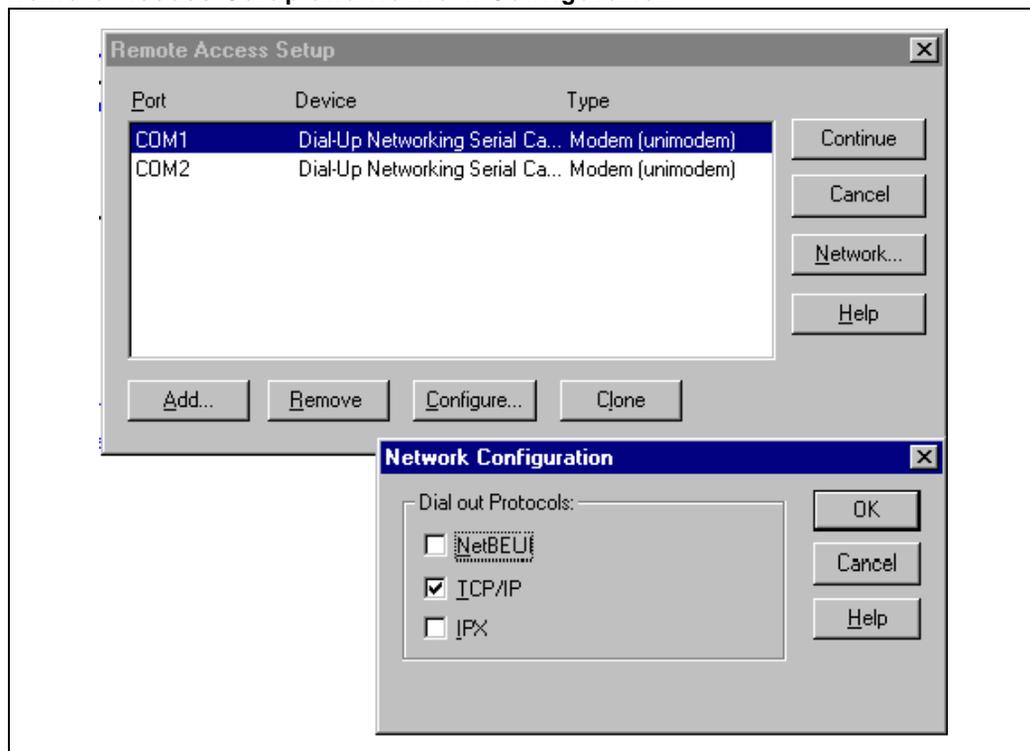
**Table 76: Set modem and port usage**

Step	Action
1	Select a modem. Highlight a device.
2	Configure. Click on the <b>Configure...</b> button.
3	Select Port Usage. Click on the <b>Dial out only</b> radio button.



## Configure RAS setup and network

**Figure 78:**  
**Remote Access Setup and Network Configuration**



Complete the following steps:

**Table 77: Configure Remote Access Service**

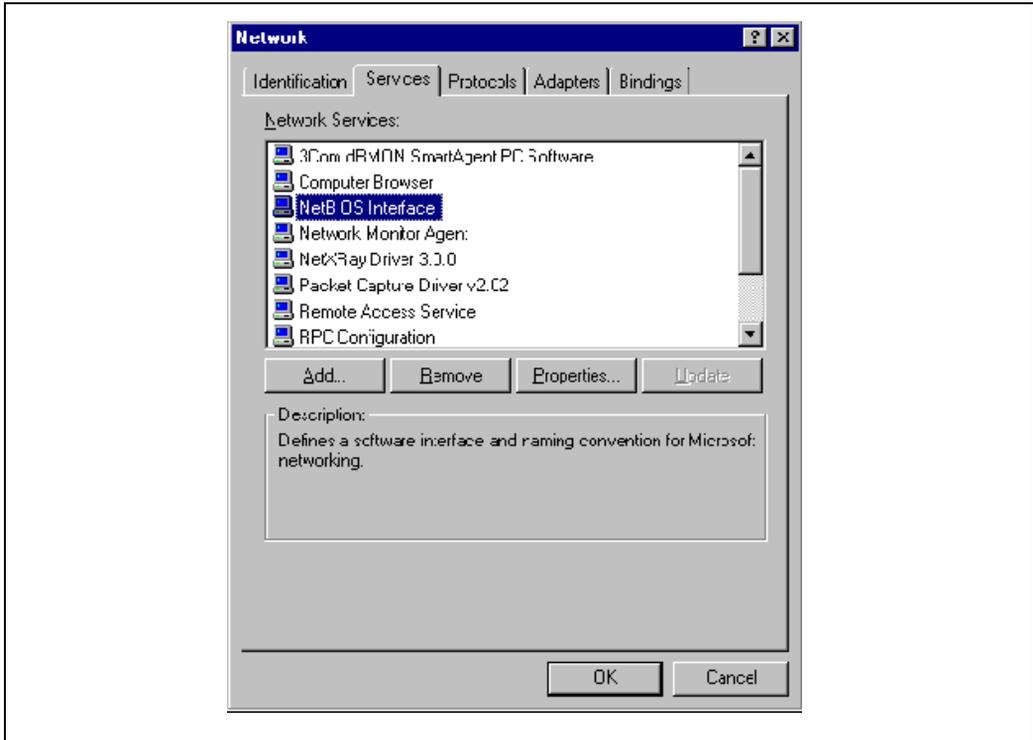
<b>Step</b>	<b>Action</b>
<b>1</b>	Select a modem.
	Highlight a device.
<b>2</b>	Select Network.
	Click on the <b>Network</b> button.
<b>3</b>	Select TCP/IP protocol for this port.
	Click a check in the <b>TCP/IP</b> box.



## Configure RAS services

NetBios Interface Service must be installed, or there are no PPP protocols configured on the RAS ports.

**Figure 79:**  
**Network - Services**



Complete the following steps:

**Table 78: Configure Remote Access Service**

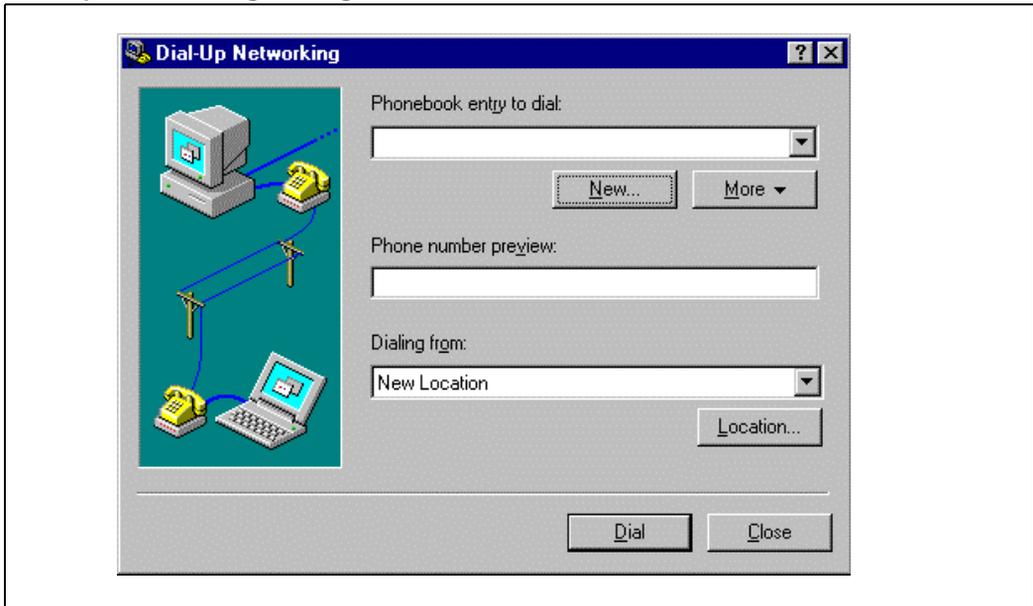
Step	Action
1	If the NetBios Interface Service is not installed.
2	
3	



# Set up and configure a RAS Phone book entry

## Open the Dial-up Networking dialog

Figure 80:  
Dial-up Networking dialog



Complete the following steps:

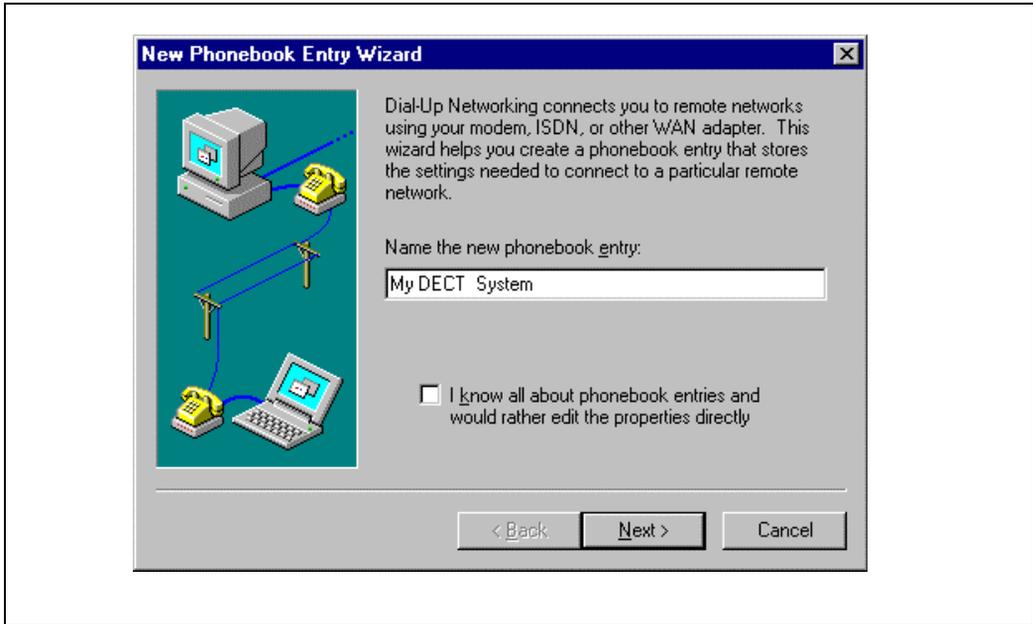
Table 79: Open the Dial-up Networking dialog

Step	Action
1	Open the Dial-up Networking property dialog on Windows NT. <b>Start&gt; Program&gt; Accessories&gt; Dial-up Networking.</b>
2	Continue.
	Press the <b>New</b> button.



## Set up the phone book entry name

**Figure 81:**  
**New Phonebook Entry Wizard**



Complete the following steps:

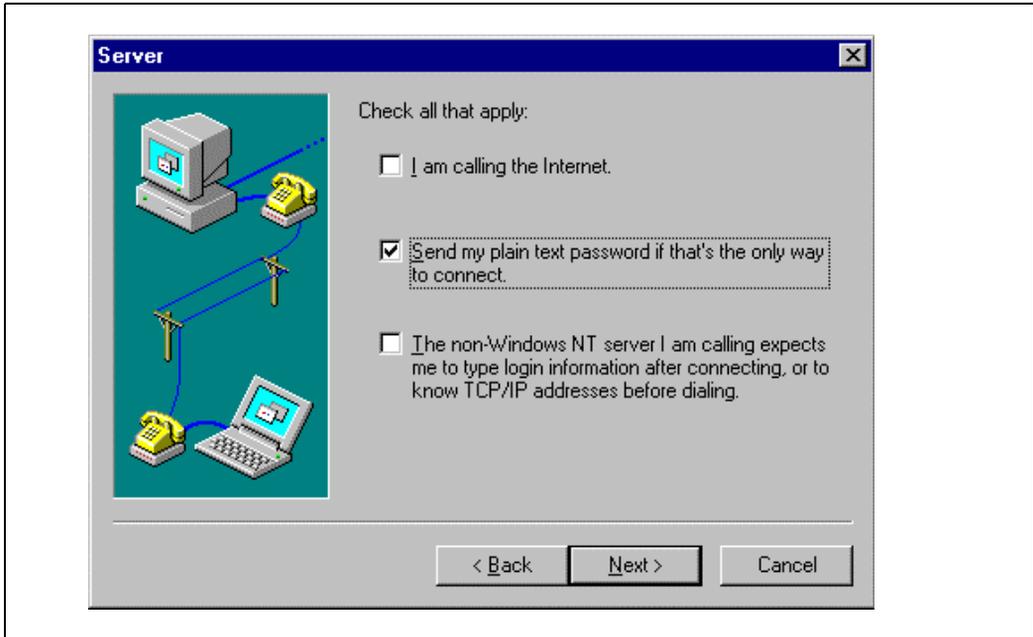
**Table 80: Set up the phone book entry name**

Step	Action
1	Name the phone book entry.
	Enter your system name.
2	Accept the changes.
	Press the <b>Next</b> button.



## Set up the server dialog

Figure 82:  
Server



Complete the following steps:

Table 81: Configure Remote Access Service

Step	Action
1	Set up the server dialog.
	Check the <b>Send my plain text password...</b> box.
2	Accept the changes.
	Press the <b>Next</b> button.



## Go to the next dialog

**Figure 83:**  
**Phone Number**



Complete the following steps:

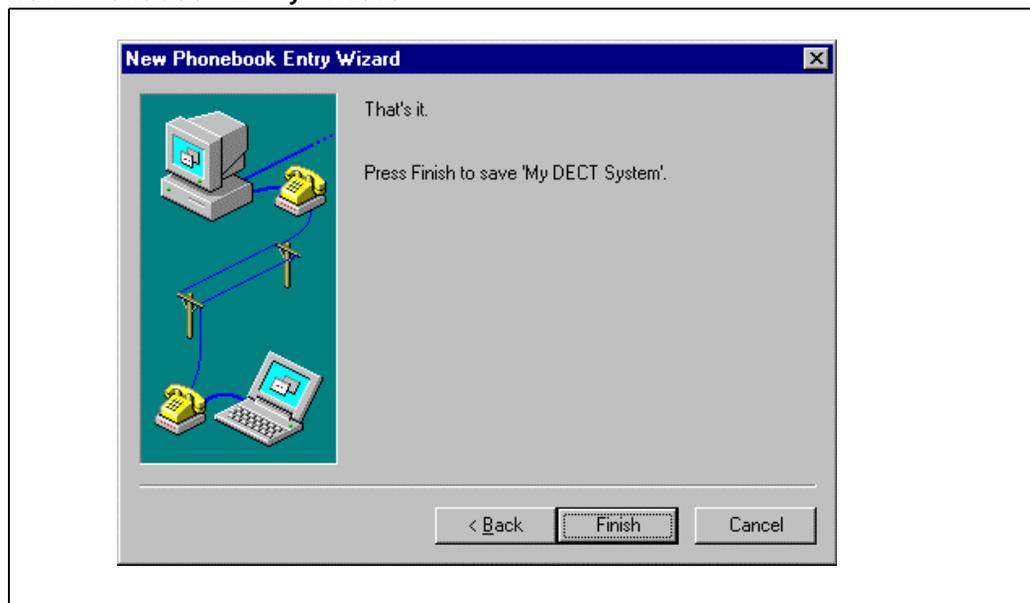
**Table 82: Go to the next dialog**

Step	Action
1	Omit this dialog.
	Press the <b>Next</b> button.



## Set up complete

Figure 84:  
New Phonebook Entry Wizard



Complete the following steps:

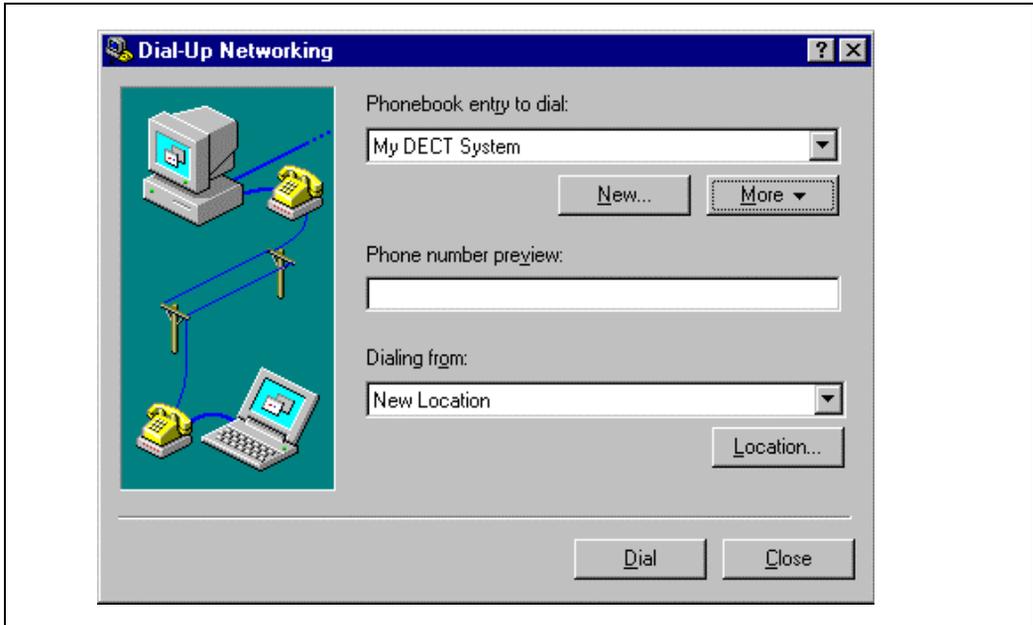
Table 83: Set up complete

Step	Action
1	Complete the set up.
	Press the <b>Finish</b> button.



## Configure the networking dial-up

Figure 85:  
Dial-Up Networking



Complete the following steps:

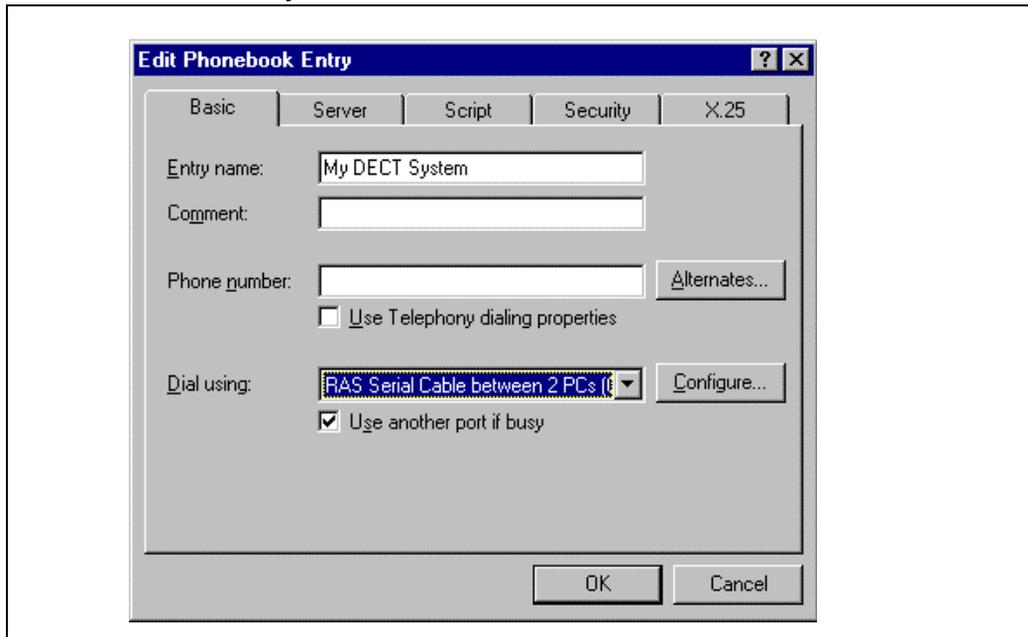
Table 84: Configure the networking dial-up

Step	Action
1	Open the Dial-up Network property dialog on Windows NT. <b>Start&gt; Program&gt; Accessories&gt; Dial-up Networking.</b>
2	Select edit phone book. Under the <b>More</b> drop-down list, select <b>Edit entry and modem properties.</b>



## Configure the Dial using entry

Figure 86:  
Edit Phonebook Entry - Basic



Complete the following steps:

Table 85: Configure the Dial using entry

Step	Action

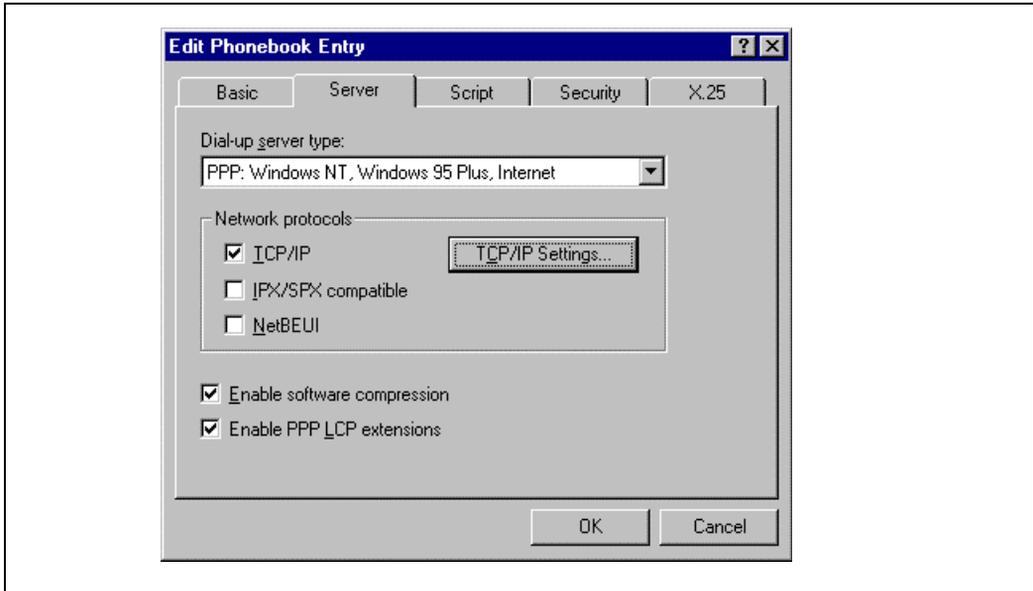
**Table 85: Configure the Dial using entry**

Step	Action
1	Configure an entry from the Dial using drop-down list. <b>Note:</b> The list shows modems you previously configured.
	Select an appropriate entry from the Dial using drop-down list.
2	Accept the changes.
	Press the <b>OK</b> button.



## Configure the Dial-up server type

**Figure 87:**  
**Edit Phonebook Entry - Server**



Complete the following steps:

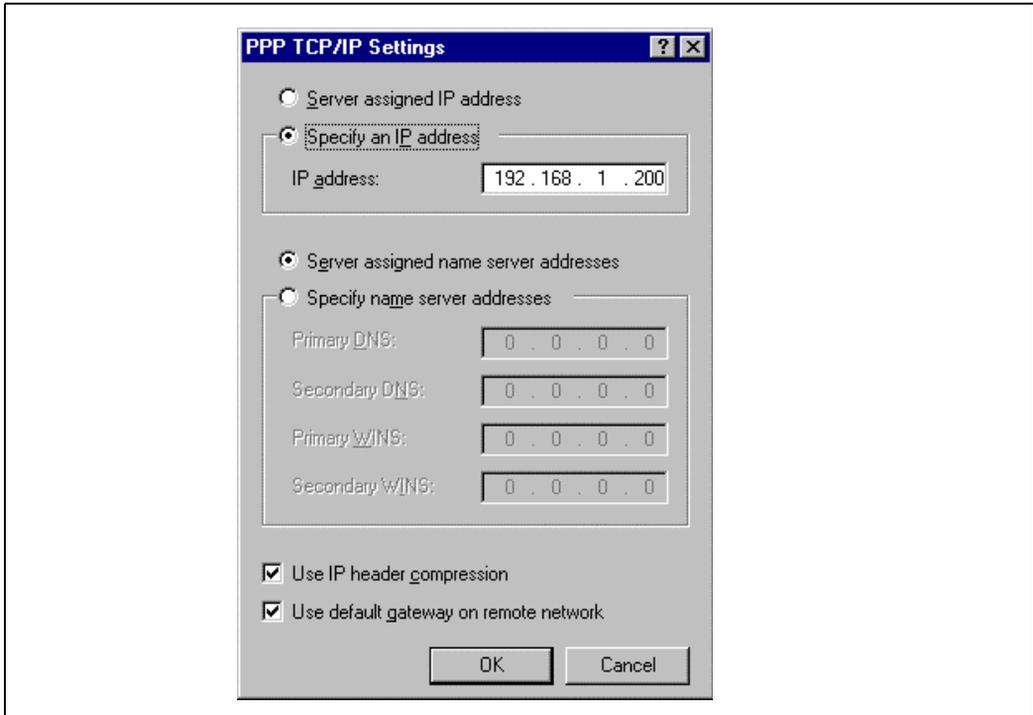
**Table 86: Configure the Dial-up server type**

Step	Action
1	Configure the Dial-up server type. Select <b>PPP: Windows NT...</b> and check the boxes shown in <a href="#">Figure 87</a> .
2	Open the PPP TCP/IP Settings dialog. Press the <b>TCP/IP</b> settings button.



## Configure IP address

Figure 88:  
PPP TCP/IP Settings



Complete the following steps:

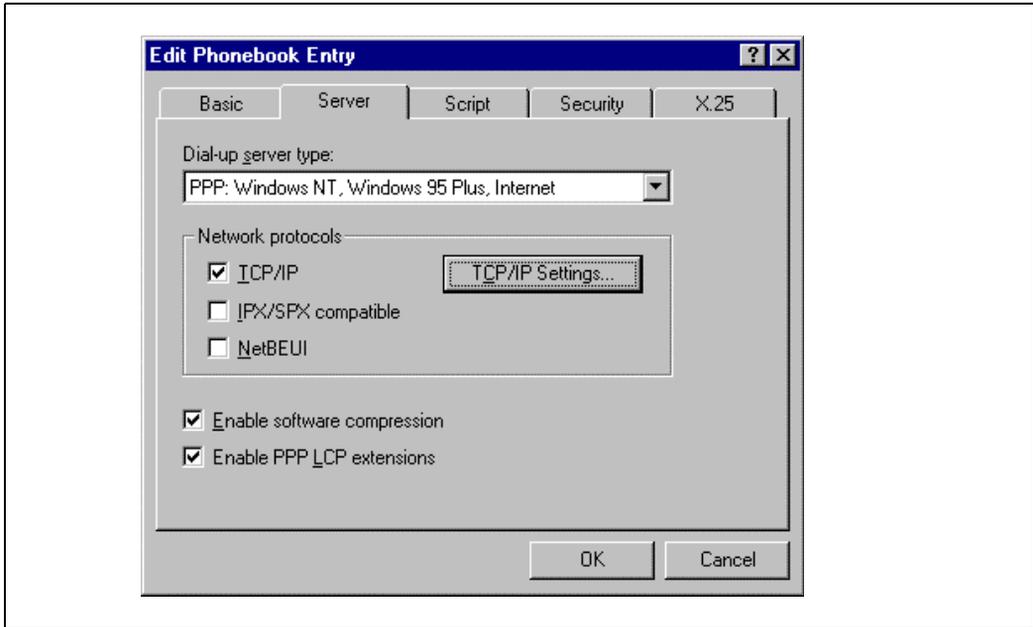
**Table 87: Configure IP address**

Step	Action
1	Select the settings.
	Click the <b>Specify an IP address</b> and the <b>Server assigned name server address</b> radio buttons. Click on both check boxes.
2	Specify an IP address.
	Enter your IP address.



## Accept the configuration changes

**Figure 89:**  
Services



Complete the following steps:

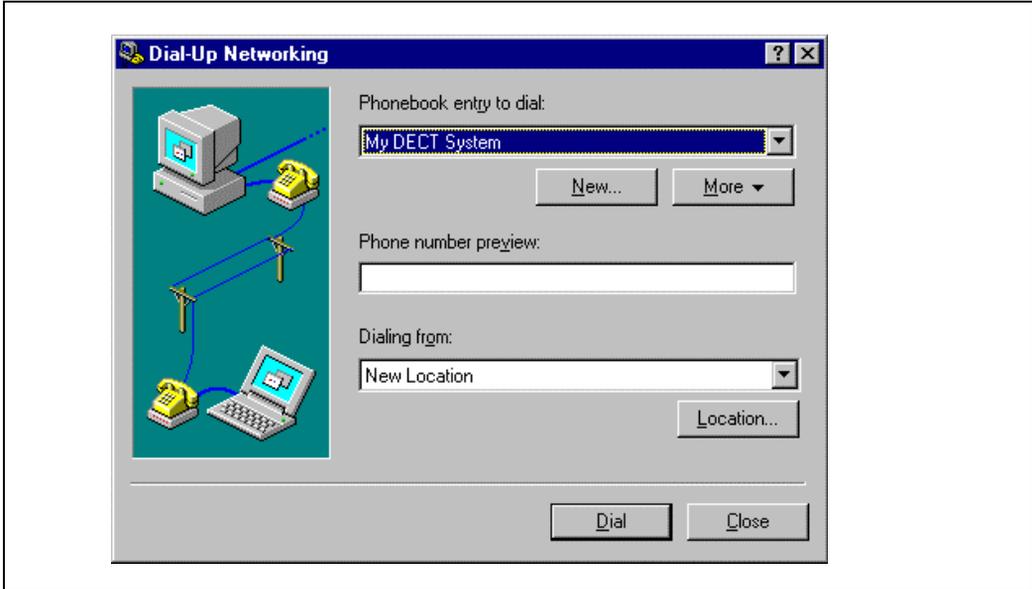
**Table 88: Accept the configuration changes**

Step	Action
1	Accept the configuration changes.
	Press the <b>OK</b> button.



## Establish the RAS connection

Figure 90:  
Dial-Up Networking



Complete the following steps:

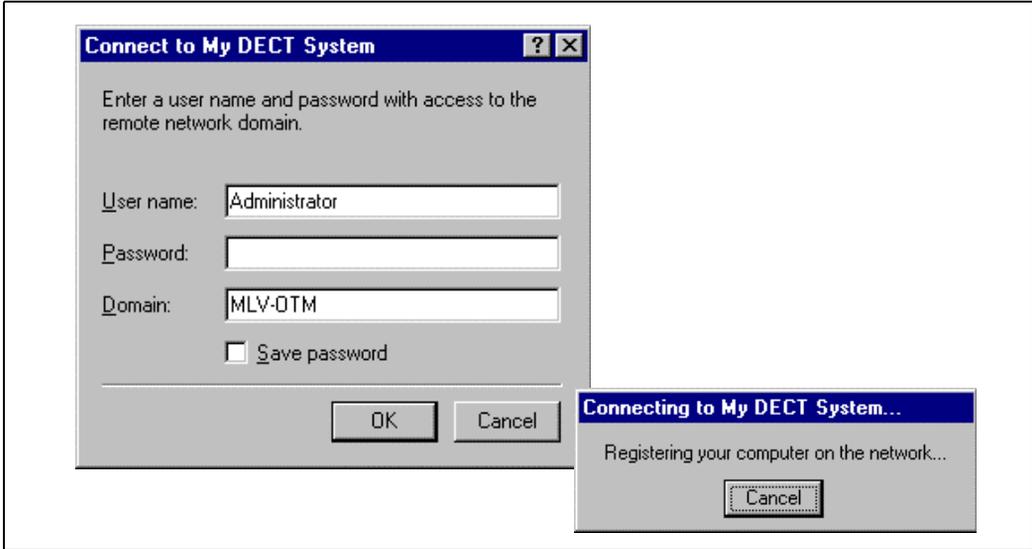
Table 89: Establish the RAS connection

Step	Action
1	Open the Dial-up Network property dialog on Windows NT. <b>Start&gt; Program&gt; Accessories&gt; Dial-up Networking.</b>
2	Select your Phonebook entry to dial. Highlight your entry.
3	Dial. Press the <b>Dial</b> button.



## Establish a connection to the DECT system

**Figure 91:**  
**Connect to my DECT system**



Complete the following steps:

**Table 90: Establish a connection to the DECT system**

Step	Action
1	Establish access. <b>Note:</b> No input to this dialog needed.
	Press the <b>OK</b> button.



## Establish connection complete

Figure 92:  
Connection Complete



Complete the following steps:

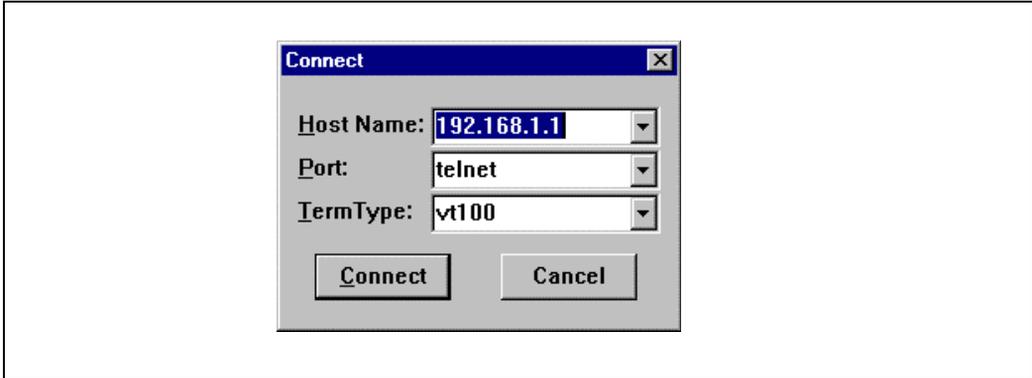
Table 91: Establish connection complete

Step	Action
1	Finish.
	Press the <b>OK</b> button.



## Set the IP address through Telnet

Figure 93:  
Connect



Complete the following steps:

Table 92: Set the IP address through Telnet

Step	Action
1	Open the Dial-up Network property dialog on Windows NT. <b>Start&gt; Program&gt; Accessories&gt; Telnet.</b>
2	Address the DMC8 Relay card using the card's default IP address. Enter 192.168.1.1 in the <b>Host Name:</b> box.
3	Connect to the DMC8 Relay card. Press the <b>Connect</b> button.



## Configure the IP address

Figure 94:  
Telnet 192.168.1.1

```

Telnet - 192.168.1.1
Connect Edit Terminal Help

login: dasuser

password:
local> ipconfig
wrong format..
ipconfig <ipaddress> <subnet>[ <gateway>]

local> ipconfig 192.168.1.25 255.255.255.0 192.168.1.200
    
```

Complete the following steps:

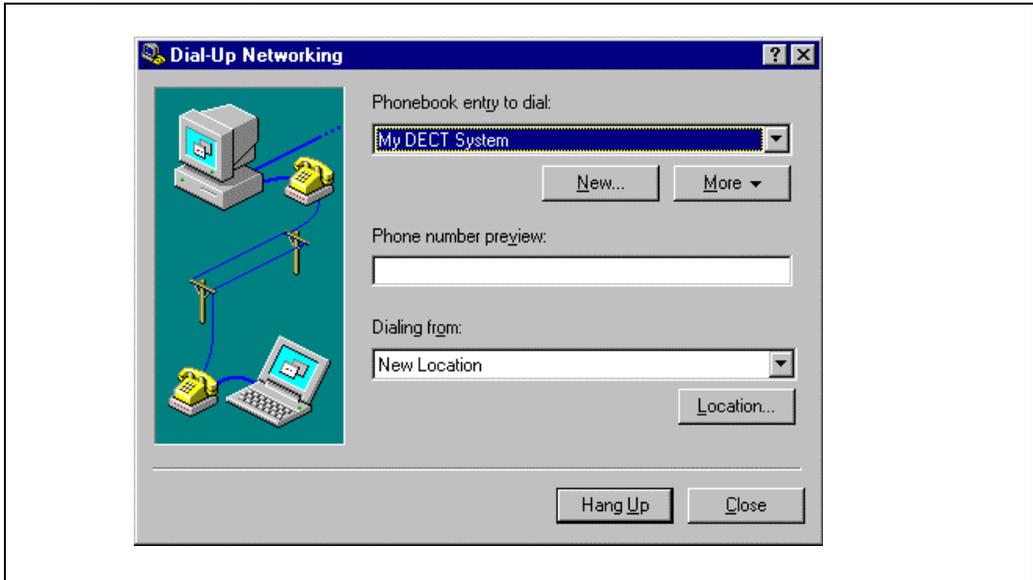
Table 93: Configure the IP address

Step	Action
1	Login.
	Enter <b>dasuser</b> .
2	Password.
	Enter <b>dasuser</b> .
3	Configure the IP address.
	Use <b>ipconfig</b> as shown on the bottom line in <a href="#">Figure 94</a> .
4	Disconnect the Telnet connection.
	Click on the close box in the upper right corner.



## Hang-up the RAS connection

Figure 95:  
Dial-Up networking



Complete the following steps:

Table 94: Hang-up the RAS connection

Step	Action
1	Hang-up the RAS connection.
	Press the <b>Hang Up</b> button.





---

# Multi-Site Mobility Networking

---

This chapter contains the following topics:

Feature implementation . . . . .	179
Feature operation . . . . .	183

## Feature implementation

The sequence of actions required to set-up this feature are as follows:

- 1 Configure a phantom superloop using LD 97, if required.
- 2 Create the new DCS sets in LD 10.
- 3 Configure the RCFW data in LD 57 and LD 15 for handsets assigned as a visitor.
- 4 Use the DECT manager to configure sets on the DMC8.
- 5 Pre-subscribe the visiting handset one time at the MCDN node.



### NOTE

Subscription includes both overlay configuration and DECT Manager configuration. For DECT Manager configuration, see the Meridian Companion DECT NTP.

## LD 10 – Add/Change DCS data block or data blocks.

Table 95: Add/Change DCS data block or data blocks

Prompt	Response	Description
REQ	NEW, NEW 1-255, CHG, ECHG	<p>NEW = Add a Digital Cordless Set</p> <p>NEW X = The generation of new DCS units stop when the maximum Index of 509 is reached on a single DMC8 or VTNs on the system run out or WRLS ISM limits reached. All new DCS must be on the same DMC8.</p> <p>CHG = Allows the DCS configuration to change to another DMC8. All new DCS must be on the same DMC8.</p> <p>ECHG = This command can change either the VSIT response or the HMDN response.</p>
TYPE	DCS	<p>Digital Cordless Set.</p> <p>Differentiates between analog sets and non-concentrated digital Companion DECT handsets.</p> <p>If TYPE=DCS, the system allocates the next available VTN, and WRLS defaults to YES and WTYP defaults to DECT. If package #350 is included, MWUN defaults to 32.</p> <p>CLS defaults to ERCA, allowing the Enhanced RCFW feature.</p>
TN	l s c u l u	TN on an IPE shelf or Option 11C cabinet. The system provides the Virtual TN for the handset.
CDEN	(4D)	Card Density. Only valid value for IPE is 4D. Normal input is <CR>.
WRLS	YES	WiReLess analog Set - entry defaults to YES with no user input - value cannot be CHG'ed.
WTYP	DECT	Wireless TYPE - entry defaults to DECT with no user input - value cannot be CHG'ed.
MWUN	32	<p>Maximum number of Wireless UNits - entry defaults to 32 with no user input - value cannot be CHG'ed.</p> <p>Note - if MWUN = 32, CDEN automatically changes to 8D, and prints as an 8D unit.</p>

**Table 95: Add/Change DCS data block or data blocks**

DMC8	l s c c (Opt.11c)	Location of the actual DMC8. Assigns a TN to a DECT Mobility Card located on an IPE shelf or Option 11C cabinet.
INDX	0.. 509	DMC8 index to map the Virtual TN to a DMC8 TN. Starting index on DMC8, each unit increments to the next available unit.
VSIT	(NO)/YES	ViSITing DECT set. Determines the difference between a local handset and a visiting handset. VSIT available if the MSMN Package is unrestricted. YES=visiting DECT set. NO=local DECT set.
HMDN	X...X	HoMe Directory Number. Sets the DN as a valid MCDN network DN. NMDN available if VSIT=YES.

LD 10 – Copy DCS data block or data blocks.

**Table 96: Copy DCS data block or data blocks**

Prompt	Response	Description
REQ	CPY 1-32	CPY n = The generation of new units stop when the maximum index of 509 is reached on a single DMC8 or VTNs on the system run out or WRLS ISM limits reached. All DCS must be on the same DMC8.
DMC8	l s c l (Opt 11C)	Location of the actual DMC8 to copy on an IPE shelf or Option 11C cabinet.

LD 10 – Remove DCS data block or data blocks.

**Table 97: Remove DCS data block or data blocks**

Prompt	Response	Description
REQ	OUT 1-255	OUT X = Removing units stops when the maximum index of 509 is reached on a single DMC8. All new DCS must be on the same DMC8.
DMC8	l s c l (Opt 11C)	Location of the actual DMC8 to out on an IPE shelf or Option 11C cabinet.

LD 10 – Convert handset type 500 to DCS

**Table 98: Convert handset type 500 to DCS**

Prompt	Response	Description
REQ	CDCS	Convert Digital Cordless Set - convert from a non-concentrated to a concentrated system after software upgrade. The conversion routine converts the 500 units to DCS units and moves them from the actual TN to a virtual TN.



**NOTE**

To convert from concentrated to non-concentrated, OUT all DCS units and re-subscribe the handsets.

The CDCS conversion routine prints each TN as it is moved, in the following format:

500 TN l s c 00 = DCS TN L' S' C' Index#.

where: L' S' C' = virtual TN

Index# = default of the unit number of the 500 type set.

LD 20 – Print actual DMC8 TN and virtual DMC8 TN list.

**Table 99: Print actual DMC8 TN and virtual DMC8 TN list**

Prompt	Response	Description
REQ	PRT	Request.
TYPE	DCS	Digital Cordless Set.
TN	l s c l (Opt 11C) l' s' c' u' l' u' (Opt 11C)	Terminal Number for actual DMC8 on an IPE shelf or Option 11C cabinet. Virtual Terminal Number on an IPE shelf or Option 11C cabinet.

The print routine outputs the following format:

```
INDX  Index #  VTN III s cc uu
where: Index # = Index number of virtual TN.
       III s cc uu = Virtual TN of unit.
```

**LD 81** – Print DCS features

**Table 100: Print DCS features**

Prompt	Response	Description
REQ	LST	Request.
FEAT	VSIT	Feature Request - DECT visitors.
HMDN	Xx / <cr>	HoMe Directory Number. Specify a single HMDN or print all HMDN on system.

The LD 81 output format as follows:

```
DCS  Cust#  Local DN  TN III s cc uu  HMDN  Home DN  Last
Activity Date.
```

where: Cust# = Customer Number

Local DN = Local Directory Number of user

III s cc uu = TN of unit

Home DN = Home directory number of user

Last Activity Date = Last date of service change activity for user

**LD 83** – Prints DCS terminal numbers with a unit type of DCS instead of 500.

## Feature operation

To activate the MSMN feature:

- turn the handset on within the coverage range of a visited Companion DECT system
- enter the coverage range of a visited Companion DECT system from another Companion DECT system with the handset on

To deactivate the MSMN feature:

- turn the handset off within coverage range of the visited Companion DECT system (The handset must have the DECT Detach feature.)
- turn the handset on at the home Companion DECT system (Any CFW related to the handset cancels.)
- enter the coverage range of the home Companion DECT system with the handset on (Any CFW related to the handset cancels.)

---

## Appendix 1: Upgrade an MDECT system to a SNMP managed system

---

There are two types of manager for MDECT systems:

- Windows Manager
- OTM with DECT application

The Windows Manager, a non-SNMP device, is used to manage the first generation of MDECT systems. The present generation of MDECT systems are managed by an OTM with a DECT application.



### NOTE

The following terms are used in this appendix:

- The DMC (NTCWA00AA) and DMC-E (NTCW01AA) are referred to as DMC4 and DMC4-E.
- An MDECT system equipped with both DMC4/DMC4-E and DMC8/DMC8-E are referred to as a Mixed MDECT system.

An OTM can manage a DMC4/DMC4-E MDECT system or a Mixed MDECT system.

A DMC4/DMC4-E MDECT system or a Mixed MDECT system managed by an OTM must have SNMP firmware.

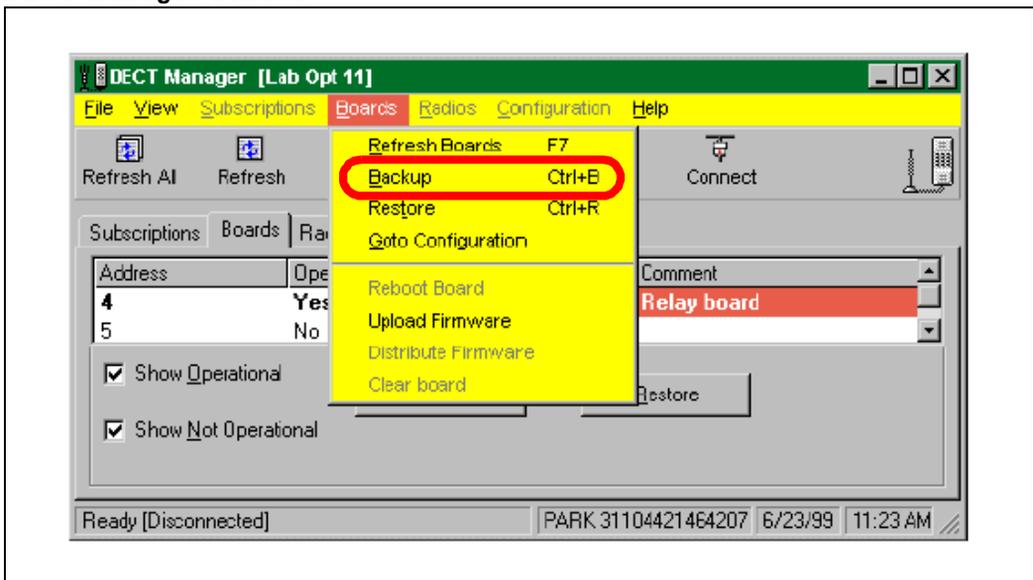
A Mixed MDECT system must be managed by an OTM. In a Mixed MDECT system a DMC8/DMC8-E must be the Relay card.

In a DMC4/DMC4-E MDECT system or a Mixed MDECT system, managed by an OTM, the DMCs must run 451001xx.dwl software, and the DMC8s/DMC8-Es must run 470001xx.dwl software.

Connecting an OTM to a DMC4 Relay card using an Ethernet connection is not supported. You can only use a V.24 connection.

## Backup the DMC4 data with Windows Manager

Figure 96:  
DECT Manager window



Complete the following steps:

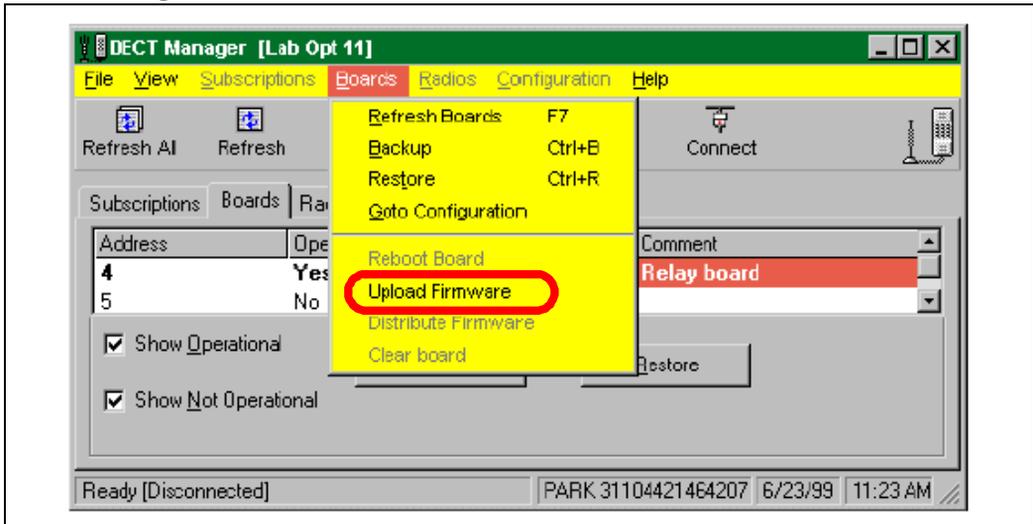
**Table 101: Backup the DMC data with Windows Manager**

<b>Step</b>	<b>Action</b>
<b>1</b>	Launch the Windows Manager program.
	Double click on the <b>DECT-Manager</b> icon.
<b>2</b>	Select the Companion system.
	Highlight the system and click on the <b>OK</b> button.
<b>3</b>	Select the Boards tab.
	Place the cursor on the tab and click.
<b>4</b>	Select all DMC4s.
	Highlight all addresses.
<b>5</b>	Backup the DMC4 data.
	Click on the <b>Backup</b> button.
<b>6</b>	Close the connection to the relay card.
	From the toolbar, click on the <b>Connect</b> icon.



## Upload OTM supporting firmware to the DMC4 Relay card

Figure 97:  
DECT Manager window



Complete the following steps:

Table 102: Upload OTM supporting firmware to the DMC4 Relay card

Step	Action
1	Load the OTM supporting 451001xx.dwl firmware file on your Windows Manager PC.
2	Select the Companion system. Highlight the system and click on the <b>OK</b> button.
3	Select the Boards tab. Place the cursor on the tab and click.

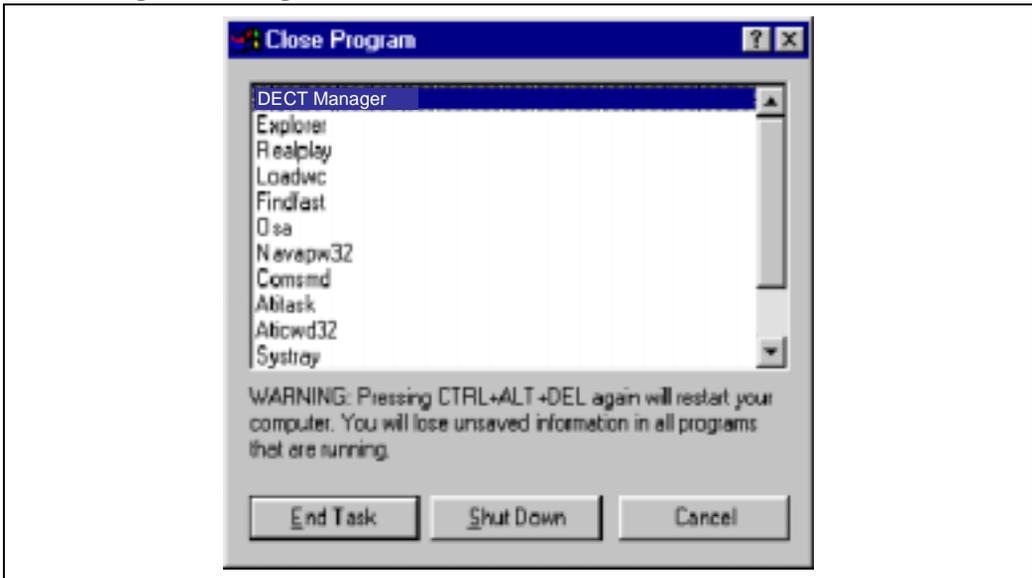
**Table 102: Upload OTM supporting firmware to the DMC4 Relay card**

Step	Action
4	Select the Relay DMC4.
	Highlight the address.
5	Upload the 451001xx.dwl firmware file to the Relay DMC.
	From the <b>Boards</b> pull-down menu, click on <b>Upload firmware</b> .



## Close the Windows Manager

**Figure 98:**  
**Close Program dialog**



Complete the following steps:

**Table 103: Close the Windows Manager**

<b>Step</b>	<b>Action</b>
1	Open the Close Program dialog.
	Press the <b>Ctrl + Alt + Delete</b> keys.
1	Disable the Windows Manager.
	Select <b>DECT Manager</b> and press the <b>End Task</b> button.



## Change the DMC4 Relay card default IP address

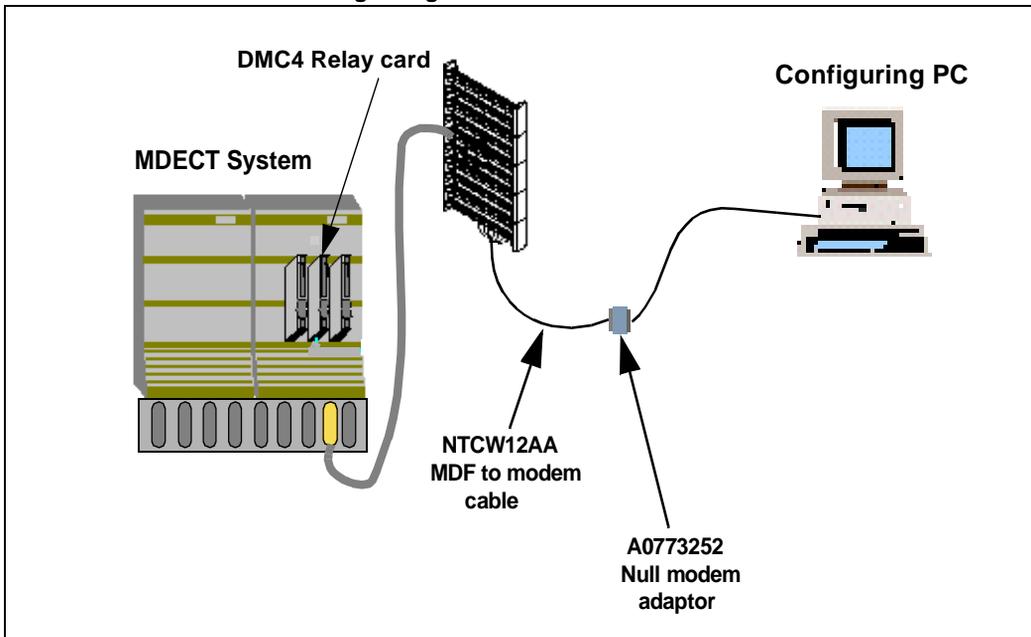
Connect the DMC4 Relay card to a configuring PC



**CAUTION:** Service interruption

You must change the DMC4 address to conform to your network IP address plan.

**Figure 99:**  
NTCW12AA cable to Configuring PC connections





**NOTE**

The configuring PC can be the OTM server or another PC.

If your configuring PC is the OTM server, the Configuring PC shown in [Figure 99](#) will be the OTM Server shown in [Figure 101](#) on [page 195](#).

**Table 104: Connect the DMC4 relay card to a configuring PC**

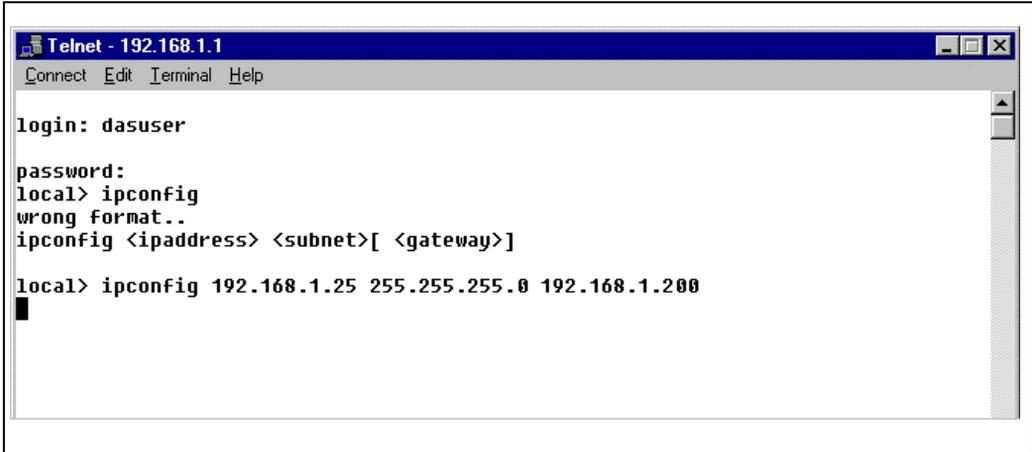
Step	Action
1	Connect the NTCW12AA cable to the Configuring PC.
	Insert the NTCW12AA cable into the A0773252 Null Modem Adaptor and connect to the Configuring PC.

A red octagonal sign with a white border and the word "END" written in white capital letters in the center.

## Reset the DMC4 Relay card to your IP address

You must change the Relay DMC4 IP address to conform to your server network IP address plan.

**Figure 100:**  
**Telnet 192.168.1.**



Complete the following steps:

**Table 105: Reset the Relay DMC4 IP address to your LAN IP address**

Step	Action
1	Open the Telnet dialog.
	Click on Start>Accessories>Telnet.

**Table 105: Reset the Relay DMC4 IP address to your LAN IP address**

Step	Action
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 Relay DMC4 card address.
	<p>Enter the following command:  <b>ipconfig xxx.xxx.xxx.xxx yyy.yyy.yyy.zzz.zzz.zzz.zzz</b>  <b>xxx.xxx.xxx.xxx</b> = new IP address of the Relay DMC4 card.  <b>yyy.yyy.yyy.yyy</b> = subnet mask, usually <b>255.255.255.0</b>  <b>zzz.zzz.zzz.zzz</b> = IP address if this is the gateway for your network.</p> <p><b>Note:</b> <b>zzz.zzz.zzz.zzz</b> should be set to the IP address of the OTM server Ethernet interface. If you have two Ethernet interfaces on the OTM server, <b>zzz.zzz.zzz.zzz</b> should be set to the IP address of the interface which is on the same network as the DMC4 Relay card.</p>



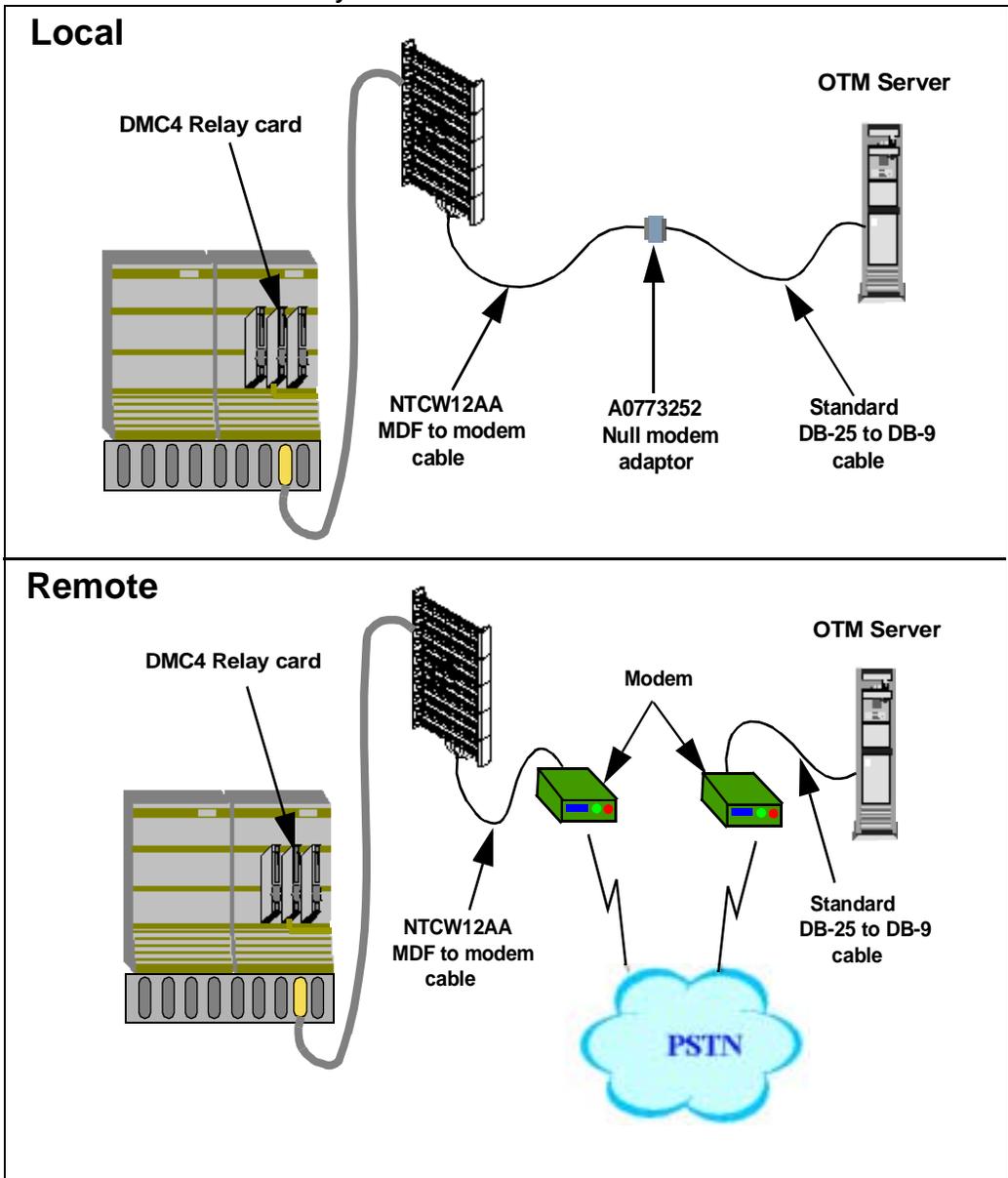
## Connect the DMC4 Relay to the OTM server



**NOTE**

You must connect the OTM server to a DMC4 Relay card using a V.24 connection. Connecting an OTM to a DMC4 Relay card using an Ethernet connection is not supported.

**Figure 101:**  
**OTM Server to DMC4 relay connections local and remote**



Complete the following steps:

**Table 106: Connect the DMC4 Relay to the OTM server**

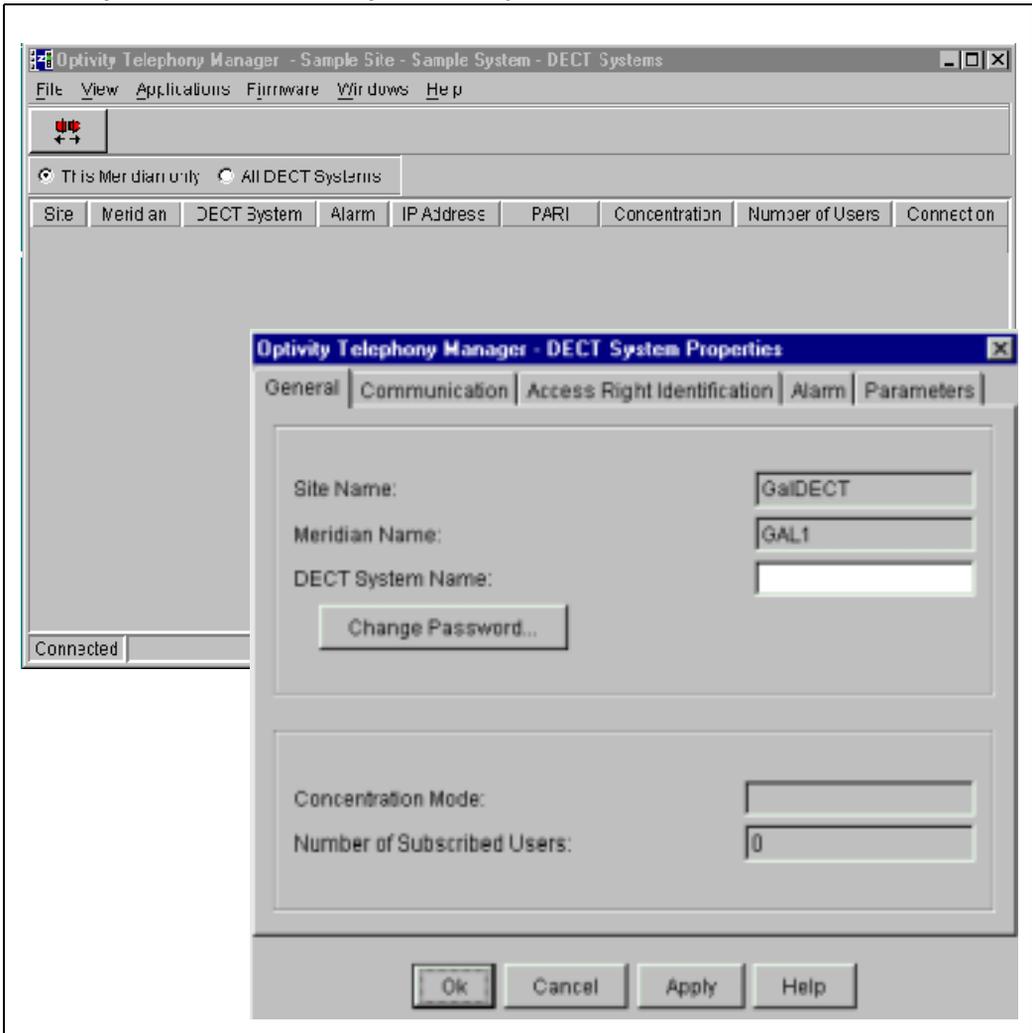
Step	Action
1	Connect the OTM server to the DMC4 Relay card.
	Refer to <a href="#">"Add a V.24 serial connection"</a> on page 139.



# Add your MDECT system

## Add General System Properties

**Figure 102:**  
**DECT Systems and DECT System Properties**



Complete the following steps:

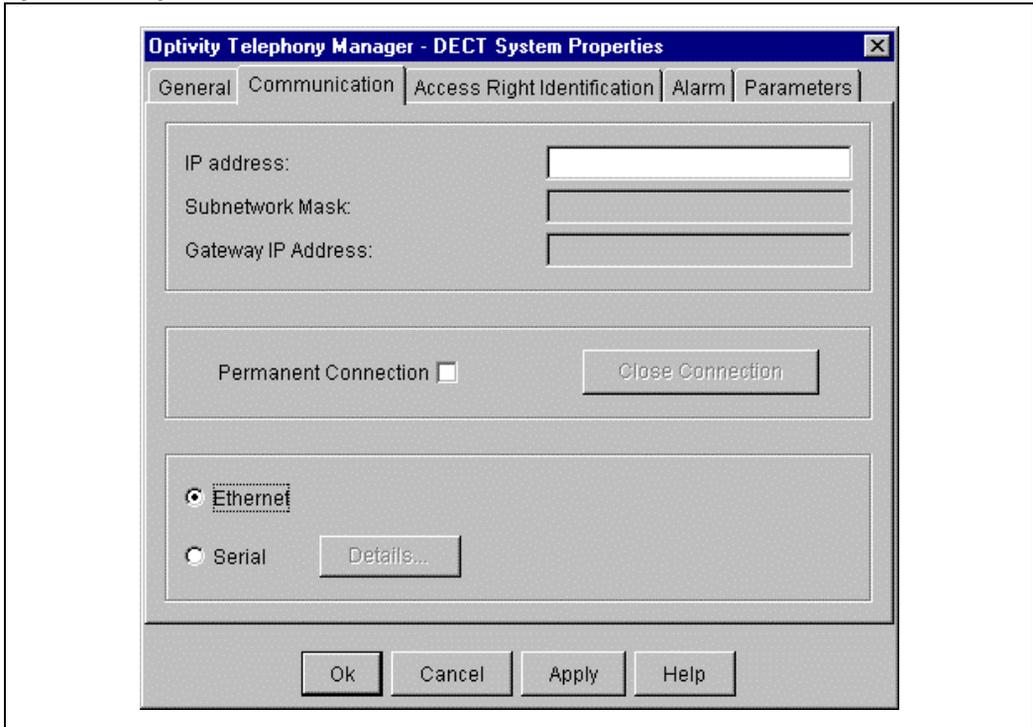
**Table 107: Add your MDECT system**

<b>Step</b>	<b>Action</b>
<b>1</b>	Open the DECT System Properties dialog.
	Pull down <b>File&gt;Add</b> .
<b>2</b>	Enter the MDECT system name.
	Type your system name in the <b>DECT System Name</b> box.
	Accept the changes.
	Click on the <b>Apply</b> button.



## Set the MDECT system IP address to match the DMC4 Relay card

**Figure 103:**  
**System Properties - Communication**



Complete the following steps:

**Table 108: Set your IP address of the DMC4 Relay card in the manager**

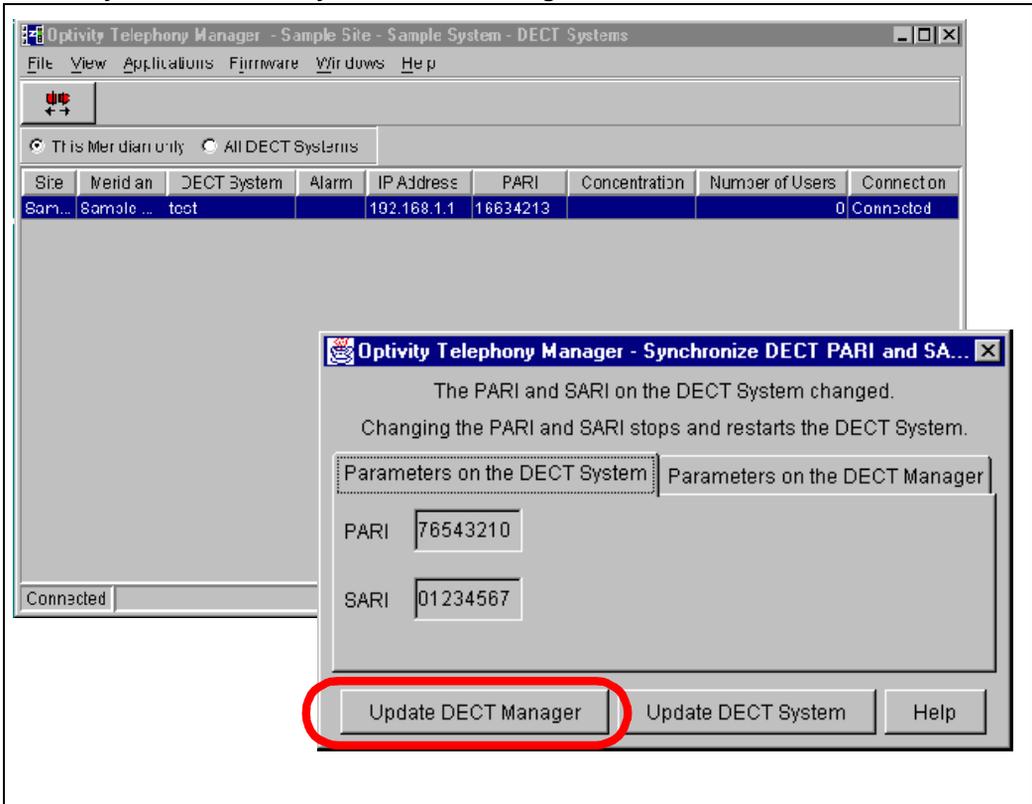
Step	Action
1	Open the Communications dialog.
	Click on the <b>Communications</b> tab.
2	Enter the IP address.
	Type the IP address you entered in <a href="#">Table 105 on page 193</a> .
3	Select <b>Serial</b> .
	Click on <b>Serial</b> radio button, and go to <a href="#">"Add a V.24 serial connection" on page 139</a> .
4	Accept the changes.
	Click on the <b>OK</b> button. <b>Note:</b> When you click the OK button or Apply button at this point, the manager attempts to connect to the MDECT system to write the MIB2 system name.



## Synchronize data with the MDECT system

When your DECT manager connects to the MDECT system, synchronization occurs. You now have the opportunity to update the OTM database with the MDECT system data.

**Figure 104:**  
DECT Systems, and a synchronize dialog



Complete the following steps:

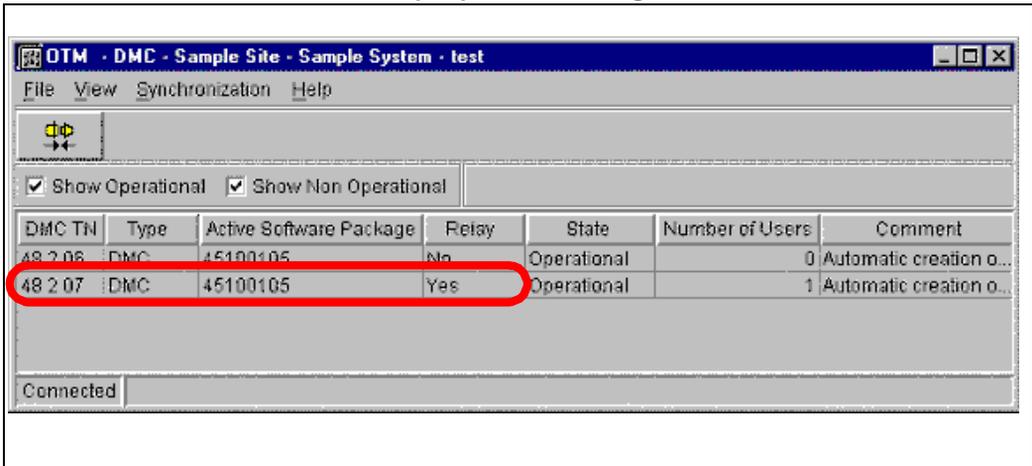
**Table 109: Synchronize data with the MDECT system**

<b>Step</b>	<b>Action</b>
<b>1</b>	If the toolbar icon is <b>red</b> your already connected to the MDECT system. Disconnect from the MDECT system.
	Double click on the icon, or use <b>File&gt;Disonnect</b> . Go to step 3.
<b>2</b>	If the toolbar icon is <b>green</b> .
	Go to the next step.
<b>3</b>	Re-connect to the MDECT system.
	Double click on the red icon, or use <b>File&gt;Connect</b> .
<b>4</b>	Store the MDECT system data in the OTM Manager database.
	Click on the <b>Update DECT Manager</b> button on all synchronization dialogs.



## Confirm the active software package on the DMC4 Relay card

Figure 105:  
DMC window and DECT Board properties dialog



Complete the following steps:

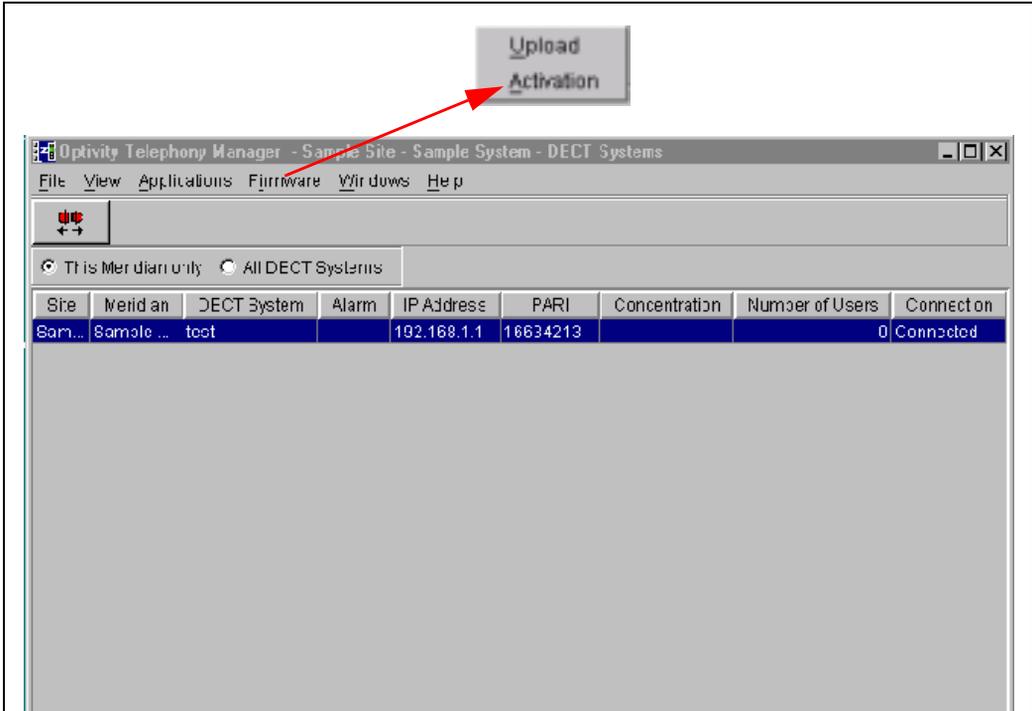
Table 110: Confirm the active software package on the DMC4 Relay card

Step	Action
1	Examine the Active Software Package on the DMC4 relay in the DMC window list.
	Active Software Package must be 451001xx.dwl firmware, the same as you loaded on <a href="#">page 188</a> .
2	Close the DMC window.
	Click on the close box.



## Activate the firmware on all DMC4s

Figure 106:  
DECT Systems window



Complete the following steps:

Table 111: Activate the firmware on all DMC4s

Step	Action
1	Activate the 451001xx.dwl firmware the same as you loaded on <a href="#">page 188</a> to all DMC4s.
	From the <b>Firmware</b> pull-down menu, click on <b>Activate</b> .



## Monitor the firmware activation

**Figure 107:**  
**DMC window**

The screenshot shows a software window titled "DTM · DMC · Sample Site · Sample System · test". It has a menu bar with "File", "View", "Synchronization", and "Help". Below the menu bar are two checked checkboxes: "Show Operational" and "Show Non Operational". A table is displayed with the following data:

DMC TN	Type	Active Software Package	Relay	State	Number of Users	Comment
48 2 06	DMC	45100105	No	Operational	0	Automatic creation o...
48 2 07	DMC	45100105	Yes	Operational	1	Automatic creation o...

At the bottom left of the window, there is a "Connected" status indicator.

Complete the following steps:

**Table 112: Monitor the firmware activation**

Step	Action
1	Examine the Active Software Package on the DMC4 relay in the DMC window list.
	Active Software Package must be 451001xx.dwl firmware on all DMCs the same as you loaded on <a href="#">page 188</a> .





# Meridian/Succession Companion DECT

## Installation Guide

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