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CallPilot

Installation and Configuration

Part 2: 703t Server Hardware Installation

Product release 2.02

Standard 1.01

November 2005

NORTEL
NETWORKS™

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CallPilot

Installation and Configuration

Part 2: 703t Server Hardware Installation

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November 2005

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October 2003

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Chapter 1

703t server description

In this chapter

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Server features

Introduction

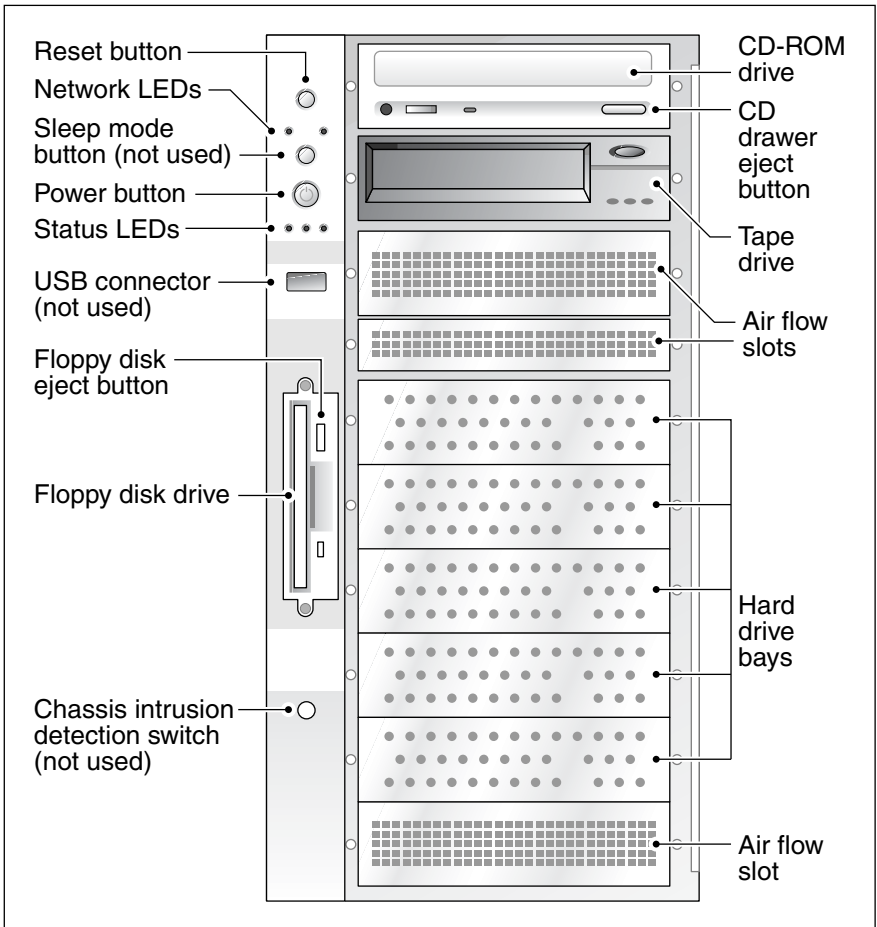
This section provides a general overview of the 703t server.

Server dimensions

Height	chassis only: 42 cm (16.75 in.) with chassis feet: 44 cm (17.5 in.)
Width	chassis only: 21.5 cm (8.6 in.) with chassis feet: 32 cm (12.7 in.)
Depth (distance from front to back)	65 cm (26 in.)
Clearance	<ul style="list-style-type: none"> ■ front: 25 cm (10 in.) ■ rear: 12.5 cm (5 in.) ■ side: 7.5 cm (3 in.) <p>Note: Additional side clearance is required for service.</p> <ul style="list-style-type: none"> ■ top: 7.5 cm (3 in.)
Weight of fully loaded system with	approximately 22 kg (46 lb)
<ul style="list-style-type: none"> ■ two SCSI hard drives ■ six populated boards ■ CD-ROM drive ■ floppy drive ■ tape drive 	

Front panel features

The following diagram shows the 703t server's front panel features:



G101759

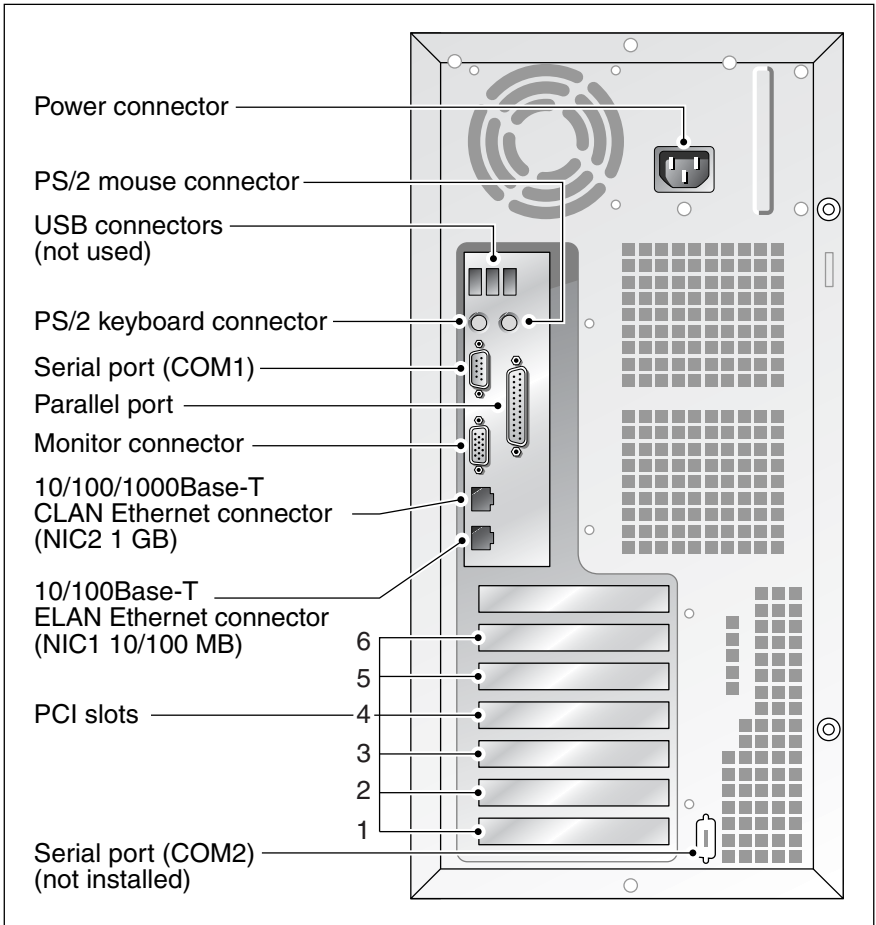
The table below describes the parts that are identified in the preceding diagram:

Part	Function
Reset button	Triggers a hardware (cold) reset. Do not use this button to perform a server restart. Restart the server as described in “Restarting the server” in <i>CallPilot Installation and Configuration Part 1: Installation and Maintenance Overview</i> (555-7101-210).
Network controller LEDs (green)	Left: 10/100Base-T controller LED (NIC1 10/100 MB: ELAN for Meridian 1/Succession 1000 connection) Right: 10/100/1000Base-T controller LED (NIC2 1 GB: CLAN for Customer LAN connection)
Sleep mode button	Not used
Power button	Turns the server’s power on or off.
Status LEDs	Indicate when the server is powered up and the disk drives are active. <ul style="list-style-type: none"> ■ Left: hard drive activity LED (not used) ■ Center: power/sleep LED (green) ■ Right: status LED (bi-color) indicates whether the server is functioning properly, or whether a hardware event has occurred.
USB connector	For future use
Floppy disk eject button	Ejects the floppy disk.
Floppy drive	Drive for 3-1/2 inch diskettes.

Part	Function
IDE CD-ROM drive (5.25 in.)	Enables you to use the CallPilot software and documentation CD-ROMs.
CD drive eject button	Opens the CD-ROM drawer. Push the button again to close the drawer.
Backup tape drive	Allows backup of hard drive data.
Hard drive 1	10,000 rpm hard drive
Hard drive 2	10,000 rpm hard drive
Drive bay	Vacant
Drive bay	Vacant
Drive bay	Vacant
Air flow slot	Must remain empty for proper system cooling.

Rear panel diagram

The following diagram shows the 703t server's rear panel features:



G101760

Note: For more information, see “Slot assignments” on page 19.

The table below describes the parts that are identified in the preceding diagram:

Part	Color
AC power supply connector (450 W non hot-swap power supply)	Not applicable
USB connectors	Not applicable
PS/2 keyboard connector	Purple
PS/2 mouse connector	Green
COM1 serial port connector (9-pin)	Teal
Parallel port connector (25-pin)	Pink
Monitor connector (15-pin)	Blue
10/100/1000Base-T CLAN network connector for Customer LAN connection (NIC2 1 GB)	Not applicable
Note: For more information, see “LAN connectivity” on page 26.	
10/100Base-T ELAN network connector for Meridian 1/Succession 1000 connection (NIC1 10/100 MB)	Not applicable
Note: For more information, see “LAN connectivity” on page 26.	
PCI slots (6)	Not applicable
<ul style="list-style-type: none"> ■ Four slots are 100 MHz 3.3 V 64-bit PCI slots. ■ Two slots are 33 MHz 5 V 32-bit PCI slots. 	
Note: For more information, see “Slot assignments” on page 19.	
COM2 serial port connector slot (not installed)	Teal

Environmental specifications

Environmental condition	Specification
Operating temperature	10°C to 35°C (50°F to 95°F) Maximum rate of change must not exceed 10°C (50°F) per hour.
Non-operating (storage) temperature	-40°C to 70°C (-40°F to 158°F)
Non-operating humidity	95%, non-condensing at 30°C (86°F)
Altitude	1829 m (6000 ft)
Electrostatic discharge	15 kV or more
Acoustic noise	50 dBA in a typical office ambient temperature (18°C to 25°C [64.4°F to 77°F])
Operating shock	No errors with a half sine wave shock of 2G (with 1 millisecond duration)
Handling drop	Operational after a free fall from 45 cm to 60 cm (18 in. to 24 in.) (depending on weight)

Slot assignments

Introduction

The slot assignment tables show

- the physical location of boards inside the server, relative to other boards
- the order in which boards are installed (for example, board #1, 2, 3, and so on)
- how the boards are represented in CallPilot Manager applications (that is, on the Maintenance Administration page)
- the maximum capacity for each switch connectivity

Note: Your server may vary depending on what was ordered from Nortel Networks; therefore, your server may not have all of the slots populated.

Slot definition and numbering

In the following table, the term “slot” refers to the available slot openings in the chassis, not the PCI connectors inside the server.

The slots are numbered from the bottom of the server to the top. Slot 1 is the bottom slot in the chassis when the chassis is standing upright.

Slot number	CallPilot-assigned board label^a	Description
Slot 7	Not used	Not used
PCI slot 6 (full length)	BRD06	RAID card
PCI slot 5 (full length)	BRD05	Not used
PCI slot 4 (full length)	BRD04	MPB96 board
PCI slot 3 (full length)	BRD03	Not used
PCI slot 2 (full length)	BRD02	Not used
PCI slot 1 (full length)	BRD01	Not used

a. In CallPilot Manager applications, the CallPilot-assigned board label may appear. This label corresponds to the slot number. For example, BRD01 refers to the board in slot 1.

IRQ mapping table

The following table lists the assignments for each Interrupt Request (IRQ). You do not need this information for installation, but it may be useful for troubleshooting.

Interrupt	I/O APIC level	Slot or device
INTR	INT0	Processor interrupt
IRQ0	INT2	Timer (from PIIX4)
IRQ1	INT1	PS/2 keyboard controller
IRQ2	Not applicable	Internal/reserved Note: IRQ2 is actually shared with IRQ9 as a cascade interrupt to support IRQs 8–15.
IRQ3	INT3	Onboard serial port B (COM2)
IRQ4	INT4	Onboard serial port A (COM1)
IRQ5	INT5	Available
IRQ6	INT6	Floppy disk drive controller
IRQ7	INT7	Parallel port 1(LPT1)
IRQ8	INT8	Real Time Clock
IRQ9	INT9	Available
IRQ10	INT10	Available
IRQ11	INT11	Available
IRQ12	INT12	PS/2 mouse
IRQ13	INT13	Internal/reserved

Interrupt	I/O APIC level	Slot or device
IRQ14	INT14	IDE controller
IRQ15	INT15	Available

Network connectivity

Introduction

This section describes how the 703t server can be integrated into your network. The integration depends on the type of switch you are using.

Refer to:

- “Sample network setup: Meridian 1” on page 24
- “Sample network setup: Succession 1000” on page 25

ATTENTION

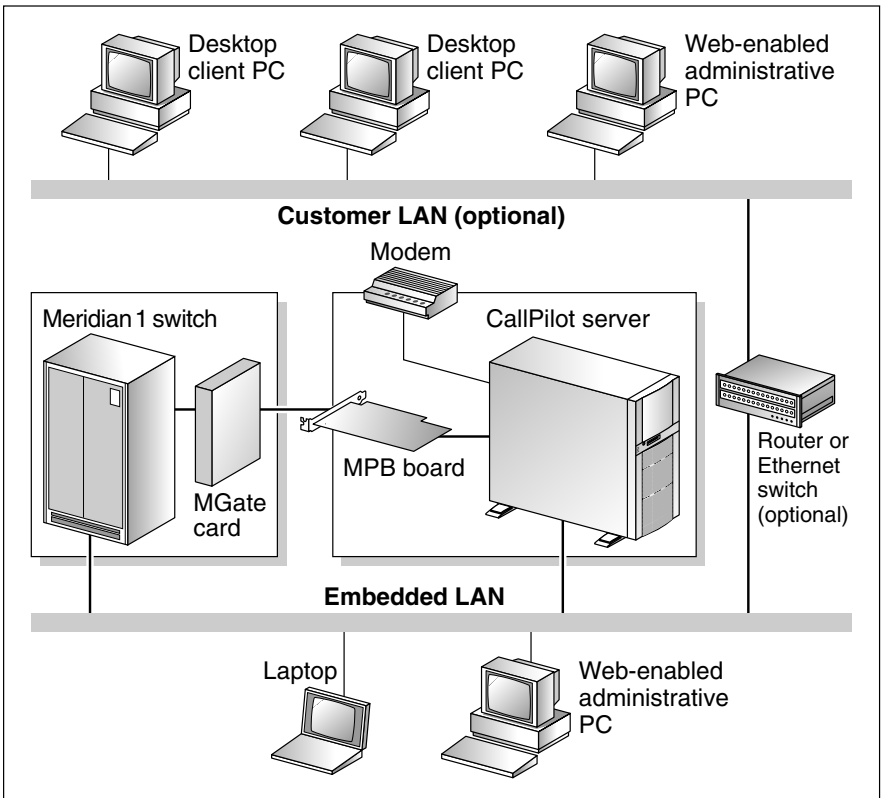
To secure the CallPilot server from unauthorized access, ensure that the CallPilot network is inside your organization’s firewall.

Sample network setup: Meridian 1

The Meridian 1 switch can be one of the following:

- Option 11C or Option 11C Mini using fiber connections
- Option 51C
- Option 61C
- Options 81 and 81C

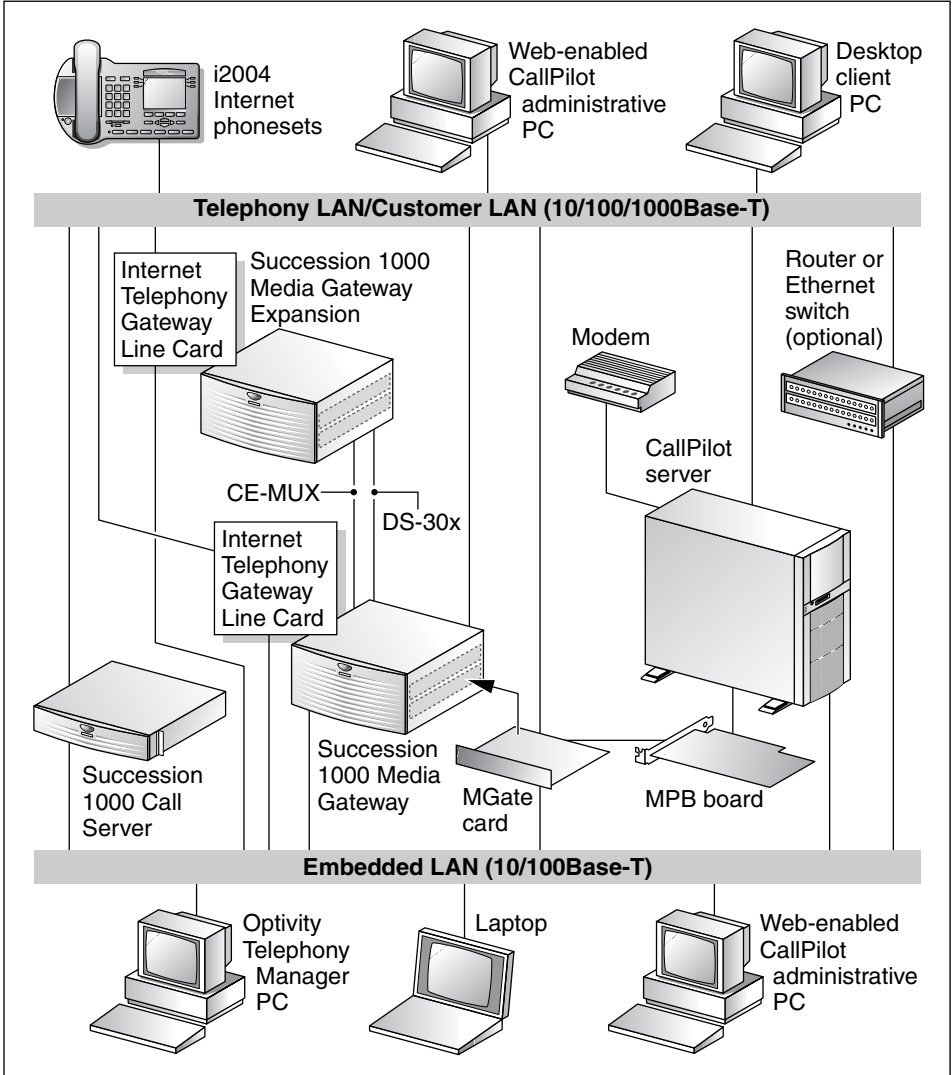
The following diagram shows a CallPilot 703t server network setup with a Meridian 1 switch.



G101626

Sample network setup: Succession 1000

The following diagram shows a CallPilot 703t server network setup with a Succession 1000 system:



G101636

In the previous diagram, the telephony LAN (TLAN) provides IP connectivity between the Succession 1000 system and the i2004 Internet phonesets. The connection between the Call Server and Media Gateway can be point-to-point, or it can be through the LAN, if the system is installed in a distributed data network.

For information about the Succession 1000 system and i2004 Internet phoneset bandwidth and network requirements, refer to the *Succession 1000 Planning and Installation Guide* (NTP 553-3023-210).

Switch connectivity

For more details about how the 703t server and switch connection is established, refer to the switch and server setup document for your switch:

- *CallPilot Installation and Configuration Part 3: Succession 1000 System and CallPilot Server Configuration* (555-7101-510)
- *CallPilot Installation and Configuration Part 3: Meridian 1 and CallPilot Server Configuration* (555-7101-222)

LAN connectivity

The 703t server contains two Ethernet controllers on the motherboard that provide the following:

- 10/100Base-T Ethernet network connectivity to the ELAN
For information about the ELAN's purpose and requirements, see "About the ELAN" in *CallPilot Installation and Configuration Part 1: Installation and Maintenance Overview* (555-7101-210).
- 10/100/1000Base-T Ethernet connectivity to the CLAN
The CLAN is an optional connection that provides data connectivity among desktop and web messaging clients, administrative PCs, and the CallPilot server.

See "Rear panel diagram" on page 16 to identify the location of network interface connectors.

Network requirements

Appropriate networking equipment must be available for both the CLAN and ELAN.

The CLAN and ELAN must be properly configured for correct CallPilot operation. To ensure correct configuration, Nortel Networks recommends that you consult a network specialist.

ATTENTION

For important considerations about using the ELAN in your network, see “About the ELAN” in *CallPilot Installation and Configuration Part 1: Installation and Maintenance Overview* (555-7101-210).

Remote access connectivity

The RS-232 COM1 connector on the rear of the 703t server provides the connection to an external dial-up modem. The modem allows administrators and technical support personnel to administer the 703t server from a remote location.

pcAnywhere is used to establish a remote access connection to the server.

Supported peripheral devices

Introduction

This section identifies external devices that are supported by the 703t server. The following table describes the supported peripheral devices:

Device	Description
Modem	<p>A 56 Kbps external modem (NTRH9078 in North America only) provides remote access to the 703t server. The modem connects to the RS-232 COM1 connector on the rear of the server.</p> <p>Since the modem is an external device, it requires its own AC power source referenced to the same ground as the 703t server and the switch to which it is connected.</p>
Ethernet hub	<p>A 10Base-T Ethernet hub provides the ELAN connection between the 703t server and the Meridian 1 switch or Succession 1000 system. The customer can supply a hub from third-party vendors or purchase the 3Com 10Base-T Ethernet hub (NTRH9017) from Nortel Networks.</p> <p>Since the hub is an external device, it requires an AC power source referenced to the same ground as the 703t server and the switch to which it is connected.</p> <p>ATTENTION</p> <p>If a hub is required or used, it must be located at least 6 m (20 ft) away from the 703t server. This ensures compliance with EMC requirements.</p>

Device	Description
Monitor, keyboard, and mouse	<ul style="list-style-type: none"><li>■ 15-in. monitor: NTRH9011 <p>Since the monitor is an external device, it requires its own AC power source referenced to the same ground as the 703t server and the switch to which it is connected.</p> <ul style="list-style-type: none"><li>■ Keyboard: NTRH9013<li>■ Mouse: NTRH9014

Chapter 2

Preinstallation requirements

In this chapter

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Inspecting the server interior	40
Replacing the side cover	42
Installing the chassis feet	44

Installation overview

Introduction

This section provides an overview of the steps required to install the 703t server and peripheral devices. For detailed instructions, see Chapter 3, “Installing the server and connecting the peripheral devices.”

When you are finished, continue with the switch and server setup as described in the document for your switch:

- *CallPilot Installation and Configuration Part 3: Succession 1000 System and CallPilot Server Configuration (555-7101-510)*
- *CallPilot Installation and Configuration Part 3: Meridian 1 and CallPilot Server Configuration (555-7101-222)*

Installation checklist

Step	Description	Check
1	Ensure that you have reviewed the “Installing CallPilot” section in <i>CallPilot Installation and Configuration Part 1: Installation and Maintenance Overview (555-7101-210)</i> , and completed stage 1 of the “Installation checklist.”	<input type="checkbox"/>
2	Unpack the server, and ensure you have all the items you need (see page 35). Complete the following checklists that are provided in <i>CallPilot Installation and Configuration Part 1: Installation and Maintenance Overview (555-7101-210)</i> : <ul style="list-style-type: none"> ■ “CallPilot software media and documentation checklist” ■ “CallPilot server hardware checklist” 	<input type="checkbox"/>
3	Remove the server cover, and inspect the interior (see pages 37 and 40).	<input type="checkbox"/>

Step	Description	Check
4	Replace the server cover.	<input type="checkbox"/>
5	Place the 703t server in the chosen location (see page 48).	<input type="checkbox"/>
6	Set the DIP switches on the modem (see page 51).	<input type="checkbox"/>
7	<p>Connect the 703t server and devices as follows:</p> <ul style="list-style-type: none"> <li>■ Connect the monitor, keyboard, and mouse (see page 53). <input type="checkbox"/> <li>■ Connect the modem (see page 55). <input type="checkbox"/> <li>■ Connect the 703t server to the ELAN hub (see page 57). <input type="checkbox"/> <p>ATTENTION If a hub is required or used, it must be located at least 6 m (20 ft) away from the 703t server. This ensures compliance with EMC requirements.</p> <ul style="list-style-type: none"> <li>■ Connect the 703t server to the CLAN hub (optional); (see page 59). <input type="checkbox"/> <p>ATTENTION If a hub is required or used, it must be located at least 6 m (20 ft) away from the 703t server. This ensures compliance with EMC requirements.</p> <ul style="list-style-type: none"> <li>■ Install the software feature key adapter (see page 60). <input type="checkbox"/> <li>■ Connect the power cords for all devices, and then power them up (see page 62). <input type="checkbox"/> 	
8	Start the 703t server (see page 64).	<input type="checkbox"/>

Conventions for warnings

You may encounter the following types of warnings in this guide. Do not ignore them.



DANGER

Risk of electric shock

Warns you of an immediate electrical hazard, which, if not avoided, will result in shock, serious injury, or death.



WARNING

Risk of personal injury

Warns you of a situation in which you can be injured if instructions are not followed exactly as stated.



CAUTION

Risk of data loss or equipment damage

Alerts you to situations where data can be lost or damaged, equipment can be damaged, actions can result in service interruption, and productive time can be lost.

ATTENTION

Provides information that is essential to the completion of a task.

Unpacking the 703t server

Introduction

Follow this procedure to unpack the server and peripherals.



WARNING

Risk of personal injury

The 703t CallPilot server weighs approximately 22 kg (46 lb) as shipped from manufacturing. If necessary, and to prevent personal injury, ask someone to help you unpack and position the server.

To unpack the equipment

ATTENTION

As you unpack each item, check it off against the packing list, as well as against the following checklists provided in *CallPilot Installation and Configuration Part 1: Installation and Maintenance Overview* (555-7101-210):

- “CallPilot software media and documentation checklist”
- “CallPilot server hardware checklist”

- 1 Carefully open the cardboard carton containing the server.
- 2 Remove the server from the carton and set it on the floor.
- 3 Carefully open the cartons containing the monitor, keyboard, mouse, modem, and ELAN hub (if supplied), and set the peripherals aside.
- 4 Put all manuals, CD-ROMs, operating system disks, any disks for peripherals, and the Windows NT emergency repair disk in a safe place.

- 5 Save all packing materials and cartons in case you must return any equipment to the carrier.

What's next?

Remove the server cover so that you can inspect the interior of the server. See “Removing the side cover” on page 37.

Removing the side cover

Introduction

This section describes how to remove the server's side cover so that you can work with the interior components. The side cover is on the server's left side when the front of the server is facing you.

To remove the side panel



WARNING

Risk of personal injury

Be careful when you handle the sharp edges of the side panel and chassis to prevent personal injury.

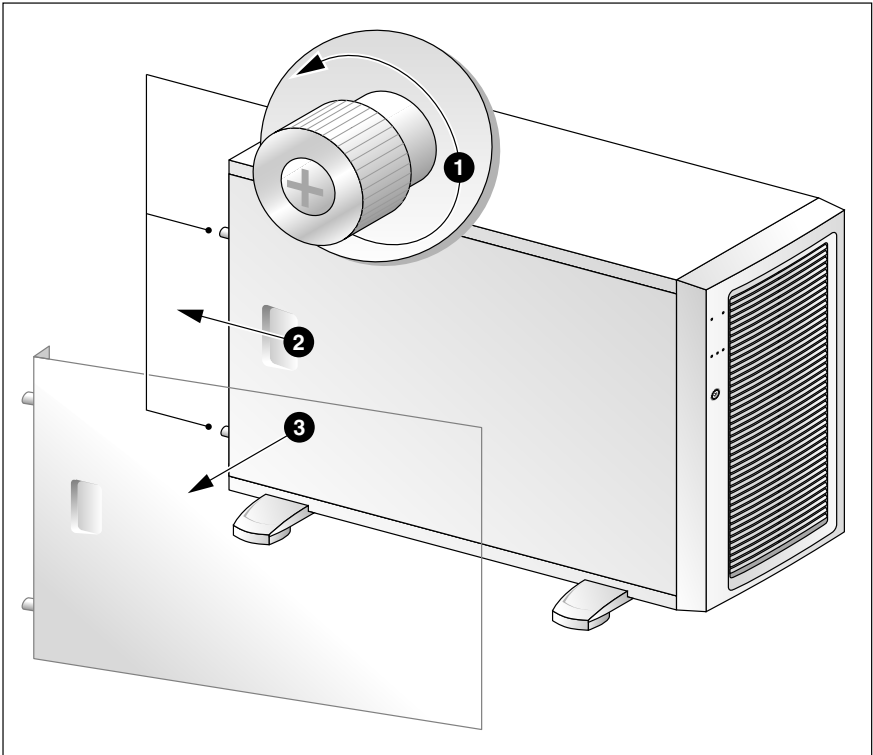


CAUTION

Risk of equipment damage

- Use an ESD wrist strap to protect static-sensitive components.
- Place the server on its side to prevent the server from accidentally falling over. This provides greater stability. If you attempt to work with the server in its standing position, it may tip over when you work with the interior components.

The following diagram shows how to remove the side panel. See the instructions for removal below.



G101761

- 1 Place the server on its side on your working surface.
- 2 Turn the two thumbscrews on the back of the server counter-clockwise to loosen them.
Note: The thumbscrews are not removable.
Note: If a removable screw is present, remove it. This screw secures the cover to the server during shipping.
- 3 Place your fingertips in the depression on the side cover, and then as you apply pressure, pull the cover approximately 2.5 cm (1 in.) away from the front of the server until it stops.

- 4 Use one hand to pull the top edge of the cover away from the server to disengage the top row of tabs on the cover from the notches in the chassis.
- 5 Use both hands to lift the cover upward to disengage the bottom row of tabs from the notches in the chassis.
- 6 Set the cover aside.
- 7 Continue with “Inspecting the server interior” on page 40.

Inspecting the server interior

Introduction

Before you install the server, you should perform a visual inspection for loose components, foreign matter, or shipping damage inside the server.



CAUTION

Risk of equipment damage

When working with interior components, use an ESD wrist strap to protect static-sensitive components.

To inspect the server interior

- 1 Ensure that all the cards are fully seated on the baseboard.
- 2 Check for any loose wires or foreign objects, such as loose screws, inside the chassis.
- 3 Review the slot locations (see “Rear panel diagram” on page 16).
- 4 Do one of the following:

IF	THEN
you observe any damage	contact your Nortel Networks technical support representative.
components have become loose	secure them. Then replace the server cover and proceed with the hardware installation. Refer to the procedures in <i>CallPilot Installation and Configuration Part 5: 703t Server Maintenance and Diagnostics</i> (555-7101-227).

IF

you are satisfied that the 703t server has arrived at your site undamaged

THEN

replace the server cover.
For instructions, see “Replacing the side cover” on page 42.

Replacing the side cover

Introduction

When you are satisfied that the server was not damaged during shipment, reinstall the side cover.

To replace the side cover



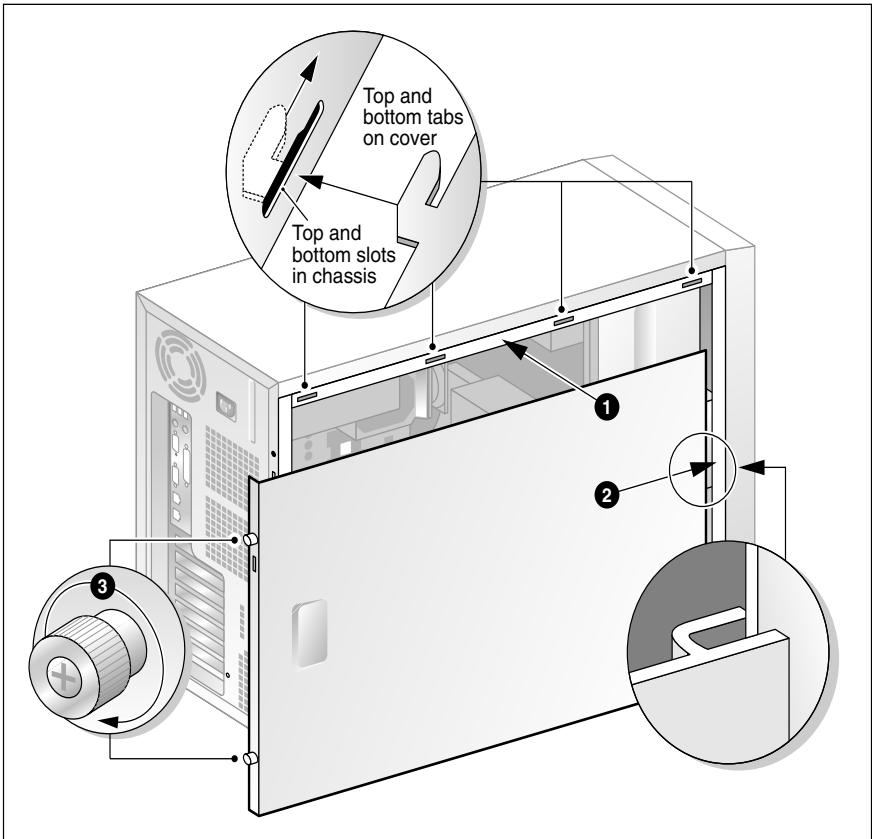
CAUTION

Risk of equipment damage

Ensure that there are no tools or loose parts inside the server chassis before replacing the side cover.

- 1 Align the right edge of the server's side cover with the inside ledge at the front of the server.
- 2 Ensure that the cover lays flat along the side of the server.
- 3 Insert the tabs along the top and bottom edges of the server's cover inside the slots along the top and bottom of the server.
- 4 Push the cover towards the front of the server until the tabs firmly engage in the chassis.
Note: When correctly engaged, the cover clicks into place.
- 5 Tighten the two thumbscrews on the back of the server.

The following diagram shows how to: 1) align the tabs, 2) engage the cover and 3) tighten the thumbscrews.



G101762

What's next?

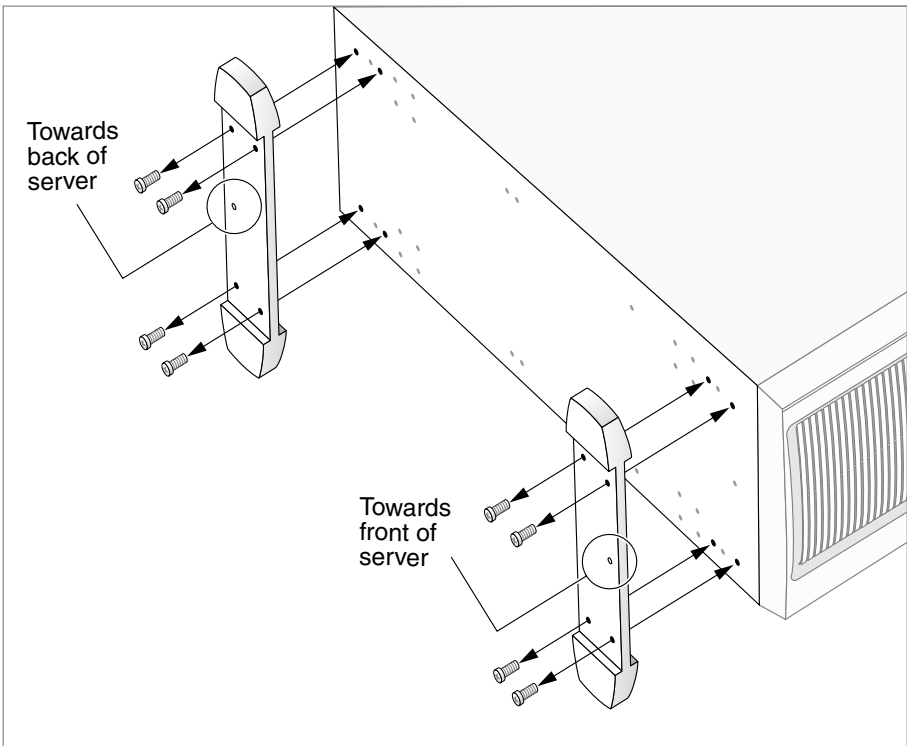
If you want to install the chassis feet on the bottom of the server, continue with “Installing the chassis feet” on page 44. Otherwise, continue with the hardware installation. For more information, see “Installation checklist” on page 32.

Installing the chassis feet

Introduction

You can install feet on the bottom of the server. The feet stabilize the server and will help prevent the server from accidentally falling over on its side.

To install the chassis feet



G101782

- 1 Ensure that the server is laying on its side, supported to give the server bottom four to five inches clearance above the work surface.
- 2 Attach the feet as shown in the preceding diagram.

Use four screws to attach each foot to the chassis. The holes in the feet line up with only one set of holes in the chassis, as follows:

- front foot: The middle hole is towards the front of the chassis.
- back foot: The middle hole is towards the back of the chassis.

- 3 Place the server on its feet.

What's next?

Continue with the hardware installation. For more information, see “Installation checklist” on page 32.

Chapter 3

Installing the server and connecting the peripheral devices

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Installing the server

Introduction

Before you install the 703t server, ensure that the chosen location meets the requirements identified on the “Site inspection checklist” provided in *CallPilot Installation and Configuration Part 1: Installation and Maintenance Overview* (555-7101-210).

To install the server

- 1 Place the 703t server in its chosen location.

Note: The server must be placed within 20 m (60 feet) of the Meridian 1 switch or Succession 1000 system.

Note: The DS30X cable that connects MPB96 boards to MGate cards is 20 m (60 feet) long. This allows the server to be placed in a different room from the Meridian 1 switch or Succession 1000 system.

- 2 Connect peripheral devices as described in the remainder of this chapter.

Preparing the modem

Introduction

You require a modem to support remote dial-up access to the CallPilot server. The modem also enables Nortel Networks technical support to connect to your CallPilot server for troubleshooting purposes. Nortel Networks connects to your server only when you request technical assistance.

Required equipment

To install the modem, you need the following equipment:

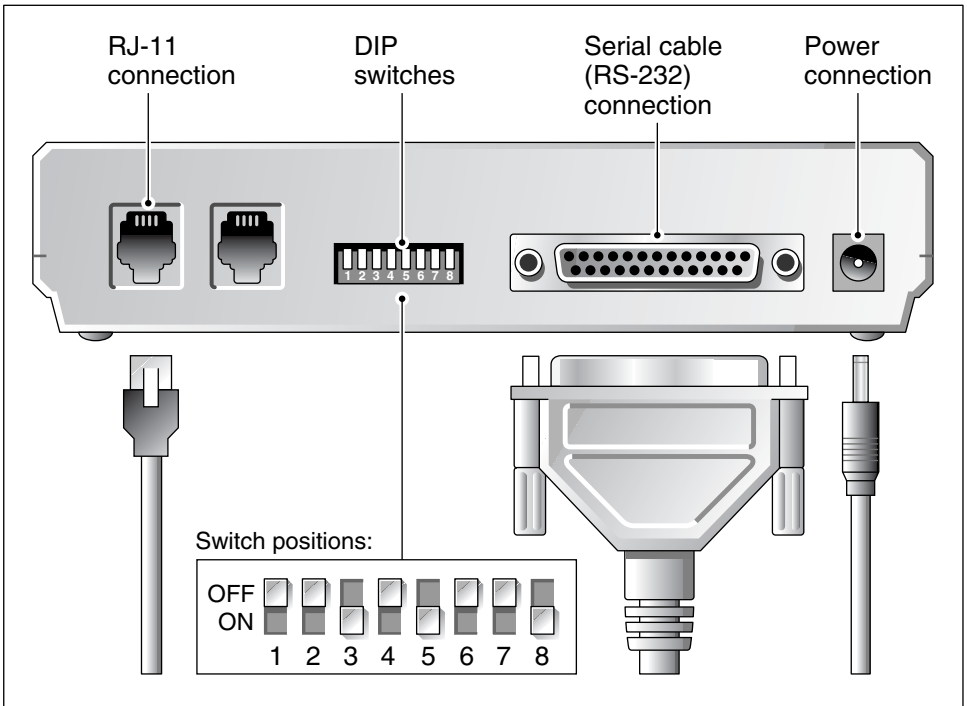
- an analog external modem that includes
 - an RJ-11 analog phone cord
 - a power adapter cord
 - US Robotics 56 Kbps modem (NTRH9078) (North America only)
 - a 25-pin male to 9-pin female shielded serial cable for your modem (A0841984)
- an analog line jack
- tweezers, or a screwdriver small enough to use to adjust DIP switches

Modem DIP switches

Set the modem DIP switches before you connect the modem to the CallPilot server.

Note: This section applies only to the US Robotics 33.6 or 56 Kbps external Sportster modem. If your modem is different, refer to the documentation for your modem.

The following diagram shows the key components of the external modem, including the location and required settings of the DIP switches:



G101445

To set the modem DIP switches

Use a pair of tweezers or a small screwdriver to set the DIP switches as described in the “Change to” column of the following table:

Note: ON is down. OFF is up.

DIP switch	Default setting	Change to	Function
1	OFF	OFF	Data Terminal Ready (DTR) override <ul style="list-style-type: none"> ■ OFF: Normal DTR operations. (The computer must provide a DTR signal for the modem to accept commands. If DTR is dropped, the call is terminated.) ■ ON: The modem ignores DTR (override).
2	OFF	OFF	Verbal/numeric result codes <ul style="list-style-type: none"> ■ OFF: Verbal (word) results. ■ ON: Numeric results.
3	ON	ON	Result code display <ul style="list-style-type: none"> ■ OFF: Suppresses result codes. ■ ON: Enables result codes.
4	OFF	OFF	Command mode local echo suppression <ul style="list-style-type: none"> ■ OFF: Displays keyboard commands. ■ ON: Suppresses echo.
5	ON	ON	Auto answer suppression <ul style="list-style-type: none"> ■ OFF: The modem answers on the first ring or later, as specified in user-defined nonvolatile memory (NVRAM). ■ ON: Disables auto answer.

DIP switch	Default setting	Change to	Function
6	OFF	OFF	Carrier Detect (CD) override <ul style="list-style-type: none">■ OFF: The modem sends a CD signal when it connects with another modem; it drops the CD on disconnect.■ ON: CD is always ON (override).
7	OFF	OFF	Power-on and ATZ reset software defaults <ul style="list-style-type: none">■ OFF: Loads Y or Y1 configuration from NVRAM.■ ON: Loads &F0-Generic template from read-only memory (ROM).
8	ON	ON	AT command set recognition <ul style="list-style-type: none">■ OFF: Disables command recognition (dumb mode).■ ON: Enables recognition (smart mode).

What's next?

Continue with “Connecting peripherals to the server” on page 53.

Connecting peripherals to the server

Introduction

This section describes how to connect the monitor, keyboard, mouse, and modem to the server.

Rear panel

The peripheral device connection panel at the back of the server provides a legend that shows the symbol for each peripheral device and which connector to use.

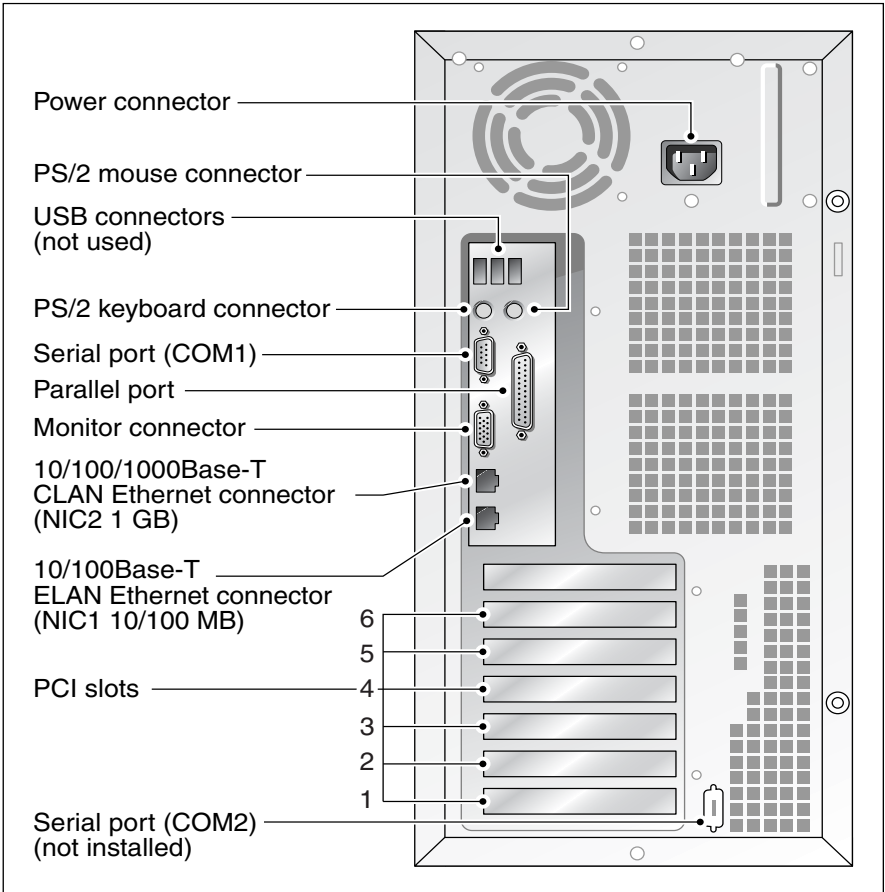


CAUTION

Risk of system failure

You can install or use only Nortel Networks-approved peripheral devices on your server. Installation or use of unapproved peripheral devices can result in system failure.

The diagram below shows the connectors for the power cord and the peripheral devices on the 703t server.



G101760

To connect the mouse, keyboard, and monitor to the server

- 1 Place the monitor, keyboard, and mouse in the same location as the server.
- 2 Plug the keyboard and mouse into the appropriate PS/2 connectors on the chassis rear panel. See the diagram on page 54.
- 3 Plug in the monitor connector. Tighten the screws on the connector.
- 4 Connect the power cord to the monitor, and plug the other end into a wall receptacle or power bar.
- 5 Turn on the monitor.

To connect the modem to the server

- 1 Ensure that the modem's AC power cord is not plugged in.
- 2 Connect the large 25-pin male connector to the back of the modem. Tighten the connector screws.
- 3 Connect the 9-pin female connector to COM1 port at the rear of the server. Tighten the connector screws.
- 4 Connect one end of the telephone cable to the modem RJ-11 jack labeled LINE.
- 5 Connect the other end of the telephone cable to the RJ-11 jack in the wall.
- 6 Connect the power cord to the modem, and plug the other end into a wall receptacle or power bar.
- 7 Turn on the modem.

What's next?

Continue with “Connecting the server to the ELAN” on page 57.

Connect the server to the ELAN and CLAN hubs (if applicable).

IF the server will	THEN
be connected to the ELAN	continue with page 57.
be connected only to a CLAN	continue with page 59.
not be connected to either the ELAN or CLAN	continue with installing the software feature key adapter (dongle). See page 60.

Connecting the server to the ELAN

Introduction

Connect the CallPilot server to the Meridian 1 switch or Succession 1000 system using the Embedded LAN (ELAN).

ATTENTION

For important considerations about using the ELAN in your network, see “About the ELAN” in *CallPilot Installation and Configuration Part 1: Installation and Maintenance Overview* (555-7101-210).

ATTENTION

If a hub is required or used, it must be located at least 6 m (20 ft) away from the 703t server. This ensures compliance with EMC requirements.

To connect the server to the ELAN

- 1 Locate the ELAN Ethernet connector on the back of the server.

Note: The ELAN connector is labeled as NIC1 10/100 MB. For the connector location, see the diagram on page 54.

- 2 Connect an RJ-45 network cable from the ELAN hub to the server's ELAN connector.

Note: The ELAN hub is optional if you use a cross-over network cable to make a direct point-to-point connection from the server to the switch. However, if you choose to establish a direct point-to-point ELAN connection, no other device can connect to the ELAN.

- 3 At the switch, connect the ELAN network cable to an MAU (Ethernet) transceiver. Then complete the connection from the transceiver to the switch.



DANGER

Risk of fire hazard

The NTRH9069 MAU is not suitable for installation in ducts, plenums, or other spaces used for environmental air. Do not install it above a false ceiling or below a raised floor, unless it can be confirmed that these spaces are not used to convey environmental air.

What's next?

IF the server will	THEN
be connected to a CLAN	continue with page 59.
not be connected to a CLAN	continue with installing the software feature key adapter (dongle). See page 60.

Connecting the server to the CLAN (optional)

Introduction

This section provides instructions to connect the server to the Customer LAN (CLAN).

Note: The CLAN connection is optional. However, connection to a CLAN is required for support of desktop and web messaging users, or administration by means of a web-enabled PC.

ATTENTION

If a hub is required or used, it must be located at least 6 m (20 ft) away from the 703t server. This ensures compliance with EMC requirements.

To connect the server to the CLAN

- 1 Locate the CLAN connector on the back of the server.

Note: The CLAN connector is labeled as NIC2 1GB. For the connector location, see the diagram on page 54.

- 2 Connect an RJ-45 network cable from the CLAN hub to the CLAN connector.

What's next?

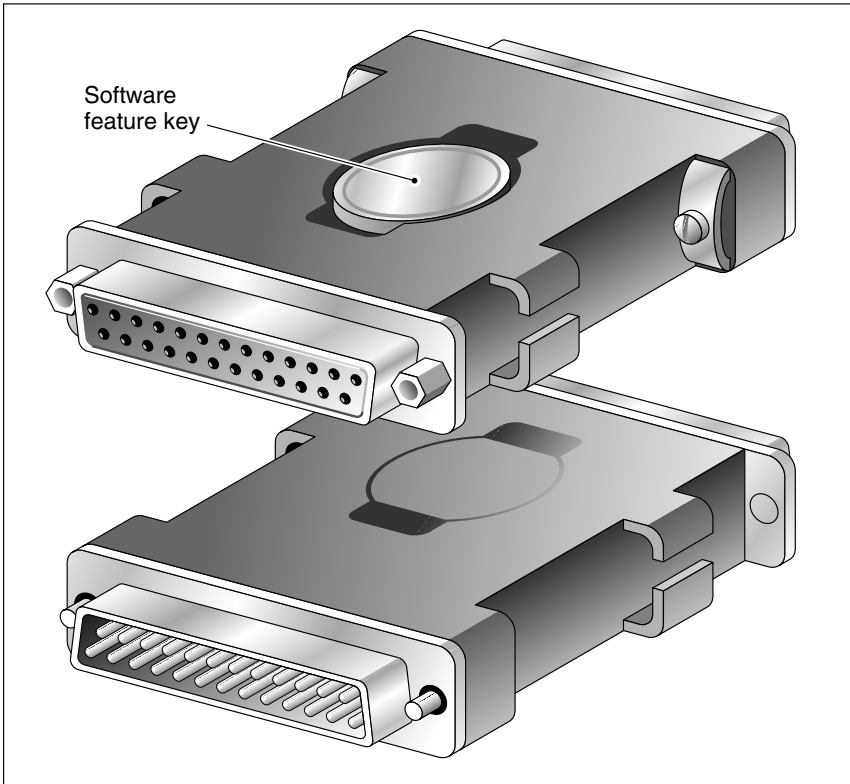
Continue with “Installing the Nortel Networks software feature key adapter” on page 60.

Installing the Nortel Networks software feature key adapter

Introduction

The software feature key is a security device that stores the unique serial number of the server. The feature key is embedded in the Nortel Networks software feature key adapter, which plugs into the parallel port.

An illustration of the software feature key embedded in the software feature key adapter is shown below:



G101738

Requirements

For installation, you require a Phillips No. 1 screwdriver.

To install the software feature key adapter

- 1 Ensure that there is no cable connected to the parallel port.

Note: The parallel port is also known as the printer port or LPT1. It is located at the back of the server. See the diagram on page 54.

- 2 Plug the male end of the adapter into the parallel port.
- 3 Tighten the connector screws.

What's next?

Continue with “Connecting the server to power” on page 62.

Connecting the server to power

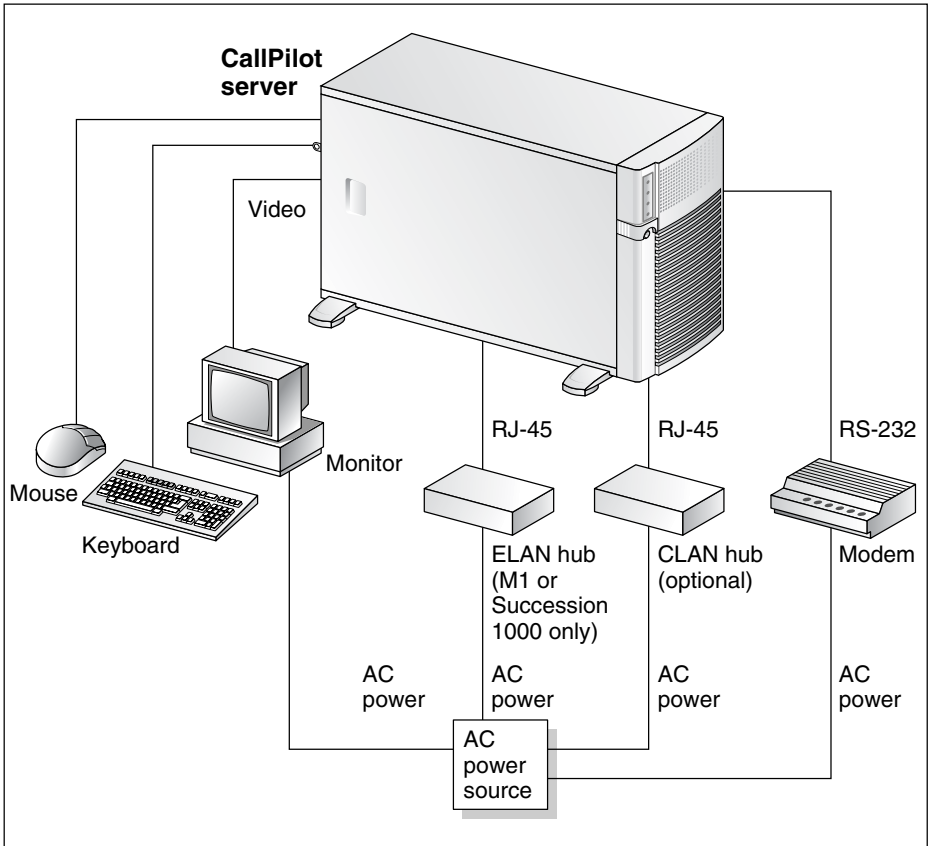
Before you begin

Ensure that proper power and grounding are available for all the power outlets serving the CallPilot server and its associated peripherals. Power for these devices must be wired and fused independently of all other receptacles and referenced to the same ground as the PBX system.

A qualified electrician must implement the single-point ground reference as required among the power outlets of the CallPilot server, its associated peripherals, and the power outlets of the switch.

Provide a sufficient number of properly grounded power outlets or power bars for all equipment.

Before you connect the server to the power source, review the following diagram (and the warning that follows) to ensure that all peripheral hardware devices are in place:



G101637



WARNING

Risk of personal injury and risk of hardware failure

You must connect the power outlets that are used by the CallPilot server and its peripheral devices to the same single-point ground reference as the one used by the Meridian 1 switch or Succession 1000 system with MGate cards connected to the CallPilot server.

If this requirement is not met, power transients can cause personal injury, hardware failure, or both. For more information on single-point grounding requirements, refer to the discussion of safety guidelines in *CallPilot Installation and Configuration Part 1: Installation and Maintenance Overview* (NTP 555-7101-210).

To connect the server to power

- 1 Plug the server's AC power cord into the server's rear panel.
- 2 Plug the other end into a wall receptacle or power bar.

To start the server

- 1 Press the server's power switch to start the server.
- 2 Observe the Power-On Self-Test (POST) and initialization messages on the monitor.
- 3 When the following menu appears on the monitor, choose the first option to start Windows NT:

```
OS Loader V4.00
```

```
Please select the operating system to start:
```

```
Windows NT Server Version 4.00  
Windows NT Server Version 4.00 [VGA mode]
```


Use <arrow up> and <arrow down> to move the highlight to your choice

Press Enter to choose

Seconds until highlighted choice will be started automatically 5

The Windows NT startup sequence begins.

- 4 Ensure that the Windows NT logon window appears on the monitor.

Note: If the Windows NT logon window does not appear, refer to *CallPilot Installation and Configuration Part 5: 703t Server Maintenance and Diagnostics* (555-7101-227) for troubleshooting instructions.

What's next?

If Windows NT started successfully, proceed with switch and server setup as described in the document for your switch:

- *CallPilot Installation and Configuration Part 3: Succession 1000 System and CallPilot Server Configuration* (555-7101-510)
- *CallPilot Installation and Configuration Part 3: Meridian 1 and CallPilot Server Configuration* (555-7101-222)

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CallPilot

Installation and Configuration

Part 2: 703t Server Hardware Installation

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