



# **Avaya CallPilot® 1006r Server Hardware Installation**

5.0  
NN44200-320, 01.03  
December 2010

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The following applies to server models 1006r, 1005r, 703t, and 1002rp:

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 **Warning**

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Please be aware of the following while installing the equipment:

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  - Power cords shipped with this equipment must not be used with any other equipment. If the above guidelines are not followed, it may lead to death or severe injury.
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# Chapter 1: Customer service

Visit the Avaya Web site to access the complete range of services and support that Avaya provides. Go to [www.avaya.com](http://www.avaya.com) or go to one of the pages listed in the following sections.

## Navigation

- [Getting technical documentation](#) on page 7
- [Getting product training](#) on page 7
- [Getting help from a distributor or reseller](#) on page 7
- [Getting technical support from the Avaya Web site](#) on page 8

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## Getting technical documentation

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# Chapter 2: 1006r server description

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## In this chapter

- [1006r Server features](#) on page 9
  - [Valid PCI card configurations](#) on page 16
  - [Network connectivity](#) on page 17
  - [Supported peripheral devices](#) on page 20
- 

## 1006r Server features

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### Introduction

The 1006r Avaya CallPilot® server is a long life industrial server in a standard rack-mount 2U form factor. It utilizes dual Xeon technology and proven, reliable SAS hard-drive technology.

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### RoHS compliance

The 1006r server meets the requirements of the Restriction of Hazardous Substances Directive 2002/95/EC, applicable in countries affected by the EUED (European Union Environmental Directives). RoHS requirements impose restrictions on the type and quantity of materials used in the manufacturing and construction of Electronic and Electrical Equipment (EEE).

To comply with the RoHS directive, some of the part numbers now contain an E5 or E6 suffix. For example, part number NTRH2014 is now NTRH2014E6. The part numbers in this guide do not contain the suffix.

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## Server dimensions and weight

Height	87.3 mm (3.44 in.)
Width	430 mm (16.93 in.)
Depth (distance from front to back)	704.8 mm (27.75 in.)
Weight of fully loaded system	29.5 kg (65 lb)

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## 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	90% relative humidity (non-condensing) at 28°C (82.4 °F)
Altitude	< 1 829 m (6 000 ft)
Electrostatic discharge	<= 15 kV
Acoustic noise	Sound power: 7.0 BA in an idle state
Handling drop (storage)	24 in free-fall (when packaged)
Handling drop (operating)	2g peak, 11 msec, half sine
Front clearance	50.8 mm (2 in.)
Side clearance	25 mm (1 in.)
Rear clearance	92 mm (3.6 in.)

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## Front panel controls and features

The following diagrams show the front view of the 1006r server chassis. Visible from the front are the hard drives, optical drive, and system control panel.

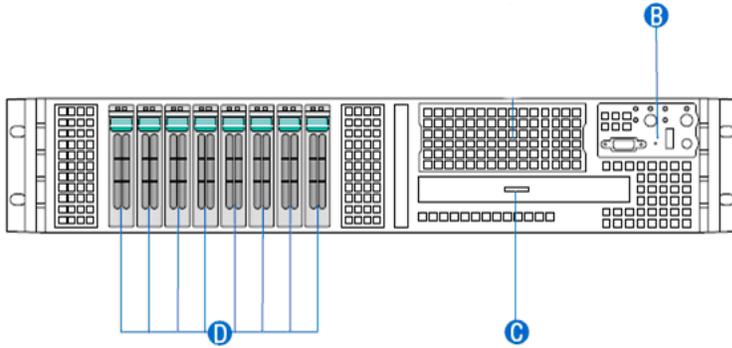


Figure 1: Front panel controls

Label	Control or feature
B	System Control Panel (see figure below for details)
C	Slimline Optical Drive Bay
D	2.5-inch Hard Drive Bays (two installed)

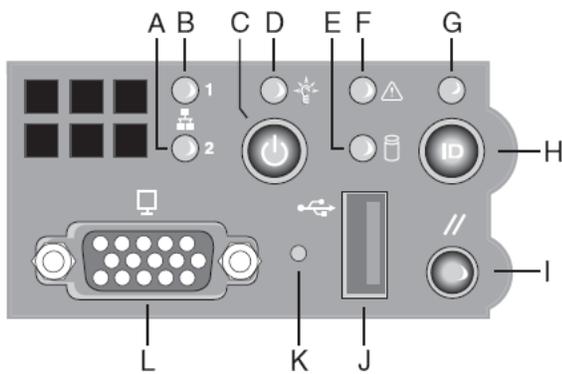


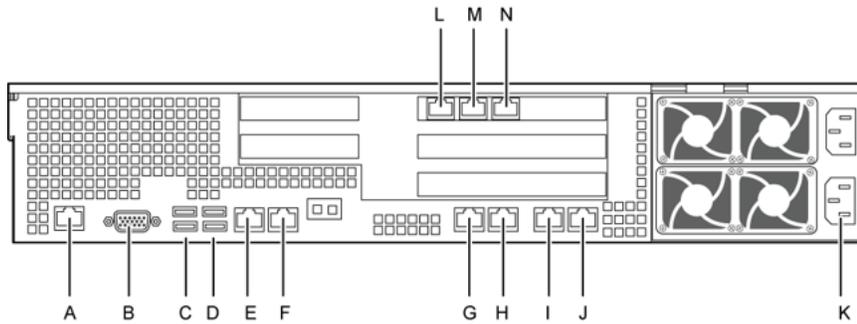
Figure 2: System control panel

Label	Control or feature	Function
A	NIC 2 Activity LED	Continuous green light indicates a link between the system and the network to which it is connected. Blinking green light indicates network activity.
B	NIC 1 Activity LED	
C	Power/Sleep button	Toggles the system power on/off. This button also functions as a sleep button if enabled by an ACPI-compliant operating system.
D	Power/Sleep LED	Continuous green light indicates the system has power applied to it or the system is in ACPI S0 state.

Label	Control or feature	Function
		<p>Blinking green indicates the system is in sleep or ACPI S1 state.</p> <p>No light indicates the power is off or the system is in ACPI S4 or S5 state.</p>
E	Hard disk drive activity LED	<p>Random blinking green light indicates hard disk drive activity.</p> <p>No light indicates no hard disk drive activity.</p>
F	System status LED	<p>Solid green indicates normal operation.</p> <p>Blinking green indicates degraded performance.</p> <p>Solid amber indicates a critical or non-recoverable condition.</p> <p>Blinking amber indicates a non-critical condition.</p> <p>No light indicates POST is running or the system is off.</p>
G	System identification LED	<p>Solid blue indicates system identification is active.</p> <p>No light indicates system identification is not activated.</p>
H	System identification button	<p>Toggles the front panel ID LED and the server board ID LED on/off. The server board ID LED is visible through the rear of the system and allows for server identification and location when working behind a rack of servers.</p>
I	Reset button	<p>Reboots and initializes the system.</p>
J	USB 2.0 Port	<p>Connector to attach a USB component to the front of the system.</p>
K	NMI button	<p>When the NMI button is pressed with a paper clip or pin, the server is placed in a halt state for diagnostic purposes and allows the issuance of a non-maskable interrupt. After issuing the interrupt, a memory download can be performed to determine the cause of the problem.</p>
L	Front Video port	<p>Connector to attach a video monitor to the front of the system. The front and rear video ports cannot be used at the same time however the front takes priority if both ports are used.</p>

## Back panel controls and features

The following diagram shows the back panel controls and features. On the right are the AC power supply banks. The PCI card brackets are in the middle of the back panel while the connectors and ports are along the bottom and left side.

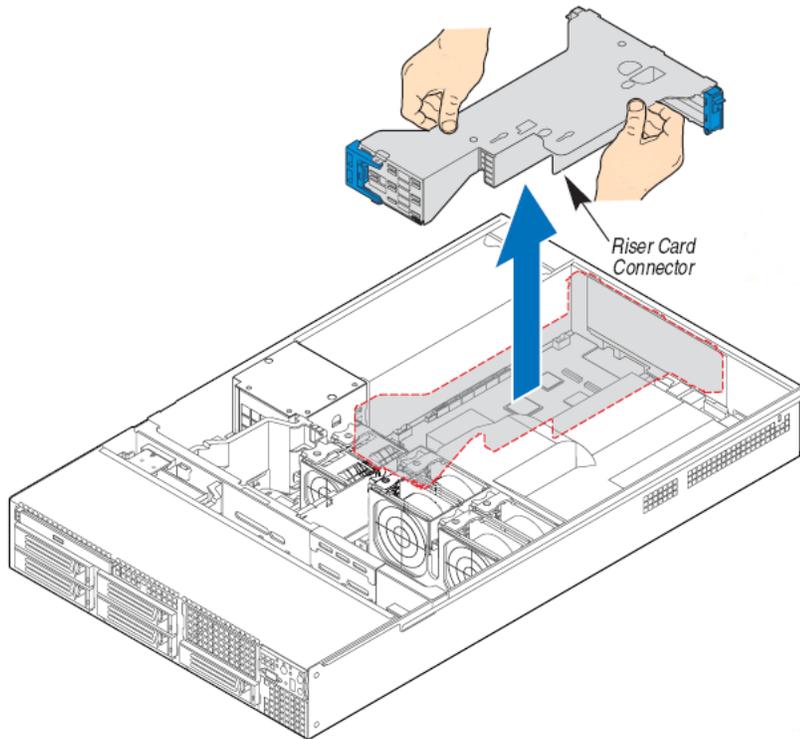


**Figure 3: Back panel controls and features**

Label	Control or feature	Label	Control or feature
A	RJ-45 Serial A Connector	I	Not connected
B	Rear Video	J	HB2
C	Dual USB port	K	Power Receptacles
D	Dual USB port	L	MPB96-1 DS30-3
E	ELAN	M	MPB96-1 DS30-2
F	CLAN	N	MPB96-1 DS30-1
G	HB1		
H	Mirror		

## PCI riser assembly

The PCI riser assembly holds the MPB96 PCI add-in cards. For more information about your configuration, see [Valid PCI card configurations](#) on page 16. The following diagram shows the PCI riser held above the server.



**Figure 4: PCI riser card**

The following picture shows the PCI riser assembly when removed from the 1006r chassis. The PCI riser assembly is shown turned over with full-size cards installed.

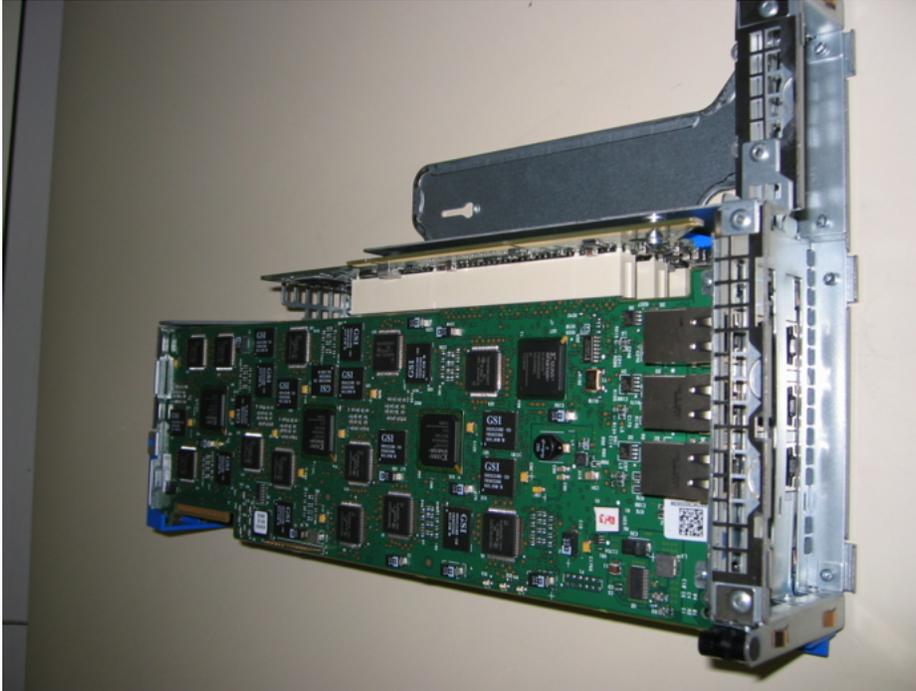


Figure 5: PCI riser card (turned over)

 **Caution:**

**Risk of physical equipment damage**

Remove the 1006r from the rack, and place it on a solid surface when replacing or adding cards. The PCI riser assembly requires considerable force when inserting it into the connector, and physical damage can result if the assembly is not properly aligned.

When you place the server on a solid surface such as a workbench, you have a better view of the card alignment, and you can exert the necessary force when inserting the assembly into the connector.

 **Important:**

The PCI riser assembly must be fully seated to avoid server malfunction.

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## Valid PCI card configurations

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### Introduction

There are three full size PCI-X card slots. Valid configurations of the PCI card slots are shown in the table [Table 1: 1006r PCI card slot configurations](#) on page 16.

 **Note:**

Your server configuration depends on what was ordered from Avaya. Therefore, your server may not have all of the slots populated.

When looking at the server from the rear (see [Back panel controls and features](#) on page 13), the PCI card slots are numbered from the top down.

Version	Description
NTRH40CAE5	Has three RJ-45 connectors on its faceplate: Connects to the CS 1000 or Meridian 1 with three standard RJ-45 Ethernet cables For more information about these cables and connecting the NTRH40CAE5 MPB96 board to MGate cards, see <i>Communication Server and CallPilot Server Configuration(NN44200-312)</i> or <i>Meridian 1 and CallPilot Server Configuration(NN44200-302)</i> .

**Table 1: 1006r PCI card slot configurations**

Configuration	Card slot type	Slot number	Position	Card type	Meridian 1*/ CS* 1000
Single MPB96	Full size	FS_PCI-1	top	MPB96	MGate 1, 2, 3
		FS_PCI-2	middle	Not used	
		FS_PCI-3	bottom	Not used	

 **Note:**

When cabling to MGate cards, the RJ-45 connectors are numbered from 1 to 3 on the NTRH40CAE5 MPB96 board starting from the right side of the back panel (next to the power supplies).

Three MPB96 (High Capacity)	Full size	FS_PCI-1	top	MPB96	MGate 1, 2, 3
		FS_PCI-2	middle	MPB96	MGate 4, 5, 6
		FS_PCI-3	bottom	MPB96	

Configuration	Card slot type	Slot number	Position	Card type	Meridian 1*/ CS* 1000
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**Note:**

3 MGate cards connect to 1 MPB96  
When cabling to MGate cards, the RJ-45 connectors are numbered from 1 to 3 on the top NTRH40CAE5 MPB96 board and from 4 to 6 on the middle NTRH40CAE5 MPB96 board starting from the right side of the back panel (next to the power supplies)

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## Network connectivity

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### Introduction

This section describes how the 1006r server can be integrated into your network. The integration depends on the type of switch you are using.

**Important:**

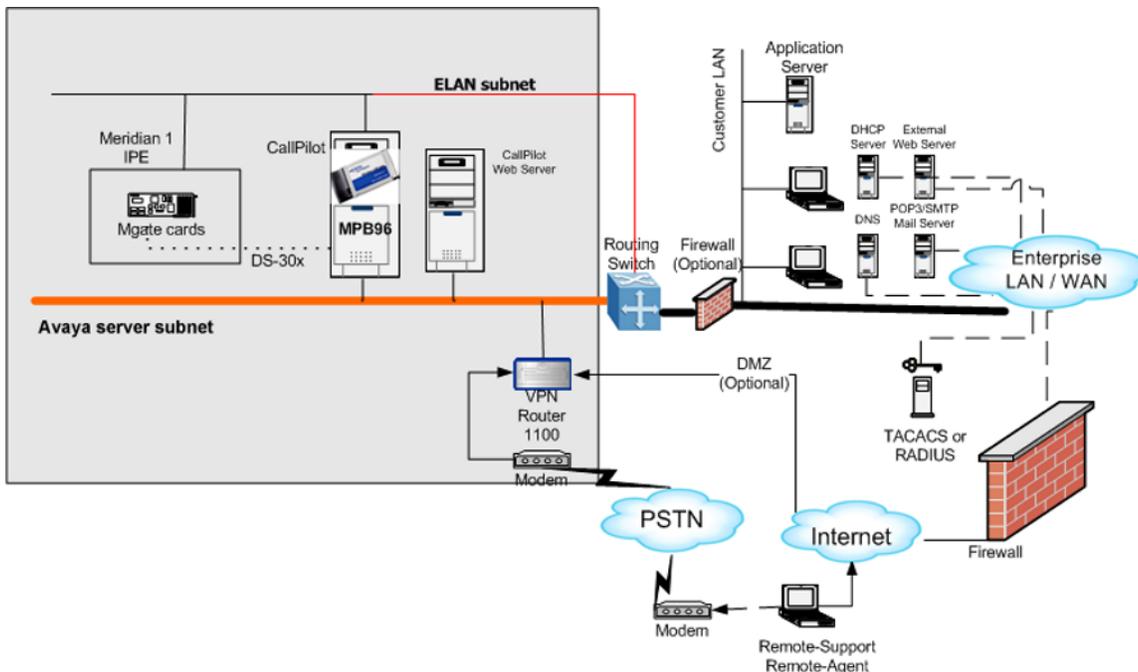
To secure the Avaya CallPilot server from unauthorized access, ensure that the CallPilot network is inside your organization's firewall.

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### Sample network setup: Meridian 1

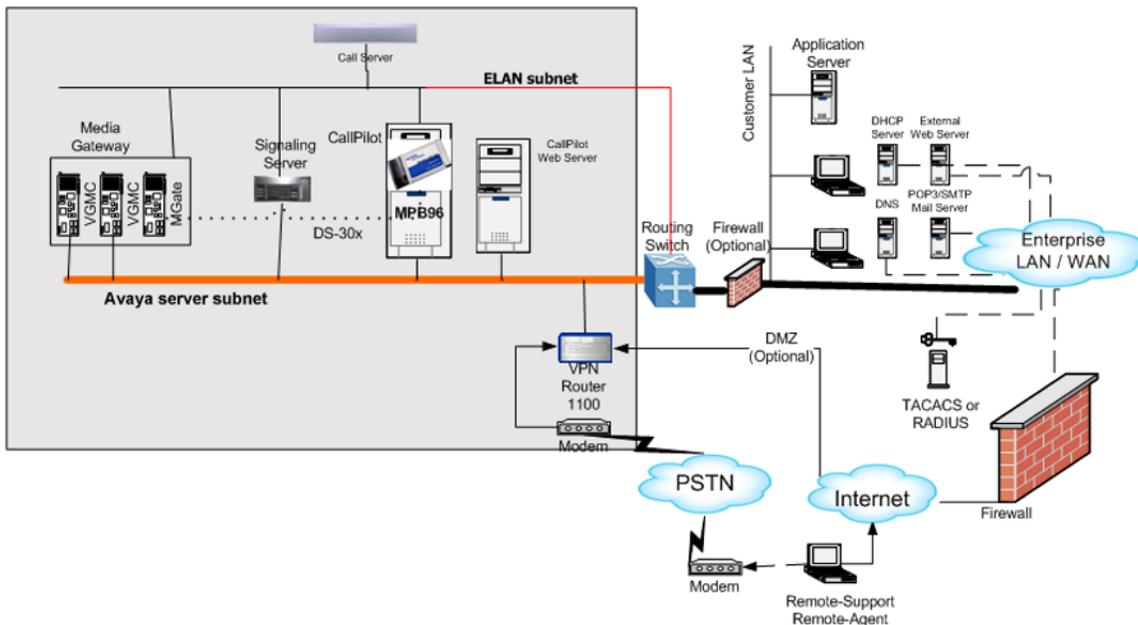
The following diagram shows a CallPilot server sample network setup with a Meridian 1 switch. The Meridian 1 switch can be one of the following:

- Option 11C or Option 11C Mini
- Option 51C
- Option 61C
- Options 81 and 81C



## Sample network setup: Communication Server 1000

The following diagram shows a CallPilot server network setup with a Communication Server 1000 (CS 1000) system.



In the previous illustration, the telephony LAN (TLAN subnet) provides IP connectivity between the CS 1000 system and the i2004 Internet phone sets. The connection between the call server

and media gateway can be point-to-point (or through the LAN), if the system is installed in a distributed data network.

For information about the CS 1000 system and i2004 Internet phone set bandwidth and network requirements, refer to the Communication Server for Enterprise 1000 Planning and Installation Guide (553-3023-210).

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## Switch connectivity

For more details about how the 1006r server and switch connection is established, refer to the Installation and Configuration Task List (NN44200-306).

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## CallPilot ELAN subnet and Avaya server subnet setup

The 1006r server provides 10/100/1000Base-T Ethernet connectivity through NICs installed in the server. The function of the NIC varies based on switch connectivity, as follows:

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## Meridian 1 or Avaya Communication Server 1000 systems

- One NIC provides connectivity to the ELAN subnet. Connect the NIC labeled NIC 2 on the back of the server to the ELAN subnet.

For information about the purpose and requirements of the ELAN subnet, see the Planning and Engineering Guide (NN44200-200).

- The second NIC, labeled NIC 1 can be connected to the Avaya server subnet.

This optional NIC is required only for Meridian 1 or CS 1000 systems that require a Avaya server subnet connection (in addition to the ELAN subnet connection). The Avaya server subnet provides data connectivity between desktop and Web messaging clients, Web-enabled administrative PCs, and the CallPilot server.

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## Network requirements

Appropriate networking equipment must be available for both the Avaya server subnet and ELAN subnet.

The Avaya server subnet and ELAN subnet must be properly configured for correct CallPilot operation. To ensure correct configuration, Avaya recommends that you consult a network specialist.

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## Remote access connectivity

Use one of the USB connectors on the rear of the 1006r server to connect to an external plug-and-play modem. The modem is used for remote administration and technical support.

RRAS is used to establish the remote access connection to the server. Use either RDC or pcAnywhere to communicate with the CallPilot server.

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## Supported peripheral devices

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### Introduction

This section identifies external devices that are supported by the 1006r server.

Device	Description
Modem	Use a 56-Kb/s external modem to provide remote access to the 1006r server. The modem connects to one of the USB connectors on the rear of the server. You cannot use a serial port modem.
Ethernet switch or hub	A 10Base-T Ethernet switch or hub provides the ELAN subnet connection between the 1006r server and the Meridian 1 switch or CS 1000 system. The customer can supply an Ethernet hub or switch from third-party vendors or from Avaya. Since the Ethernet switch or hub is an external device, it requires an AC power source.
Monitor, keyboard, and mouse	<ul style="list-style-type: none"> <li>• VGA Monitor with Male DB-15 connector (customer supplied) Since the monitor is an external device, it requires its own AC power source.</li> <li>• Keyboard: (customer supplied)</li> <li>• Mouse: (customer supplied)</li> </ul>

Device	Description
Backup devices	<ul style="list-style-type: none"> <li>• An external USB Tandberg RDX drive can be installed by connecting it into any of the available USB ports on the 1006r.</li> <li>• Use an external SCSI tape drive to back up the system. The Tandberg SLR 75 can be ordered with the system.</li> </ul> <p> <b>Important:</b> To connect a legacy SCSI tape drive to the 1006r, use a SCSI to USB adapter. The adapter is part of the SLR75 Tandberg Tape Drive kit (N0171019). It is also available as a field replaceable unit (N0170025).</p> <ul style="list-style-type: none"> <li>• USB dongle holder</li> </ul>

## Customer Documentation Map

The following diagram shows the overall organization and content of the CallPilot documentation suite.

**Table 2: CallPilot Customer Documentation Map**

Fundamentals
Avaya CallPilot® Fundamentals Guide (NN44200-100)
Avaya CallPilot® Library Listing (NN44200-117)
Planning and Engineering
Avaya CallPilot® Planning and Engineering Guide (NN44200-200)
Avaya CallPilot® Network Planning Guide (NN44200-201)
Avaya Communication Server 1000 Converging the Data Network with VoIP Fundamentals (NN43001-260)
Solution Integration Guide for Avaya Communication Server 1000/CallPilot®/NES Contact Center/Telephony Manager (NN49000-300)
Installation and Configuration
Avaya CallPilot® Upgrade and Platform Migration Guide (NN44200-400)
Avaya CallPilot® High Availability: Installation and Configuration (NN44200-311)
Avaya CallPilot® Geographic Redundancy Application Guide (NN44200-322)
Avaya CallPilot® Installation and Configuration Task List Guide (NN44200-306)
Avaya CallPilot® Quickstart Guide (NN44200-313)
Avaya CallPilot® Installer Roadmap (NN44200-314)

#### Server Installation Guides

Avaya CallPilot® 201i Server Hardware Installation Guide (NN44200-301)

Avaya CallPilot® 202i Server Hardware Installation Guide (NN44200-317)

Avaya CallPilot® 202i Installer Roadmap (NN44200-319)

Avaya CallPilot® 703t Server Hardware Installation Guide (NN44200-304)

Avaya CallPilot® 1002rp Server Hardware Installation Guide  
(NN44200-300)

Avaya CallPilot® 1002rp System Evaluation (NN44200-318)

Avaya CallPilot® 1005r Server Hardware Installation Guide  
(NN44200-308)

Avaya CallPilot® 1005r System Evaluation (NN44200-316)

Avaya CallPilot® 1006r Server Hardware Installation Guide  
(NN44200-320)

Avaya CallPilot® 600r Server Hardware Installation Guide  
(NN44200-307)

Avaya CallPilot® 600r System Evaluation (NN44200-315)

#### Configuration and Testing Guides

Avaya Meridian 1 and Avaya CallPilot® Server Configuration Guide  
(NN44200-302)

Avaya T1/SMDI and Avaya CallPilot® Server Configuration Guide  
(NN44200-303)

Avaya Communication Server 1000 System and Avaya CallPilot® Server  
Configuration Guide (NN44200-312)

#### Unified Messaging Software Installation

Avaya CallPilot® Desktop Messaging and My CallPilot Installation and  
Administration Guide (NN44200-305)

#### Administration

Avaya CallPilot® Administrator Guide (NN44200-601)

Avaya CallPilot® Software Administration and Maintenance Guide (NN44200-600)

Avaya Meridian Mail to Avaya CallPilot® Migration Utility Guide (NN44200-502)

Avaya CallPilot® Application Builder Guide (NN44200-102)

Avaya CallPilot® Reporter Guide (NN44200-603)

#### Maintenance

Avaya CallPilot® Troubleshooting Reference Guide (NN44200-700)

Avaya CallPilot® Preventative Maintenance Guide (NN44200-505)

## Server Maintenance and Diagnostics

Avaya CallPilot® 201i Server Maintenance and Diagnostics Guide  
(NN44200-705)

Avaya CallPilot® 202i Server Maintenance and Diagnostics Guide  
(NN44200-708)

Avaya CallPilot® 703t Server Maintenance and Diagnostics Guide  
(NN44200-702)

Avaya CallPilot® 1002rp Server Maintenance and Diagnostics Guide  
(NN44200-701)

Avaya CallPilot® 1005r Server Maintenance and Diagnostics Guide  
(NN44200-704)

Avaya CallPilot® 1006r Server Maintenance and Diagnostics Guide  
(NN44200-709)

Avaya CallPilot® 600r Server Maintenance and Diagnostics Guide  
(NN44200-703)

Avaya NES Contact Center Manager Communication Server 1000/  
Meridian 1 & Voice Processing Guide (297-2183-931)

## End User Information

### End User Cards

Avaya CallPilot® Unified Messaging Quick Reference Card  
(NN44200-111)

Avaya CallPilot® Unified Messaging Wallet Card (NN44200-112)

Avaya CallPilot® A-Style Command Comparison Card (NN44200-113)

Avaya CallPilot® S-Style Command Comparison Card (NN44200-114)

Avaya CallPilot® Menu Interface Quick Reference Card (NN44200-115)

Avaya CallPilot® Alternate Command Interface Quick Reference Card  
(NN44200-116)

Avaya CallPilot® Multimedia Messaging User Guide (NN44200-106)

Avaya CallPilot® Speech Activated Messaging User Guide  
(NN44200-107)

Avaya CallPilot® Desktop Messaging User Guide for Microsoft Outlook  
(NN44200-103)

Avaya CallPilot® Desktop Messaging User Guide for Lotus Notes  
(NN44200-104)

Avaya CallPilot® Desktop Messaging User Guide for Novell Groupwise  
(NN44200-105)

Avaya CallPilot® Desktop Messaging User Guide for Internet Clients  
(NN44200-108)

Avaya CallPilot® Desktop Messaging User Guide for My CallPilot  
(NN44200-109)

Avaya CallPilot® Voice Forms Transcriber User Guide (NN44200-110)

The Map was created to facilitate navigation through the suite by showing the main task groups and the documents contained in each category. It appears near the beginning of each guide, showing that guide's location within the suite.

# Chapter 3: Preparing for installation

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## In this chapter

- [Installation overview](#) on page 25
  - [Unpacking the 1006r server](#) on page 27
- 

## Installation overview

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### Introduction

This section provides an overview of the steps required to install the 1006r server and peripheral devices.

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### Installation checklist

The following checklist identifies the tasks that must be performed when installing the Avaya CallPilot® server. For detailed instructions, see [Installing the server](#) on page 29. When you are finished with the installation, continue with the *Installation and Configuration Task List* (NN44200-306).

 **Note:**

If you are installing a High Availability system, follow this checklist for each server, with the exceptions listed on [Installing a High Availability system](#) on page 30.

Step	Description	Check
1	Review the "Installing the Avaya CallPilot server" section in the <i>Installation and Configuration Task List</i> (NN44200-306), and completed stage 1 of the "Installation checklist."	<input type="checkbox"/>

---



**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 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.

**Important:**

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

---

## Unpacking the 1006r server

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### Introduction

---

Follow this procedure to unpack the server and peripherals.

**Warning:****Risk of personal injury**

The 1006r CallPilot server weighs approximately 30 kg (67 lb) when it is shipped from manufacturing. To prevent personal injury, have someone help you to unpack and position the server.

#### To unpack the equipment

1.

**Important:**

As you unpack each item, check it off against the packing list, as well as against the following checklists provided in the Installation and Configuration Task List (NN44200-306):

- "CallPilot software media and documentation checklist"
- "CallPilot server hardware checklist"

Open the cardboard carton containing the server.

2. Remove the server from the carton; set it on a secure surface.

3. Open the cartons containing the monitor, keyboard, mouse, modem, and ELAN Ethernet switch or hub (if supplied), and set the peripherals aside.
4. Remove the dongle from the box and set it aside
5. Put all manuals, DVDs or CDs, operating system disks, and any disks for peripherals in a safe place.
6. Save all packing materials and cartons in case you must return any equipment to the carrier.

---

## What is next?

Continue with [Installing the server and peripheral devices](#) on page 29.

# Chapter 4: Installing the server and peripheral devices

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## In this chapter

- [Installing the server](#) on page 29
- [Installing a High Availability system](#) on page 30
- [Inspecting the modem](#) on page 31
- [Connecting peripherals to the server](#) on page 32
- [Connecting the server to the Avaya server subnet \(optional\)](#) on page 34
- [Installing the Avaya software feature dongle](#) on page 35

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## Installing the server

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### Introduction

Before you install the 1006r server, ensure that the chosen location meets the requirements identified on the "Site inspection checklist" provided in the *Installation and Configuration Task List* (NN44200-306).

---

### To install the server

Place the 1006r server in its chosen location. If you are installing the server in a rack cabinet, follow the instructions provided with the slide rails.



**Warning:**

Do not connect the server to the power yet.



**Important:**

The 1006r server is supplied with industry standard 48.3cm (19 in.) rack rails that can accommodate racks with a maximum depth of 76.2 cm (30 in.) between the mounting posts. Check the rack you are using and ensure that the Avaya supplied server rack rails are suitable for your specific installation requirements.

The 1006r server can not be installed in cabinets less than 58.4 cm (23 in.) in depth between posts.

Avaya recommends that you purchase a third-party rack shelf that can safely hold up to 34 kg (75 lb.).

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## What is next?

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

---

## Installing a High Availability system

The High Availability configuration is only supported on the 1005r and 1006r platforms.

In a High Availability configuration, a pair of peer Avaya CallPilot® servers is used in the place of a single server. Both servers are connected to the same switch and are configured so that one Avaya CallPilot server is active (that is, processing calls) and the other is standing by, ready to take over for the first server if the active server fails due to a predetermined failure condition. The High Availability feature supports both automatic failovers, where the software detects an error condition and triggers a failover to the standby server, and manual failovers which are administrator initiated.



**Important:**

The pair of High Availability servers must be the same type of server, for example either both 1005r or both 1006r. A mixture of servers is not supported in a High Availability pair.

For a High availability system, Avaya recommends that you install both servers on the same rack, preferably one server directly below the other. This allows for greater ease in administration. Clearly label each server for easy identification.

Follow the installation procedures in this document for each server, with the following exceptions:

- Do not connect the server to the Avaya Server Subnet, or the ELAN subnet until directed to do so in the Server and Switch Configuration guide.
- The two servers are delivered with only one dongle. It does not matter which server you connect the dongle to until you configure the servers.

For more information about the High Availability feature, see High Availability: Installation and Configuration (NN44200-311).

---

## Inspecting the modem

---

### Introduction

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

---

### Required equipment

To install the modem, you need the following equipment:

- USB modem
- RJ-11 analog phone cord
- USB cable (supplied with the modem)
- analog line jack

Serial port modems with RS-232 connections are not supported on the 1006r.

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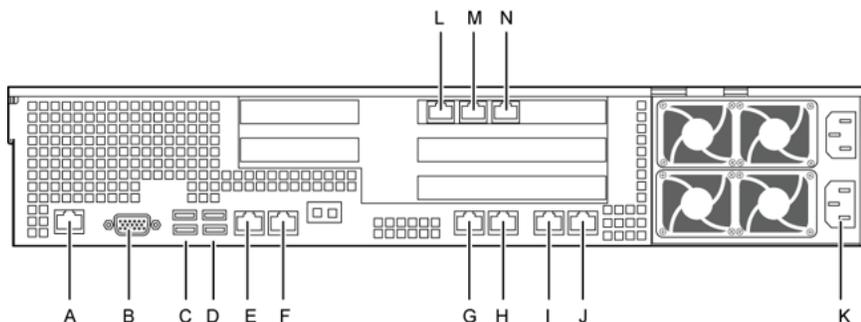
### What is next?

Continue with [Connecting peripherals to the server](#) on page 32.

## Connecting peripherals to the server

### Rear panel connectors

The following diagram shows the connectors on the rear panel.



Label	Control or feature	Label	Control or feature
A	RJ-45 Serial A Connector	I	Not connected
B	Rear Video	J	HB2
C	Dual USB port	K	Power Receptacles
D	Dual USB port	L	MPB96-1 DS30-3
E	ELAN	M	MPB96-1 DS30-2
F	CLAN	N	MPB96-1 DS30-1
G	HB1		
H	Mirror		

#### 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 cable into the lower USB port labeled C and the mouse cable into the upper USB port labeled C on the rear panel (see Rear panel connectors).
3. Plug the monitor into the video connector on the rear panel. Tighten the screws on the connector.
4. Ensure that a single-point ground reference is available for all the power outlets serving the CallPilot server and its peripherals. Before the CallPilot server installation, a qualified electrician must implement the single-point ground reference

requirement between the power outlets of the CallPilot server and the power outlets of the switch.

5. Connect the power cords to the monitor and plug the other end into a wall receptacle or power bar.
6. Turn on the monitor.

### To connect the modem to the server

1. Connect one end of the telephone cable to the modem RJ-11 jack labeled LINE.
2. Connect the other end of the telephone cable to the RJ-11 jack in the wall.
3. Connect one end of the USB cable into the modem.
4. Connect the other end of the USB cable into either the lower USB port labeled D on the rear panel (long term) or the USB port on the front panel (short term).



#### **Note:**

If the external SCSI tape drive adapter is present, you need to use the front USB port to connect the modem to the server.

### To connect the external SCSI tape drive

Note : The external SCSI tape drive is a plug and play device when used with the included USB to SCSI adapter. For a High availability system you may wish to share one tape drive between the two servers.

1. Set the SCSI ID dial switch on the tape drive to SCSI ID 6.
2. With the tape drive power switch off, connect the USB to SCSI adapter to the SCSI connector on the tape drive.
3. Make sure the SCSI terminator is connected to the other SCSI connector on the tape drive.
4. Plug the tape drive into the same single-point ground and A/C power as the rest of the system.
5. Power on the tape drive.
6. Using the included USB cable, connect the USB to SCSI adapter into the lower USB port labeled D on the rear panel of the server. See Rear panel connectors.  
New hardware is detected and the Windows Hardware Wizard is launched.
7. In the Found New Hardware Wizard dialog box, select No and click Next.  
USB WIDE-LVD SCSI converter is detected.
8. In the Found New Hardware Wizard dialog box, select Install from a list or specific location (Advanced) and click Next.  
The installation options are displayed.
9. In the Found New Hardware Wizard dialog box, select Include this location in the search and enter the following patch in the corresponding field: C:\PnpDrivers\USBSCSI
10. Click Next.

The drivers are installed.

11. Click Finish.

The USB 2 SCSI adapter is detected.

12. From the Found New Hardware Wizard dialog box, select Install from a list or specific location (Advanced) and click Next.

The installation options are displayed.

13. Click Next to accept the default search and installation options.

The drivers are installed.

14. Click Finish.

15. The tape drive is ready for use.

---

## Connecting the server to the Avaya server subnet (optional)

---

### Introduction

This section provides instructions to connect the server to the Avaya server subnet.

 **Note:**

The Avaya server subnet is optional. However, it is required to support desktop and Web messaging users.

 **Note:**

If you are installing a High Availability system, do not connect either sever to the Avaya Server Subnet. The connection to the Avaya Server Subnet is made when you configure the system.

#### To connect the server to the Avaya server subnet

1. See the diagram on page [Rear panel connectors](#) on page 32 to locate the CLAN connection.
2. Connect an RJ-45 network cable from the Avaya server subnet Ethernet switch or hub to the CLAN connector.

---

## What is next?

Continue with [Installing the Avaya software feature dongle](#) on page 35.

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## Installing the Avaya software feature dongle

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### 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 Avaya software feature dongle, which plugs into the upper USB port labeled D on the rear panel (see [Rear panel connectors](#) on page 32).

 **Note:**

Only one dongle is shipped with a pair of High Availability servers. It doesn't matter which server you install the dongle in until you configure the servers later on.

The following diagram shows the dongle plugged into the back panel of the server:



**Figure 6: Dongle installed on the server.**

### To install the software feature dongle

1. Ensure that there is nothing plugged into the upper USB port labeled D on the rear panel.
2. If the software feature key is not pre-installed in the dongle, insert it into the software feature slot on the dongle. Insert the software feature key with the data contact facing down and away from the embossed *i*. See [Figure 8: Installing the feature key](#) on page 37.



**Figure 7: Dongle without feature key**

3. To eject a software feature key, insert a straightened paper clip into the side access hole.

Push the paper clip in the direction of the software feature key.

**\* Note:**

In the following figure, label 1 is the data contact, and label 2 is the ground.



**Figure 8: Installing the feature key**

4. Plug the dongle into the upper USB port labeled D on the rear panel of the server.

What is next?

Continue with [Connecting the server to power](#) on page 39.



# Chapter 5: Connecting the server to power

---

## In this chapter

- [Safety precautions](#) on page 39
  - [Locating the power supply modules](#) on page 40
  - [About the power supply module](#) on page 40
  - [Connecting the server to power](#) on page 41
- 

## Safety precautions

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## Equipment handling guidelines

External power equipment, such as an uninterruptible power supply (UPS), is usually very heavy. This equipment requires special handling procedures and additional personnel for unloading and installation. Be aware of weight distribution, and prevent the equipment room floor from being overly stressed.

---

## Safety information



**Voltage:**

### **Risk of electric shock**

Procedures involving electrical connections must only be performed by qualified personnel. Ensure that you obey all displayed warning notices on power equipment and connections.

---

## Locating the power supply modules

---

### Introduction

Both AC power supply modules are installed prior to shipping. The following diagram shows the location of the power supply modules in the rear panel (K):

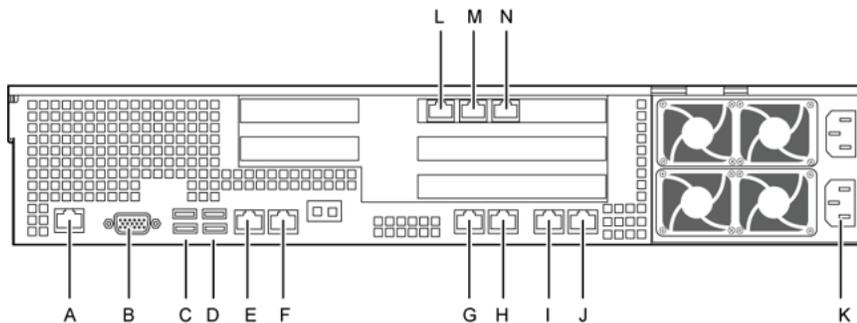


Figure 9: 1006r rear panel

---

## About the power supply module

After you power up the server (later in this guide), the power supply module LED indicates its status.

A green LED on each power supply module indicates that the modules are working properly. If the LEDs are unlit, red, or amber, the module is failing or has failed or the power cord associated with the power supply is unplugged. A problem with a power supply module is also indicated by a blinking or solid amber System Status LED on the front control panel.

---

## Rack power and grounding

To ensure a complete power and grounding installation:

- In rack-mount server installations, ensure the Avaya CallPilot® server chassis and equipment racks are isolated from other foreign sources of ground. Acceptable isolation

methods include: isolation pads, grommets washers, chassis side-rail strips, and nonconducting washers.

- In rack-mount server installations where other equipment is also installed in the same rack, ensure that all equipment derives ground from the same service panel as Avaya CallPilot and the switch.

---

## 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 between the power outlets of the CallPilot server and the power outlets of the switch.

Provide a sufficient number of properly grounded power outlets or power bars for all equipment. For more information, refer to grounding and power requirements in this document and in the Planning and Engineering Guide (NN44200-200).

The single-point ground (SPG) required by the system can be an isolated ground (IG) bus or AC equipment ground (ACEG) bus in the service panel or transformer. The system must be connected to safety ground or protective earth in accordance with NEC requirements. For international use, the system must be connected to safety ground/protective earth in accordance with Paragraph 2.5 of EN60950/IEC950.

 **Note:**

See Large System: Planning and Engineering (553-3021-120) for a complete description of approved ground sources and methods. Insulated ground wire must be used for system grounding.

Before you connect the server to the power source, review the following diagram to ensure that all peripheral hardware devices are in place.

## Connecting the server to power

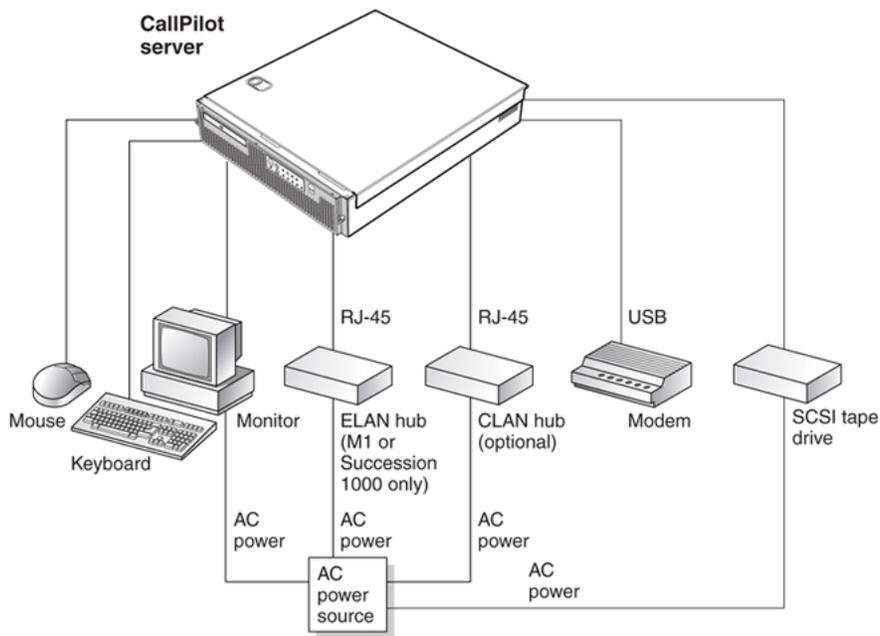


Figure 10: 1006r server in a network

### To connect the 1006r AC server to power

1.



**Warning:**

#### **Risk of personal injury, risk of hardware failure**

The power outlets used by the CallPilot server and its peripheral devices must be connected to the same single-point ground reference as the one used by the switch with MGate cards connected to the CallPilot server. If this requirement is not met, power transients can cause personal injury, hardware failure, or both. See the Installation and Configuration Task List (NN44200-306) for more information about single-point grounding requirements.

Plug the server AC power cords into the server rear panel.

2. Plug the other ends into an approved wall receptacle or power bar.

### To start the server

1. Press the server power switch to start the server.
2. Observe the Power-On Self Test (POST) and initialization messages on the monitor.
3. Let the mini-setup sequence run until you are prompted to log on to the operating system.



**Note:**

The system can perform multiple reboots. This is normal.

4. Ensure that the operating system logon window appears on the monitor.

 **Note:**

If the logon window does not appear, see the 1006r Server Maintenance and Diagnostics (NN44200-709) guide for troubleshooting instructions.

5. Log into Windows.
6. CallPilot Manager wizard starts automatically.
7. Use the wizard to configure your system. For further details, see the Installation and Configuration Task List (NN44200-306).

Connecting the server to power

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