



# Installation and Upgrade Guide for Cisco Unified MeetingPlace Audio Server

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## CONTENTS

### **Preface**   vii

Purpose   vii

Audience   vii

Naming Conventions   vii

Documentation Conventions   ix

Cisco Unified MeetingPlace Documentation   x

New Feature and Enhancement Information   x

Obtaining Documentation, Obtaining Support, and Security Guidelines   x

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## CHAPTER 1

### **Preparing to Install the Cisco Unified MeetingPlace 8100 Series Hardware**   1-1

Safety Warnings   1-2

Hardware Requirements   1-3

Tools Required for the Installation   1-4

Environmental Requirements for the Cisco Unified MeetingPlace 8106   1-4

Environmental Requirements for the Cisco Unified MeetingPlace 8112   1-5

Power Requirements for the Cisco Unified MeetingPlace 8100 Series   1-5

T1 Digital Trunk Requirements for Cisco Unified MeetingPlace Systems   1-6

T1-Supported Protocols for Cisco Unified MeetingPlace Systems   1-7

Wiring Requirements for Customer-Supplied Connectors—U.S., Canada, and Hong Kong   1-9

Wiring Requirements for Customer-Supplied Connectors—U.K., Singapore, and India   1-9

E1 Digital Trunk Requirements for Cisco Unified MeetingPlace Systems   1-10

E1-Supported Protocols for Cisco Unified MeetingPlace Systems   1-10

Modem Requirements for Cisco Unified MeetingPlace Systems   1-11

LAN Requirements for Cisco Unified MeetingPlace Systems   1-12

LAN Cable Requirements for Cisco Unified MeetingPlace Systems   1-13

---

## CHAPTER 2

### **Installing the Cisco Unified MeetingPlace 8100 Series Hardware**   2-1

Contents of Shipped Boxes for the Cisco Unified MeetingPlace Audio Server System   2-1

Mounting the Cisco Unified MeetingPlace 8100 Series   2-3

    Mounting the Cisco Unified MeetingPlace 8106 in a 19-Inch Frame-Relay Rack   2-3

    Mounting the Cisco Unified MeetingPlace 8112 in a 19- or 23-Inch Frame-Relay Rack   2-4

    Mounting the Cisco Unified MeetingPlace 8106 in a 19-Inch EIA Equipment Rack   2-5

Mounting the Cisco Unified MeetingPlace 8112 into a 19- or 23-Inch EIA Equipment Rack	2-6
Mounting the Breakout Box for T1 PRI and E1 Cisco Unified MeetingPlace Systems	2-7
Connecting the Cables to the Cisco Unified MeetingPlace 8100 Series	2-10
Connecting the Power Cable to the Cisco Unified MeetingPlace 8100 Series	2-11
Connecting the SCSI Cable to the Cisco Unified MeetingPlace 8112	2-11
Connecting the LAN Cable to the Cisco Unified MeetingPlace 8100 Series	2-11
Connecting T1 CAS Telephony Cables for a Cisco Unified MeetingPlace 8106	2-12
Connecting T1 CAS Telephony Cables for a Cisco Unified MeetingPlace 8112	2-13
About Telephony Configurations for E1 and T1 PRI Cisco Unified MeetingPlace Systems	2-15
Connecting E1 or T1 PRI Telephony Cables with One Multi Access Blade MP-MA-16-PRI	2-19
Connecting E1 or T1 PRI Telephony Cables with One Multi Access Blade MP-MA-4-PRI	2-23
Connecting E1 or T1 PRI Telephony Cables with Two Multi Access Blade MP-MA-4-PRIs	2-24
Connecting E1 or T1 PRI Telephony Cables with One Multi Access Blade MP-MA-16-PRI and One Multi Access Blade MP-MA-4-PRI	2-25
Connecting E1 or T1 PRI Telephony Cables with Two Multi Access Blade MP-MA-16-PRIs	2-26
About Telephony Configurations for IP Cisco Unified MeetingPlace Systems	2-27
Connecting IP Telephony Cables for Cisco Unified MeetingPlace Systems	2-28
About Telephony Configurations for Mixed Cisco Unified MeetingPlace Systems	2-30
Connecting the Telephony Cables for an E1/IP or T1 PRI/IP Cisco Unified MeetingPlace System	2-32
Connecting the Telephony Cables for a T1 CAS/IP Cisco Unified MeetingPlace System	2-35
Installing and Connecting the Modem	2-36

## CHAPTER 3

### Connecting and Setting Up Your Laptop Computer 3-1

Connecting Your Laptop to Cisco Unified MeetingPlace	3-1
About Configuring Your Laptop	3-2
Setting Up HyperTerminal	3-3
Logging Your HyperTerminal Session	3-3
Setting Up Dial-Up Networking	3-4
Testing the Modem Connection	3-4

## CHAPTER 4

### Upgrading the Cisco Unified MeetingPlace Audio Server Software 4-1

Upgrading the Cisco Unified MeetingPlace Audio Server Software to Release 6.0	4-1
Testing the Upgrade	4-3

## CHAPTER 5

### Testing the Cisco Unified MeetingPlace Audio Server System Installation and Upgrade 5-1

Powering Up the Cisco Unified MeetingPlace Audio Server System	5-1
About Testing the Cisco Unified MeetingPlace Audio Server System Installation or Upgrade	5-2
Testing Inbound Calls for T1 CAS, T1 PRI, and E1 Telephony by Using Circular Hunting	5-3

Testing Inbound Calls for T1 CAS, T1 PRI, and E1 Telephony by Using a Dialing Sequence	5-4
Testing Outbound Calls for T1 CAS, T1 PRI, and E1 Telephony	5-4
Testing Scheduling	5-5
Testing Conferencing in Recorded Meetings	5-6
Testing Conferencing in Nonrecorded Meetings with Ad Hoc Recording	5-6
Testing Cisco Unified MeetingPlace Web Conferencing	5-6
Testing Network Latency	5-7

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## CHAPTER 6

### **Maintaining the Cisco Unified MeetingPlace Audio Server System** 6-1

Replacing the Filter in the Power Supply Unit Fan (Cisco Unified MeetingPlace 8112 Only)	6-1
Enabling Server Disk Capacity Monitoring	6-3

---

## CHAPTER 7

### **Troubleshooting the Cisco Unified MeetingPlace Audio Server System Installation** 7-1

Troubleshooting the Connection to the Audio Server System	7-1
Troubleshooting Telephony Configuration	7-2

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## APPENDIX A

### **Cisco Unified MeetingPlace Audio Server Software Upgrade Reference** A-1

Viewing the Remote Upgrade for a Sample Session Without a Disk Backup	A-1
Viewing the Upgrade Status for a Remote Upgrade Session	A-3
Viewing the Real-Time Upgrade Status for a Remote Upgrade Session	A-3
Viewing the Onsite Upgrade for a Sample Session Without a Disk Backup	A-16

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## INDEX





## Preface

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This preface contains the following sections:

- [Purpose, page vii](#)
- [Audience, page vii](#)
- [Documentation Conventions, page ix](#)
- [Cisco Unified MeetingPlace Documentation, page x](#)
- [New Feature and Enhancement Information, page x](#)
- [Obtaining Documentation, Obtaining Support, and Security Guidelines, page x](#)

## Purpose

This guide describes how to install and maintain the Cisco Unified MeetingPlace 8100 series hardware for a Cisco Unified MeetingPlace Audio Server Release 6.0 system. It also describes how to upgrade the Audio Server software to Release 6.0 from Release 5.3 or 5.4.

This guide does not describe how to install, configure, or use hardware or software for other Cisco Unified MeetingPlace components.

## Audience

This guide is for Cisco Unified MeetingPlace system administrators. It assumes the following considerations:

- You have a thorough understanding of voice and data terminology and concepts.
- You are familiar with Cisco Unified MeetingPlace and networking concepts.

## Naming Conventions

Earlier releases of Cisco Unified MeetingPlace Audio Server were called “MeetingPlace Server” or “MeetingServer.” In this guide, “Cisco Unified MeetingPlace Audio Server” and “Audio Server” refer to all releases past and present.

[Table 1](#) describes other terms used throughout the Cisco Unified MeetingPlace set of documents.

**Table 1**      **Product Naming Conventions**

Term	Definition	Used in This Document As
Cisco Unified MeetingPlace 8100 series server	Includes Cisco Unified MeetingPlace 8106 and Cisco Unified MeetingPlace 8112 servers.	Cisco Unified MeetingPlace 8100 series
Cisco Unified MeetingPlace 8106 Server	Hardware on which Cisco Unified MeetingPlace Audio Server software runs.	Cisco Unified MeetingPlace 8106
Cisco Unified MeetingPlace 8112 Server	Hardware on which Cisco Unified MeetingPlace Audio Server software runs. (This server was called M3 in Releases 5.2 and earlier.)	Cisco Unified MeetingPlace 8112
Cisco Unified MeetingPlace Audio Server	Software that runs on the Cisco Unified MeetingPlace 8100 series server.	Cisco Unified MeetingPlace Audio Server
Cisco Unified MeetingPlace Audio Server system	Cisco Unified MeetingPlace 8106 or Cisco Unified MeetingPlace 8112 running Cisco Unified MeetingPlace Audio Server.	Cisco Unified MeetingPlace Audio Server system or Audio Server system
Cisco Unified MeetingPlace MeetingNotes	A Cisco Unified MeetingPlace Audio Server feature by which users record meetings and listen to meeting recordings.	MeetingNotes
Cisco Unified MeetingPlace MeetingTime	Windows desktop software through which system administrators can access and configure Cisco Unified MeetingPlace Audio Server.	MeetingTime
Cisco MCS Unified CallManager Appliance	Hardware on which Cisco Unified MeetingPlace applications are installed.	Cisco MCS
Cisco Unified MeetingPlace Web Conferencing server	A Cisco MCS installed with Cisco Unified MeetingPlace Web Conferencing.	web server All references to a “web server” in this guide refer to the Cisco Unified MeetingPlace Web Conferencing server.

[Table 2](#) describes the country conventions used throughout this guide.

**Table 2**      **Country Conventions**

Convention	Represents
European Union	Specific information for European Union countries
Hong Kong	Specific information for Hong Kong
India	Specific information for India
Japan	Specific information for Japan
Singapore	Specific information for Singapore
U.S. and Canada	Specific information for the United States and Canada
U.K.	Specific information for the United Kingdom



# Documentation Conventions

**Table 3** Conventions for Cisco Unified MeetingPlace Documentation

Convention	Description
<b>boldfaced text</b>	Used for: <ul style="list-style-type: none"> <li>Commands that you must enter exactly as shown.</li> <li>Key and button names.</li> <li>Information that you enter.</li> </ul>
<i>italicized text</i>	Used for arguments for which you supply values.
[ ] (square brackets)	Used for elements that are optional.
text in Courier font	Used for information that appears on the screen.
^ (caret)	Used to indicate use of the Control key. (For example, ^D means press the Control and D keys simultaneously.)
< > (angle brackets)	Used for nonprinting characters, such as passwords.

Cisco Unified MeetingPlace documentation also uses the following conventions:



## Note

Means reader take note. Notes contain helpful suggestions or references to material not covered in the document.



## Caution

Means reader be careful. In this situation, you might do something that could result in equipment damage or loss of data.



## Warning

### IMPORTANT SAFETY INSTRUCTIONS

This warning symbol means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. Use the statement number provided at the end of each warning to locate its translation in the translated safety warnings that accompanied this device. Statement 1071

### SAVE THESE INSTRUCTIONS

Translations of safety warnings included in this guide are available online in *Regulatory Compliance and Safety Information for Cisco Unified MeetingPlace 8100 Series* at [http://www.cisco.com/en/us/products/sw/ps5664/ps5669/prod\\_installation\\_guides\\_list.html](http://www.cisco.com/en/us/products/sw/ps5664/ps5669/prod_installation_guides_list.html).

# Cisco Unified MeetingPlace Documentation

For descriptions and locations of Cisco Unified MeetingPlace documentation on Cisco.com, see the *Documentation Guide for Cisco Unified MeetingPlace*. The document is shipped with Cisco Unified MeetingPlace and is available at [http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products\\_documentation\\_roadmaps\\_list.html](http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_documentation_roadmaps_list.html).

## New Feature and Enhancement Information

For information on new and changed functionality in Cisco Unified MeetingPlace Audio Server, refer to *Release Notes for Cisco Unified MeetingPlace Audio Server* at [http://www.cisco.com/en/us/products/sw/ps5664/ps5669/prod\\_release\\_notes\\_list.html](http://www.cisco.com/en/us/products/sw/ps5664/ps5669/prod_release_notes_list.html).

## Obtaining Documentation, Obtaining Support, and Security Guidelines

For information on obtaining documentation, obtaining support, providing documentation feedback, security guidelines, and also recommended aliases and general Cisco documents, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>



# CHAPTER 1

## Preparing to Install the Cisco Unified MeetingPlace 8100 Series Hardware

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This chapter describes the requirements and hardware specifications for a Cisco Unified MeetingPlace 8100 series server.

To ensure that the Cisco Unified MeetingPlace configuration integrates within your environment, refer to the configuration worksheets in the *Installation Planning Guide for Cisco Unified MeetingPlace Release 6.0* at

[http://www.cisco.com/en/US/products/sw/ps5664/ps5669/prod\\_installation\\_guides\\_list.html](http://www.cisco.com/en/US/products/sw/ps5664/ps5669/prod_installation_guides_list.html).

Complete the pertinent worksheets before proceeding with the installation.



### Caution

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Do not proceed with the installation until you have fulfilled every requirement in this chapter.

---

This chapter contains the following sections:

- [Safety Warnings, page 1-2](#)
- [Hardware Requirements, page 1-3](#)
- [Tools Required for the Installation, page 1-4](#)
- [Environmental Requirements for the Cisco Unified MeetingPlace 8106, page 1-4](#)
- [Environmental Requirements for the Cisco Unified MeetingPlace 8112, page 1-5](#)
- [Power Requirements for the Cisco Unified MeetingPlace 8100 Series, page 1-5](#)
- [T1 Digital Trunk Requirements for Cisco Unified MeetingPlace Systems, page 1-6](#)
- [T1-Supported Protocols for Cisco Unified MeetingPlace Systems, page 1-7](#)
- [Wiring Requirements for Customer-Supplied Connectors—U.S., Canada, and Hong Kong, page 1-9](#)
- [Wiring Requirements for Customer-Supplied Connectors—U.K., Singapore, and India, page 1-9](#)
- [E1 Digital Trunk Requirements for Cisco Unified MeetingPlace Systems, page 1-10](#)
- [E1-Supported Protocols for Cisco Unified MeetingPlace Systems, page 1-10](#)
- [Modem Requirements for Cisco Unified MeetingPlace Systems, page 1-11](#)
- [LAN Requirements for Cisco Unified MeetingPlace Systems, page 1-12](#)
- [LAN Cable Requirements for Cisco Unified MeetingPlace Systems, page 1-13](#)

# Safety Warnings

Read the following safety warnings before you begin installing the Cisco Unified MeetingPlace Audio Server system. Translations of the warnings are available online in *Regulatory Compliance and Safety Information for Cisco MeetingPlace 8100 Series* at

[http://www.cisco.com/en/US/products/sw/ps5664/ps5669/prod\\_installation\\_guides\\_list.html](http://www.cisco.com/en/US/products/sw/ps5664/ps5669/prod_installation_guides_list.html).



Warning

To prevent bodily injury when mounting or servicing this unit in a rack, you must take special precautions to ensure that the system remains stable. The following guidelines are provided to ensure your safety:

- This unit should be mounted at the bottom of the rack if it is the only unit in the rack.
- When mounting this unit in a partially filled rack, load the rack from the bottom to the top with the heaviest component at the bottom of the rack.
- If the rack is provided with stabilizing devices, install the stabilizers before mounting or servicing the unit in the rack. Statement 1006



Warning

Do not work on the system or connect or disconnect cables during periods of lightning activity. Statement 1001



Warning

This unit is intended for installation in restricted access areas. A restricted access area can be accessed only through the use of a special tool, lock and key, or other means of security. Statement 1017



Warning

To avoid electric shock, do not connect safety extra-low voltage (SELV) circuits to telephone-network voltage (TNV) circuits. LAN ports contain SELV circuits, and WAN ports contain TNV circuits. Some LAN and WAN ports both use RJ-45 connectors. Use caution when connecting cables. Statement 1021



Warning

Before working on a chassis or working near power supplies, unplug the power cord on AC units. Statement 12



Warning

The plug-socket combination must be accessible at all times, because it serves as the main disconnecting device. Statement 1019



Warning

This product requires short-circuit (overcurrent) protection, to be provided as part of the building installation. Install only in accordance with national and local wiring regulations. Statement 1045



Warning

Hazardous voltage or energy is present on the backplane when the system is operating. Use caution when servicing. Statement 1034

**Warning**

Blank faceplates and cover panels serve three important functions: they prevent exposure to hazardous voltages and currents inside the chassis; they contain electromagnetic interference (EMI) that might disrupt other equipment; and they direct the flow of cooling air through the chassis. Do not operate the system unless all cards, faceplates, front covers, and rear covers are in place. Statement 1029

**Warning**

Class 1 laser product. Statement 1008

**Warning**

Do not stare into the beam or view it directly with optical instruments. Statement 1011

**Warning**

Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations. Statement 1036

**Warning**

Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface. Statement 1037

**Warning**

Use caution when installing or modifying telephone lines. Statement 177

**Warning**

This equipment must be grounded. Never defeat the ground conductor or operate the equipment in the absence of a suitably installed ground conductor. Contact the appropriate electrical inspection authority or an electrician if you are uncertain that suitable grounding is available. Statement 1024

## Hardware Requirements

The Cisco Unified MeetingPlace Audio Server system requires a Cisco Unified MeetingPlace 8100 series server.

For a new Release 6.0 system, Cisco Unified MeetingPlace Audio Server software is installed in manufacturing, so you do not need to install Audio Server software.

**Note**

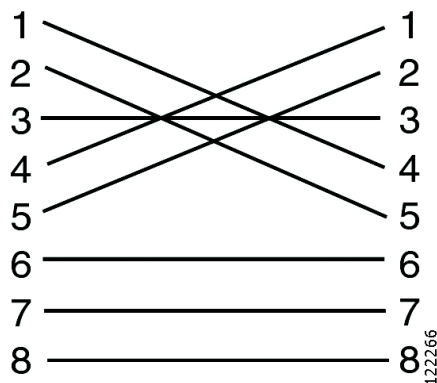
The Cisco Unified MeetingPlace Audio Server must be connected to a network switch port that is configured for auto-negotiate. Cisco Unified MeetingPlace gateways must be connected to network switch ports that are configured for 100/1000 MB Full Duplex.

## Tools Required for the Installation

Before installing the Cisco Unified MeetingPlace Audio Server, confirm that you have the following tools necessary for a successful installation:

- Laptop computer.
- Null modem female to female DB9 serial cable. Cisco Systems provides this cable. (For details, see the [“Connecting Your Laptop to Cisco Unified MeetingPlace”](#) section on page 3-1.)
- Screwdriver with a type #2 blade.
- Phillips #1 screwdriver.
- Phillips #2 screwdriver.
- Antistatic grounding strap.
- Connectivity tester (ohm tester or pen light).
- Crossover cable for RJ-48 connectors. Cisco Systems provides this cable. See [Figure 1-1](#).

**Figure 1-1** Crossover-Cable Pinouts



## Environmental Requirements for the Cisco Unified MeetingPlace 8106

The recommended operating temperature range for the Cisco Unified MeetingPlace 8106 is 50 to 95 degrees Fahrenheit with a noncondensing humidity of 5 to 80 percent.

It is essential to keep the Cisco Unified MeetingPlace 8106 equipment cool. The Cisco Unified MeetingPlace 8106 has an internal fan assembly with four fans. To ensure that all Cisco Unified MeetingPlace 8106 components are adequately cooled, the Cisco Unified MeetingPlace 8106 must meet the following requirements:

- At least 1.5 inches of clearance in the front and back of the Cisco Unified MeetingPlace 8106.
- At least 0.5 inches of clearance to the right and left of the Cisco Unified MeetingPlace 8106.
- At least 0.5 inches of clearance on the top and bottom of the Cisco Unified MeetingPlace 8106.
- Fill or cover all module slots (use filler panels in empty slots).
- Airflow in an open frame rack or in an enclosed cabinet must be from left to right.

# Environmental Requirements for the Cisco Unified MeetingPlace 8112

The recommended operating temperature range for the Cisco Unified MeetingPlace 8112 is 50 to 104 degrees Fahrenheit with a noncondensing humidity of 5 to 80 percent.

It is essential to keep the Cisco Unified MeetingPlace 8112 equipment cool. The Cisco Unified MeetingPlace 8112 has three internal DC-powered fans. To ensure that all Cisco Unified MeetingPlace 8112 components are adequately cooled, the Cisco Unified MeetingPlace 8112 must meet the following requirements:

- At least 24 inches of clearance in the back of the Cisco Unified MeetingPlace 8112.
- At least 1.75 inches of clearance on top of the Cisco Unified MeetingPlace 8112.
- Fill or cover all module slots (use filler panels in empty slots).
- Airflow in an open frame rack must be from front to back.
- Airflow in an enclosed cabinet must be from front to back and bottom to top.

## Power Requirements for the Cisco Unified MeetingPlace 8100 Series

Power for the Cisco Unified MeetingPlace 8100 series must come from a totally dedicated circuit breaker within 8 feet of the equipment. In addition, the site must have additional power outlets for test and maintenance equipment.

Do not plug any other electrical devices into an outlet connected to the circuit breaker serving the Cisco Unified MeetingPlace 8100 series.

### Cisco Unified MeetingPlace 8106 requirements

- 100-240V
- 3 A
- 50/60 Hz

### Cisco Unified MeetingPlace 8112 requirements

- 100-115/200-230V
- 6/3 A
- 50/60 Hz

If the power in your area is susceptible to fluctuations or interruptions, consider installing surge suppressors or connecting the Cisco Unified MeetingPlace Audio Server system to an uninterruptible power supply (UPS). If the Audio Server system loses power, it does not maintain its telephony connections.

The Cisco Unified MeetingPlace 8106 draws a maximum of 300 watts of power and produces a maximum of 1364 BTU per hour. The Cisco Unified MeetingPlace 8112 draws a maximum of 600 watts of power and produces a maximum of 2048 BTU per hour.

[Table 1-1](#) lists the power requirements by country for the Cisco Unified MeetingPlace 8100 series.

**Table 1-1 Power Requirements by Country for the Cisco Unified MeetingPlace 8100 Series**

Country	Power	Socket
U.S. Canada	115 VAC	NEMA 5-15R socket. Outlet installed within 8 feet of the Audio Server.
Hong Kong European Union	240 VAC	BS-1363 socket. Outlet installed within 8 feet of the Audio Server.
Japan	100 VAC (50 Hz for East Japan; 60 Hz for West Japan)	NEMA 5-15R socket. Outlet installed within 8 feet of the Audio Server.

## T1 Digital Trunk Requirements for Cisco Unified MeetingPlace Systems

T1 Smart Blades support digital connections to a PBX system or to a public switched phone network (PSTN). The framing for the digital lines can be either Extended Superframe (ESF) or D4 framing. The digital lines can use either Binary 8-Zero Substitution (B8ZS) or jammed-bit coding.

We recommend using ESF framing and B8ZS coding. Using D4 framing or jammed-bit coding may not be satisfactory.



### Caution

Supplemental earth grounding is required at all times. This supplemental grounding consists of a grounding cable that is attached to supplemental ground lugs on the back of the Cisco Unified MeetingPlace Audio Server chassis and is permanently connected to an earth ground point at the other end through an appropriate facilities-grounding terminal.

You must use shielded cables, and you must electrically terminate the shield at the back of the Cisco Unified MeetingPlace Audio Server.

Note the following considerations:

- Cisco Unified MeetingPlace supports fractional T1 services and has complete flexibility to activate any or all ports on a span.
- Cisco Unified MeetingPlace can use dialed-number information to directly connect the caller to a meeting or to determine the Cisco Unified MeetingPlace services to which the caller has access.
- You can configure Cisco Unified MeetingPlace to support devices where the T1 trunk does not provide any signaling and is always offhook. This is used in applications where a clear channel connection is required.

Table 1-2 lists the T1 digital trunk requirements by country for a Cisco Unified MeetingPlace system.



**Table 1-2 T1 Digital Trunk Requirements by Country**

Country	Requirements
U.S. Canada Hong Kong	<p>Public network to Channel Service Unit (CSU) connection—recEive and transMit (E&amp;M) wink start (line side and trunk side). Ground start or loop start (line side only).</p> <p>U.S. only—FCC and CSA-listed CSU required.</p> <p>Customer-supplied connectors—USOC (male) RJ-48 jacks. See the <a href="#">“Wiring Requirements for Customer-Supplied Connectors—U.S., Canada, and Hong Kong”</a> section on page 1-9.</p> <p>Cable provided by Cisco Systems—25-foot shielded twisted-pair cable with ferrite.</p> <p>PBX to CSU connection—FCC and CSA-listed CSU required for connections over 600 feet. The Cisco Unified MeetingPlace system ships with a 25-foot shielded cable with ferrite beads for each T1 span. The cable terminates in an RJ-48 connector. Listed CSU is provided for overvoltage protection for the T1 Smart Blades.</p>
Japan	<p>T1 connection into PBX with INS1500-to-T1 converter.</p> <p>Customer-supplied connectors—RJ-45 connector.</p> <p>Cable provided by Cisco Systems—50-foot shielded cable (male-male). One per T1 span.</p>
Australia	Cisco Systems does not supply any T1 cables with Cisco Unified MeetingPlace Audio Server systems that are shipped to Australia.

In some cases, the cables that Cisco Systems provides may not be appropriate for your Private Branch eXchange (PBX) or Network Interface Unit (NIU) side connections. If this is the case, create your own custom cables.

Custom T1 CAS (channel-associated signaling) and IP cables require the following:

- Cat5e STP UTP cable with shielded RJ-45 connectors terminated to the cable shield at both ends.
- Add the ferrite that is on the cable supplied by Cisco Systems.

**Caution**

(U.S. only) The FCC Part 68 registration number is EMC USA-34550-XD-T. Be sure to use only FCC and CSA or UL-listed CSUs.

## T1-Supported Protocols for Cisco Unified MeetingPlace Systems

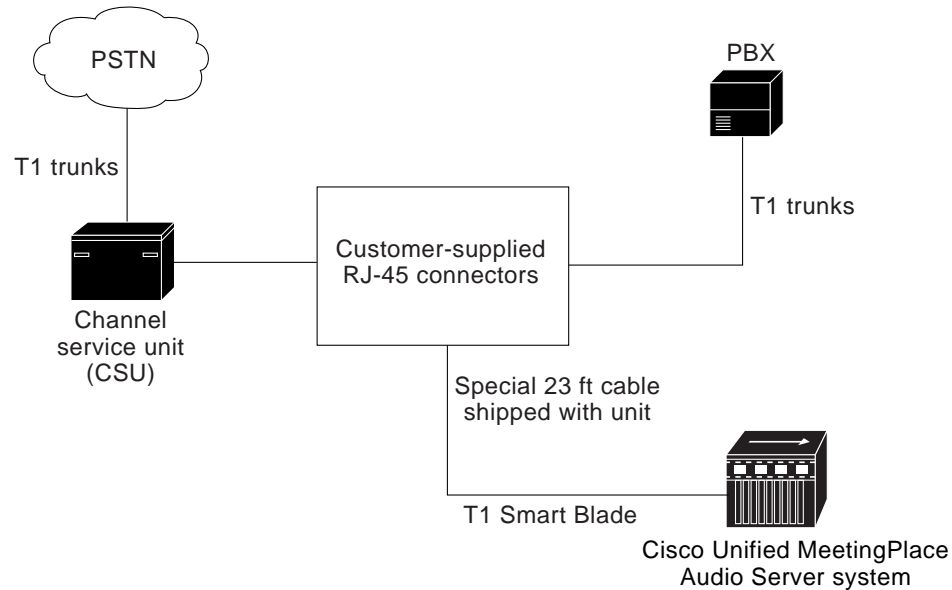
The following protocols are supported for T1 digital trunks:

- T1 CAS Cisco Unified MeetingPlace systems—E&M wink start, ground start, and loop start
- T1 PRI Cisco Unified MeetingPlace systems—AT&T (TR41459), Telcordia Technologies (NI-2), and Nortel (DMS-100)

End-to-end positive disconnect supervision is essential. Without it, Cisco Unified MeetingPlace cannot reliably tell when a caller hangs up. Many PBX and central office systems can provide disconnect signaling; we recommend E&M wink start lines because they provide for a positive answer and disconnect supervision. In many cases, the person taking the order for the lines will not understand your request, so you will probably need to escalate the request to someone with a technical background.

Figure 1-2 illustrates the Cisco Unified MeetingPlace digital telephony connections with T1 trunks.

**Figure 1-2 Cisco Unified MeetingPlace Digital Connection Requirements—T1**



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# Wiring Requirements for Customer-Supplied Connectors—U.S., Canada, and Hong Kong

[Table 1-3](#) and [Table 1-4](#) describe wiring requirements for customer-supplied RJ-48 connectors.

**Table 1-3** *Wiring of RJ-48 Connectors*

Pin	Name	Description
1	T1	Cisco Unified MeetingPlace received signal - tip
2	R1	Cisco Unified MeetingPlace received signal - ring
4	T	Cisco Unified MeetingPlace outgoing signal - tip
5	R	Cisco Unified MeetingPlace outgoing signal - ring

To identify the pins, hold the RJ-48 connector as if you are going to plug it in with the tab down. Pin 1 is on the left.

If transmit and receive need to be reversed, also reverse the pins. See [Table 1-4](#).

**Table 1-4** *Wiring of RJ-48 Connectors When Transmit/Receive Is Reversed*

Pin	Name	Description
1	T	Cisco Unified MeetingPlace outgoing signal - tip
2	R	Cisco Unified MeetingPlace outgoing signal - ring
4	T1	Cisco Unified MeetingPlace received signal - tip
5	R1	Cisco Unified MeetingPlace received signal - ring

# Wiring Requirements for Customer-Supplied Connectors—U.K., Singapore, and India

For the E1 card, the connection from the network interface to the network can be one of the following types:

- RJ-45connector.
- SMB coaxial connectors with SMB/BNC adapters.

[Table 1-5](#) describes wiring requirements for customer-supplied RJ-45 connectors.

**Table 1-5** *Wiring of RJ-45 Connectors*

Pin	Signal	Description	Direction
1	LRT	Receive +ve (tip)	Input
2	LRR	Receive –ve (ring)	Input
4	LTT	Transmit +ve (tip)	Output
5	LTR	Transmit –ve (ring)	Output

# E1 Digital Trunk Requirements for Cisco Unified MeetingPlace Systems

Confirm that the E1 digital trunk specifications meet the requirements in [Table 1-6](#).

**Table 1-6** *E1 Digital Trunk Requirements*

Country	Requirements
European Union	<p>Connection Type—Euro ISDN and QSIG digital telephony (E1).</p> <p>Cable supplied by Cisco Systems—25-foot Cat5 cable with RJ-48c connectors at each end.</p> <p>Socket—Connector must be an RJ-25 socket or an NBNC (female) connector.</p> <p>Cable length (if you provide your own cable)—Maximum cable length is 328 feet.</p>
Australia	Cisco Systems does not supply any E1 cables with Cisco Unified MeetingPlace Audio Server systems that are shipped to Australia.

In some cases, the RJ-48c cables that Cisco Systems provides may not be appropriate for your PBX or NIU-side connections. If this is the case, create your own custom cables. Custom E1 and T1 PRI cables require the following:

- Cat5e UTP cable.
- RJ-48c connector on the breakout box side.
- Add the ferrite that is on the cable that is supplied by Cisco Systems.



## Note

In E1 Cisco Unified MeetingPlace systems, you can connect Cisco Unified MeetingPlace directly to the PSTN. You do not need a CSU.

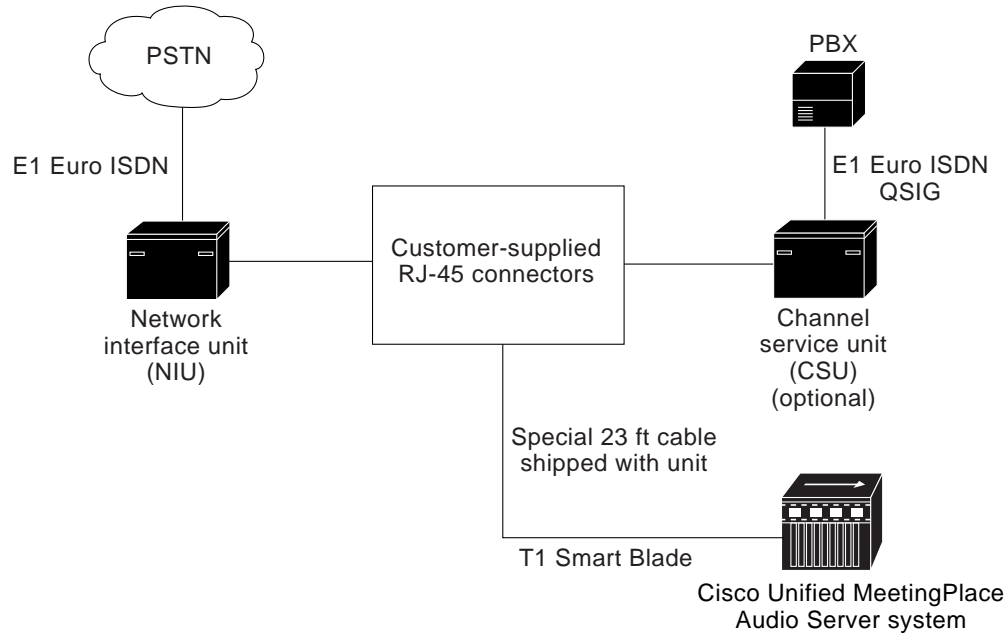
# E1-Supported Protocols for Cisco Unified MeetingPlace Systems

The following protocols are supported for E1 digital trunks:

- Euro-ISDN (ETSI 300-102).
- QSIG (ECMA version)—Channels are numbered 1 to 30.
- QSIG (ETSI version)—Channels are numbered 1 to 15 and 17 to 31.

The Cisco Unified MeetingPlace system supports only E1 PRI protocols. The Cisco Unified MeetingPlace system does not support E1 CAS protocols.

[Figure 1-3](#) illustrates the Cisco Unified MeetingPlace digital telephony connections with E1 trunks.

**Figure 1-3 Cisco Unified MeetingPlace Digital Connection Requirements—E1**

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## Modem Requirements for Cisco Unified MeetingPlace Systems

The Cisco Unified MeetingPlace 8100 series includes an external modem that connects to the Cisco Unified MeetingPlace system through a serial cable. Connect the modem cable from the back of the Cisco Unified MeetingPlace 8100 series to the CPU transition module.

Confirm that you can call the modem extension from the outside so that Cisco TAC can access the Cisco Unified MeetingPlace system.

[Table 1-7](#) lists modem requirements by country for a Cisco Unified MeetingPlace system.

**Table 1-7 Modem Requirements by Country**

Country	Requirements
U.S.	<ul style="list-style-type: none"> <li>U.S. modem supplied by Cisco Systems.</li> </ul>
Canada	<ul style="list-style-type: none"> <li>Serial cable.</li> </ul>
Hong Kong	<ul style="list-style-type: none"> <li>6-foot modem cable.</li> <li>Customer-supplied standard analog phone jack (RJ-11). You must be able to call the extension from the outside.</li> </ul>

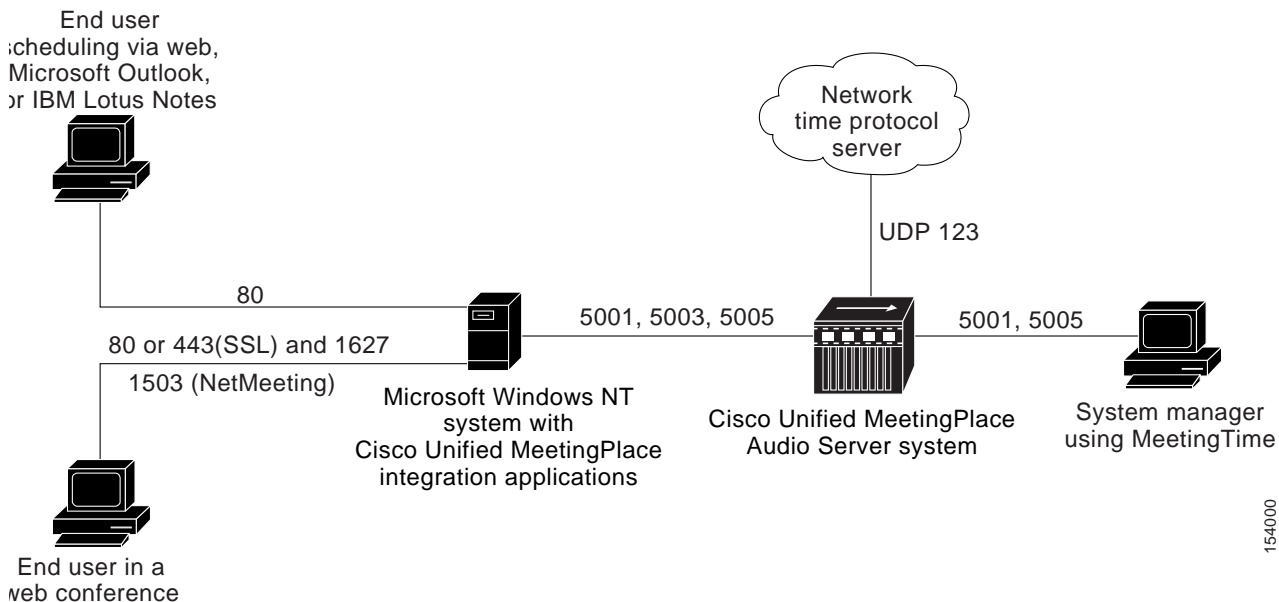
**Table 1-7** *Modem Requirements by Country (continued)*

Country	Requirements
Japan	<ul style="list-style-type: none"> <li>• CE modem supplied by Cisco Systems.</li> <li>• Serial cable.</li> <li>• 8.2-foot modem cable.</li> <li>• Customer-supplied standard analog phone jack (RJ-11). You must be able to call the extension from the outside.</li> </ul>
European Union	<ul style="list-style-type: none"> <li>• Global modem supplied by Cisco Systems.</li> <li>• Serial cable.</li> <li>• Customer-supplied standard analog phone jack (RJ-11). You must be able to call the extension from the outside.</li> </ul>

## LAN Requirements for Cisco Unified MeetingPlace Systems

To connect to other applications, such as MeetingTime and Cisco Unified MeetingPlace Web Conferencing, Cisco Unified MeetingPlace Audio Server systems require certain TCP and User Datagram Protocol (UDP) ports to remain open on your network.

Figure 1-4 illustrates the ports that a Cisco Unified MeetingPlace system uses for communication. Unless otherwise specified, all ports listed are TCP.

**Figure 1-4** *TCP/UDP Port Requirements*

Ensure that the Cisco Unified MeetingPlace Audio Server system resides on a network segment that is free from potential network problems, such as storms, loops, and collisions.

# LAN Cable Requirements for Cisco Unified MeetingPlace Systems

The Cisco Unified MeetingPlace Audio Server system attaches to an Ethernet LAN, which provides all the communication from the Audio Server system to your network. There are two possible scenarios for using an Ethernet LAN cable:

- Connecting from an Audio Server CPU to your network.
- Connecting from an Audio Server Multi Access Blade to your network (for IP ports only).

For all configurations, you need a customer-supplied LAN cable to connect the Audio Server CPU to your network.

For IP configurations, Cisco Systems supplies the necessary LAN cables to connect the Multi Access Blade that is used for the IP configuration to your network.

Table 1-8 lists the LAN cable requirements by country for a Cisco Unified MeetingPlace system.

**Table 1-8 LAN Cable Requirements by Country**

Country	Requirements
U.S. Canada Hong Kong	<p>CPU to LAN cable—For twisted-pair Ethernet, 100BASE-TX. You need to supply an RJ-45 connector.</p> <p>10BASET works but is not recommended.</p> <p>Multi Access Blade to LAN cable—For twisted-pair Ethernet, Cat5e. You need an RJ-45 connector. Cisco Systems provides a 25-foot CAT-5e cable (#3300-0029-02) with a Ferrite snap-on bead on one end. If you change the cable, you must move the snap-on bead.</p> <p><b>Note</b> You must set the Ethernet switch port (or any other network devices) to which the Multi Access Blade connects directly to fixed 100BASE-TX Full Duplex. Otherwise, you may experience decreased voice quality.</p>
Japan	<p>CPU to LAN cable—For twisted-pair Ethernet, 100BASE-TX UTP. You need to supply an RJ-45 connector.</p> <p>10BASET works but is not recommended.</p> <p>Multi Access Blade to LAN cable—For twisted-pair Ethernet, Cat5e. You need an RJ-45 connector. Cisco Systems provides a 25-foot Cat5e cable (#3300-0029-02) with a Ferrite snap-on bead on one end. If you change the cable, you must move the snap-on bead.</p> <p><b>Note</b> You must set the Ethernet switch port (or any other network devices) to which the Multi Access Blade connects directly to fixed 100BASE-TX Full Duplex. Otherwise, you may experience decreased voice quality.</p>
Australia	Cisco Systems does not supply any LAN cables with Cisco Unified MeetingPlace Audio Server systems that are shipped to Australia.







## CHAPTER 2

# Installing the Cisco Unified MeetingPlace 8100 Series Hardware

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This chapter contains the following sections:

- [Contents of Shipped Boxes for the Cisco Unified MeetingPlace Audio Server System, page 2-1](#)
- [Mounting the Cisco Unified MeetingPlace 8100 Series, page 2-3](#)
- [Connecting the Cables to the Cisco Unified MeetingPlace 8100 Series, page 2-10](#)
- [About Telephony Configurations for E1 and T1 PRI Cisco Unified MeetingPlace Systems, page 2-15](#)
- [About Telephony Configurations for IP Cisco Unified MeetingPlace Systems, page 2-27](#)
- [About Telephony Configurations for Mixed Cisco Unified MeetingPlace Systems, page 2-30](#)
- [Installing and Connecting the Modem, page 2-36](#)

## Contents of Shipped Boxes for the Cisco Unified MeetingPlace Audio Server System

All Cisco Unified MeetingPlace Audio Server systems ship in two boxes. One box contains the Cisco Unified MeetingPlace Audio Server and its accessories. The other box contains the telephony cables, modem and modem cables, and the breakout box and cables, if applicable.

Cisco Systems provides the correct number of telephony cables for the Cisco Unified MeetingPlace system:

- The number of IP LAN cables that you receive depends on the number of ports that were purchased for the Cisco Unified MeetingPlace system. You receive one IP LAN cable for every Multi Access Blade in the Cisco Unified MeetingPlace system.
- The number of T1 CAS telephony cables that you receive depends on the number of ports that were purchased for the Cisco Unified MeetingPlace system. You receive one T1 CAS telephony cable for every 24 PSTN ports being activated.

- The number of E1 telephony cables that you receive depends on the number of Multi Access Blades that were purchased for the Cisco Unified MeetingPlace system. You receive 16 cables with each Multi Access Blade.
- The number of T1 PRI telephony cables that you receive depends on the number of Multi Access Blades that were purchased for the Cisco Unified MeetingPlace system. You receive 16 cables with each Multi Access Blade MP-MA-16-PRI and four cables with each Multi Access Blade MP-MA-4-PRI.

The following items are also included in the boxes:

- The Cisco Unified MeetingPlace 8100 series server. Visually inspect the server for damage. If it is damaged or scratched, contact Cisco TAC. (See the [“Obtaining Documentation, Obtaining Support, and Security Guidelines”](#) section on page x.)

Cisco Unified MeetingPlace Audio Server software is installed on the Cisco Unified MeetingPlace 8100 series server in manufacturing, so you do not need to install Audio Server software. The server should already be configured with the correct cards and transition modules as well. If it is not, contact Cisco TAC.



#### Caution

The Cisco Unified MeetingPlace 8106, its peripherals, and the packing materials can weigh up to 75 lbs (34 kg).

The Cisco Unified MeetingPlace 8112, its peripherals, and the packing materials can weigh up to 130 lbs (59 kg).

- Two sets of mounting hardware to mount the Cisco Unified MeetingPlace Audio Server onto the rack:
  - Screws for the Cisco Unified MeetingPlace 8106.
  - Rack-mount rails with 18 Phillips-head screws for the Cisco Unified MeetingPlace 8112.
- Small Computer System Interface (SCSI) cable (Cisco Unified MeetingPlace 8112 only).
- Crossover cable.
- Power cable.
- External modem and cables (modem power cable, modem cable, and phone extension cable).
- IP LAN cables for Multi Access Blades, for Cisco Unified MeetingPlace systems using IP ports. These IP LAN cables connect the Multi Access Blade to your LAN.
- T1 CAS telephony cables for T1 Smart Blades, for Cisco Unified MeetingPlace systems using T1 CAS ports. These T1 CAS telephony cables connect the T1 Smart Blades to the Cisco Unified MeetingPlace system.
- E1 telephony cables, for Cisco Unified MeetingPlace systems using E1 ports. These E1 telephony cables connect the front of the breakout box to the Cisco Unified MeetingPlace system.
- T1 PRI telephony cables, for Cisco Unified MeetingPlace systems using T1 PRI ports. These T1 PRI telephony cables connect the front of the breakout box to the Cisco Unified MeetingPlace system.
- Applicable software, manuals, and license documents.

In addition, Cisco Systems ships the following items with Cisco Unified MeetingPlace systems requiring a breakout box (T1 PRI or E1 configuration):

- Breakout box.
- Screws for mounting the breakout box.

- Trunk card interface cable assemblies (50-pin Amphenol cables). The number of trunk card interface cable assemblies that you receive depends on how many and the type of Multi Access Blades in the Cisco Unified MeetingPlace system. Cisco Systems ships two cables with each MP-MA-16-PRI and one cable with each MP-MA-4-PRI.

## Mounting the Cisco Unified MeetingPlace 8100 Series

Before mounting the Cisco Unified MeetingPlace Audio Server in a rack, confirm that you have met all the requirements in the [“Environmental Requirements for the Cisco Unified MeetingPlace 8106”](#) section on page 1-4 or the [“Environmental Requirements for the Cisco Unified MeetingPlace 8112”](#) section on page 1-5.

The Cisco Unified MeetingPlace 8100 series servers can be mounted in two types of racks:

Cisco Unified MeetingPlace 8106	<ul style="list-style-type: none"> <li>• 19-inch Frame-Relay rack. See the <a href="#">“Mounting the Cisco Unified MeetingPlace 8106 in a 19-Inch Frame-Relay Rack”</a> section on page 2-3.</li> <li>• 19-inch Electronic Industries Alliance (EIA) equipment rack. See the <a href="#">“Mounting the Cisco Unified MeetingPlace 8106 in a 19-Inch EIA Equipment Rack”</a> section on page 2-5.</li> </ul>
Cisco Unified MeetingPlace 8112	<ul style="list-style-type: none"> <li>• 19- or 23-inch Frame-Relay rack. See the <a href="#">“Mounting the Cisco Unified MeetingPlace 8112 in a 19- or 23-Inch Frame-Relay Rack”</a> section on page 2-4.</li> <li>• 19- or 23-inch Electronic Industries Alliance (EIA) equipment rack. See the <a href="#">“Mounting the Cisco Unified MeetingPlace 8112 into a 19- or 23-Inch EIA Equipment Rack”</a> section on page 2-6.</li> </ul>

When mounting the Cisco Unified MeetingPlace Audio Server in a Frame-Relay rack, which is common in central office locations, the Cisco Unified MeetingPlace 8106 is held along the front of the chassis and the Cisco Unified MeetingPlace 8112 is held along the center of the chassis.

After mounting the Cisco Unified MeetingPlace Audio Server, mount the breakout box, if applicable. See the [“Mounting the Breakout Box for T1 PRI and E1 Cisco Unified MeetingPlace Systems”](#) section on page 2-7.

## Mounting the Cisco Unified MeetingPlace 8106 in a 19-Inch Frame-Relay Rack

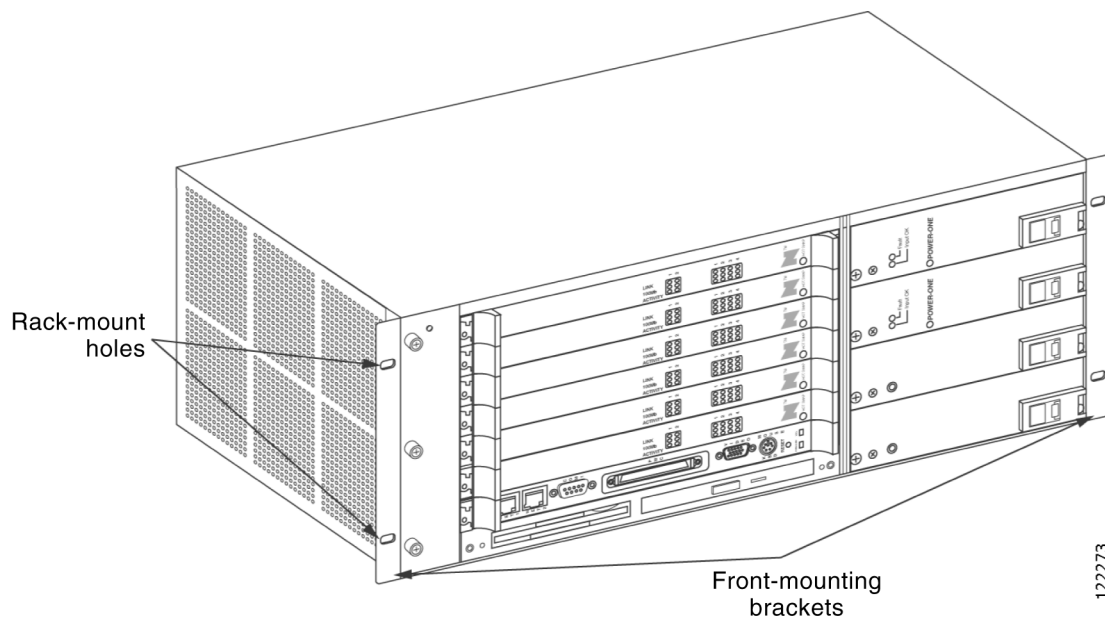
The Cisco Unified MeetingPlace 8106 ships with two mounting brackets already attached to the front of it (see [Figure 2-1](#)). The long sides of the brackets are fastened to the Cisco Unified MeetingPlace 8106.

### To Mount the Cisco Unified MeetingPlace 8106 in a 19-Inch Frame-Relay Rack

- Step 1** Slide the Cisco Unified MeetingPlace 8106 into the front of the rack.

- Step 2** Attach the Cisco Unified MeetingPlace 8106 to the rack. The Cisco Unified MeetingPlace 8106 comes with screws to attach the mounting brackets to the rack. See [Figure 2-1](#).

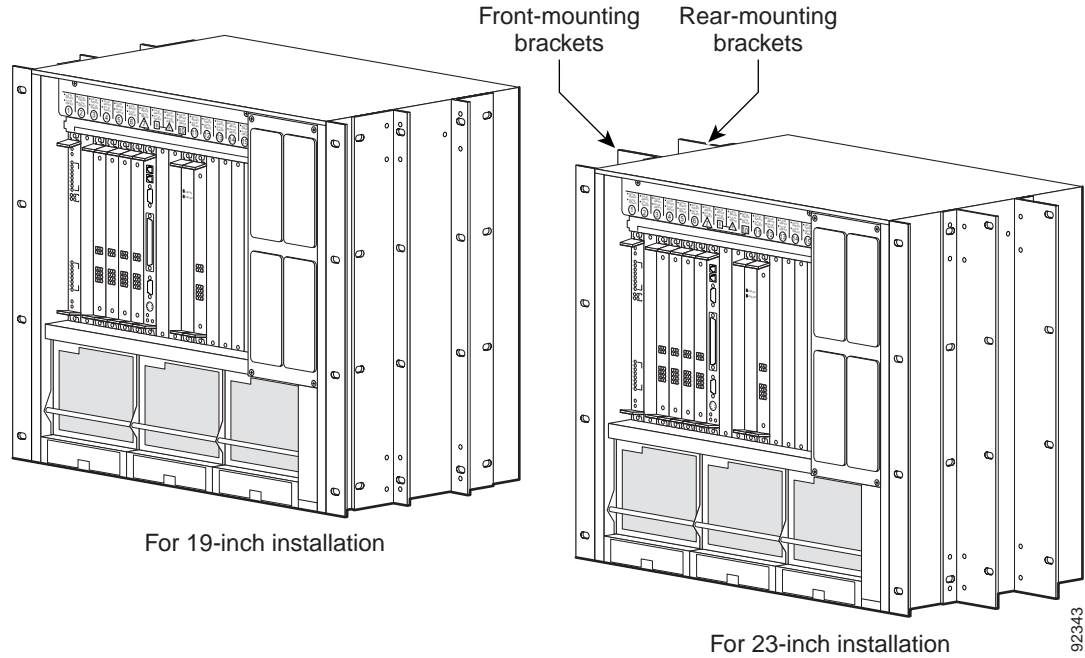
**Figure 2-1** *Mounting the Cisco Unified MeetingPlace 8106 in a Frame-Relay Rack*



## Mounting the Cisco Unified MeetingPlace 8112 in a 19- or 23-Inch Frame-Relay Rack

### To Mount the Cisco Unified MeetingPlace 8112 in a 19- or 23-Inch Frame-Relay Rack

- Step 1** Attach two mounting brackets to the front mounting holes of the Cisco Unified MeetingPlace 8112. See [Figure 2-2](#) below.
- For 19-inch racks, fasten the long side of the bracket to the Cisco Unified MeetingPlace 8112.
  - For 23-inch racks, fasten the short side of the bracket to the Cisco Unified MeetingPlace 8112.
- Step 2** Slide the Cisco Unified MeetingPlace 8112 into the front of the rack.
- Step 3** Attach the Cisco Unified MeetingPlace 8112 to the rack and secure it by using the eight Phillips-head screws that shipped with the Cisco Unified MeetingPlace 8112.
- Step 4** Attach two mounting brackets to the rear mounting holes of the Cisco Unified MeetingPlace 8112. See [Figure 2-2](#) below.
- For 19-inch racks, fasten the long side of the bracket to the Cisco Unified MeetingPlace 8112.
  - For 23-inch racks, fasten the short side of the bracket to the Cisco Unified MeetingPlace 8112.
- Step 5** Secure the rear mounting bracket to the rack with the eight Phillips-head screws that shipped with the Cisco Unified MeetingPlace 8112.

**Figure 2-2** Mounting the Cisco Unified MeetingPlace 8112 in a Frame-Relay Rack

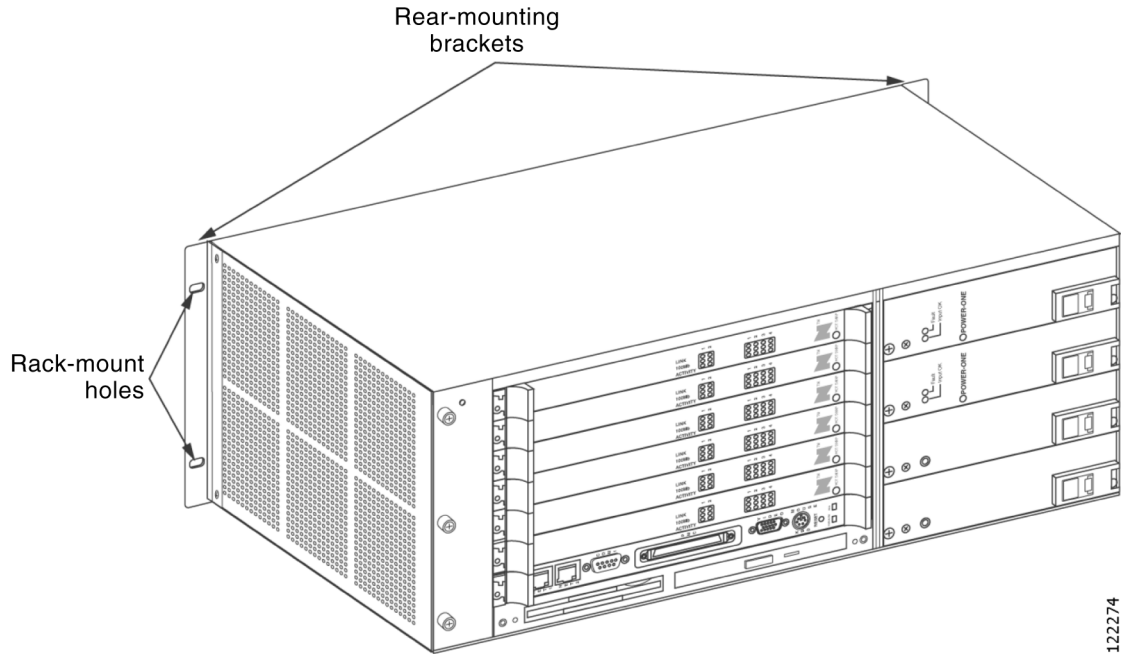
## Mounting the Cisco Unified MeetingPlace 8106 in a 19-Inch EIA Equipment Rack

In a 19-inch EIA equipment rack, you mount the Cisco Unified MeetingPlace 8106 on the back rails. The Cisco Unified MeetingPlace 8106 ships with two mounting brackets already attached to the front (see [Figure 2-3](#)).

### To Mount the Cisco Unified MeetingPlace 8106 in a 19-Inch EIA Equipment Rack

- Step 1** To remove the mounting brackets from the front of the Cisco Unified MeetingPlace 8106 and attach them to the back, remove the two screws on each side of the back of the Cisco Unified MeetingPlace 8106 (four total) and put them aside.
- Step 2** Remove the screws that secure the mounting brackets to the front of the Cisco Unified MeetingPlace 8106 (two on each side).
- Step 3** Attach the brackets to the back of the Cisco Unified MeetingPlace 8106 by using the screws that were originally used to attach the brackets to the front (two on each side).
- Step 4** Reattach the screws removed from the back of the Cisco Unified MeetingPlace 8106 to the holes in the front (where the brackets were originally attached to the front). The brackets are now rear-mounted.
- Step 5** Slide the Cisco Unified MeetingPlace 8106 into the rack.
- Step 6** Attach the Cisco Unified MeetingPlace 8106 mounting brackets to the rack.

**Figure 2-3** Mounting the Cisco Unified MeetingPlace 8106 in an EIA Equipment Rack



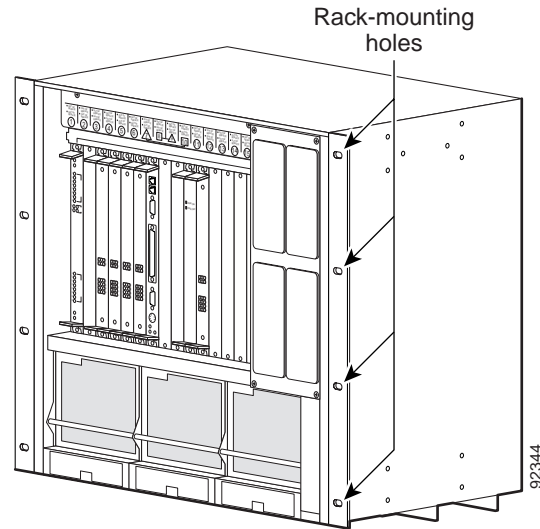
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## Mounting the Cisco Unified MeetingPlace 8112 into a 19- or 23-Inch EIA Equipment Rack

In a 19- or 23-inch EIA equipment rack, you mount the Cisco Unified MeetingPlace 8112 on the front rails.

### To Mount the Cisco Unified MeetingPlace 8112 into a 19- or 23-Inch EIA Equipment Rack

- Step 1** If you are installing the Cisco Unified MeetingPlace 8112 in a 19-inch rack, you do not need any additional mounting equipment. Skip to [Step 2](#).  
If you are installing the Cisco Unified MeetingPlace 8112 in a 23-inch rack, you must obtain extension brackets from the rack manufacturer. Install the optional extender brackets as described by the rack manufacturer.
- Step 2** Slide the Cisco Unified MeetingPlace 8112 into the front of the rack.
- Step 3** Attach the Cisco Unified MeetingPlace 8112 to the rack with the eight Phillips-head screws that shipped with the Cisco Unified MeetingPlace 8112. See [Figure 2-4](#).

**Figure 2-4** Mounting the Cisco Unified MeetingPlace 8112 into an EIA Equipment Rack

## Mounting the Breakout Box for T1 PRI and E1 Cisco Unified MeetingPlace Systems

**Note**

If the Cisco Unified MeetingPlace system does not require a breakout box (T1 PRI or E1 configuration), skip to the [“Connecting the Power Cable to the Cisco Unified MeetingPlace 8100 Series”](#) section on page 2-11.

The breakout box provides a standard RJ-45 telephony interface. The breakout box interfaces to a maximum of 16 cables with an MP-MA-16-PRI and a maximum of 4 cables with each MP-MA-4-PRI. Cisco Systems ships the necessary number of RJ-48c cables to connect each breakout box to your PBX or Telco NIU with each Multi Access Blade.

**Note**

In some cases, the RJ-48c cables provided by Cisco Systems may not be appropriate for your PBX or NIU side connections. If this is the case, create your own custom cables, which require an RJ-48c connector on the breakout box side. (For custom-cable requirements, see the [“E1 Digital Trunk Requirements for Cisco Unified MeetingPlace Systems”](#) section on page 1-10.)

Cisco Systems also ships the necessary number of 50-pin Amphenol cables with the breakout box: two 50-pin Amphenol cables to connect each MP-MA-16-PRI to the breakout box and one 50-pin Amphenol cable to connect each MP-MA-4-PRI to the breakout box.

If the Cisco Unified MeetingPlace system requires two MP-MA-16-PRIs, you need two breakout boxes. (A fully loaded 960-port E1 Cisco Unified MeetingPlace system and a fully loaded 736-port T1 PRI Cisco Unified MeetingPlace system have two MP-MA-16-PRIs.)

**Note**

Only the Cisco Unified MeetingPlace 8112 can have two breakout boxes.

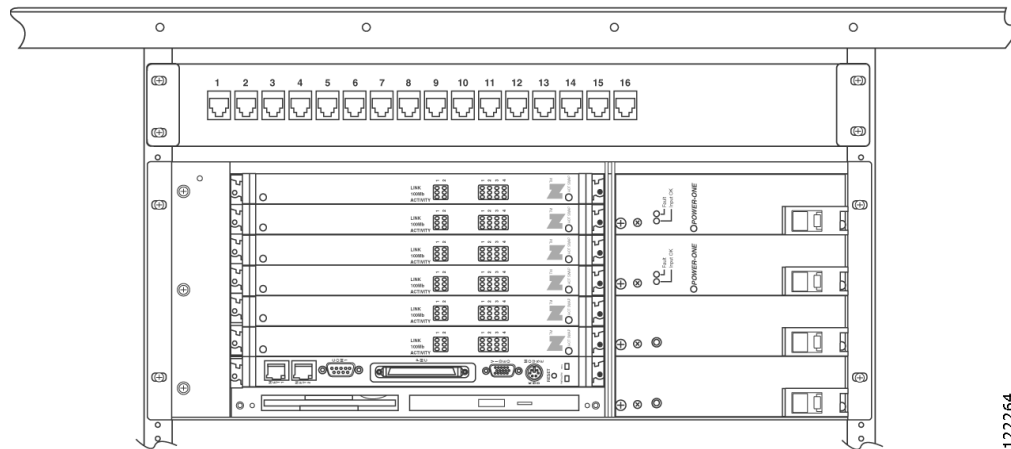
### To Mount the Breakout Box for a T1 PRI or E1 Cisco Unified MeetingPlace System

- Step 1** Locate the breakout box that shipped with the Cisco Unified MeetingPlace Audio Server.
- Step 2** Locate the screws for mounting the breakout box that came with the Cisco Unified MeetingPlace Audio Server.
- Step 3** Use a screwdriver to mount the breakout box in the position directly above the Cisco Unified MeetingPlace Audio Server in the rack, as shown in the applicable figure:

Cisco Unified MeetingPlace 8106	See <a href="#">Figure 2-5</a> .
Cisco Unified MeetingPlace 8112	See <a href="#">Figure 2-6</a> .

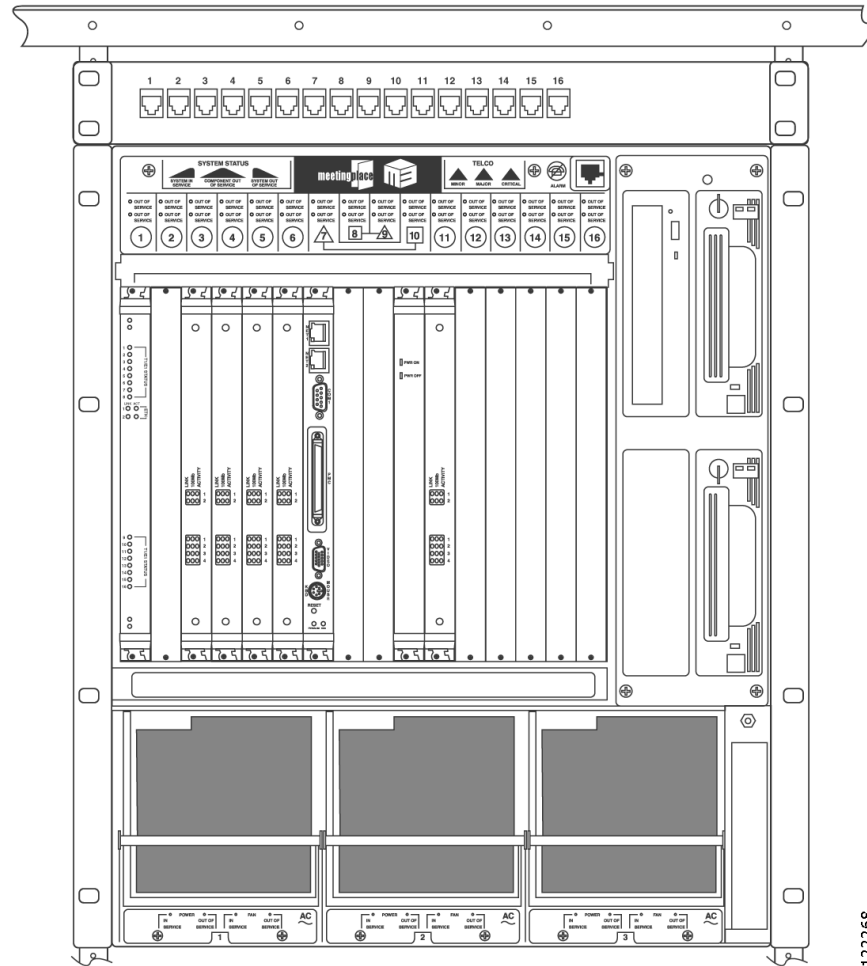
- Step 4** If applicable, mount the second breakout box by repeating [Step 2](#) and [Step 3](#). Place the second breakout box directly above the first breakout box. See [Figure 2-7](#).

**Figure 2-5** Mounting the Breakout Box for a Cisco Unified MeetingPlace 8106

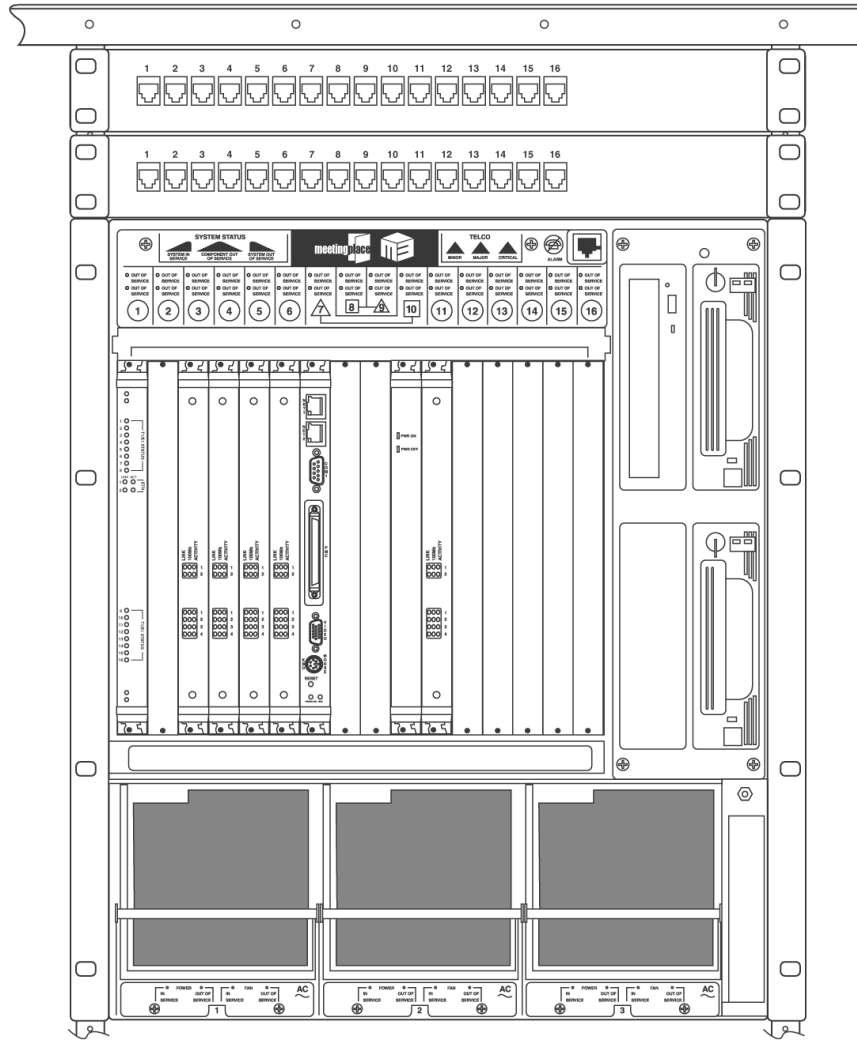


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**Figure 2-6** Mounting the Breakout Box for a Cisco Unified MeetingPlace 8112

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**Figure 2-7** *Mounting Two Breakout Boxes for a Cisco Unified MeetingPlace 8112*

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## Connecting the Cables to the Cisco Unified MeetingPlace 8100 Series

This section contains the following information:

- [Connecting the Power Cable to the Cisco Unified MeetingPlace 8100 Series, page 2-11](#)
- [Connecting the SCSI Cable to the Cisco Unified MeetingPlace 8112, page 2-11](#)
- [Connecting the LAN Cable to the Cisco Unified MeetingPlace 8100 Series, page 2-11](#)
- [Connecting T1 CAS Telephony Cables for a Cisco Unified MeetingPlace 8106, page 2-12](#)
- [Connecting T1 CAS Telephony Cables for a Cisco Unified MeetingPlace 8112, page 2-13](#)

## Connecting the Power Cable to the Cisco Unified MeetingPlace 8100 Series



Warning

This equipment must be grounded. Never defeat the ground conductor or operate the equipment in the absence of a suitably installed ground conductor. Contact the appropriate electrical inspection authority or an electrician if you are uncertain that suitable grounding is available. Statement 1024



Warning

When installing or replacing the unit, the ground connection must always be made first and disconnected last. Statement 1046

### To Connect the Power Cable to the Cisco Unified MeetingPlace 8100 Series

- Step 1** Locate the power cable that shipped with the Cisco Unified MeetingPlace Audio Server.
- Step 2** Attach the socket end of the power cable to the AC inlet on the back of the Cisco Unified MeetingPlace Audio Server.
- Step 3** Plug the other end of the power cable into the AC power source.

## Connecting the SCSI Cable to the Cisco Unified MeetingPlace 8112



Note

The Cisco Unified MeetingPlace 8106 does not have a SCSI cable.

### To Connect the SCSI Cable to the Cisco Unified MeetingPlace 8112

- Step 1** Confirm that the power switch on the Cisco Unified MeetingPlace 8112 is set to off (“O”).
- Step 2** Attach one end of the SCSI cable that came with the Cisco Unified MeetingPlace Audio Server system to the SCSI connector on the back of the floppy-drive housing.
- Step 3** Attach the other end of the SCSI cable to the SCSI port on the CPU transition module in slot 7 on the back of the Cisco Unified MeetingPlace 8112.

## Connecting the LAN Cable to the Cisco Unified MeetingPlace 8100 Series

You must supply the LAN cable to connect the Cisco Unified MeetingPlace Audio Server to the network. See the [“LAN Requirements for Cisco Unified MeetingPlace Systems”](#) section on page 1-12 to confirm that you have the correct LAN cable and connector.

### To Connect the LAN Cable to the Cisco Unified MeetingPlace 8100 Series

- Step 1** Locate the LAN cable.
- Step 2** Plug one end of the LAN cable into the LAN socket.

- Step 3** Plug the other end of the LAN cable into Ethernet connection 1 on the CPU transition module that is located in the back of the Cisco Unified MeetingPlace Audio Server.

## Connecting T1 CAS Telephony Cables for a Cisco Unified MeetingPlace 8106

Each T1 Smart Blade transition module has connectors for four trunk lines in the back of the Cisco Unified MeetingPlace Audio Server.

Looking at the back of the Cisco Unified MeetingPlace 8106, the T1 Smart Blade transition modules begin in slot 1 on the bottom and move up to the top. The cables go from right to left on the bottom slot, then from right to left on the second most bottom slot, and so on up to the top slot, where they continue going from right to left.

Table 2-1 shows the order in which the cables should be placed.

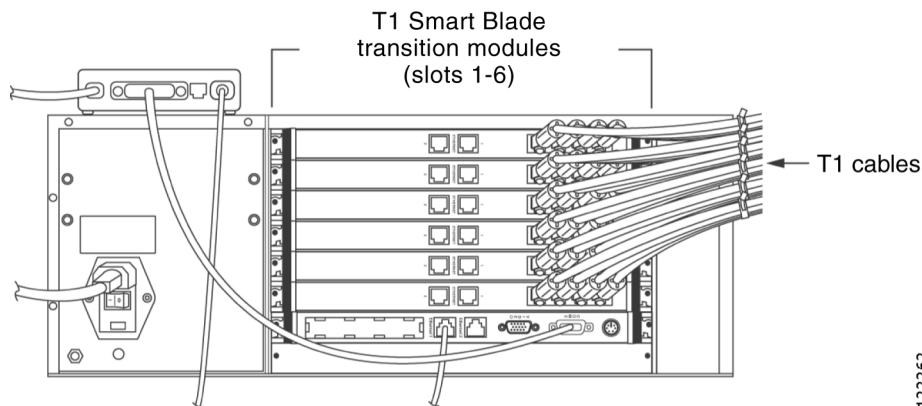
**Table 2-1** Cable Locations in the Cisco Unified MeetingPlace 8106

	Connector	Connector	Connector	Connector
Slot 6	24	23	22	21
Slot 5	20	19	18	17
Slot 4	16	15	14	13
Slot 3	12	11	10	9
Slot 2	8	7	6	5
Slot 1	4	3	2	1

The number of T1 CAS telephony cables that Cisco Systems ships with the Cisco Unified MeetingPlace system depends on the number of ports being activated. Cisco Systems ships one T1 CAS telephony cable for every 24 ports.

Figure 2-8 shows the cable connections for a Cisco Unified MeetingPlace 8106 with 576 T1 CAS ports. Four T1 CAS telephony cables connect to each of the six T1 Smart Blade transition modules for a total of 24 T1 CAS telephony cables. Each cable holds 24 ports for a total of 576 ports (24 x 24 = 576).

**Figure 2-8** Back of Cisco Unified MeetingPlace 8106 with T1s Connected



### To Connect the T1 CAS Telephony Cables for a Cisco Unified MeetingPlace 8106

- 
- Step 1** Locate the T1 CAS telephony cables that shipped with the Cisco Unified MeetingPlace system. Each T1 CAS telephony cable has an RJ-48 connector on each end.
- Step 2** Plug one end of the first T1 CAS telephony cable into the socket.
- Step 3** Plug the other end of the first T1 CAS telephony cable into the T1 Smart Blade transition module in the back of the Cisco Unified MeetingPlace 8106. Place the first T1 CAS telephony cable in the slot nearest the right edge. (See [Table 2-1](#).)
- Step 4** Repeat [Step 2](#) and [Step 3](#) until all the T1 CAS telephony cables are connected:
- Place the second T1 CAS telephony cable in the second connector slot from the right.
  - Place the third T1 CAS telephony cable in the third connector slot from the right.
  - Place the fourth T1 CAS telephony cable in the fourth connector slot from the right.
- Step 5** Install tie wraps and label the T1 CAS telephony cables as needed.
- 

## Connecting T1 CAS Telephony Cables for a Cisco Unified MeetingPlace 8112

Each T1 Smart Blade transition module has connectors for four trunk lines in the back of the Cisco Unified MeetingPlace Audio Server.

Looking at the back of the Cisco Unified MeetingPlace Audio Server, the T1 Smart Blade transition modules begin in slot 1 on the right and move to the left. The cables go from top to bottom in the right most slot, then from top to bottom in the second most right slot, and so on to the left most slot, where they continue going from top to bottom.

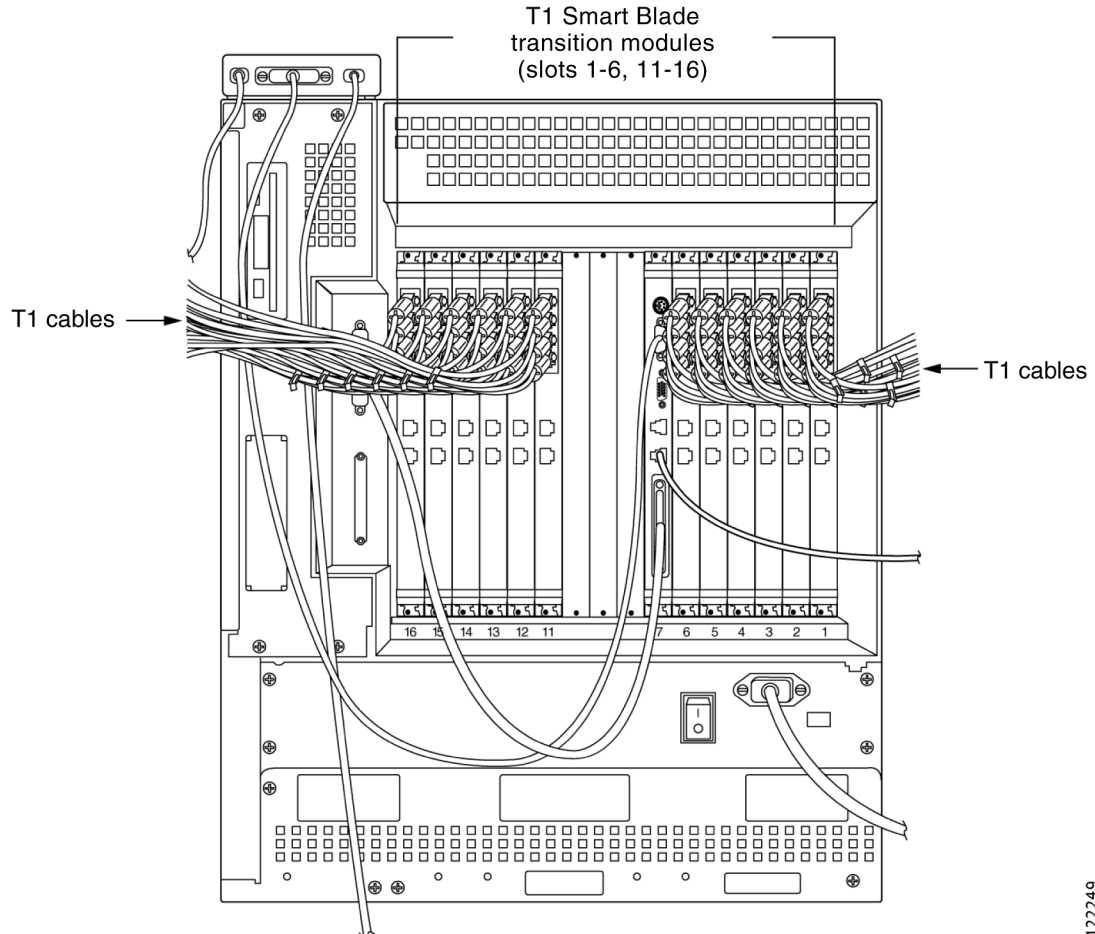
[Table 2-2](#) shows the order in which the cables should be placed. Note that slots 7 to 10 are reserved.

**Table 2-2** Cable Locations in the Cisco Unified MeetingPlace 8112

	Slot 16	Slot 15	Slot 14	Slot 13	Slot 12	Slot 11		Slot 6	Slot 5	Slot 4	Slot 3	Slot 2	Slot 1
Connector	45	41	37	33	29	25		21	17	13	9	5	1
Connector	46	42	38	34	30	26		22	18	14	10	6	2
Connector	47	43	39	35	31	27		23	19	15	11	7	3
Connector	48	44	40	36	32	28		24	20	16	12	8	4

The number of T1 CAS telephony cables that Cisco Systems ships with the Cisco Unified MeetingPlace system depends on the number of ports being activated. Cisco Systems ships one T1 CAS telephony cable for every 24 ports.

[Figure 2-9](#) shows the cable connections for a Cisco Unified MeetingPlace 8112 with 1,152 T1 CAS ports. Four T1 CAS telephony cables connect to each of the 12 T1 Smart Blade transition modules for a total of 48 T1 CAS telephony cables. Each cable holds 24 ports for a total of 1,152 ports ( $48 \times 24 = 1,152$ ).

**Figure 2-9 Back of Cisco Unified MeetingPlace 8112 Audio Server with T1s Connected**

122249

**To Connect the T1 CAS Telephony Cables for a Cisco Unified MeetingPlace 8112**

- 
- Step 1** Locate the T1 CAS telephony cables that shipped with the Cisco Unified MeetingPlace system. Each T1 CAS telephony cable has an RJ-48 connector on each end.
- Step 2** Plug one end of the first T1 CAS telephony cable into the socket.
- Step 3** Plug the other end of the first T1 CAS telephony cable into the T1 Smart Blade transition module in the back of the Cisco Unified MeetingPlace 8112. Place the first T1 CAS telephony cable in the top connector slot. (See [Table 2-2](#).)
- Step 4** Repeat [Step 2](#) and [Step 3](#) until all the T1 CAS telephony cables are connected:
- Place the second T1 CAS telephony cable in the next connector slot moving down.
  - Place the third T1 CAS telephony cable in the third connector slot from the top.
  - Place the fourth T1 CAS telephony cable in the fourth connector slot from the top.
- Step 5** Install tie wraps and label the T1 CAS telephony cables as needed.
-

# About Telephony Configurations for E1 and T1 PRI Cisco Unified MeetingPlace Systems

Cisco Systems ships the necessary number of Multi Access Blades with all Cisco Unified MeetingPlace Audio Server systems with E1 and T1 PRI configurations. A Cisco Unified MeetingPlace 8106 supports three Multi Access Blade configurations, and a Cisco Unified MeetingPlace 8112 supports five configurations:

Cisco Unified MeetingPlace 8106	<ul style="list-style-type: none"> <li>• One Multi Access Blade MP-MA-16-PRI</li> <li>• One Multi Access Blade MP-MA-4-PRI</li> <li>• Two Multi Access Blade MP-MA-4-PRIs</li> </ul>
Cisco Unified MeetingPlace 8112	<ul style="list-style-type: none"> <li>• One Multi Access Blade MP-MA-16-PRI</li> <li>• One Multi Access Blade MP-MA-4-PRI</li> <li>• Two Multi Access Blade MP-MA-4-PRIs</li> <li>• One Multi Access Blade MP-MA-16-PRI and one Multi Access Blade MP-MA-4-PRI</li> <li>• Two Multi Access Blade MP-MA-16-PRIs</li> </ul>

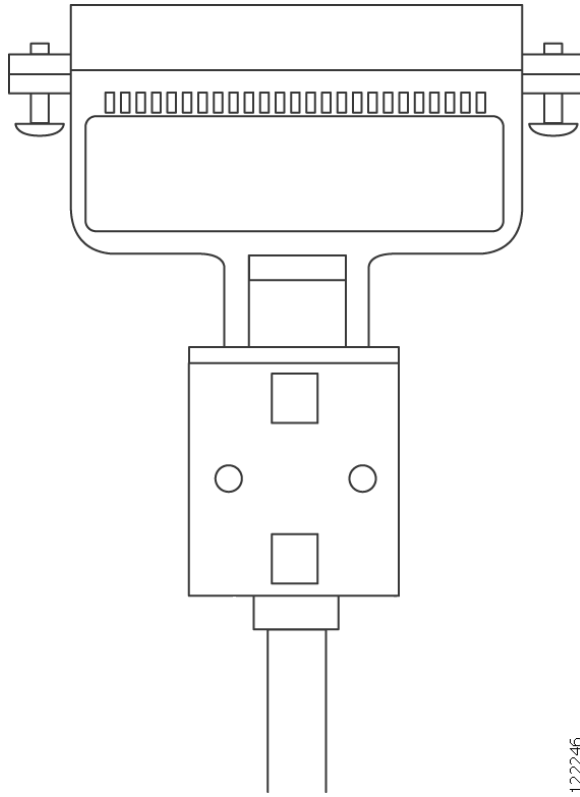
Cisco Unified MeetingPlace Audio Servers with E1 and T1 PRI configurations also ship with either one or two breakout boxes and cables, depending on the Cisco Unified MeetingPlace system configuration.



## Note

A Cisco Unified MeetingPlace system that is fully loaded with 960 E1 ports has two MP-MA-16-PRIs and requires two breakout boxes. A Cisco Unified MeetingPlace system that is fully loaded with 736 T1 PRI ports has two MP-MA-16-PRIs and requires two breakout boxes. Both these configurations need a Cisco Unified MeetingPlace 8112.

The breakout box provides a standard RJ-45 telephony interface for E1 and T1 PRI Cisco Unified MeetingPlace systems. Cisco Systems ships the necessary number of trunk card interface cable assemblies (50-pin Amphenol cables) that connect the breakout box to the Multi Access Blade transition modules. [Figure 2-10](#) shows the 50-pin Amphenol cable.

**Figure 2-10 50-Pin Amphenol Cable**

122246

Cisco Systems ships the necessary number of E1 or T1 PRI telephony cables with the Cisco Unified MeetingPlace Audio Server system. The number depends on the number of ports being activated. You receive one E1 telephony cable for every 30 ports in an E1 Cisco Unified MeetingPlace system, and one T1 PRI telephony cable for every 23 ports in a T1 PRI Cisco Unified MeetingPlace system.

Looking at the back of the Cisco Unified MeetingPlace 8106, the Multi Access Blade transition modules begin in slot 1 on the bottom and move up to slot 6 at the top.

Looking at the back of the Cisco Unified MeetingPlace 8112, the Multi Access Blade transition modules begin in slot 1 on the right and move to the left.

The Smart Blades begin after the last Multi Access Blade and do not have any cables connected to them.



Figure 2-11 shows the cable connections for a Cisco Unified MeetingPlace 8106 with 480 E1 ports.

**Figure 2-11** *Front of Cisco Unified MeetingPlace 8106 with Cables Connected*

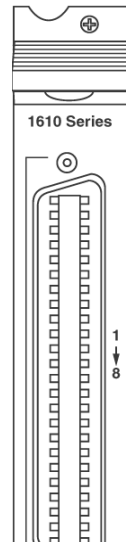
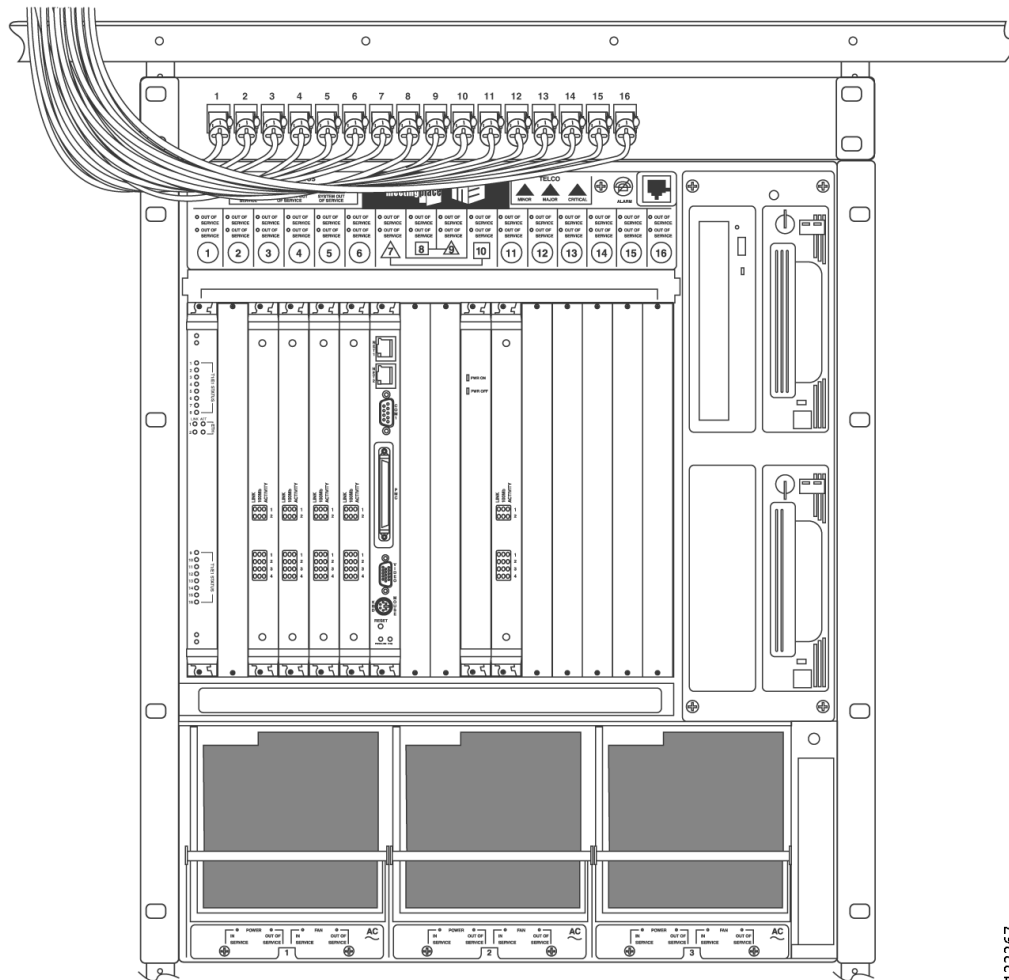


Figure 2-12 shows the cable connections for a Cisco Unified MeetingPlace 8112 with 480 E1 ports.

**Figure 2-12** Front of Cisco Unified MeetingPlace 8112 with Cables Connected



122267

See the applicable section for your configuration:

- [Connecting E1 or T1 PRI Telephony Cables with One Multi Access Blade MP-MA-16-PRI, page 2-19](#)
- [Connecting E1 or T1 PRI Telephony Cables with One Multi Access Blade MP-MA-4-PRI, page 2-23](#)
- [Connecting E1 or T1 PRI Telephony Cables with Two Multi Access Blade MP-MA-4-PRIs, page 2-24](#)
- [Connecting E1 or T1 PRI Telephony Cables with One Multi Access Blade MP-MA-16-PRI and One Multi Access Blade MP-MA-4-PRI, page 2-25](#)
- [Connecting E1 or T1 PRI Telephony Cables with Two Multi Access Blade MP-MA-16-PRIs, page 2-26](#)

## Connecting E1 or T1 PRI Telephony Cables with One Multi Access Blade MP-MA-16-PRI

### To Connect the E1 or T1 PRI Telephony Cables with One Multi Access Blade MP-MA-16-PRI

- Step 1** Locate the following items shipped with the Cisco Unified MeetingPlace Audio Server:
- E1 or T1 PRI telephony cables.
  - Breakout box, which should already be mounted above the Cisco Unified MeetingPlace Audio Server)
  - Trunk card interface cable assemblies (50-pin Amphenol cables).
- Step 2** Attach the far end of the first E1 or T1 PRI telephony cable to the equipment that will connect with Cisco Unified MeetingPlace.
- In many cases, the other equipment has an RJ-48c socket in which to plug the E1 or T1 PRI telephony cable. Alternately, the other equipment will be connected to a punchdown block. In this case, you will need to determine the block's connection diagram and then connect to it with discrete wires from the cable.
- Step 3** Plug the other end of the first E1 or T1 PRI telephony cable into the RJ-45 jack, labeled 1, on the far left of the front of the breakout box. Continue from left to right as needed. See [Figure 2-13](#).

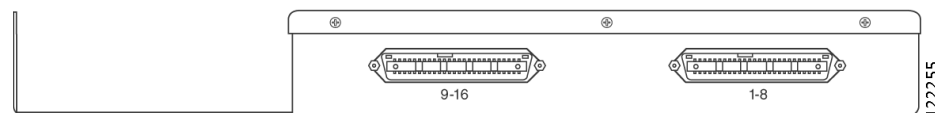
**Figure 2-13 Breakout Box (Front View)**



- Step 4** Repeat [Step 2](#) and [Step 3](#) until all the E1 or T1 PRI telephony cables are connected to the breakout box.
- Step 5** Connect the first trunk card cable assembly (50-pin Amphenol cable) to the back of the breakout box by securing the screws on both ends.

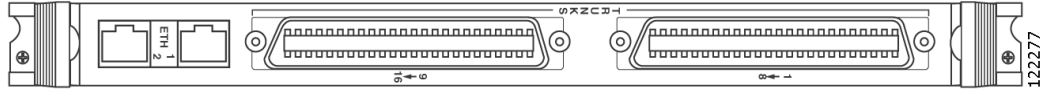
Looking at the back of the breakout box, the connector on the right of the breakout box is for spans 1 to 8, and the connector on the left of the breakout box is for spans 9 to 16. Place the first trunk card cable assembly into the connector on the right. See [Figure 2-14](#).

**Figure 2-14 Breakout Box (Back View)**

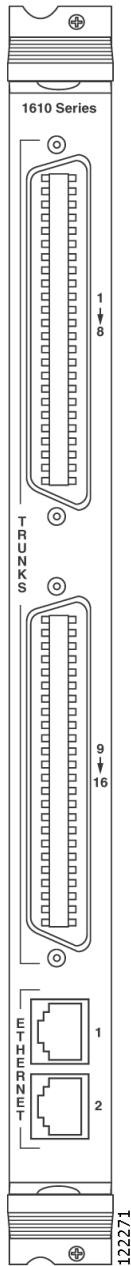


- Step 6** Connect the other end of the first trunk card cable assembly (50-pin Amphenol cable) into the Multi Access Blade transition module by securing the screws on both ends

For the Cisco Unified MeetingPlace 8106, the connector on the right of the Multi Access Blade transition module is for spans 1 to 8 and the connector on the left of the Multi Access Blade transition module is for spans 9 to 16. Place the first trunk card cable assembly into the connector on the right. See [Figure 2-15](#).

**Figure 2-15** Multi Access Blade Transition Module (Cisco Unified MeetingPlace 8106)

For the Cisco Unified MeetingPlace 8112, the connector on the top of the Multi Access Blade transition module is for spans 1 to 8 and the connector on the bottom of the Multi Access Blade transition module is for spans 9 to 16. Place this first trunk card cable assembly into the connector on the top. See [Figure 2-16](#).

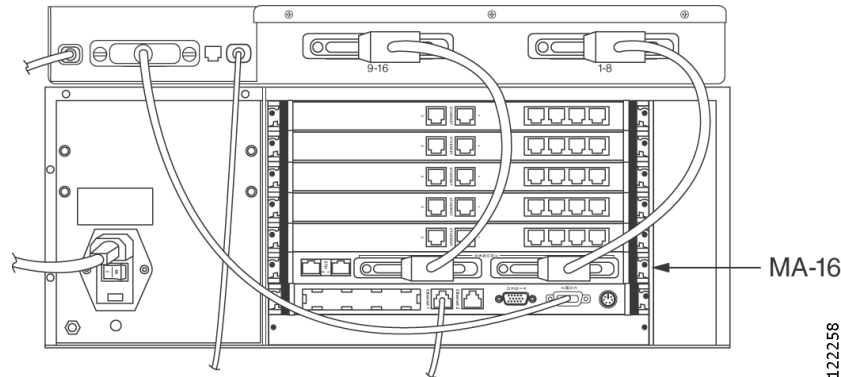
**Figure 2-16** Multi Access Blade Transition Module (Cisco Unified MeetingPlace 8112)

**Step 7** Repeat [Step 5](#) and [Step 6](#) for the second trunk card cable assembly (50-pin Amphenol cable).  
For the Cisco Unified MeetingPlace 8106, place the second trunk card cable assembly into the connectors on the left of the breakout box and on the left of the Multi Access Blade.

For the Cisco Unified MeetingPlace 8112, place the second trunk card cable assembly into the connectors on the left of the breakout box and on the bottom of the Multi Access Blade.

[Figure 2-17](#) shows the connections on the back of a Cisco Unified MeetingPlace 8106. This configuration supports 480 E1 ports with one Multi Access Blade card MP-MA-16-PRI.

**Figure 2-17** Back of Cisco Unified MeetingPlace 8106 (E1 with 1 MP-MA-16-PRI)



[Figure 2-18](#) shows the connections on the back of a Cisco Unified MeetingPlace 8112. This configuration supports 480 E1 ports with one Multi Access Blade card MP-MA-16-PRI.

**Figure 2-18** Back of Cisco Unified MeetingPlace 8112 (E1 with 1 MP-MA-16-PRI)

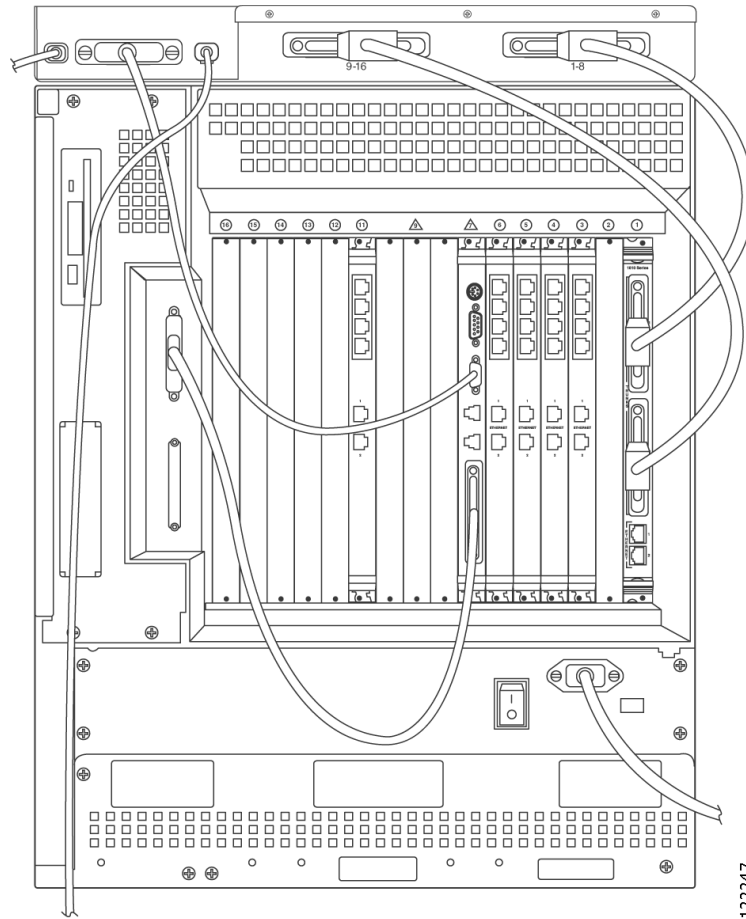


Figure 2-19 shows the connections on the back of a Cisco Unified MeetingPlace 8106. This configuration supports 368 T1 PRI ports with one Multi Access Blade card MP-MA-16-PRI.

**Figure 2-19** Back of Cisco Unified MeetingPlace 8106 (T1 PRI with 1 MP-MA-16-PRI)

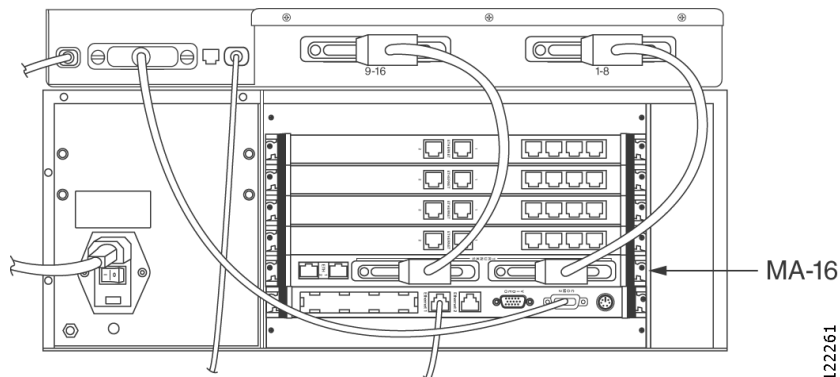
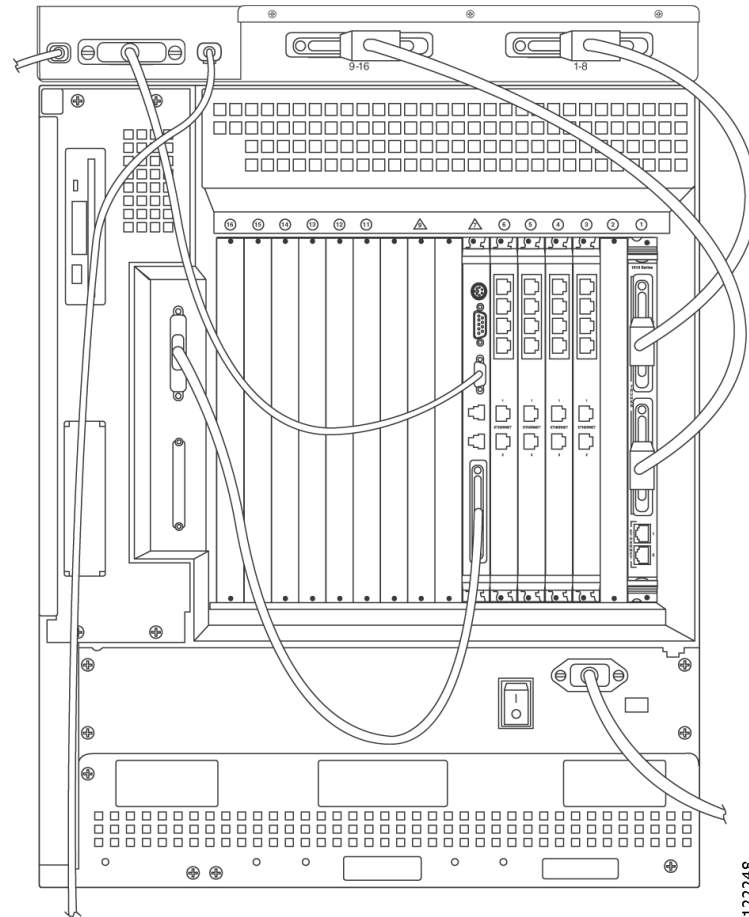


Figure 2-20 shows the connections on the back of a Cisco Unified MeetingPlace 8112. This configuration supports 368 T1 PRI ports with one Multi Access Blade card MP-MA-16-PRI.

**Figure 2-20** Back of Cisco Unified MeetingPlace 8112 (T1 PRI with 1 MP-MA-16-PRI)

## Connecting E1 or T1 PRI Telephony Cables with One Multi Access Blade MP-MA-4-PRI

### To Connect E1 or T1 PRI Telephony Cables with One Multi Access Blade MP-MA-4-PRI

- Step 1** Locate the following items that shipped with the Cisco Unified MeetingPlace Audio Server:
- E1 or T1 PRI telephony cables.
  - Breakout box, which should already be mounted above the Cisco Unified MeetingPlace Audio Server.
  - Trunk card interface cable assemblies (50-pin Amphenol cables).

- Step 2** Attach the far end of the first E1 or T1 PRI telephony cable to the equipment that will connect with Cisco Unified MeetingPlace.
- In many cases, the other equipment has an RJ-48c socket in which to plug the E1 or T1 PRI telephony cable. Alternately, the other equipment will be connected to a punchdown block. In this case, you will need to determine the block's connection diagram and then connect to it with discrete wires from the cable.
- Step 3** Plug the other end of the first E1 or T1 PRI telephony cable into the RJ-45 jack, labeled 1, on the far left of the front of the breakout box. Continue from left to right as needed.
- Step 4** Repeat [Step 2](#) and [Step 3](#) until all four E1 or T1 PRI telephony cables are connected to the breakout box. Place the second, third, and fourth E1 or T1 PRI telephony cables into the RJ-45 jacks labeled 2, 3, and 4.
- Step 5** Connect the trunk card cable assembly (50-pin Amphenol cable) to the back of the breakout box by securing the screws on both ends.
- Looking at the back of the breakout box, the connector on the right of the breakout box is for spans 1 to 8 and the connector on the left of the breakout box is for spans 9 to 16. Place the trunk card cable assembly into the connector on the right. See [Figure 2-14](#).
- Step 6** Connect the other end of the trunk card cable assembly (50-pin Amphenol cable) to the Multi Access Blade transition module by securing the screws on both ends.
- For the Cisco Unified MeetingPlace 8106, place the 50-pin Amphenol cable into the connector on the left, labeled spans 9 to 16.
- For the Cisco Unified MeetingPlace 8112, place the 50-pin Amphenol cable into the connector on the bottom, labeled spans 9 to 16.
- 

## Connecting E1 or T1 PRI Telephony Cables with Two Multi Access Blade MP-MA-4-PRIs

### To Connect E1 or T1 PRI Telephony Cables with Two Multi Access Blade MP-MA-4-PRIs

- Step 1** Locate the following items that shipped with the Cisco Unified MeetingPlace Audio Server:
- E1 or T1 PRI telephony cables.
  - Breakout box, which should already be mounted above the Cisco Unified MeetingPlace Audio Server.
  - Trunk card interface cable assemblies (50-pin Amphenol cables)
- Step 2** Attach the far end of the first E1 or T1 PRI telephony cable to the equipment that will connect with Cisco Unified MeetingPlace.
- In many cases, the other equipment has an RJ-48c socket in which to plug the E1 or T1 PRI telephony cable. Alternately, the other equipment will be connected to a punchdown block. In this case, you will need to determine the block's connection diagram and then connect to it with discrete wires from the cable.
- Step 3** Plug the other end of the first E1 or T1 PRI telephony cable into the RJ-45 jack, labeled 1, on the far left of the front of the breakout box.



- Step 4** Repeat [Step 2](#) and [Step 3](#) until all the E1 or T1 PRI telephony cables are connected to the breakout box. Place the second, third, and fourth E1 or T1 PRI telephony cables, which correspond to the first MP-MA-4-PRI, into the RJ-45 jacks labeled 2, 3, and 4. Place the second set of four E1 or T1 PRI telephony cables, which corresponds to the second MP-MA-4-PRI, into the RJ-45 jacks labeled 9, 10, 11, and 12.



**Note** The RJ-45 jacks labeled 5 to 8 and 13 to 16 remain empty.

- Step 5** Connect the trunk card cable assembly (50-pin Amphenol cable) for the first Multi Access Blade to the back of the breakout box by securing the screws on both ends.
- Looking at the back of the breakout box, place the first trunk card cable assembly into the connector on the right.
- Step 6** Connect the other end of the trunk card cable assembly (50-pin Amphenol cable) for the first Multi Access Blade into the Multi Access Blade transition module by securing the screws on both ends.
- For the Cisco Unified MeetingPlace 8106, place the 50-pin Amphenol cable into the connector on the left, labeled spans 9 to 16.
- For the Cisco Unified MeetingPlace 8112, place the 50-pin Amphenol cable into the connector on the bottom, labeled spans 9 to 16.
- Step 7** Repeat [Step 5](#) and [Step 6](#) for the trunk card cable assembly (50-pin Amphenol cable) for the second Multi Access Blade.
- For the Cisco Unified MeetingPlace 8106, place the 50-pin Amphenol cable into the connector on the left side of the breakout box and on the left of the Multi Access Blade in the connector labeled spans 9 to 16.
- For the Cisco Unified MeetingPlace 8112, place the 50-pin Amphenol cable into the connector on the left side of the breakout box and on the bottom of the Multi Access Blade in the connector labeled spans 9 to 16.

## Connecting E1 or T1 PRI Telephony Cables with One Multi Access Blade MP-MA-16-PRI and One Multi Access Blade MP-MA-4-PRI

This configuration is supported only on a Cisco Unified MeetingPlace 8112.

**To Connect E1 or T1 PRI Telephony Cables with One Multi Access Blade MP-MA-16-PRI and One Multi Access Blade MP-MA-4-PRI**

- Step 1** Locate the following items that shipped with the Cisco Unified MeetingPlace 8112:
- E1 or T1 PRI telephony cables.
  - Two breakout boxes, which should already be mounted above the Cisco Unified MeetingPlace 8112.
  - Trunk card interface cable assemblies (50-pin Amphenol cables).

- Step 2** Attach the far end of the first E1 or T1 PRI telephony cable to the equipment that will connect with Cisco Unified MeetingPlace.

In many cases, the other equipment has an RJ-48c socket in which to plug the E1 or T1 PRI telephony cable. Alternately, the other equipment will be connected to a punchdown block. In this case, you will need to determine the block's connection diagram and then connect to it with discrete wires from the cable.

- Step 3** Plug the other end of the first E1 or T1 PRI telephony cable into the RJ-45 jack, labeled 1, on the far left of the front of the breakout box.

- Step 4** Repeat [Step 2](#) and [Step 3](#) until all the E1 or T1 PRI telephony cables are connected to the breakout box. Place the second, third, and fourth E1 or T1 PRI telephony cables, which correspond to the MP-MA-4-PRI, into the RJ-45 jacks labeled 2, 3, and 4. Place the remaining 16 E1 or T1 PRI telephony cables, which correspond to the MP-MA-16-PRI, into the 16 RJ-45 jacks on the front of the second breakout box. Start with the RJ-45 jack on the left and continue to the right.



**Note** The RJ-45 jacks labeled 5 to 16 in the first breakout box remain empty.

- Step 5** Connect the trunk card cable assembly (50-pin Amphenol cable) for the first Multi Access Blade (the MP-MA-4-PRI) to the back of the first breakout box by securing the screws on both ends. Looking at the back of the first breakout box, place the first trunk card cable assembly into the connector on the right.

- Step 6** Connect the other end of the trunk card cable assembly (50-pin Amphenol cable) for the first Multi Access Blade (the MP-MA-4-PRI) into the Multi Access Blade transition module by securing the screws on both ends.

Place the 50-pin Amphenol cable into the connector on the bottom, labeled spans 9 to 16.

- Step 7** Repeat [Step 5](#) and [Step 6](#) for the trunk card cable assembly (50-pin Amphenol cable) for the second Multi Access Blade (the MP-MA-16-PRI).

Place the first trunk card cable assembly into the connector on the left side of the breakout box and on the top of the Multi Access Blade, in the connector labeled spans 1 to 8. Place the second trunk card cable assembly into the connector on the right side of the breakout box and on the bottom of the Multi Access Blade, in the connector labeled spans 9 to 16.

## Connecting E1 or T1 PRI Telephony Cables with Two Multi Access Blade MP-MA-16-PRIs

This configuration is supported only on a Cisco Unified MeetingPlace 8112.

### To Connect E1 or T1 PRI Telephony Cables with Two Multi Access Blade MP-MA-16-PRIs

- Step 1** Locate the following items that shipped with the Cisco Unified MeetingPlace 8112:
- E1 or T1 PRI telephony cables.
  - Two breakout boxes, which should already be mounted above your Cisco Unified MeetingPlace 8112.
  - Trunk card interface cable assemblies (50-pin Amphenol cables).

- Step 2** Attach the far end of the first E1 or T1 PRI telephony cable to the equipment that will connect with Cisco Unified MeetingPlace.
- In many cases, the other equipment has an RJ-48c socket in which to plug the E1 or T1 PRI telephony cable. Alternately, the other equipment will be connected to a punchdown block. In this case, you will need to determine the block's connection diagram and then connect to it with discrete wires from the cable.
- Step 3** Plug the other end of the first E1 or T1 PRI telephony cable into the RJ-45 jack, labeled 1, on the far left of the front of the breakout box.
- Step 4** Repeat [Step 2](#) and [Step 3](#) until all the E1 or T1 PRI telephony cables are connected to the first breakout box for the first MP-MA-16-PRI. For the second MP-MA-16-PRI, repeat [Step 2](#) and [Step 3](#) to connect the second set of 16 E1 or T1 PRI telephony cables to the second breakout box.
- Step 5** Connect the trunk card cable assemblies (50-pin Amphenol cable) for the first MP-MA-16-PRI to the back of the first breakout box by securing the screws on both ends.
- Looking at the back of the breakout box, place the first trunk card cable assembly into the connector on the right.
- Step 6** Connect the other end of the trunk card cable assembly (50-pin Amphenol cable) for the first MP-MA-16-PRI into the Multi Access Blade transition module by securing the screws on both ends.
- Place the trunk card cable assembly into the connector on the bottom, labeled spans 9 to 16.
- Step 7** Repeat [Step 5](#) and [Step 6](#) for the second trunk card cable assembly (50-pin Amphenol cable) for the first MP-MA-16-PRI.
- The second trunk card cable assembly should go into the connector on the left side of the breakout box and on the right side of the Multi Access Blade, in the connector labeled spans 9 to 16.
- Step 8** Repeat [Step 5](#) through [Step 7](#) for the trunk card cable assemblies (50-pin Amphenol cables) for the second MP-MA-16-PRI.

## About Telephony Configurations for IP Cisco Unified MeetingPlace Systems

Pure IP Cisco Unified MeetingPlace systems are configurations that use only IP functionality and do not use any T1 CAS, T1 PRI, or E1 functionality.



### Note

Pure IP Cisco Unified MeetingPlace systems do not use a breakout box.

Cisco Systems ships the necessary number of IP LAN cables with the Cisco Unified MeetingPlace Audio Server. The number of IP LAN cables that you receive depends on the number of Multi Access Blades in the Cisco Unified MeetingPlace system. You receive one IP LAN cable for every Multi Access Blade.

Looking at the back of the Cisco Unified MeetingPlace 8106, the Multi Access Blade transition modules for IP configurations begin in slot 6 on the top and move down to the bottom. The Smart Blades begin from the bottom in slot 1. They do not have any cables connected to them.

Looking at the back of the Cisco Unified MeetingPlace 8112, the Multi Access Blade transition modules for IP configurations begin in slot 16 on the left and move to the right. The Smart Blades begin in slot 1 and move to the left. They do not have any cables connected to them.

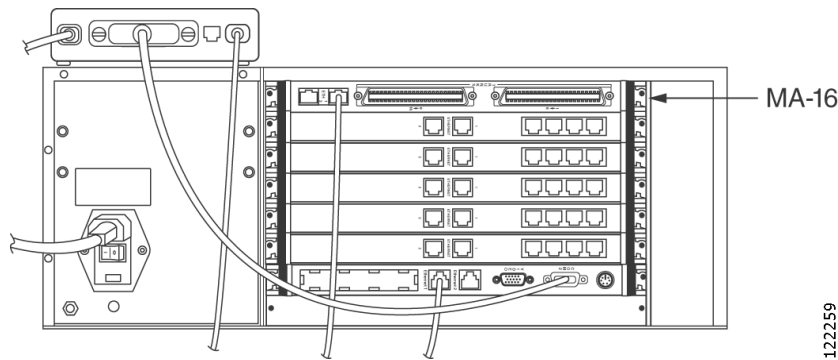
## Connecting IP Telephony Cables for Cisco Unified MeetingPlace Systems

### To Connect IP Telephony Cables for a Cisco Unified MeetingPlace System

- Step 1** Locate the IP LAN cables that shipped with the Cisco Unified MeetingPlace Audio Server.
- Step 2** Attach the far end of the first IP LAN cable to the RJ-45 socket of the switch or other network equipment.
- Step 3** Plug the other end of the first IP LAN cable into the Ethernet 1 connector on the Multi Access Blade.
- Step 4** If you have more than one Multi Access Blade in your IP configuration, repeat [Step 2](#) and [Step 3](#).

[Figure 2-21](#) shows the connections on the back of the Cisco Unified MeetingPlace 8106. This configuration supports 480 IP ports with one MP-MA-16.

**Figure 2-21** Back of Cisco Unified MeetingPlace 8106 (IP with 1 MP-MA-16)



[Figure 2-22](#) shows the connections on the back of a Cisco Unified MeetingPlace 8112. This configuration supports 480 IP ports with one MP-MA-16.

**Figure 2-22** Back of Cisco Unified MeetingPlace 8112 (IP with 1 MP-MA-16)

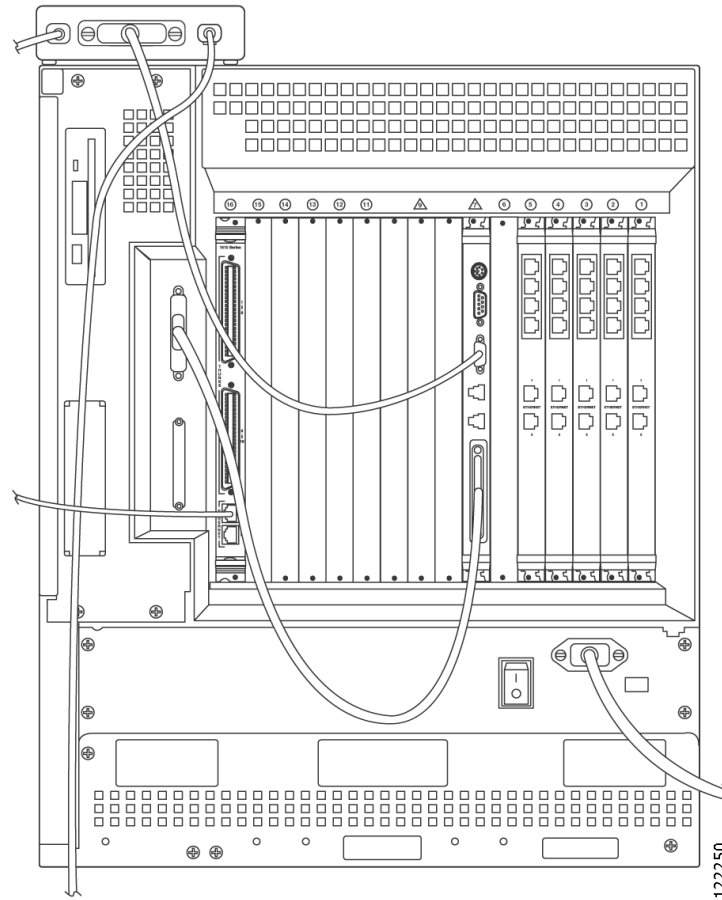


Figure 2-23 shows the connections on the back of a Cisco Unified MeetingPlace 8106. This configuration supports 120 IP ports with one MP-MA-4.

**Figure 2-23** Back of Cisco Unified MeetingPlace 8106 (IP with 1 MP-MA-4)

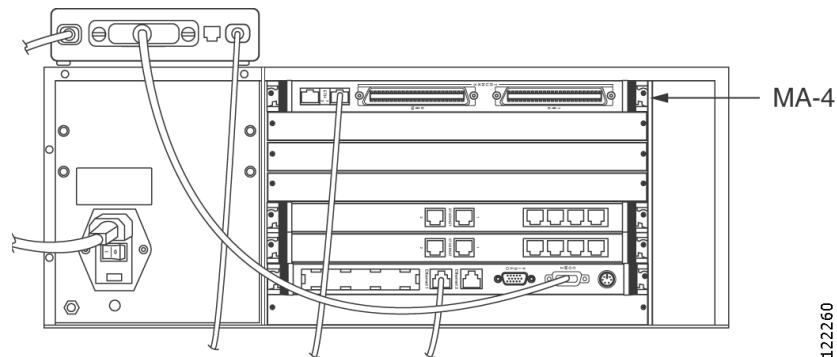
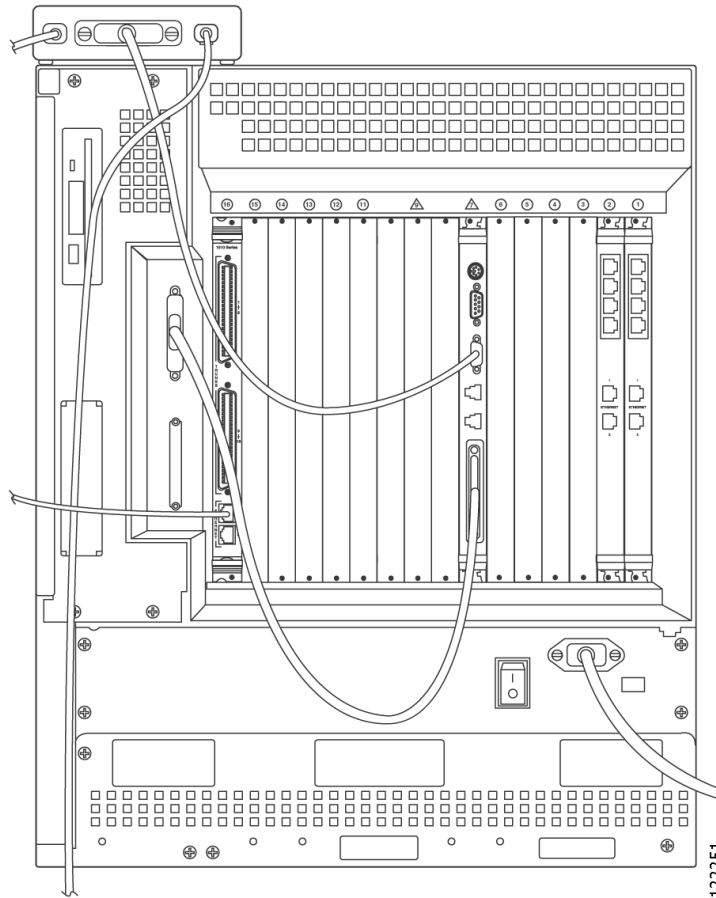


Figure 2-24 shows the connections on the back of a Cisco Unified MeetingPlace 8112. This configuration supports 120 IP ports with one MP-MA-4.

**Figure 2-24** Back of Cisco Unified MeetingPlace 8112 (IP with 1 MP-MA-4)

## About Telephony Configurations for Mixed Cisco Unified MeetingPlace Systems

A mixed Cisco Unified MeetingPlace system is a Cisco Unified MeetingPlace Audio Server system with both an IP configuration and a T1 CAS, T1 PRI, or E1 configuration.

Mixing protocols is supported only in combination with IP ports:

- T1 PRI and IP
- E1 and IP
- T1 CAS and IP

(For example, a Cisco Unified MeetingPlace system cannot have both T1 and E1 ports configured, but it can have T1—either PRI or CAS—and IP ports, or E1 and IP ports. In addition, a Cisco Unified MeetingPlace system cannot have both T1 CAS and T1 PRI ports configured.)

Cisco Systems ships all Cisco Unified MeetingPlace Audio Server systems with the necessary number of cards and cables for the type of mixed configuration:

**For All Mixed Configurations**

E1, T1 PRI, and IP configurations all use Multi Access Blades. Cisco Systems ships the necessary number of Multi Access Blades with the Cisco Unified MeetingPlace Audio Server system. The number of telephony cables you receive depends on the number of ports being activated. You receive one telephony cable for every 30 ports in an E1 Cisco Unified MeetingPlace system, and one telephony cable for every 23 ports in a T1 PRI Cisco Unified MeetingPlace system.

**For T1 CAS/IP Configurations Only**

Cisco Systems ships the necessary number of T1 Smart Blades with the Cisco Unified MeetingPlace Audio Server system. Each T1 Smart Blade transition module in the back of the Cisco Unified MeetingPlace Audio Server has connectors for four trunk lines. The number of telephony cables you receive depends on the number of ports being activated. You receive one telephony cable for every 24 ports in a T1 CAS Cisco Unified MeetingPlace system. No breakout box is needed for this configuration.

**For E1/IP and T1 PRI/IP Configurations Only**

Cisco Systems ships either one or two breakout boxes and cables, depending on the configuration, with the Cisco Unified MeetingPlace Audio Server system. Cisco Systems also ships the necessary number of trunk card interface cable assemblies (50-pin Amphenol cables) for your configuration. These connect the breakout boxes to the Multi Access Blade transition modules.

**For the Non-IP Portion of the Mixed Cisco Unified MeetingPlace System**

For the Cisco Unified MeetingPlace 8106, the T1 Smart Blade transition modules begin in slot 1 on the bottom and move up (for T1 CAS/IP configurations). The Multi Access Blade transition modules begin in slot 1 on the bottom and move up (for E1/IP and T1 PRI/IP configurations).

For the Cisco Unified MeetingPlace 8112, the T1 Smart Blade transition modules begin in slot 1 on the right and move to the left (for T1 CAS/IP configurations). The Multi Access Blade transition modules begin in slot 1 on the right and move to the left (for E1/IP and T1 PRI/IP configurations).

**For the IP Portion of the Mixed Cisco Unified MeetingPlace System**

The Smart Blades begin after the last PSTN blade (either a T1 Smart Blade or Multi Access Blade for E1 or T1 PRI) and do not have any cables connected to them.

For the Cisco Unified MeetingPlace 8106, the Multi Access Blade transition modules begin in slot 6 on the top and move down.

For the Cisco Unified MeetingPlace 8112, the Multi Access Blade transition modules begin in slot 16 on the left and move to the right.

See the applicable section, depending on your configuration:

- [Connecting the Telephony Cables for an E1/IP or T1 PRI/IP Cisco Unified MeetingPlace System, page 2-32](#)
- [Connecting the Telephony Cables for a T1 CAS/IP Cisco Unified MeetingPlace System, page 2-35](#)

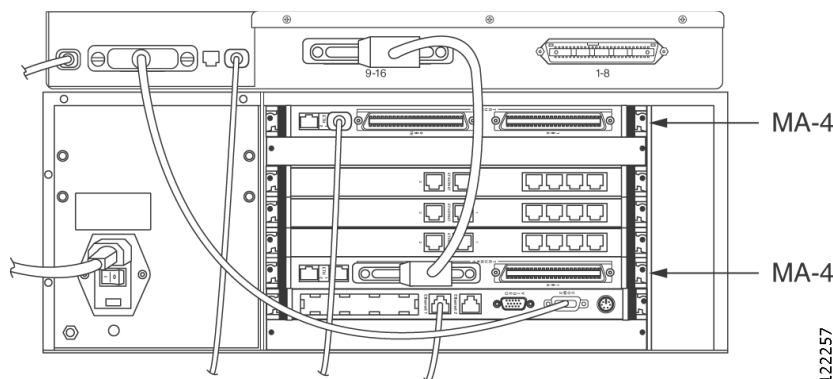
## Connecting the Telephony Cables for an E1/IP or T1 PRI/IP Cisco Unified MeetingPlace System

### To Connect the Telephony Cables for an E1/IP or T1 PRI/IP Cisco Unified MeetingPlace System

- Step 1** Locate the following items that shipped with the Cisco Unified MeetingPlace Audio Server:
- IP LAN cables.
  - E1 or T1 PRI telephony cables.
  - Breakout box.
  - Trunk card interface cable assemblies (50-pin Amphenol cables).
- Step 2** Attach the far end of the first IP LAN cable to the RJ-45 socket of the switch or other network equipment.
- Step 3** Plug the other end of the first IP LAN cable into the Ethernet 1 connector on the Multi Access Blade.
- Step 4** If you use two Multi Access Blades for the IP configuration, repeat [Step 2](#) and [Step 3](#).
- Step 5** Depending on the configuration of the E1 or T1 PRI portion of the Cisco Unified MeetingPlace system, do the procedure in the applicable section to connect the E1 or T1 PRI telephony cables:
- [Connecting E1 or T1 PRI Telephony Cables with One Multi Access Blade MP-MA-16-PRI, page 2-19](#) (for the Cisco Unified MeetingPlace 8106 or Cisco Unified MeetingPlace 8112)
  - [Connecting E1 or T1 PRI Telephony Cables with One Multi Access Blade MP-MA-4-PRI, page 2-23](#) (for the Cisco Unified MeetingPlace 8106 or Cisco Unified MeetingPlace 8112)
  - [Connecting E1 or T1 PRI Telephony Cables with Two Multi Access Blade MP-MA-4-PRIs, page 2-24](#) (for the Cisco Unified MeetingPlace 8106 or Cisco Unified MeetingPlace 8112)
  - [Connecting E1 or T1 PRI Telephony Cables with One Multi Access Blade MP-MA-16-PRI and One Multi Access Blade MP-MA-4-PRI, page 2-25](#) (for the Cisco Unified MeetingPlace 8112 only)
  - [Connecting E1 or T1 PRI Telephony Cables with Two Multi Access Blade MP-MA-16-PRIs, page 2-26](#) (for the Cisco Unified MeetingPlace 8112 only)

[Figure 2-25](#) shows the connections on the back of a Cisco Unified MeetingPlace 8106 with a mixed Cisco Unified MeetingPlace system. The Multi Access Blade used for the IP configuration is shown at the top, and the Multi Access Blade used for the E1/T1 PRI configuration is shown at the bottom.

**Figure 2-25 Back of Cisco Unified MeetingPlace 8106 (Mixed Configuration)**



[Figure 2-26](#) shows the connections on the back of a Cisco Unified MeetingPlace 8112 with a mixed Cisco Unified MeetingPlace system with 96 T1 CAS ports and 240 IP ports.



Two MP-MA-4s are used for the IP configuration and are in slots 15 and 16, shown on the left.

For the T1 CAS configuration, there is a T1 Smart Blade in slot 1 and three Smart Blades in slots 2, 3, and 4.

**Figure 2-26** Back of Cisco Unified MeetingPlace 8112 (Mixed Configuration with 96 T1 CAS and 240 IP Ports)

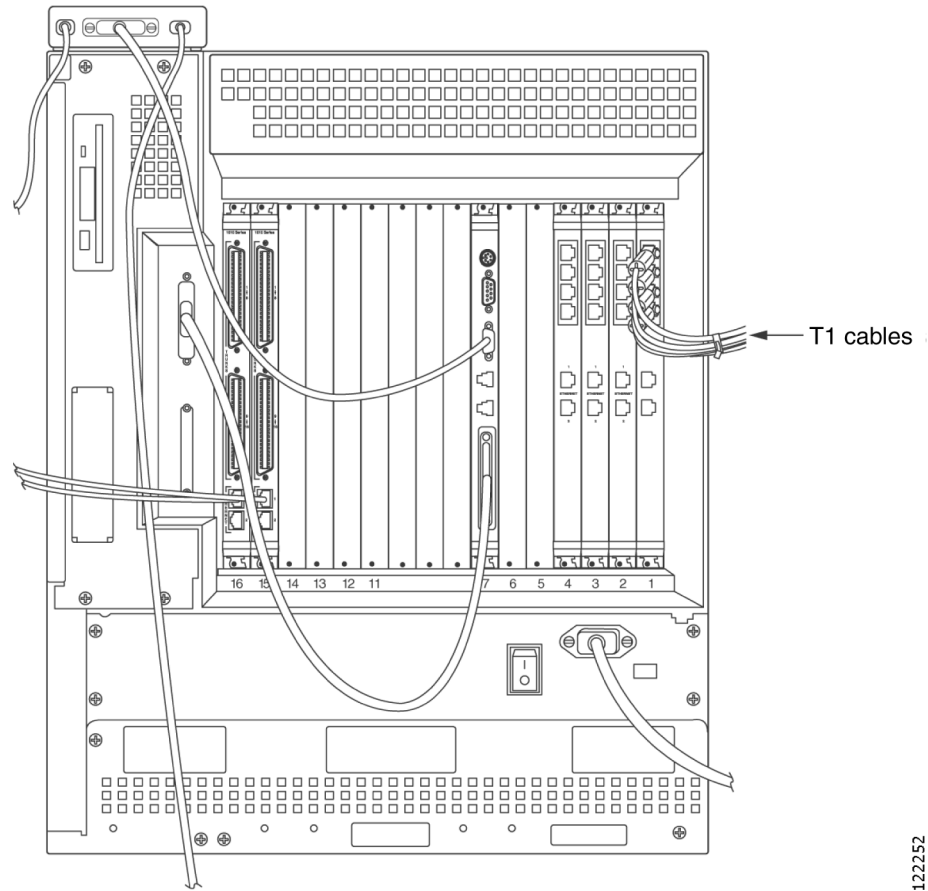


Figure 2-27 shows the connections on the back of a Cisco Unified MeetingPlace 8112 with a mixed Cisco Unified MeetingPlace system with 23 T1 PRI ports and 120 IP ports.

The MP-MA-4 that is used for the IP configuration is shown on the left in slot 16 and the Multi Access Blade MP-MA-4 that is used for the T1 PRI configuration is shown on the right in slot 1.

There is a Smart Blade in slot 2 where 23 ports are used for the T1 PRI configuration, and 73 ports are used for the IP configuration. There is another Smart Blade in slot 3 to support the remaining 47 IP ports.

**Figure 2-27** Back of Cisco Unified MeetingPlace 8112 (Mixed Configuration with 23 T1 PRI and 120 IP Ports)

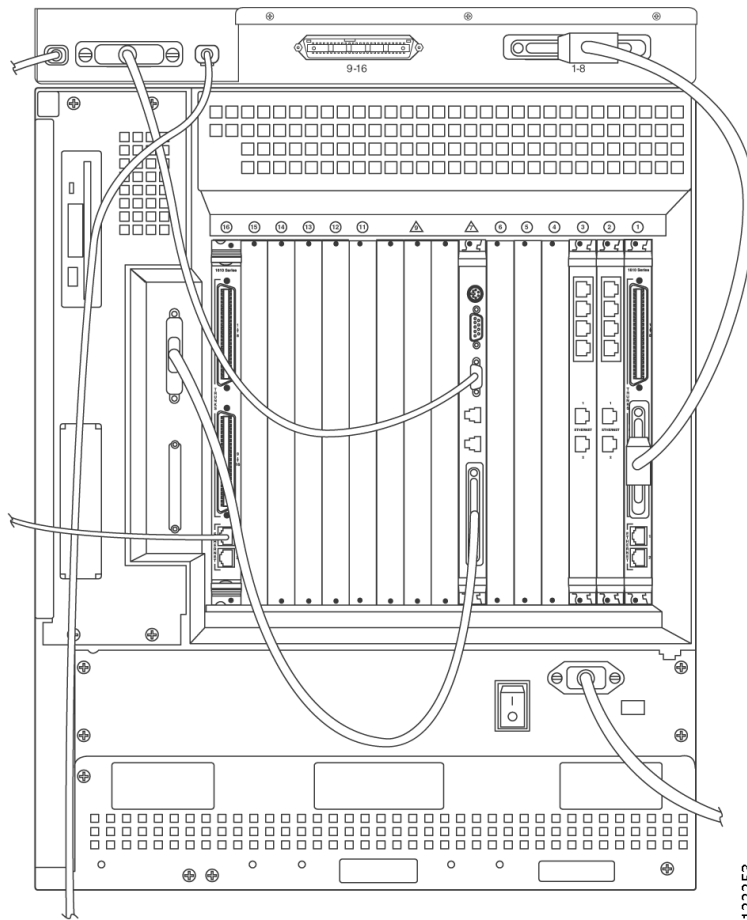
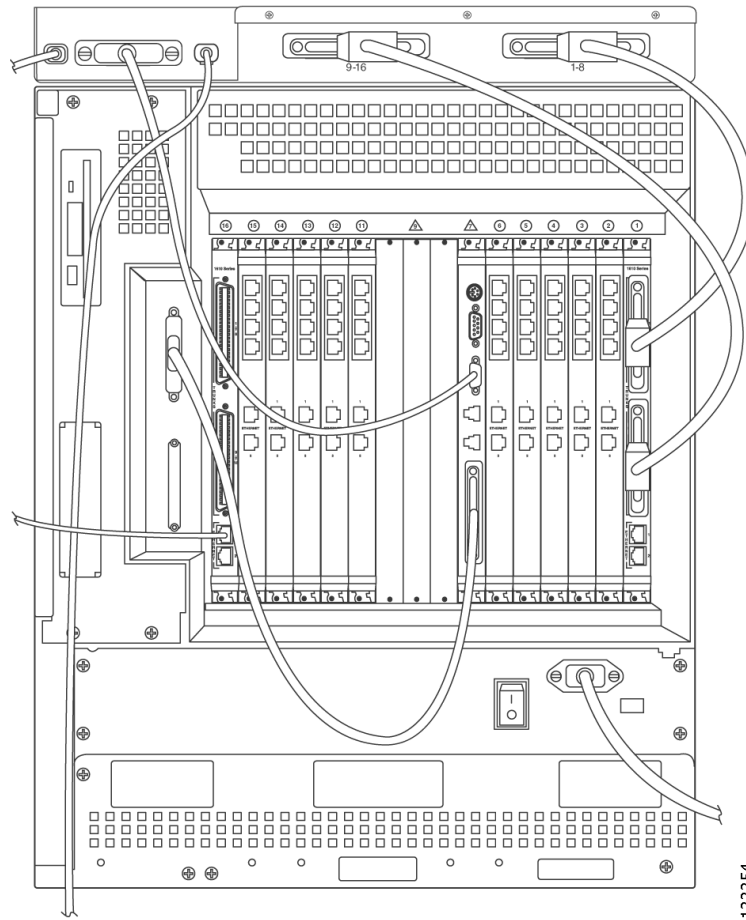


Figure 2-28 shows the connections on the back of a Cisco Unified MeetingPlace 8112 with a mixed Cisco Unified MeetingPlace system with 480 E1 ports and 480 IP ports.

The MP-MA-16 that is used for the IP configuration is shown on the left in slot 16.

The MP-MA-16-PRI that is used for the E1 configuration is shown on the right in slot 1. There are ten Smart Blades (in slots 2, 3, 4, 5, 6, 11, 12, 13, 14, and 15) to support 960 ports.

**Figure 2-28** Back of Cisco Unified MeetingPlace 8112 (Mixed Configuration with 480 E1 and 480 IP Ports)



## Connecting the Telephony Cables for a T1 CAS/IP Cisco Unified MeetingPlace System

### To Connect the Telephony Cables for a T1 CAS/IP Cisco Unified MeetingPlace System

- Step 1** Locate the following items that shipped with the Cisco Unified MeetingPlace Audio Server:
- IP LAN cables.
  - T1 CAS telephony cables.
- Step 2** Attach the far end of the first T1 CAS telephony cable to the equipment that will connect with Cisco Unified MeetingPlace.

In many cases, the other equipment has an RJ-48c socket in which to plug the T1 CAS telephony cable. Alternately, the other equipment will be connected to a punchdown block. In this case, you will need to determine the block's connection diagram and then connect to it with discrete wires from the cable.

- Step 3** Plug the other end of the first T1 CAS telephony cable into the T1 Smart Blade transition module in the back of the Cisco Unified MeetingPlace Audio Server.
- For the Cisco Unified MeetingPlace 8106, place the first T1 CAS telephony cable in the left most connector slot. Place the second T1 CAS telephony cable in the next connector slot moving to the right, and so on.
- For the Cisco Unified MeetingPlace 8112, place the first T1 CAS telephony cable in the topmost connector slot. Place the second T1 CAS telephony cable in the next connector slot moving down, and so on.
- You can connect a maximum of four T1 CAS telephony cables to any one T1 Smart Blade transition module.
- Step 4** Repeat [Step 2](#) and [Step 3](#) until all the T1 CAS telephony cables are connected.
- Step 5** Install tie wraps and label the T1 CAS telephony cables as needed.
- Step 6** Attach the far end of the IP LAN cable to the RJ-45 socket of the switch or other network equipment.
- Step 7** Plug the other end of the IP LAN cable into the Ethernet 1 connector on the Multi Access Blade transition module.
- Step 8** If your configuration uses two Multi Access Blades, repeat [Step 6](#) and [Step 7](#).
- 

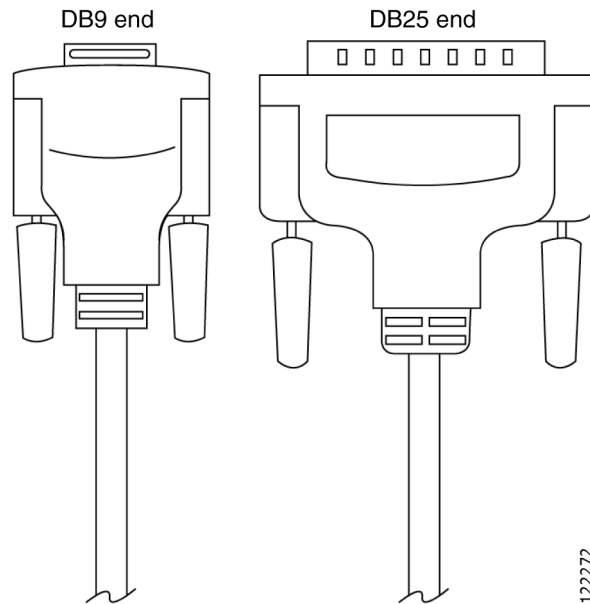
## Installing and Connecting the Modem

### To Install and Connect the Modem

- Step 1** Locate the following items that shipped with the Cisco Unified MeetingPlace Audio Server:
- Modem.
  - Modem cable.
  - Modem power cable.
  - Phone extension cable.
- Step 2** If you have a T1 CAS or a pure IP Cisco Unified MeetingPlace system, place the modem on the back right corner of the Cisco Unified MeetingPlace Audio Server. The modem cable connections must face the back of the Cisco Unified MeetingPlace Audio Server. Do not move the modem from this space.
- If you have a T1 PRI or an E1 Cisco Unified MeetingPlace system, place the modem into the empty slot on the far left of the breakout box. See [Figure 2-14](#). Do not move the modem from this space.
- Step 3** Confirm that the modem power switch is in the off position. The modem power switch is on the side of the modem.
- Step 4** Looking at the back of the Cisco Unified MeetingPlace Audio Server, connect the modem power cable to the far left position on the back of the modem.
- Step 5** Connect the other end of the modem power cable into the power outlet.
- Step 6** Looking at the back of the Cisco Unified MeetingPlace Audio Server, connect the phone extension cable to the far right position on the back of the modem, labeled “Line.” Two RJ-11 connectors are on the modem. Place this cable in the far right connector.

- Step 7** Looking at the back of the Cisco Unified MeetingPlace Audio Server, connect the DB25 end (the larger connector) of the modem cable to the back of the modem. See [Figure 2-29](#) to see which end is the DB25 end.

**Figure 2-29** Modem Cable



- Step 8** Connect the DB9 end (the smaller connector) of the modem cable to the COM 2 port on the CPU transition module in the back of the Cisco Unified MeetingPlace Audio Server. See [Figure 2-29](#) to see which end is the DB9 end.
- Step 9** Connect the other end of the phone extension cable to its source, which must be a standard analog phone line, not an extension for a digital phone.
- Step 10** Turn the modem power switch to the on position.
-





## CHAPTER 3

# Connecting and Setting Up Your Laptop Computer

---

This chapter explains how to connect your laptop to the Cisco Unified MeetingPlace system and how to set up your laptop so that you can use HyperTerminal.

This chapter contains the following sections:

- [Connecting Your Laptop to Cisco Unified MeetingPlace, page 3-1](#)
- [About Configuring Your Laptop, page 3-2](#)
- [Setting Up HyperTerminal, page 3-3](#)
- [Logging Your HyperTerminal Session, page 3-3](#)
- [Setting Up Dial-Up Networking, page 3-4](#)
- [Testing the Modem Connection, page 3-4](#)

## Connecting Your Laptop to Cisco Unified MeetingPlace

Before using the Cisco Unified MeetingPlace Audio Server system, connect your laptop to the Cisco Unified MeetingPlace system.

### To Connect Your Laptop to Cisco Unified MeetingPlace

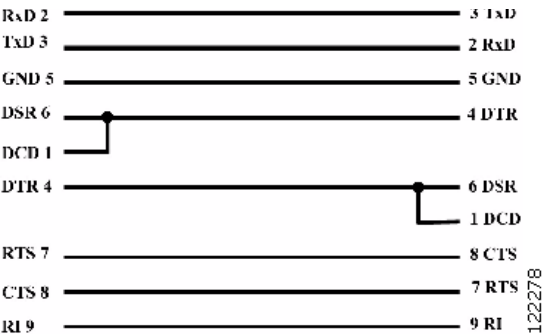
- Step 1** Locate the female-to-female DB9 null modem cable that shipped with the Cisco Unified MeetingPlace Audio Server. This is a required tool, as listed in the [“Tools Required for the Installation”](#) section on [page 1-4](#). See [Figure 3-1](#) for cable pinouts.



#### Caution

Before proceeding, confirm that the null modem cable that you are using has the correct wiring. Specifically, verify the connection between the DCD and DSR. You can use a connectivity tester (a required tool, as listed in the [“Tools Required for the Installation”](#) section on [page 1-4](#)) to test this.

Figure 3-1 Null Modem Cable Pinouts



- Step 2

Connect one end of the null modem cable to the COM 1 port on the CPU card in the front of the Cisco Unified MeetingPlace Audio Server.
- Step 3

Connect the other end of the null modem cable to the COM port on your laptop.

# About Configuring Your Laptop

You can access the Command Line Interface (CLI) command screen by running terminal emulation software, such as ProComm, Windows Terminal, or HyperTerminal. Configure your laptop COM port with the parameters listed in [Table 3-1](#).

Table 3-1 Laptop COM Port Parameters

Parameter	Value
Baud Rate	19200
Data Length	8 bits
Parity	None
Stop Bits	1

No phone number or area code is needed for direct connections to a COM port. Depending on the configuration of the laptop, the direct connection (9-pin connector) may be any of the COM ports, but it most likely is COM 1.

Set up the terminal emulation software to emulate a VT100 terminal. If your laptop is connected to a Cisco Unified MeetingPlace Audio Server and the operating system is running, the login prompt appears. It is sometimes necessary to press Enter once or twice.

The default username is admin, and the default password is cisco.



Note

If the Cisco Unified MeetingPlace Audio Server is not powered on yet, you will not see the login prompt.



# Setting Up HyperTerminal

This section explains how to set up HyperTerminal to telnet to the Cisco Unified MeetingPlace system. There are several ways to telnet to the Cisco Unified MeetingPlace system. HyperTerminal is available on all operating systems. These instructions are for the Microsoft Windows 2000 operating system. If you are not using this version, the HyperTerminal instructions may vary.

## To Set Up HyperTerminal

- 
- Step 1** Go to **Start > Programs > Accessories > Communications > HyperTerminal**. The HyperTerminal dialog box appears.
  - Step 2** Enter a name for your connection (for example, "Cisco Unified MeetingPlace"), and click **OK**. The Connect To dialog box opens.
  - Step 3** From the Connect Using menu, select **TCP/IP (Winsock)**. The Connect To dialog box reappears.
  - Step 4** In the Host address field, enter **198.207.208.241**
  - Step 5** In the Port number field, enter **23**. Click **OK**. The HyperTerminal window appears.
  - Step 6** If the Cisco Unified MeetingPlace Audio Server is already powered on, press **Enter** a few times to see the Cisco Unified MeetingPlace tech\$ prompt.

If the Cisco Unified MeetingPlace Audio Server is not powered on yet, you will not see the login prompt.



**Note** Telnet sessions usually close after a specific time. However, if you do not exit some commands properly, the Telnet session may remain up indefinitely.

---

# Logging Your HyperTerminal Session

Generate a log of your HyperTerminal session so that you can refer to it later. This example describes logging a session by using HyperTerminal. If you are not using HyperTerminal, the instructions may vary.

## To Log Your HyperTerminal Session

- 
- Step 1** Go to the **Transfer** menu in the HyperTerminal window.
  - Step 2** Select **Capture Text**.
  - Step 3** Save the file. Note the location so that you can retrieve the file later.
  - Step 4** Click **Start**.
-

# Setting Up Dial-Up Networking

This section explains how to set up dial-up networking on a Microsoft Windows 2000 operating system to connect to the Cisco Unified MeetingPlace Audio Server system by using a modem.

## To Set Up Dial-Up Networking

- 
- Step 1 On the Windows 2000 system, right-click the **My Network Places** icon on the desktop.
  - Step 2 Select **Properties**.
  - Step 3 Double-click **Make New Connection**. The Network Connection Wizard dialog box opens.
  - Step 4 Click **Next**. The Network Connection Type dialog box appears.
  - Step 5 Select **Dial-up to Private Network**, and click **Next**. The Network Connection Wizard dialog box appears.  
  
(If you have more than one dial-up device on your computer, you may not see this dialog box at this time. Instead you may see a dialog box asking you to choose a dial-up device. Choose the dial-up device that you want to use and press **Next**. The Network Connection Wizard dialog box appears.)
  - Step 6 Enter the phone number of the Cisco Unified MeetingPlace Audio Server modem in the phone number field and click **Next**. The Connection Availability dialog box appears.
  - Step 7 Select **For all users**. Click **Next**. The Completing the Network Connection Wizard dialog box appears.
  - Step 8 In the Type the Name You Want to Use for This Connection field, enter the company name.
  - Step 9 Click **Finish**. The Connection dialog box appears.
  - Step 10 Click **Properties**. The Connection Properties dialog box appears.
  - Step 11 Select the **General** tab.
  - Step 12 Click **Configure**. The Modem Configuration dialog box appears.
  - Step 13 Change the maximum speed to 19200 bps.
  - Step 14 Click **OK**. The Connection Properties dialog box appears.
  - Step 15 Click the **Networking** tab.
  - Step 16 Under “Type of dial-up server I am calling,” select **SLIP: Unix Connection**.
  - Step 17 Under “Components checked are used by this connection,” select **Internet Protocol (TCP/IP)**.
  - Step 18 Click **Properties**. The Internet Protocol (TCP/IP) Properties dialog box appears.
  - Step 19 Select **Use the Following IP Address**, and enter **198.207.208.242** in the IP address field.
  - Step 20 Click **OK** to exit the Properties window.
  - Step 21 Click **OK** to exit the networking window. Your connection is now complete.
- 

# Testing the Modem Connection

## To Test the Modem Connection

- 
- Step 1 Right-click the **My Network Places** icon on your desktop.

- Step 2** Select **Properties**. The Network and Dial-up Connections window appears.
- Step 3** Double-click the connection that you just created.
- Step 4** Click **Dial**.
-





## CHAPTER 4

# Upgrading the Cisco Unified MeetingPlace Audio Server Software

---

This chapter describes how to upgrade the Cisco Unified MeetingPlace Audio Server software from Release 5.3 or 5.4 to Release 6.0 and contains the following sections:

- [Upgrading the Cisco Unified MeetingPlace Audio Server Software to Release 6.0, page 4-1](#)
- [Testing the Upgrade, page 4-3](#)

## Upgrading the Cisco Unified MeetingPlace Audio Server Software to Release 6.0

If you already have the Cisco Unified MeetingPlace Audio Server hardware and are using Cisco Unified MeetingPlace Audio Server Release 5.3 or 5.4 software, you must upgrade the Cisco Unified MeetingPlace Audio Server software yourself if you want to use Release 6.0.



### Note

A Cisco Unified MeetingPlace Audio Server system running Audio Server Release 5.2 cannot upgrade directly to Release 6.0. You must first upgrade to Audio Server Release 5.4. Then you can upgrade to Audio Server Release 6.0.

### To Upgrade the Cisco Unified MeetingPlace Audio Server Software

---

**Step 1** Insert the upgrade CD-ROM into the CD-ROM drive.



### Note

If you are upgrading the software from a remote location, have someone at the site insert the CD-ROM for you.

**Step 2** If you are upgrading the software from a remote location, dial in to Cisco Unified MeetingPlace by using the modem.

**Step 3** Telnet as a technician to the Cisco Unified MeetingPlace system.

**Step 4** Enter the default username and the default password. If you have changed the default password, use the new password.



**Note** The default username is admin, and the default password is cisco.

- Step 5** Shut down the Cisco Unified MeetingPlace Audio Server software by entering **down**.
- Step 6** Note the current time.
- Step 7** Save the session capture to your desktop with the filename **upgrade.txt**. If something unexpected occurs during the update process, Cisco TAC will need this log.
- We strongly recommend that you capture the upgrade session to a log file.
- Step 8** Begin the software upgrade process by entering **update**.
- Step 9** Enter **1** when the Cisco Unified MeetingPlace system displays a menu of upgrade sources. The update is from a CD-ROM. For example:
- ```
meetingplace:tech$ update
Update is from
  1) CD
  2) Diskette
  3) Remote File
  4) Local File
  q) (Quit Update)
Enter choice:
```
- Step 10** Press **Enter** when the drive is quiet and you are ready to install the software. This takes about a minute. The Cisco Unified MeetingPlace system checks the CD-ROM drive for update file sets.
- Step 11** When you are asked to confirm the update set, enter **y**. This starts the software upgrade. The Cisco Unified MeetingPlace Audio Server system reads the CD-ROM for approximately 3 minutes.
- Step 12** Continue the upgrade by pressing **Enter**.



**Note** If the following message appears:

```
A disk backup appears to be active...
You may restart the system to stop it.
```

restart the Cisco Unified MeetingPlace Audio Server system by entering **restart disable**.

After the Cisco Unified MeetingPlace Audio Server system comes back up, dial in to the Cisco Unified MeetingPlace Audio Server system, log in as a technician, and resume this procedure with [Step 6](#).

Phase 1 of the software upgrade starts. This is when the Cisco Unified MeetingPlace Audio Server software is upgraded. During this phase, entering Ctrl-C stops the upgrade.

After Phase 1 of the software upgrade is complete, the Cisco Unified MeetingPlace Audio Server system restarts and continues to Phase 2 of the software upgrade. Phase 2 is when the Cisco Unified MeetingPlace Audio Server database is upgraded. This portion of the upgrade can take up to an hour. Entering Ctrl-C has no effect on the system during this phase.



**Caution** During the software upgrade, do not try to stop the upgrade or restart the Cisco Unified MeetingPlace Audio Server system. This can have very serious effects on the Cisco Unified MeetingPlace Audio Server system data and program integrity.

When Phase 2 is complete, the modem connection terminates. After approximately 5 minutes, the Cisco Unified MeetingPlace Audio Server system comes back up and you can re-establish a modem connection.

To view the upgrade status, enter **update status**. The Cisco Unified MeetingPlace Audio Server system displays a message with the date and time of the last update. If you see the word “operating,” then the Cisco Unified MeetingPlace Audio Server is operating normally and no update is currently in progress. If you see a date and time that are more than an hour old, then the update is probably not working. Contact Cisco TAC to determine what you should do next.

To get a real-time status, enter **update trace**.

- Step 13** Telnet to the Cisco Unified MeetingPlace Audio Server system either through the network or a modem connection.



**Note** To restart the Cisco Unified MeetingPlace Audio Server system if it does not come up by itself, enter **restart enable**.

- Step 14** Note the time when the upgrade is complete and when the Cisco Unified MeetingPlace Audio Server system restarts and is back online.
- Step 15** Close the log file and record its location for future use.

## Testing the Upgrade

See “Testing the Cisco Unified MeetingPlace Audio Server System Installation and Upgrade” chapter.



**Note**

To test IP telephony, see the “About Troubleshooting IP Ports That Do Not Answer” and “About Troubleshooting IP Calls That Connect But No Audio is Heard” sections in the “Troubleshooting the Cisco Unified MeetingPlace System Configuration” chapter of the *Configuration Guide for Cisco Unified MeetingPlace Audio Server* at [http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products\\_installation\\_and\\_configuration\\_guides\\_list.html](http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_installation_and_configuration_guides_list.html).







## CHAPTER 5

# Testing the Cisco Unified MeetingPlace Audio Server System Installation and Upgrade

---

This chapter explains how to power up the Cisco Unified MeetingPlace Audio Server and how to test the installation and upgrade. It contains the following sections:

- [Powering Up the Cisco Unified MeetingPlace Audio Server System, page 5-1](#)
- [About Testing the Cisco Unified MeetingPlace Audio Server System Installation or Upgrade, page 5-2](#)
- [Testing Inbound Calls for T1 CAS, T1 PRI, and E1 Telephony by Using Circular Hunting, page 5-3](#)
- [Testing Inbound Calls for T1 CAS, T1 PRI, and E1 Telephony by Using a Dialing Sequence, page 5-4](#)
- [Testing Outbound Calls for T1 CAS, T1 PRI, and E1 Telephony, page 5-4](#)
- [Testing Scheduling, page 5-5](#)
- [Testing Conferencing in Recorded Meetings, page 5-6](#)
- [Testing Conferencing in Nonrecorded Meetings with Ad Hoc Recording, page 5-6](#)
- [Testing Cisco Unified MeetingPlace Web Conferencing, page 5-6](#)
- [Testing Network Latency, page 5-7](#)

## Powering Up the Cisco Unified MeetingPlace Audio Server System

The Cisco Unified MeetingPlace Audio Server system can take 5 to 10 minutes to complete initialization.

### To Power Up the Cisco Unified MeetingPlace Audio Server System

- 
- |               |                                                                                                                                                                                                                                                                                                                                                                         |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Step 1</b> | Move the Cisco Unified MeetingPlace Audio Server power switch to the on (“I”) position. Allow up to 10 minutes for the Audio Server system to initialize.                                                                                                                                                                                                               |
| <b>Step 2</b> | Connect your laptop to Cisco Unified MeetingPlace to confirm that the Cisco Unified MeetingPlace Audio Server has come up properly. (If your laptop has not been connected and set up, see the <a href="#">“Connecting Your Laptop to Cisco Unified MeetingPlace”</a> section on page 3-1 and the <a href="#">“About Configuring Your Laptop”</a> section on page 3-2.) |

- Step 3** If the Cisco Unified MeetingPlace Audio Server is not up, confirm that all components are secure:
- Confirm that all the cards are securely seated. (For the Cisco Unified MeetingPlace 8112, check if any of the blue LED lights below the cards are on. If a blue light is on, the card or transition module is not seated properly.)
  - Turn the power switch to the off (“O”) position.
  - Confirm that all the connections are secure.
  - After confirming that all components are secure, repeat the power-up procedure. If the Cisco Unified MeetingPlace Audio Server does not initialize properly on the second try, contact Cisco TAC. (See the [“Obtaining Documentation, Obtaining Support, and Security Guidelines”](#) section on page x.)

- Step 4** At the Cisco Unified MeetingPlace prompt, enter your username and password. The default username is admin, and the default password is cisco. The following menu appears:

```

user name: admin
Password:
Last login: Mon Aug 21 12:19:16 from Unknown-HostName
*****
*                               MeetingPlace(tm)                               *
*                               by Cisco Systems                               *
*                               Copyright (c) 1993-2006 Cisco Systems, Inc.      *
*                               All rights reserved.                            *
*****
Conference server 5.4.0      S/N: not set
Mon Aug 21 14:32:03 PST 2006
meetingplace:tech$

```

This allows you to enter commands on the Command Line Interface (CLI). For information about CLI commands, refer to the “Command-Line Interface Reference” appendix of the *Configuration Guide for Cisco Unified MeetingPlace Audio Server* at [http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products\\_installation\\_and\\_configuration\\_guides\\_list.html](http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_installation_and_configuration_guides_list.html).



**Note** The Cisco Unified MeetingPlace system does not support DNS; therefore, the name of the server that last logged in to the Cisco Unified MeetingPlace system is unknown.

## About Testing the Cisco Unified MeetingPlace Audio Server System Installation or Upgrade

To verify inbound calls, you must have a means for directly selecting each trunk connected to the Cisco Unified MeetingPlace system. Most PBX and central office trunks either use circular hunting, which accesses each port in turn, or allow each trunk to be selected with a special dialing sequence.



**Note** To test IP telephony, see the “About Troubleshooting IP Ports That Do Not Answer” and “About Troubleshooting IP Calls That Connect But No Audio is Heard” sections in the “Troubleshooting the Cisco Unified MeetingPlace System Configuration” Chapter of the *Configuration Guide for Cisco*

Unified MeetingPlace Audio Server at

[http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products\\_installation\\_and\\_configuration\\_guides\\_list.html](http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_installation_and_configuration_guides_list.html).

## Testing Inbound Calls for T1 CAS, T1 PRI, and E1 Telephony by Using Circular Hunting

### To Test Inbound Calls for T1 CAS, T1 PRI, and E1 Telephony by Using Circular Hunting

**Step 1** Access the CLI.



**Tip** If you do not already have terminal logging turned on, turn it on before proceeding. For information on logging, see the “[Logging Your HyperTerminal Session](#)” section on page 3-3.

**Step 2** Enter **spanstat span\_number -all** and press **Enter**. For the span number, start with span 0 and check each port before moving onto span 1 and other active spans.

**Step 3** Dial the system access number.

**Step 4** Look at the **spanstat** command output to monitor which port receives the call. For example, in the following code for T1 CAS, span 0, port 1 received the call.

```
meetingplace:tech$ spanstat 0 -ab
Span 0 (Card 0 Trunk 0) is up

 1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
TR TR
33 00
```

In the following code for T1 PRI, span 0, port 1 received the call.

```
meetingplace:tech$ spanstat 0 -ab
Span 0 (Card 0 Trunk 0) is up

 1  2  3  4  5  6  7  8  9  0   1  2  3  4  5  6  7  8  9  0   1  2  3
                   10                   20
ii.....
```

In the following code for E1, span 0, port 1 received the call.

```
meetingplace:tech$ spanstat 0 -all
E1 Span 0 (ETI 0 Line A) is up

 1  2  3  4  5  6  7  8  9  0   1  2  3  4  5  6  7  8  9  0   1  2  3  4  5  6  7  8  9  0
                   10                   20                   30
ii.....
```



**Note** Enter **spanstat help** to determine the character code definitions and sequences for the various types of connections.

- Step 5** When you hear the prompt “Welcome to MeetingPlace,” press **2**. The Cisco Unified MeetingPlace system replies with “Enter your profile number.” This verifies a full two-way connection between the PBX and central office.
- Step 6** Dial the Cisco Unified MeetingPlace system access number until each port is tested.

## Testing Inbound Calls for T1 CAS, T1 PRI, and E1 Telephony by Using a Dialing Sequence

### To Test Inbound Calls for T1 CAS, T1 PRI, and E1 Telephony by Using a Dialing Sequence

- Step 1** Ask the PBX administrator for the dialing sequence that controls which port picks up the call.
- Step 2** For each port, press **2** and listen for the “Enter your profile number” prompt. This ensures a full two-way connection between the PBX and central office.



**Tip** We recommend that the PBX hunt from the highest port to the lowest port.

## Testing Outbound Calls for T1 CAS, T1 PRI, and E1 Telephony

If Cisco Unified MeetingPlace is connected to a PBX, test outbound calls placed to extensions on the PBX and calls placed to the public network. Make a call on each port. Test outbound calls on PSTN connections, too.

### To Test Outbound Calls for T1 CAS, T1 PRI, and E1 Telephony

- Step 1** Access the CLI. If you do not already have terminal logging turned on, turn it on.
- Step 2** Enter **activity**. The following example appears:
- ```
meetingplace:tech$ activity
VUI Configuration: 1152 Sessions, 1200 Confs

***      VUI   INTERNAL   STATUS   UTILITY      ***

DebugMenu:
  1) Quick Status of all Ports              4) Make Test Call
  2) Verbose Status of Port Range           5) Show All Confs
  3) Display complete Port Information       0) Quit
Enter the Command (0 -- 100):
```
- Step 3** To make a test call, enter **4**. The Cisco Unified MeetingPlace system prompts you for a destination phone number.

```
meetingplace:tech$ activity
VUI Configuration: 1152 Sessions, 1200 Confs

***      VUI   INTERNAL   STATUS   UTILITY      ***
```

```

DebugMenu:
  1) Quick Status of all Ports
  2) Verbose Status of Port Range
  3) Display complete Port Information
  4) Make Test Call
  5) Show All Confs
  0) Quit
Enter the Command (0 -- 100): 4
You entered 4.
Enter destination for your call:

```



**Note** The preceding code examples are for a Cisco Unified MeetingPlace 8112. For a Cisco Unified MeetingPlace 8106, there are 576 sessions and 576 conferences.

- Step 4** Enter the extension of a nearby phone as the destination phone number to be dialed. A prompt asks if you want specific ports.
- Step 5** Enter **t** for true. A prompt asks if you want to specify a range of ports.
- Step 6** Enter **t** for true. A prompt asks for the starting port number.
- Step 7** Enter the lowest number. A prompt asks for the ending port number.
- Step 8** Enter a port number that is 10 or 20 ports above the starting-port number. A prompt asks if the system should do the test calls in groups.
- Step 9** Enter **f** for false. A prompt asks for the delay between calls.
- Step 10** Enter the desired delay. The phone rings.
- Step 11** Answer the phone and listen to voice quality. Press **1** and hang up. The Telnet display reports that the testing of that port is okay. The phone is called from the next port.
- Step 12** Repeat [Step 11](#) until all the ports in the specified group are tested.
- Step 13** Repeat this procedure by using the seven digit number (you may need to add a 9 along with the seven digits if connected to a PBX) to place a call to the public network.
- Step 14** To exit the **activity** command, enter **0**.

## Testing Scheduling



**Note** For new installations, MeetingTime and Cisco Unified MeetingPlace Web Conferencing may not be installed. You must install those applications before you can test scheduling.

When testing scheduling capability, log in as a technician. The scheduling tasks are the same for the following applications:

- Using the voice interface over the phone.
- Using MeetingTime.
- Using Cisco Unified MeetingPlace Web Conferencing.
- Using Cisco Unified MeetingPlace for Outlook.
- Using Cisco Unified MeetingPlace for Lotus Notes.

**To Test Scheduling**

- 
- Step 1** Confirm that you can schedule a new meeting.
  - Step 2** Confirm that you can attend the new meeting.
  - Step 3** If the Cisco Unified MeetingPlace notification option is enabled, confirm that you can receive notifications when meetings are scheduled.
- 

## Testing Conferencing in Recorded Meetings

Do the following procedure if the Cisco Unified MeetingPlace Audio Server system is configured for recordings.

**To Test Conferencing in a Recorded Meeting**

- 
- Step 1** Schedule a recorded meeting.
  - Step 2** Confirm that the meeting was recorded.
  - Step 3** Confirm that you can retrieve the meeting recording after the meeting.
- 

## Testing Conferencing in Nonrecorded Meetings with Ad Hoc Recording

Do the following procedure if the Cisco Unified MeetingPlace Audio Server system is configured for recordings.

**To Test Conferencing in a Nonrecorded Meeting with Ad Hoc Recording**

- 
- Step 1** Schedule a meeting without recording.
  - Step 2** Attend the meeting and activate the recording by pressing **#61**.
  - Step 3** Confirm that the meeting was recorded.
  - Step 4** Confirm that you can retrieve the meeting recording after the meeting.
- 

## Testing Cisco Unified MeetingPlace Web Conferencing

If Cisco Unified MeetingPlace Web Conferencing is installed, refer to the *Installation and Upgrade Guide for Cisco Unified MeetingPlace Web Conferencing* at [http://www.cisco.com/en/US/products/sw/ps5664/ps5669/prod\\_installation\\_guides\\_list.html](http://www.cisco.com/en/US/products/sw/ps5664/ps5669/prod_installation_guides_list.html) to perform a functional check.

# Testing Network Latency

## To Test Network Latency

- Step 1** Access the CLI and enter **ping -s 1000 IP\_address\_of\_another\_machine\_on\_the\_network**. The “-s 1000” argument simulates normal network activity by sending 1,000 bytes of dummy data to the other IP address.
- Step 2** After you receive several reply messages, enter **Ctrl-C**.  
If there is no reply, the Cisco Unified MeetingPlace Audio Server system cannot make a network connection to the machine that you specified. Verify the IP address and consult the internal networking contacts.
- Step 3** Confirm that there is 0 percent packet loss.

### Example 5-1 Testing Network Latency

```
meetingplace:tech$ ping -s 1000 172.20.19.25
--- Type <CTRL-C> to stop ---
PING 172.20.19.25 (172.20.19.25): 1000 data bytes
1008 bytes from 172.20.19.25: icmp_seq=0 ttl=255 time=2.897 ms
1008 bytes from 172.20.19.25: icmp_seq=1 ttl=255 time=2.584 ms
1008 bytes from 172.20.19.25: icmp_seq=2 ttl=255 time=2.587 ms
1008 bytes from 172.20.19.25: icmp_seq=3 ttl=255 time=2.578 ms
1008 bytes from 172.20.19.25: icmp_seq=4 ttl=255 time=2.615 ms
1008 bytes from 172.20.19.25: icmp_seq=5 ttl=255 time=2.582 ms
1008 bytes from 172.20.19.25: icmp_seq=6 ttl=255 time=2.577 ms
1008 bytes from 172.20.19.25: icmp_seq=7 ttl=255 time=2.586 ms
^C
--- 172.20.19.25 ping statistics ---
8 packets transmitted, 8 packets received, 0% packet loss
round-trip min/avg/max = 2.571/2.603/2.897 ms
```







## CHAPTER 6

# Maintaining the Cisco Unified MeetingPlace Audio Server System

---

This chapter describes how to maintain—not repair—the Cisco Unified MeetingPlace Audio Server system and contains the following sections:

- [Replacing the Filter in the Power Supply Unit Fan \(Cisco Unified MeetingPlace 8112 Only\), page 6-1](#)
- [Enabling Server Disk Capacity Monitoring, page 6-3](#)

(For information about repairing the Cisco Unified MeetingPlace Audio Server system, contact Cisco TAC. See the “[Obtaining Documentation, Obtaining Support, and Security Guidelines](#)” section on [page x](#).)

## Replacing the Filter in the Power Supply Unit Fan (Cisco Unified MeetingPlace 8112 Only)



### Note

The maintenance procedures in this section are for the Cisco Unified MeetingPlace 8112 only. The Cisco Unified MeetingPlace 8106 does not have a filter for the fan in the power supply unit.

You need to replace the filter in the power supply unit fan on a regular basis. The frequency of the replacement depends on how much dust is in the air. On average, you should replace the filter once a year.

In addition, if you see any of the following alarms, immediately check the power supply unit fan and its filter:

- 0x70034 (MAJOR) Temperature out of range.
- 0x700BB (MINOR) Power supply fan N is failing.
- 0x700C6 (MINOR) Power supply N cooling failure.

This section contains three procedures. Do them in the order listed to replace the filter.

Do not touch any of the exposed leads, terminals, or components. Hazardous voltages, capable of causing death, may be present in this product.

**Note**

CLI commands are case sensitive. For CLI command information, refer to the “Command-Line Interface Reference” appendix of the *Configuration Guide for Cisco Unified MeetingPlace Audio Server* at

[http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products\\_installation\\_and\\_configuration\\_guides\\_list.html](http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_installation_and_configuration_guides_list.html).

**To Remove the Old Filter in the Power Supply Unit Fan (Cisco Unified MeetingPlace 8112 Only)**

- 
- Step 1** Pull out the top edge of the filter frame by using the metal tab in the top left corner of the filter.
  - Step 2** Pull the filter frame up at a slight angle to remove it by sliding it in between the power supply unit and the power supply unit handle.
  - Step 3** Remove the filter from the frame.
- 

**To Install a New Filter in the Power Supply Unit Fan (Cisco Unified MeetingPlace 8112 Only)**

- 
- Step 1** Slide the new filter into the filter frame of the power supply unit fan.
  - Step 2** Place the filter frame between the power supply unit and the power supply unit handle. The correct orientation is when the metal tab on the filter frame is in the top left corner.
  - Step 3** Gently push the filter frame so that it stays in place. There is no lock position.
- 

**To Test the Filter in the Power Supply Unit Fan (Cisco Unified MeetingPlace 8112 Only)**

- 
- Step 1** Log in to the CLI as a technician. The tech\$ prompt appears.
  - Step 2** Log your terminal session. (For information on logging, see the “[Logging Your HyperTerminal Session](#)” section on page 3-3.)
  - Step 3** Enter **hwconfig**.
  - Step 4** Confirm that the output for the power supply units and their fans is like lines 9 to 12 (the lines in bold) in [Example 6-1](#).
- 

**Note**

The floppy drive and CD-ROM drive do not appear in the hwconfig command output, even when they are installed and running.

**Example 6-1 Testing the Power Supply Unit Fan Filter**

```
meetingplace:tech$ hwconfig
Cabinet:           Motorola CPX8216T
Bus architecture:   CompactPCI
Processor card:     CPV5370 S/N=5129443
  Processor:        Pentium III, Model 8, 700 MHz
  Memory:           512 MB
  Temperature:      31C
  Voltages:         3.32V, 5.02V, 12.06V
Power Supplies:
  PS1:             OK, fan is OK
```

```

PS2:                OK, fan is OK
PS3:                OK, fan is OK
SCSI Adapter:       NCR 810
DISK 1:             36000MB (SEAGATE ST336704LW REV=0004)
DISK 2:             36000MB (SEAGATE ST336704LW REV=0004)
Solid State Disk:   IMPERIAL "MG-35/400 ULTRA" S/N=0128 REV=B403
Battery: usage = 307 days, charge is OK
Ethernet:           Intel 8225x PCI 10/100 (0001af03c05e)
Modem:              Absent or unrecognized
Smart Blades:
Slot 16:            NMS CG6000C S/N=20363257 REV=5894-B2 MSC0 PRC0
Slot 15:            NMS CG6000C S/N=20363261 REV=5894-B2 MSC1 PRC1

```

## Enabling Server Disk Capacity Monitoring

You can monitor the disk use of the Cisco Unified MeetingPlace Audio Server system. The Cisco Unified MeetingPlace system raises an alarm when it reaches or exceeds a specified use threshold.

Threshold values denote the percentage of a particular file system that is currently being used. In general, 90 percent is a good value for a threshold. You can use a number lower than 90 to get an earlier warning, but you may get an alarm for a normal condition. We recommend using 90.

### To Enable Server Disk Capacity Monitoring

- Step 1** Log in to the CLI as a technician. The `tech$` prompt appears.
- Step 2** Log your terminal session. (For information on logging, see the [“Logging Your HyperTerminal Session” section on page 3-3.](#))
- Step 3** Enter **configdiskcap**.
- Step 4** Enter the number of the file whose use threshold capacity you want to modify. In [Example 6-2](#), we want to modify the use threshold capacity for the `/lat/db` file (file 2), so enter **2**.
- Step 5** Enter the new use threshold value for this file. In [Example 6-2](#), we want the use threshold capacity to be 95 percent, so enter **95**.
- Step 6** Save your changes and exit the **configdiskcap** command by entering **s**.

#### Example 6-2 Enabling Server Disk Capacity Monitoring

```

meetingplace:tech$ configdiskcap
*****
Disk Capacity Monitor Configuration
*****
Capacity values are utilization percentage thresholds.
A major alarm will be raised if a threshold is exceeded.

Select a file system threshold to modify when prompted.

Values must be between 60 and 99; a capacity
of 0 disables checking for that file system.

CAP% FILESYSTEM
====
1) 0      /
2) 0      /lat/db

```

```
3) 0      /tmp
4) 0      /lat/fs.1
5) 0      /lat/fs.2
6) 0      /lat/fs.3
```

```
Select an item to modify, s to save and exit,
or q to quit without saving: 2
enter new value for /lat/db: 95
```

```
CAP% FILESYSTEM
==== =====
```

```
1) 0      /
2) 95     /lat/db
3) 0      /tmp
4) 0      /lat/fs.1
5) 0      /lat/fs.2
6) 0      /lat/fs.3
```

```
Select an item to modify, s to save and exit,
or q to quit without saving: s
```

---



## CHAPTER 7

# Troubleshooting the Cisco Unified MeetingPlace Audio Server System Installation

---

The chapter contains the following sections:

- [Troubleshooting the Connection to the Audio Server System, page 7-1](#)
- [Troubleshooting Telephony Configuration, page 7-2](#)

## Troubleshooting the Connection to the Audio Server System

If you cannot connect to the Cisco Unified MeetingPlace Audio Server system by using MeetingTime, try any or all of the following tasks:

- Enter **ping** to ping a known good IP address to determine if the network can access the Cisco Unified MeetingPlace Audio Server system.
- Confirm with the network administrator that Cisco Unified MeetingPlace has been set up in the local host file.
- Check that you performed all the steps in the [“Setting Up Dial-Up Networking”](#) section on page 3-4.
- Check the network cabling.
- If possible, use a PC to check the LAN connectivity.
- Verify the network configuration by entering the **net** command.
- Verify the IP address, subnet mask, and default gateway values.
- Make sure that all cards and transition modules are seated properly.
- Check all cables and connections.



### Note

For CLI command information, refer to the “Command-Line Interface Reference” appendix of the *Configuration Guide for Cisco Unified MeetingPlace Audio Server* at [http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products\\_installation\\_and\\_configuration\\_guides\\_list.html](http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_installation_and_configuration_guides_list.html).

If these actions do not correct the problem, contact Cisco TAC. See the [“Obtaining Documentation, Obtaining Support, and Security Guidelines”](#) section on page x.

# Troubleshooting Telephony Configuration

## To Troubleshoot Telephony Configuration

- 
- Step 1** Check that the information you entered into MeetingTime from the worksheets in the *Installation Planning Guide for Cisco Unified MeetingPlace* is correct.
- Step 2** Check all the physical connections to the Cisco Unified MeetingPlace Audio Server system.
- Step 3** For the Cisco Unified MeetingPlace 8112, check that no LEDs are in a bad state. (Refer to the *Administration Guide for Cisco Unified MeetingPlace Audio Server* at [http://www.cisco.com/en/US/products/sw/ps5664/ps5669/prod\\_maintenance\\_guides\\_list.html](http://www.cisco.com/en/US/products/sw/ps5664/ps5669/prod_maintenance_guides_list.html) for an explanation of the LEDs.)
- Step 4** If you made any changes to the MeetingTime configuration, access the CLI and enter **restart**.
- Step 5** After the Cisco Unified MeetingPlace Audio Server system comes back up, repeat the testing procedures.
- If these actions do not correct the problem, contact Cisco TAC. (See the “[Obtaining Documentation, Obtaining Support, and Security Guidelines](#)” section on page x.)
-



## APPENDIX A

# Cisco Unified MeetingPlace Audio Server Software Upgrade Reference

---

This appendix contains sample sessions of upgrading the Cisco Unified MeetingPlace Audio Server software. (See the “[Upgrading the Cisco Unified MeetingPlace Audio Server Software](#)” chapter for upgrade procedures.)

Use the following sections as a reference when you are upgrading the software so that you will know how far in the process you are:

- [Viewing the Remote Upgrade for a Sample Session Without a Disk Backup, page A-1](#)
- [Viewing the Upgrade Status for a Remote Upgrade Session, page A-3](#)
- [Viewing the Real-Time Upgrade Status for a Remote Upgrade Session, page A-3](#)
- [Viewing the Onsite Upgrade for a Sample Session Without a Disk Backup, page A-16](#)

## Viewing the Remote Upgrade for a Sample Session Without a Disk Backup

```
bigfoot:csc$ down
Are you sure (y/n)? y
Checking to see if the system is loaded...OK
System DOWN procedure has been initiated.
The system is DOWN.
bigfoot:csc$ update
Update is from
  1) CD
  2) Diskette
  3) Remote File
  4) Local File
  q) (Quit Update)
Enter choice: 1
Please insert the update CD in the drive, then
wait for the drive to be quiet before continuing.

Press <ENTER> to continue or <CONTROL-C> to abort.

CD mounted OK; checking for update sets...
There is just one update set on the CD.
You wish to install: MeetingPlace 5.4
Is this correct? (y or n) y
-----
- MeetingPlace software release 5.4
```

## Viewing the Remote Upgrade for a Sample Session Without a Disk Backup

```
- Archive created: Fri Aug 1813:51:39 PDT 2006
```

```
-----
Press <ENTER> to continue or <CONTROL-C> to abort.
```

```
Mon Aug 21 14:20:41 PDT 2006 Starting ./UPDATE.phase1
Mon Aug 21 14:20:41 PDT 2006 Verifying the tape image checksum
Mon Aug 21 14:20:49 PDT 2006 Killing cron
Mon Aug 21 14:20:50 PDT 2006 Copying root file system from partition 1a to 2a
Mon Aug 21 14:21:35 PDT 2006 Starting extraction of files from archive:
Mon Aug 21 14:22:55 PDT 2006 Archive extraction is done.
Mon Aug 21 14:22:55 PDT 2006 Resetting system file ownerships:
Mon Aug 21 14:22:55 PDT 2006 Removing set-uid permissions:
Mon Aug 21 14:22:55 PDT 2006 Updating files and setting permissions:
Mon Aug 21 14:22:59 PDT 2006 Replacing ./lat/sys/drivers/falcon/falcon_detach with
./lat/sys/drivers/falcon/falcon_attach
Mon Aug 21 14:23:00 PDT 2006 Replacing ./bin/less with ./lat/etc/less
Mon Aug 21 14:23:00 PDT 2006 Replacing ./bin/login with ./lat/etc/bin.login
Mon Aug 21 14:23:00 PDT 2006 Replacing ./bin/rsh with ./lat/etc/rsh
Mon Aug 21 14:23:00 PDT 2006 Replacing ./etc/motd with ./lat/etc/etc.motd
Mon Aug 21 14:23:00 PDT 2006 Replacing ./lat/bin/dp with ./lat/etc/rsh
Mon Aug 21 14:23:00 PDT 2006 Replacing ./lat/bin/updatefile with ./lat/etc/runscr
Mon Aug 21 14:23:00 PDT 2006 Replacing ./lat/etc/setup_CSdb with ./lat/etc/runscr
Mon Aug 21 14:23:00 PDT 2006 Replacing ./lat/bin/clearshmem with ./lat/etc/runscr
Mon Aug 21 14:23:01 PDT 2006 Replacing ./lat/techbin/configdiskcap with
./lat/etc/runscr
Mon Aug 21 14:23:01 PDT 2006 Replacing ./lat/techbin/diskcopy with ./lat/etc/runscr
Mon Aug 21 14:23:01 PDT 2006 Replacing ./lat/techbin/download with ./lat/etc/runscr
Mon Aug 21 14:23:01 PDT 2006 Replacing ./lat/techbin/mpconvert with ./lat/etc/runscr
Mon Aug 21 14:23:01 PDT 2006 Replacing ./lat/techbin/newdisk with ./lat/etc/runscr
Mon Aug 21 14:23:01 PDT 2006 Replacing ./lat/techbin/revert with ./lat/etc/runscr
Mon Aug 21 14:23:01 PDT 2006 Replacing ./lat/techbin/restore with ./lat/etc/runscr
Mon Aug 21 14:23:01 PDT 2006 Replacing ./lat/techbin/restore_vp_db with
./lat/etc/runscr
Mon Aug 21 14:23:01 PDT 2006 Replacing ./lat/techbin/save with ./lat/etc/runscr
Mon Aug 21 14:23:01 PDT 2006 Replacing ./lat/techbin/sysconfig with ./lat/etc/runscr
Mon Aug 21 14:23:01 PDT 2006 Replacing ./lat/techbin/sysdatacopy with ./lat/etc/runscr
Mon Aug 21 14:23:01 PDT 2006 Replacing ./lat/techbin/su with ./lat/etc/su
Mon Aug 21 14:23:01 PDT 2006 Replacing ./lat/techbin/update with ./lat/etc/runscr
Mon Aug 21 14:23:03 PDT 2006 Replacing ./bin/xntpd with ./lat/etc/xntpd
Mon Aug 21 14:23:03 PDT 2006 Replacing ./net/inetd with ./lat/etc/inetd
Mon Aug 21 14:23:03 PDT 2006 Replacing ./net/telnetd with ./lat/etc/telnetd
Mon Aug 21 14:23:03 PDT 2006 Replacing ./lynx.os with ./lat/etc/lynx.os
Mon Aug 21 14:23:04 PDT 2006 Updating time zone files:
Mon Aug 21 14:23:05 PDT 2006 Installing the new OS files
Mon Aug 21 14:23:08 PDT 2006 Constructing a new prompt set on partition 2f
Mon Aug 21 14:23:17 PDT 2006 Constructed new alternate prompt set
Mon Aug 21 14:23:17 PDT 2006 Copying in the new prompt set
Mon Aug 21 14:23:34 PDT 2006 Prompt setup complete
Mon Aug 21 14:23:34 PDT 2006 Copying the active database into a fresh partition
Mon Aug 21 14:23:34 PDT 2006 Constructing a new database on partition 2e
Mon Aug 21 14:28:51 PDT 2006 New database construction is complete
Mon Aug 21 14:28:52 PDT 2006 Preparing the boot from the new software load
The first phase of the software upgrade is complete.
The system will now restart. As it comes up it will start the 2nd phase
```



## Viewing the Upgrade Status for a Remote Upgrade Session

```

Release 5.4, Aug  21, 2006
user name: tech
Password:
Last login: Mon Aug  21 19:31:14 from Unknown-HostName
*****
*                               MeetingPlace(tm)                               *
*                               by Cisco Systems                               *
*                                                                           *
*          Copyright (c) 1993-2006 Cisco Systems                             *
*                               All rights reserved.                         *
*****
Conference server 5.4 S/N: not set
Mon Aug  21 19:55:58 PDT 2006
:tech$ update status
Last status update: Aug 21 19:56
Building the deleted record database
:tech$ update status
Last status update: Aug  21 19:56
Upgrade phase 2: Database revision complete; almost done

```

## Viewing the Real-Time Upgrade Status for a Remote Upgrade Session

```

Release 5.4, Aug  21, 2006
user name: tech
Password:
Last login: Mon Aug  21 19:31:14 from Unknown-HostName
*****
*                               MeetingPlace(tm)                               *
*                               by Cisco Systems                               *
*                                                                           *
*          Copyright (c) 1993-2006 Cisco Systems                             *
*                               All rights reserved.                         *
*****
Conference server 5.4 S/N: not set
Mon Aug  21 19:55:58 PDT 2006
:tech$ update trace
Last update: Aug  21 19:56
----- Preallocating db Mon Aug  21 19:55:19 PDT 2006

Reserving 100 db records (code 10000) ...
the db file already has 1 16384 byte pages that can hold 143 record(s)

Reserving 200 dbclass records (code 10001) ...
Adding 2 16384 byte page(s) to get 127 record(s) ...

Reserving 200 dbmember records (code 10002) ...
Adding 1 16384 byte page(s) to get 200 record(s) ...

Pre-allocating each key file...
Adding 3 16384 byte pages to key file db.name...
Adding 3 16384 byte pages to key file dbclass.dbnamerecid...
Adding 5 16384 byte pages to key file dbclass.csdbnameskey...
Adding 3 16384 byte pages to key file dbclass.dbname...
Adding 3 16384 byte pages to key file dbclass.classname...
Adding 3 16384 byte pages to key file dbmember.fieldid...

```

## Viewing the Real-Time Upgrade Status for a Remote Upgrade Session

```

----- db preallocation complete Mon Aug 21 19:55:19 PDT 2006

----- Preallocating deletedrec Mon Aug 21 19:55:19 PDT 2006

Reserving 1000000 deletedrec records (code 10000) ...
the deletedrec file already has 1000000 record(s)

Pre-allocating each key file...
Adding 2 16384 byte pages to key file deletedrec.Sequence...

----- deletedrec preallocation complete Mon Aug 21 19:55:19 PDT 2006

----- Preallocating flexmenu Mon Aug 21 19:55:19 PDT 2006

Record 10000 (FMAppRec): has no preallocation count

Record 10001 (FMStateTable): has no preallocation count

Record 10002 (CustAppPrompt): has no preallocation count

Record 10003 (FMPlayPrompt): has no preallocation count

Record 10004 (FMGotoApp): has no preallocation count

Record 10005 (FMOptionMenu): has no preallocation count

Record 10006 (FMHangUp): has no preallocation count

Record 10007 (FMFindMtg): has no preallocation count

Record 10008 (FMReviewMtgMat): has no preallocation count

Record 10009 (FMGetProfile): has no preallocation count

Pre-allocating each key file...

----- flexmenu preallocation complete Mon Aug 21 19:55:21 PDT 2006

----- Preallocating gen Mon Aug 21 19:55:21 PDT 2006

Reserving 250000 user records (code 10002) ...
the user file already has 19231 16384 byte pages that can hold 250003 record(s)

Reserving 100 group records (code 10000) ...
the group file already has 3 16384 byte pages that can hold 117 record(s)

Record 10003 (gentmp1): has no preallocation count

Record 10005 (gentmp2): has no preallocation count

Record 10004 (gentmp3): has no preallocation count

Reserving 6 flexfield records (code 10001) ...
the flexfield file already has 14 record(s)

Pre-allocating each key file...
Adding 2 16384 byte pages to key file user.last...
Adding 2 16384 byte pages to key file user.name...
Adding 2 16384 byte pages to key file user.uniqueid...
Adding 2 16384 byte pages to key file user.username...
Adding 2 16384 byte pages to key file user.cuid...
Adding 2 16384 byte pages to key file user.cnlf...
Adding 2 16384 byte pages to key file user.lfn...
Adding 2 16384 byte pages to key file user.in...

```

```
Adding 2 16384 byte pages to key file user.vuname...
Adding 2 16384 byte pages to key file user.glfn...
Adding 2 16384 byte pages to key file user.UpdateTime...

----- gen preallocation complete Mon Aug 21 19:55:21 PDT 2006

Database Initialization Utility
Centura RDM 5.0.0 [24-Apr-2000] http://www.centurasoft.com/rdm
Copyright (c) 1992-2000 Centura Software Corporation. All Rights Reserved.

genlite initialized

----- Preallocating pegs Mon Aug 21 19:55:21 PDT 2006

Reserving 1 pegs records (code 10000) ...
the pegs file already has 1536 record(s)

Pre-allocating each key file...

----- pegs preallocation complete Mon Aug 21 19:55:21 PDT 2006

----- Preallocating podata Mon Aug 21 19:55:21 PDT 2006

Reserving 1 pomailbox records (code 10000) ...
the pomailbox file already has 32 record(s)

Reserving 20000 pomsgdata records (code 10001) ...

Pre-allocating each key file...
Adding 2 16384 byte pages to key file pomsgdata.compundkey...

----- podata preallocation complete Mon Aug 21 19:55:21 PDT 2006

----- Preallocating res Mon Aug 6 19:55:21 PDT 2003

Reserving 1 crres records (code 10004) ...
Adding 1 16384 byte page(s) to get 1 record(s) ...

Reserving 1 portres records (code 10005) ...
Adding 1 16384 byte page(s) to get 1 record(s) ...

Reserving 200000 didres records (code 10001) ...
Adding 513 16384 byte page(s) to get 200000 record(s) ...

Record 10000 (didconfigres): has no preallocation count

Record 10003 (schedparamsres): has no preallocation count

Reserving 13 crresfstaccess records (code 10006) ...
the crresfstaccess file already has 13 record(s)

Reserving 13 portresfstaccess records (code 10007) ...
the portresfstaccess file already has 13 record(s)

Reserving 13 vsresfstaccess records (code 10008) ...
the vsresfstaccess file already has 15 record(s)

Reserving 200000 vsres records (code 10002) ...
Adding 465 16384 byte page(s) to get 200000 record(s) ...

Pre-allocating each key file...
Adding 635 16384 byte pages to key file didres.strtdid...
Adding 343 16384 byte pages to key file didres.UpdateTime...
```

## Viewing the Real-Time Upgrade Status for a Remote Upgrade Session

```

Adding 3 16384 byte pages to key file crres.resourceid...
Adding 3 16384 byte pages to key file portres.resourceid...
Adding 343 16384 byte pages to key file vsres.resourceid...
Adding 343 16384 byte pages to key file vsres.UpdateTime...

----- res preallocation complete Mon Aug 21 19:55:26 PDT 2006

Database Initialization Utility
Centura RDM 5.0.0 [24-Apr-2000] http://www.centurasoft.com/rdm
Copyright (c) 1992-2000 Centura Software Corporation. All Rights Reserved.

reslite initialized

----- Preallocating status Mon Aug 21 19:55:26 PDT 2006

Reserving 200 alarmentry records (code 10000) ...
the alarmentry file already has 200 record(s)

Reserving 16384 exlogentry records (code 10001) ...
the exlogentry file already has 16384 record(s)

Reserving 1 hwstatus records (code 10002) ...
the hwstatus file already has 1 16384 byte pages that can hold 2047 record(s)

Reserving 1 swstatus records (code 10003) ...
the swstatus file already has 1 record(s)

Reserving 1500 exlogformat records (code 10004) ...
the exlogformat file already has 3374 record(s)

Reserving 20 apps records (code 10005) ...
the apps file already has 21 record(s)

Reserving 10000 outdial records (code 10006) ...
the outdial file already has 10000 record(s)

Reserving 10000 notification records (code 10007) ...
the notification file already has 10000 record(s)

Record 10008 (schedfail): has no preallocation count

Record 10009 (gwstatus): has no preallocation count

Pre-allocating each key file...

----- status preallocation complete Mon Aug 21 19:55:26 PDT 2006

----- Preallocating tcncfg Mon Aug 21 19:55:26 PDT 2006

Reserving 100 analogcard records (code 10000) ...
the analogcard file already has 1 16384 byte pages that can hold 431 record(s)

Reserving 1 masterswcard records (code 10001) ...
the masterswcard file already has 108 record(s)

Reserving 100 portrescard records (code 10002) ...
the portrescard file already has 108 record(s)

Reserving 100 tlcard records (code 10003) ...
the tlcard file already has 108 record(s)

Reserving 10 tlspan records (code 10004) ...
the tlspan file already has 432 record(s)

```

```
Reserving 1000 trunk records (code 10005) ...
the trunk file already has 10800 record(s)

Reserving 100 trunkgroup records (code 10006) ...
the trunkgroup file already has 1 16384 byte pages that can hold 110 record(s)

Reserving 100 elcard records (code 10007) ...
the elcard file already has 1 16384 byte pages that can hold 163 record(s)

Reserving 10 elspan records (code 10008) ...
the elspan file already has 36 record(s)

Record 10009 (accard): has no preallocation count

Record 10010 (acspan): has no preallocation count

Record 10012 (iprescard): has no preallocation count

Record 10013 (blade): has no preallocation count

Record 10014 (prottable): has no preallocation count

Record 10011 (ipglobalcfg): has no preallocation count

Pre-allocating each key file...
  Adding 3 16384 byte pages to key file analogcard.unitid...
  Adding 3 16384 byte pages to key file masterswcard.unitid...
  Adding 3 16384 byte pages to key file portrescard.unitid...
  Adding 3 16384 byte pages to key file tlcard.unitid...
  Adding 3 16384 byte pages to key file tlspan.unitid...
  Adding 3 16384 byte pages to key file trunkgroup.id...
  Adding 3 16384 byte pages to key file elcard.unitid...
  Adding 3 16384 byte pages to key file elspan.unitid...

----- tcnfg preallocation complete Mon Aug 21 19:55:27 PDT 2006

----- Preallocating userlist Mon Aug 21 19:55:27 PDT 2006

Reserving 100000 userlist records (code 10000) ...
the userlist file already has 2041 16384 byte pages that can hold 100009 record(s)

Reserving 500000 userlistmem records (code 10001) ...
the userlistmem file already has 611 16384 byte pages that can hold 500409 record(s)

Pre-allocating each key file...
  Adding 2 16384 byte pages to key file userlist.uniqueid...
  Adding 2 16384 byte pages to key file userlist.vuiid...
  Adding 2 16384 byte pages to key file userlist.name...
  Adding 2 16384 byte pages to key file userlist.unta...
  Adding 2 16384 byte pages to key file userlist.UpdateTime...
  Adding 2 16384 byte pages to key file userlist.oulid...
  Adding 2 16384 byte pages to key file userlistmem.uluid...
  Adding 2 16384 byte pages to key file userlistmem.UpdateTime...

----- userlist preallocation complete Mon Aug 21 19:55:27 PDT 2006
cmdbrev: dbprealloc done

cmdbrev: starting delrecinit
There are supposed to be 1000000 records in the deleted record database
Counting the number of records in the database...

2000
4000
```

## ■ Viewing the Real-Time Upgrade Status for a Remote Upgrade Session

6000  
8000  
10000  
12000  
14000  
16000  
18000  
20000  
22000  
24000  
26000  
28000  
30000  
32000  
34000  
36000  
38000  
40000  
42000  
44000  
46000  
48000  
50000  
52000  
54000  
56000  
58000  
60000  
62000  
64000  
66000  
68000  
70000  
72000  
74000  
76000  
78000  
80000  
82000  
84000  
86000  
88000  
90000  
92000  
94000  
96000  
98000  
100000  
102000  
104000  
106000  
108000  
110000  
112000  
114000  
116000  
118000  
120000  
122000  
124000  
126000  
128000  
130000  
132000

134000  
136000  
138000  
140000  
142000  
144000  
146000  
148000  
150000  
152000  
154000  
156000  
158000  
160000  
162000  
164000  
166000  
168000  
170000  
172000  
174000  
176000  
178000  
180000  
182000  
184000  
186000  
188000  
190000  
192000  
194000  
196000  
198000  
200000  
202000  
204000  
206000  
208000  
210000  
212000  
214000  
216000  
218000  
220000  
222000  
224000  
226000  
228000  
230000  
232000  
234000  
236000  
238000  
240000  
242000  
244000  
246000  
248000  
250000  
252000  
254000  
256000  
258000  
260000

## ■ Viewing the Real-Time Upgrade Status for a Remote Upgrade Session

262000  
264000  
266000  
268000  
270000  
272000  
274000  
276000  
278000  
280000  
282000  
284000  
286000  
288000  
290000  
292000  
294000  
296000  
298000  
300000  
302000  
304000  
306000  
308000  
310000  
312000  
314000  
316000  
318000  
320000  
322000  
324000  
326000  
328000  
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334000  
336000  
338000  
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342000  
344000  
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362000  
364000  
366000  
368000  
370000  
372000  
374000  
376000  
378000  
380000  
382000  
384000  
386000  
388000



```

390000
392000
394000
396000
398000
400000
402000
404000
406000
408000
410000
412000
414000
416000
418000
420000
422000
424000
426000
428000
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436000
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488000
490000
492000
494000
496000
498000
500000
502000
504000
506000
508000
510000
512000
514000
516000

```

## ■ Viewing the Real-Time Upgrade Status for a Remote Upgrade Session

518000  
520000  
522000  
524000  
526000  
528000  
530000  
532000  
534000  
536000  
538000  
540000  
542000  
544000  
546000  
548000  
550000  
552000  
554000  
556000  
558000  
560000  
562000  
564000  
566000  
568000  
570000  
572000  
574000  
576000  
578000  
580000  
582000  
584000  
586000  
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594000  
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598000  
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618000  
620000  
622000  
624000  
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630000  
632000  
634000  
636000  
638000  
640000  
642000  
644000

646000  
648000  
650000  
652000  
654000  
656000  
658000  
660000  
662000  
664000  
666000  
668000  
670000  
672000  
674000  
676000  
678000  
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682000  
684000  
686000  
688000  
690000  
692000  
694000  
696000  
698000  
700000  
702000  
704000  
706000  
708000  
710000  
712000  
714000  
716000  
718000  
720000  
722000  
724000  
726000  
728000  
730000  
732000  
734000  
736000  
738000  
740000  
742000  
744000  
746000  
748000  
750000  
752000  
754000  
756000  
758000  
760000  
762000  
764000  
766000  
768000  
770000  
772000

## ■ Viewing the Real-Time Upgrade Status for a Remote Upgrade Session

774000  
776000  
778000  
780000  
782000  
784000  
786000  
788000  
790000  
792000  
794000  
796000  
798000  
800000  
802000  
804000  
806000  
808000  
810000  
812000  
814000  
816000  
818000  
820000  
822000  
824000  
826000  
828000  
830000  
832000  
834000  
836000  
838000  
840000  
842000  
844000  
846000  
848000  
850000  
852000  
854000  
856000  
858000  
860000  
862000  
864000  
866000  
868000  
870000  
872000  
874000  
876000  
878000  
880000  
882000  
884000  
886000  
888000  
890000  
892000  
894000  
896000  
898000  
900000

```
902000
904000
906000
908000
910000
912000
914000
916000
918000
920000
922000
924000
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930000
932000
934000
936000
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950000
952000
954000
956000
958000
960000
962000
964000
966000
968000
970000
972000
974000
976000
978000
980000
982000
984000
986000
988000
990000
992000
994000
996000
998000
1000000
1000001 records found
cmdbrev: delrecinit done
```

```
cmdbrev: ending Mon Aug 21 19:56:08 PDT 2006
Mon Aug 21 19:56:08 PDT 2006 Network setup:
Unit class = SINGLE/LOCAL
Updating error log format strings: Using database path: /lat/db/status
48 new entries and 3375 replacements
Prompt Upgrade>> Opening file </lat/fs.1/prompt_db_vfs_map_dir0> ....
Number Of Language(s) in the prompt map file: 1
Starting English (US)...
```

```

Prompt Upgrade>> EOF (0) reached in /lat/fs.1/prompt_db_vfs_map_dir0 file (promptNum
1551): 0

... Done with English (US)

Starting Update Company Info

Loading to Lang Index=0

The languages installed are:
  Language 1   dir0  English (US)

FINISHED: Prompt Database Upgrade is complete!

Statistics: 0 new entries and 319 replacements
Updating time zone names: Using database path: /lat/db/config
Updating option names ... .. Done
Setting prompt file configuration
Working on /lat/fs.1/ ..
The file system directories are already updated
Working on /lat/fs.2/ ..
The file system directories are already updated
Working on /lat/fs.3/ ..
The file system directories are already updated
Adjusting prompt file sizes

Running vfptrfix...
Initializing the file system...
Getting the disk configuration status...
Checking file system internal consistency... (may take a while) ...
Mon Aug 21 19:56:15 PDT 2006 NOTE: Disk backups disabled; run 'save' to re-enable.
Mon Aug 21 6 19:56:15 PDT 2006 Software update is complete.

```

## Viewing the Onsite Upgrade for a Sample Session Without a Disk Backup

```

mtgplace:tech$ update
Update is from
  1) CD
  2) Diskette
  3) Remote File
  4) Local File
  q) (Quit Update)
Enter choice: 1
Please insert the update CD in the drive, then
wait for the drive to be quiet before continuing.

Press <ENTER> to continue or <CONTROL-C> to abort.

CD mounted OK; checking for update sets...
There is just one update set on the CD.
You wish to install: MeetingPlace 5.4
Is this correct? (y or n) y
-----
- MeetingPlace software release 5.4
- Archive created: Fri Aug 18 13:51:39 PDT 2006
-----
Press <ENTER> to continue or <CONTROL-C> to abort.

```

```

Mon Aug 21 18:50:22 PDT 2006 Starting ./UPDATE.phasel
Mon Aug 21 18:50:22 PDT 2006 Verifying the tape image checksum
Mon Aug 21 18:50:30 PDT 2006 Killing cron
Mon Aug 21 18:50:31 PDT 2006 Copying root file system from partition 1a to 2a
Mon Aug 21 18:51:17 PDT 2006 Starting extraction of files from archive:
Mon Aug 21 18:52:31 PDT 2006 Archive extraction is done.
Mon Aug 21 18:52:31 PDT 2006 Resetting system file ownerships:
Mon Aug 21 18:52:31 PDT 2006 Removing set-uid permissions:
Mon Aug 21 18:52:31 PDT 2006 Updating files and setting permissions:
Mon Aug 21 18:52:35 PDT 2006 Replacing ./lat/sys/drivers/falcon/falcon_detach with
./lat/sys/drivers/falcon/falcon_attach
Mon Aug 21 18:52:36 PDT 2006 Replacing ./bin/less with ./lat/etc/less
Mon Aug 21 18:52:36 PDT 2006 Replacing ./bin/login with ./lat/etc/bin.login
Mon Aug 21 18:52:36 PDT 2006 Replacing ./bin/rsh with ./lat/etc/rsh
Mon Aug 21 18:52:36 PDT 2006 Replacing ./etc/motd with ./lat/etc/etc.motd
Mon Aug 21 18:52:36 PDT 2006 Replacing ./lat/bin/dp with ./lat/etc/rsh
Mon Aug 21 18:52:36 PDT 2006 Replacing ./lat/bin/updatefile with ./lat/etc/runscr
Mon Aug 21 18:52:36 PDT 2006 Replacing ./lat/etc/setup_CSdb with ./lat/etc/runscr
Mon Aug 21 18:52:36 PDT 2006 Replacing ./lat/bin/clearshmem with ./lat/etc/runscr
Mon Aug 21 18:52:37 PDT 2006 Replacing ./lat/techbin/configdiskcap with
./lat/etc/runscr
Mon Aug 21 18:52:37 PDT 2006 Replacing ./lat/techbin/diskcopy with ./lat/etc/runscr
Mon Aug 21 18:52:37 PDT 2006 Replacing ./lat/techbin/download with ./lat/etc/runscr
Mon Aug 21 18:52:37 PDT 2006 Replacing ./lat/techbin/mpconvert with ./lat/etc/runscr
Mon Aug 21 18:52:37 PDT 2006 Replacing ./lat/techbin/newdisk with ./lat/etc/runscr
Mon Aug 21 18:52:37 PDT 2006 Replacing ./lat/techbin/revert with ./lat/etc/runscr
Mon Aug 21 18:52:37 PDT 2006 Replacing ./lat/techbin/restore with ./lat/etc/runscr
Mon Aug 21 18:52:37 PDT 2006 Replacing ./lat/techbin/restore_vp_db with
./lat/etc/runscr
Mon Aug 21 18:52:37 PDT 2006 Replacing ./lat/techbin/save with ./lat/etc/runscr
Mon Aug 21 18:52:37 PDT 2006 Replacing ./lat/techbin/sysconfig with ./lat/etc/runscr
Mon Aug 21 18:52:37 PDT 2006 Replacing ./lat/techbin/sysdatacopy with ./lat/etc/runscr
Mon Aug 21 18:52:37 PDT 2006 Replacing ./lat/techbin/su with ./lat/etc/su
Mon Aug 21 18:52:37 PDT 2006 Replacing ./lat/techbin/update with ./lat/etc/runscr
Mon Aug 21 18:52:39 PDT 2006 Replacing ./bin/xntpd with ./lat/etc/xntpd
Mon Aug 21 18:52:39 PDT 2006 Replacing ./net/inetd with ./lat/etc/inetd
Mon Aug 21 18:52:39 PDT 2006 Replacing ./net/telnetd with ./lat/etc/telnetd
Mon Aug 21 18:52:39 PDT 2006 Replacing ./lynx.os with ./lat/etc/lynx.os
Mon Aug 21 18:52:40 PDT 2006 Updating time zone files:
Mon Aug 21 18:52:41 PDT 2006 Installing the new OS files
Mon Aug 21 18:52:43 PDT 2006 Constructing a new prompt set on partition 2f
Mon Aug 21 18:52:53 PDT 2006 Constructed new alternate prompt set
Mon Aug 21 18:52:53 PDT 2006 Copying in the new prompt set
Mon Aug 21 18:53:44 PDT 2006 Prompt setup complete
Mon Aug 21 18:53:44 PDT 2006 Copying the active database into a fresh partition
Mon Aug 21 18:53:44 PDT 2006 Constructing a new database on partition 2c
Mon Aug 21 18:59:02 PDT 2006 New database construction is complete
Mon Aug 21 18:59:03 PDT 2006 Preparing the boot from the new software load
The first phase of the software upgrade is complete.
The system will now restart. As it comes up it will start the 2nd phase

**** LynxOS is down ****
LynxOS 386/486/Pentium PC-AT Version 3.1.0
Copyright 1987-1998 Lynx Real-Time Systems Inc.
All rights reserved.

LynxOS (x86) created Tue Sep 30 15:05:41 PDT 2003
Rebooting into multi-user mode in 5 seconds...
12345
**** LynxOS is down ****
LynxOS 386/486/Pentium PC-AT Version 3.1.0
Copyright 1987-1998 Lynx Real-Time Systems Inc.
All rights reserved.

```

## Viewing the Onsite Upgrade for a Sample Session Without a Disk Backup

LynxOS (x86) created Mon Aug 18 15:05:41 PDT 2006

MeetingPlace by Cisco Systems

Mon Aug 21 19:01:07 PDT 2006

Startup flags = a

(all sizes and block numbers in decimal)  
 (block size is 16384)  
 (file system is byte-swapped)  
 (file system creation time is Mon Aug 21 18:50:30 2006)  
 (file system contains 31999 blocks and 7936 inodes)  
 checking used files  
 checking for orphaned files  
 making bit map free block list  
 making free inode list  
 14624 free blocks 6080 free inodes  
 Filesystem Ok  
 SCSI adapter is NCR 8xx.  
 Copying /tmp FS from partition 2b to 1b  
 /tmp moved to /dev/disk1b  
 Unit class is standalone conference server (SINGLE).  
 Bus architecture is CompactPCI (M3).  
 Ethernet device is "pro0".  
 Initializing the modem on COM2.../lat/bin/initmodem ...  
 /lat/bin/initmodem: type is `MultiTech MT5634Z'  
 /lat/bin/initmodem: modem initialized  
 Installing Cisco drivers...  
 devinstall: acti.dat: Device doesn't exist  
 done.  
 Executing the 2nd stage of software upgrade.  
 Mon Aug 21 19:01:44 PDT 2006 Phase 2 starting  
 Revising database from 5.3.0 to 5.4

cmdbrev: begun Mon Aug 21 19:01:44 PDT 2006  
 DB Config file is m3.con  
 Unpacking the archive:  
 Mon Aug 21 19:01:44 PDT 2006  
 cmdbrev: starting /lat/bin/initdb -y 5.4.0/config

Database Initialization Utility  
 Centura RDM 5.0.0 [24-Apr-2000] <http://www.centurasoft.com/rdm>  
 Copyright (c) 1992-2000 Centura Software Corporation. All Rights Reserved.

5.4.0/config initialized

cmdbrev: /lat/bin/initdb done

Beginning dbrev at Mon Aug 21 19:01:44 PDT 2006  
 cmdbrev: starting /lat/bin/dbrev -s 5.4.0/config.rdl -q -v /lat/db/config 5.4.0/config  
 line 22: field CSSYSTEMCONFIG.MAXMEETINGIDLENGT not contained in destination database

dbrev compilation complete

Processing file /lat/db/billinginfo containing 0 records

Current slot 0 (0 seconds)

Processing file /lat/db/companyinfo containing 1 records

Current slot 1 (0 seconds)

Processing file /lat/db/filestats containing 0 records



```
Current slot 0 (0 seconds)
Processing file /lat/db/hwconfig containing 0 records
Current slot 0 (0 seconds)
Processing file /lat/db/hwstats containing 0 records
Current slot 0 (0 seconds)
Processing file /lat/db/option containing 22 records
Current slot 22 (0 seconds)
Processing file /lat/db/outdialtrans containing 16 records
Current slot 16 (0 seconds)
Processing file /lat/db/netmgtinfo containing 1 records
Current slot 1 (0 seconds)
Processing file /lat/db/netmgtcomm containing 3 records
Current slot 3 (0 seconds)
Processing file /lat/db/unit containing 128 records
Current slot 128 (0 seconds)
Processing file /lat/db/site containing 8 records
Current slot 8 (0 seconds)
Processing file /lat/db/promptstats containing 0 records
Current slot 0 (0 seconds)
Processing file /lat/db/scsi containing 128 records
Current slot 128 (0 seconds)
Processing file /lat/db/swconfig containing 1 records
Current slot 1 (0 seconds)
Processing file /lat/db/swstats containing 0 records
Current slot 0 (0 seconds)
Processing file /lat/db/systemconfig containing 1 records
Current slot 1 (0 seconds)
Processing file /lat/db/timezone containing 319 records
Current slot 319 (0 seconds)
Processing file /lat/db/mtgcategory containing 1 records
Current slot 1 (0 seconds)
Processing file /lat/db/remoteserver containing 0 records
```

```

Current slot 0 (0 seconds)

Processing file /lat/db/didcnfgconfig containing 16 records

Current slot 16 (0 seconds)

Processing file /lat/db/schedparamsconfig containing 1 records

Current slot 1 (0 seconds)
dbrev completed, successful restructure

Database Restructure Utility
Centura RDM 5.0.0 [24-Apr-2000] http://www.centurasoft.com/rdm
Copyright (c) 1992-2000 Centura Software Corporation. All Rights Reserved.

cmdbrev: /lat/bin/dbrev done

Copying 5.4.0/billinginfo:
16384 16384
Copying 5.4.0/companyinfo:
32768 32768
Copying 5.4.0/filestats:
16384 16384
Copying 5.4.0/hwconfig:
16384 16384
Copying 5.4.0/hwstats:
16384 16384
Copying 5.4.0/option:
4096 4096
Copying 5.4.0/outdialtrans:
32768 32768
Copying 5.4.0/netmgtinfo:
32768 32768
Copying 5.4.0/netmgtcomm:
32768 32768
Copying 5.4.0/unit:
65536 65536
Copying 5.4.0/site:
32768 32768
Copying 5.4.0/promptstats:
16384 16384
Copying 5.4.0/scsi:
32768 32768
Copying 5.4.0/swconfig:
32768 32768
Copying 5.4.0/swstats:
16384 16384
Copying 5.4.0/systemconfig:
32768 32768
Copying 5.4.0/timezone:
65536 65536
Copying 5.4.0/mtgcategory:
32768 32768
Copying 5.4.0/remoteserver:
16384 16384
Copying 5.4.0/didcnfgconfig:
32768 32768
Copying 5.4.0/schedparamsconfig:
32768 32768
Copying 5.4.0/filestats.recnum:
32768 32768
Copying 5.4.0/netmgtcomm.name:
32768 32768

```

```
Copying 5.4.0/outdialtrans.recnum:
32768 32768
Copying 5.4.0/option.name:
2048 2048
Copying 5.4.0/timezone.id:
32768 32768
Copying 5.4.0/timezone.timezonekey:
32768 32768
Copying 5.4.0/unit.unitnum:
32768 32768
Copying 5.4.0/site.sitenum:
32768 32768
Copying 5.4.0/scsi.unitid:
32768 32768
Copying 5.4.0/mtgcategory.uniqueid:
32768 32768
Copying 5.4.0/mtgcategory.name:
32768 32768
Copying 5.4.0/mtgcategory.mtgcatkey:
32768 32768
Copying 5.4.0/remoteserver.uniqueid:
32768 32768
Copying 5.4.0/remoteserver.name:
32768 32768
Copying 5.4.0/remoteserver.vuid:
32768 32768
Copying 5.4.0/remoteserver.ether:
32768 32768
Copying 5.4.0/didcnfgconfig.unitnum:
32768 32768
cmdbrev: starting /lat/bin/initdb -y 5.4.0/config

Database Initialization Utility
Centura RDM 5.0.0 [24-Apr-2000] http://www.centurasoft.com/rdm
Copyright (c) 1992-2000 Centura Software Corporation. All Rights Reserved.

5.4.0/config initialized

cmdbrev: /lat/bin/initdb done

cmdbrev: starting /lat/bin/initdb -y 5.4.0/res

Database Initialization Utility
Centura RDM 5.0.0 [24-Apr-2000] http://www.centurasoft.com/rdm
Copyright (c) 1992-2000 Centura Software Corporation. All Rights Reserved.

5.4.0/res initialized

cmdbrev: /lat/bin/initdb done

Beginning dbrev at Mon Aug 21 19:01:47 PDT 2006
cmdbrev: starting /lat/bin/dbrev -q -v /lat/db/res 5.4.0/res

dbrev compilation complete

Processing file /lat/db/crres containing 0 records

Current slot 0 (0 seconds)

Processing file /lat/db/portres containing 0 records

Current slot 0 (0 seconds)
```

```

Processing file /lat/db/didres containing 0 records

Current slot 0 (0 seconds)

Processing file /lat/db/didconfigres containing 0 records

Current slot 0 (0 seconds)

Processing file /lat/db/schedparamsres containing 0 records

Current slot 0 (0 seconds)

Processing file /lat/db/crresfstaccess containing 13 records

Current slot 13 (0 seconds)

Processing file /lat/db/portresfstaccess containing 13 records

Current slot 13 (0 seconds)

Processing file /lat/db/vsresfstaccess containing 15 records

Current slot 15 (0 seconds)

Processing file /lat/db/vsres containing 0 records

Current slot 0 (0 seconds)
dbrev completed, successful restructure

Database Restructure Utility
Centura RDM 5.0.0 [24-Apr-2000] http://www.centurasoft.com/rdm
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cmdbrev: /lat/bin/dbrev done

Copying 5.4.0/crres:
16384 16384
Copying 5.4.0/portres:
16384 16384
Copying 5.4.0/didres:
16384 16384
Copying 5.4.0/didconfigres:
16384 16384
Copying 5.4.0/schedparamsres:
16384 16384
Copying 5.4.0/crresfstaccess:
258048 258048
Copying 5.4.0/portresfstaccess:
258048 258048
Copying 5.4.0/vsresfstaccess:
65536 65536
Copying 5.4.0/vsres:
16384 16384
Copying 5.4.0/didconfigres.unitnum:
32768 32768
Copying 5.4.0/didres.strtdid:
32768 32768
Copying 5.4.0/didres.UpdateTime:
32768 32768
Copying 5.4.0/crres.resourceid:
32768 32768
Copying 5.4.0/portres.resourceid:
32768 32768
Copying 5.4.0/vsres.resourceid:

```

```
32768 32768
Copying 5.4.0/vsres.UpdateTime:
32768 32768
cmdbrev: starting /lat/bin/initdb -y 5.4.0/res

Database Initialization Utility
Centura RDM 5.0.0 [24-Apr-2000] http://www.centurasoft.com/rdm
Copyright (c) 1992-2000 Centura Software Corporation. All Rights Reserved.

5.4.0/res initialized

cmdbrev: /lat/bin/initdb done

cmdbrev: starting /lat/bin/initdb -y 5.4.0/tcnfg

Database Initialization Utility
Centura RDM 5.0.0 [24-Apr-2000] http://www.centurasoft.com/rdm
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5.4.0/tcnfg initialized

cmdbrev: /lat/bin/initdb done

Beginning dbrev at Mon Aug 21 19:01:48 PDT 2006
cmdbrev: starting /lat/bin/dbrev -q -v /lat/db/tcnfg 5.4.0/tcnfg

dbrev compilation complete

Processing file /lat/db/analogcard containing 45 records

Current slot 45 (0 seconds)

Processing file /lat/db/masterswcard containing 108 records

Current slot 108 (0 seconds)

Processing file /lat/db/portrescard containing 108 records

Current slot 108 (0 seconds)

Processing file /lat/db/tlcard containing 108 records

Current slot 108 (0 seconds)

Processing file /lat/db/tlspan containing 432 records

Current slot 432 (0 seconds)

Processing file /lat/db/trunk containing 10800 records

Current slot 1000 (0 seconds) Current slot 2000 (0 seconds) Current slot 3000 (1 seconds)
Current slot 4000 (1 seconds) Current slot 5000 (1 seconds) Current slot 6000 (1 seconds)
Current slot 7000 (1 seconds) Current slot 8000 (1 seconds) Current slot 9000 (2 seconds)
Current slot 10000 (2 seconds) Current slot 10800 (2 seconds)

Processing file /lat/db/trunkgroup containing 32 records

Current slot 32 (0 seconds)

Processing file /lat/db/elcard containing 18 records

Current slot 18 (0 seconds)
```

Processing file /lat/db/elspan containing 36 records

Current slot 36 (0 seconds)

Processing file /lat/db/accard containing 27 records

Current slot 27 (0 seconds)

Processing file /lat/db/acspan containing 432 records

Current slot 432 (0 seconds)

Processing file /lat/db/iprescard containing 108 records

Current slot 108 (0 seconds)

Processing file /lat/db/blade containing 12 records

Current slot 12 (0 seconds)

Processing file /lat/db/protable containing 100 records

Current slot 100 (0 seconds)

dbrev completed, successful restructure

Database Restructure Utility

Centura RDM 5.0.0 [24-Apr-2000] <http://www.centurasoft.com/rdm>

Copyright (c) 1992-2000 Centura Software Corporation. All Rights Reserved.

cmdbrev: /lat/bin/dbrev done

Copying 5.4.0/analogcard:

32768 32768

Copying 5.4.0/masterswcard:

32768 32768

Copying 5.4.0/portrescard:

32768 32768

Copying 5.4.0/tlcard:

32768 32768

Copying 5.4.0/tlspan:

49152 49152

Copying 5.4.0/trunk:

1048576 1851392

Copying 5.4.0/trunkgroup:

32768 32768

Copying 5.4.0/elcard:

32768 32768

Copying 5.4.0/elspan:

32768 32768

Copying 5.4.0/accard:

32768 32768

Copying 5.4.0/acspan:

65536 65536

Copying 5.4.0/iprescard:

32768 32768

Copying 5.4.0/blade:

32768 32768

Copying 5.4.0/protable:

65536 65536

Copying 5.4.0/ipglobalcfg:

16384 16384

Copying 5.4.0/analogcard.unitid:

32768 32768

Copying 5.4.0/masterswcard.unitid:

Installation and Upgrade Guide for Cisco Unified MeetingPlace Audio Server 6.x

## Viewing the Onsite Upgrade for a Sample Session Without a Disk Backup

```

Fixing group records+++++++!
update: upgradetcnfg done

cndbrev: 5.4/update done

cndbrev: starting dbprealloc -b /lat/db

----- Preallocating conf_att Mon Aug 21 19:01:58 PDT 2006

Reserving 200000 confatt records (code 10000) ...
the confatt file already has 7143 16384 byte pages that can hold 200004 record(s)

Reserving 1000 rsconfpart records (code 10001) ...
the rsconfpart file already has 8 16384 byte pages that can hold 1008 record(s)

Reserving 200000 conf records (code 10003) ...
the conf file already has 11112 16384 byte pages that can hold 200016 record(s)

Reserving 1000000 confpart records (code 10005) ...
the confpart file already has 8696 16384 byte pages that can hold 1000040 record(s)

Reserving 1000000 conftime records (code 10004) ...
the conftime file already has 5026 16384 byte pages that can hold 1000174 record(s)

Record 10002 (tmp4): has no preallocation count

Reserving 200000 partnotrec records (code 10006) ...
the partnotrec file already has 5406 16384 byte pages that can hold 200022 record(s)

Reserving 200000 confcatrec records (code 10007) ...
the confcatrec file already has 294 16384 byte pages that can hold 200508 record(s)

Pre-allocating each key file...
Adding 2 16384 byte pages to key file confatt.confattrefid...
Adding 2 16384 byte pages to key file confatt.UpdateTime...
Adding 2 16384 byte pages to key file rsconfpart.srtuserconf...
Adding 2 16384 byte pages to key file rsconfpart.confpart...
Adding 2 16384 byte pages to key file conf.nextevent...
Adding 2 16384 byte pages to key file conf.uniquenum...
Adding 2 16384 byte pages to key file conf.sdmc...
Adding 2 16384 byte pages to key file conf.ssnd...
Adding 2 16384 byte pages to key file conf.lmcn...
Adding 2 16384 byte pages to key file conf.dspc...
Adding 2 16384 byte pages to key file conf.psd...
Adding 2 16384 byte pages to key file conf.UpdateTime...
Adding 2 16384 byte pages to key file confpart.srtuserconf...
Adding 2 16384 byte pages to key file confpart.confpart...
Adding 2 16384 byte pages to key file confpart.UpdateTime...
Adding 2 16384 byte pages to key file conftime.confpart...
Adding 2 16384 byte pages to key file conftime.UpdateTime...
Adding 2 16384 byte pages to key file partnotrec.confpart...
Adding 2 16384 byte pages to key file partnotrec.UpdateTime...
Adding 2 16384 byte pages to key file confcatrec.cstuid...
Adding 2 16384 byte pages to key file confcatrec.uidc...
Adding 2 16384 byte pages to key file confcatrec.ConfNum...
Adding 2 16384 byte pages to key file confcatrec.UpdateTime...

----- conf_att preallocation complete Mon Aug 21 19:01:59 PDT 2006

----- Preallocating config Mon Aug 21 19:01:59 PDT 2006

Reserving 1 billinginfo records (code 10000) ...
Adding 1 16384 byte page(s) to get 1 record(s) ...

```



```
Reserving 1 companyinfo records (code 10001) ...
  the companyinfo file already has 1 record(s)

Reserving 1 filestats records (code 10002) ...
  Adding 1 16384 byte page(s) to get 1 record(s) ...

Reserving 1 hwconfig records (code 10003) ...
  Adding 1 16384 byte page(s) to get 1 record(s) ...

Reserving 1 hwstats records (code 10004) ...
  Adding 1 16384 byte page(s) to get 1 record(s) ...

Reserving 26 option records (code 10005) ...
  Adding 1 1024 byte page(s) to get 2 record(s) ...

Reserving 64 outdialtrans records (code 10006) ...
  the outdialtrans file already has 1 16384 byte pages that can hold 122 record(s)

Reserving 1 netmgtinfo records (code 10013) ...
  the netmgtinfo file already has 1 record(s)

Reserving 10 netmgtcomm records (code 10014) ...
  the netmgtcomm file already has 1 16384 byte pages that can hold 105 record(s)

Reserving 32 unit records (code 10015) ...
  the unit file already has 128 record(s)

Reserving 8 site records (code 10017) ...
  the site file already has 8 record(s)

Reserving 1 promptstats records (code 10007) ...
  Adding 1 16384 byte page(s) to get 1 record(s) ...

Reserving 10 scsi records (code 10008) ...
  the scsi file already has 128 record(s)

Reserving 1 swconfig records (code 10009) ...
  the swconfig file already has 1 record(s)

Reserving 1 swstats records (code 10010) ...
  Adding 1 16384 byte page(s) to get 1 record(s) ...

Reserving 1 systemconfig records (code 10011) ...
  the systemconfig file already has 1 record(s)

Reserving 1 timezone records (code 10012) ...
  the timezone file already has 319 record(s)

Reserving 10000 mtgcategory records (code 10016) ...
  Adding 105 16384 byte page(s) to get 9905 record(s) ...

Reserving 1000 remoteserver records (code 10018) ...
  Adding 24 16384 byte page(s) to get 1000 record(s) ...

Record 10019 (didcnfgconfig): has no preallocation count

Record 10020 (schedparamsconfig): has no preallocation count

Pre-allocating each key file...
  Adding 3 16384 byte pages to key file filestats.recnum...
  Adding 3 16384 byte pages to key file netmgtcomm.name...
  Adding 3 16384 byte pages to key file outdialtrans.recnum...
  Adding 3 1024 byte pages to key file option.name...
  Adding 3 16384 byte pages to key file timezone.id...
```

```

Adding 3 16384 byte pages to key file timezone.timezonekey...
Adding 3 16384 byte pages to key file unit.unitnum...
Adding 3 16384 byte pages to key file site.sitenum...
Adding 3 16384 byte pages to key file scsi.unitid...
Adding 17 16384 byte pages to key file mtgcategory.uniqueid...
Adding 37 16384 byte pages to key file mtgcategory.name...
Adding 47 16384 byte pages to key file mtgcategory.mtgcatkey...
Adding 3 16384 byte pages to key file remoteserver.uniqueid...
Adding 3 16384 byte pages to key file remoteserver.name...
Adding 3 16384 byte pages to key file remoteserver.vuid...
Adding 3 16384 byte pages to key file remoteserver.ether...

----- config preallocation complete Mon Aug 21 19:02:00 PDT 2006

Database Initialization Utility
Centura RDM 5.0.0 [24-Apr-2000] http://www.centurasoft.com/rdm
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conflite initialized

----- Preallocating db Mon Aug 21 19:02:00 PDT 2006

Reserving 100 db records (code 10000) ...
the db file already has 1 16384 byte pages that can hold 143 record(s)

Reserving 200 dbclass records (code 10001) ...
Adding 2 16384 byte page(s) to get 127 record(s) ...

Reserving 200 dbmember records (code 10002) ...
Adding 1 16384 byte page(s) to get 200 record(s) ...

Pre-allocating each key file...
Adding 3 16384 byte pages to key file db.name...
Adding 3 16384 byte pages to key file dbclass.dbnamerecid...
Adding 5 16384 byte pages to key file dbclass.csdbnameskey...
Adding 3 16384 byte pages to key file dbclass.dbname...
Adding 3 16384 byte pages to key file dbclass.classname...
Adding 3 16384 byte pages to key file dbmember.fieldid...

----- db preallocation complete Mon Aug 21 19:02:00 PDT 2006

----- Preallocating deletedrec Mon Aug 21 19:02:00 PDT 2006

Reserving 1000000 deletedrec records (code 10000) ...
the deletedrec file already has 1000000 record(s)

Pre-allocating each key file...
Adding 2 16384 byte pages to key file deletedrec.Sequence...

----- deletedrec preallocation complete Mon Aug 21 19:02:01 PDT 2006

----- Preallocating flexmenu Mon Aug 21 19:02:01 PDT 2006

Record 10000 (FMAppRec): has no preallocation count

Record 10001 (FMStateTable): has no preallocation count

Record 10002 (CustAppPrompt): has no preallocation count

Record 10003 (FMPlayPrompt): has no preallocation count

Record 10004 (FMGotoApp): has no preallocation count

```

```
Record 10005 (FMOptionMenu): has no preallocation count

Record 10006 (FMHangUp): has no preallocation count

Record 10007 (FMFindMtg): has no preallocation count

Record 10008 (FMReviewMtgMat): has no preallocation count

Record 10009 (FMGetProfile): has no preallocation count

Pre-allocating each key file...

----- flexmenu preallocation complete Mon Aug 21 19:02:02 PDT 2006

----- Preallocating gen Mon Aug 21 19:02:02 PDT 2006

Reserving 250000 user records (code 10002) ...
the user file already has 19231 16384 byte pages that can hold 250003 record(s)

Reserving 100 group records (code 10000) ...
the group file already has 3 16384 byte pages that can hold 117 record(s)

Record 10003 (gentmp1): has no preallocation count

Record 10005 (gentmp2): has no preallocation count

Record 10004 (gentmp3): has no preallocation count

Reserving 6 flexfield records (code 10001) ...
the flexfield file already has 14 record(s)

Pre-allocating each key file...
Adding 2 16384 byte pages to key file user.last...
Adding 2 16384 byte pages to key file user.name...
Adding 2 16384 byte pages to key file user.uniqueid...
Adding 2 16384 byte pages to key file user.username...
Adding 2 16384 byte pages to key file user.cuid...
Adding 2 16384 byte pages to key file user.cnlf...
Adding 2 16384 byte pages to key file user.lfn...
Adding 2 16384 byte pages to key file user.in...
Adding 2 16384 byte pages to key file user.vuname...
Adding 2 16384 byte pages to key file user.glfn...
Adding 2 16384 byte pages to key file user.UpdateTime...

----- gen preallocation complete Mon Aug 21 19:02:02 PDT 2006

Database Initialization Utility
Centura RDM 5.0.0 [24-Apr-2000] http://www.centurasoft.com/rdm
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genlite initialized

----- Preallocating pegs Mon Aug 21 19:02:02 PDT 2006

Reserving 1 pegs records (code 10000) ...
the pegs file already has 1536 record(s)

Pre-allocating each key file...

----- pegs preallocation complete Mon Aug 21 19:02:02 PDT 2006

----- Preallocating podata Mon Aug 21 19:02:02 PDT 2006
```

```

Reserving 1 pomailbox records (code 10000) ...
  the pomailbox file already has 32 record(s)

Reserving 20000 pmsgdata records (code 10001) ...

Pre-allocating each key file...
  Adding 2 16384 byte pages to key file pmsgdata.compundkey...

----- podata preallocation complete Mon Aug 21 19:02:02 PDT 2006

----- Preallocating res Mon Aug 21 19:02:02 PDT 2006

Reserving 1 crres records (code 10004) ...
  Adding 1 16384 byte page(s) to get 1 record(s) ...

Reserving 1 portres records (code 10005) ...
  Adding 1 16384 byte page(s) to get 1 record(s) ...

Reserving 200000 didres records (code 10001) ...
  Adding 513 16384 byte page(s) to get 200000 record(s) ...

Record 10000 (didconfigres): has no preallocation count

Record 10003 (schedparamsres): has no preallocation count

Reserving 13 crresfstaccess records (code 10006) ...
  the crresfstaccess file already has 13 record(s)

Reserving 13 portresfstaccess records (code 10007) ...
  the portresfstaccess file already has 13 record(s)

Reserving 13 vsresfstaccess records (code 10008) ...
  the vsresfstaccess file already has 15 record(s)

Reserving 200000 vsres records (code 10002) ...
  Adding 465 16384 byte page(s) to get 200000 record(s) ...

Pre-allocating each key file...
  Adding 635 16384 byte pages to key file didres.strtdid...
  Adding 343 16384 byte pages to key file didres.UpdateTime...
  Adding 3 16384 byte pages to key file crres.resourceid...
  Adding 3 16384 byte pages to key file portres.resourceid...
  Adding 343 16384 byte pages to key file vsres.resourceid...
  Adding 343 16384 byte pages to key file vsres.UpdateTime...

----- res preallocation complete Mon Aug 21 19:02:07 PDT 2006

Database Initialization Utility
Centura RDM 5.0.0 [24-Apr-2000] http://www.centurasoft.com/rdm
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reslite initialized

----- Preallocating status Mon Aug 21 19:02:07 PDT 2006

Reserving 200 alarmentry records (code 10000) ...
  the alarmentry file already has 200 record(s)

Reserving 16384 exlogentry records (code 10001) ...
  the exlogentry file already has 16384 record(s)

Reserving 1 hwstatus records (code 10002) ...
  the hwstatus file already has 1 16384 byte pages that can hold 2047 record(s)

```

```
Reserving 1 swstatus records (code 10003) ...
  the swstatus file already has 1 record(s)

Reserving 1500 exlogformat records (code 10004) ...
  the exlogformat file already has 3374 record(s)

Reserving 20 apps records (code 10005) ...
  the apps file already has 21 record(s)

Reserving 10000 outdial records (code 10006) ...
  the outdial file already has 10000 record(s)

Reserving 10000 notification records (code 10007) ...
  the notification file already has 10000 record(s)

Record 10008 (schedfail): has no preallocation count

Record 10009 (gwstatus): has no preallocation count

Pre-allocating each key file...

----- status preallocation complete Mon Aug 21 19:02:08 PDT 2006

----- Preallocating tcnfg Mon Aug 21 19:02:08 PDT 2006

Reserving 100 analogcard records (code 10000) ...
  the analogcard file already has 1 16384 byte pages that can hold 431 record(s)

Reserving 1 masterswcard records (code 10001) ...
  the masterswcard file already has 108 record(s)

Reserving 100 portrescard records (code 10002) ...
  the portrescard file already has 108 record(s)

Reserving 100 tlcard records (code 10003) ...
  the tlcard file already has 108 record(s)

Reserving 10 tlspan records (code 10004) ...
  the tlspan file already has 432 record(s)

Reserving 1000 trunk records (code 10005) ...
  the trunk file already has 10800 record(s)

Reserving 100 trunkgroup records (code 10006) ...
  the trunkgroup file already has 1 16384 byte pages that can hold 110 record(s)

Reserving 100 elcard records (code 10007) ...
  the elcard file already has 1 16384 byte pages that can hold 163 record(s)

Reserving 10 elspan records (code 10008) ...
  the elspan file already has 36 record(s)

Record 10009 (accard): has no preallocation count

Record 10010 (acspan): has no preallocation count

Record 10012 (iprescard): has no preallocation count

Record 10013 (blade): has no preallocation count

Record 10014 (prottable): has no preallocation count

Record 10011 (ipglobalcfg): has no preallocation count
```

```

Pre-allocating each key file...
  Adding 3 16384 byte pages to key file analogcard.unitid...
  Adding 3 16384 byte pages to key file masterswcard.unitid...
  Adding 3 16384 byte pages to key file portrescard.unitid...
  Adding 3 16384 byte pages to key file t1card.unitid...
  Adding 3 16384 byte pages to key file t1span.unitid...
  Adding 3 16384 byte pages to key file trunkgroup.id...
  Adding 3 16384 byte pages to key file elcard.unitid...
  Adding 3 16384 byte pages to key file elspan.unitid...

----- tcnfg preallocation complete Mon Aug 21 19:02:08 PDT 2006

----- Preallocating userlist Mon Aug 21 19:02:08 PDT 2006

Reserving 100000 userlist records (code 10000) ...
  the userlist file already has 2041 16384 byte pages that can hold 100009 record(s)

Reserving 500000 userlistmem records (code 10001) ...
  the userlistmem file already has 611 16384 byte pages that can hold 500409 record(s)

Pre-allocating each key file...
  Adding 2 16384 byte pages to key file userlist.uniqueid...
  Adding 2 16384 byte pages to key file userlist.vuiid...
  Adding 2 16384 byte pages to key file userlist.name...
  Adding 2 16384 byte pages to key file userlist.unta...
  Adding 2 16384 byte pages to key file userlist.UpdateTime...
  Adding 2 16384 byte pages to key file userlist.oulid...
  Adding 2 16384 byte pages to key file userlistmem.uluid...
  Adding 2 16384 byte pages to key file userlistmem.UpdateTime...

----- userlist preallocation complete Mon Aug 21 19:02:08 PDT 2006
cmdbrev: dbprealloc done

cmdbrev: starting delrecinit
There are supposed to be 1,000,000 records in the deleted record database
Counting the number of records in the database...
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000
22000
24000
26000
28000
30000
32000
34000
36000
38000
40000
42000
44000
46000
48000
50000
52000
54000

```

56000  
58000  
60000  
62000  
64000  
66000  
68000  
70000  
72000  
74000  
76000  
78000  
80000  
82000  
84000  
86000  
88000  
90000  
92000  
94000  
96000  
98000  
100000  
102000  
104000  
106000  
108000  
110000  
112000  
114000  
116000  
118000  
120000  
122000  
124000  
126000  
128000  
130000  
132000  
134000  
136000  
138000  
140000  
142000  
144000  
146000  
148000  
150000  
152000  
154000  
156000  
158000  
160000  
162000  
164000  
166000  
168000  
170000  
172000  
174000  
176000  
178000  
180000  
182000

## ■ Viewing the Onsite Upgrade for a Sample Session Without a Disk Backup

184000  
186000  
188000  
190000  
192000  
194000  
196000  
198000  
200000  
202000  
204000  
206000  
208000  
210000  
212000  
214000  
216000  
218000  
220000  
222000  
224000  
226000  
228000  
230000  
232000  
234000  
236000  
238000  
240000  
242000  
244000  
246000  
248000  
250000  
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254000  
256000  
258000  
260000  
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264000  
266000  
268000  
270000  
272000  
274000  
276000  
278000  
280000  
282000  
284000  
286000  
288000  
290000  
292000  
294000  
296000  
298000  
300000  
302000  
304000  
306000  
308000  
310000



312000  
 314000  
 316000  
 318000  
 320000  
 322000  
 324000  
 326000  
 328000  
 330000  
 332000  
 334000  
 336000  
 338000  
 340000  
 342000  
 344000  
 346000  
 348000  
 350000  
 352000  
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 356000  
 358000  
 360000  
 362000  
 364000  
 366000  
 368000  
 370000  
 372000  
 374000  
 376000  
 378000  
 380000  
 382000  
 384000  
 386000  
 388000  
 390000  
 392000  
 394000  
 396000  
 398000  
 400000  
 402000  
 404000  
 406000  
 408000  
 410000  
 412000  
 414000  
 416000  
 418000  
 420000  
 422000  
 424000  
 426000  
 428000  
 430000  
 432000  
 434000  
 436000  
 438000

## ■ Viewing the Onsite Upgrade for a Sample Session Without a Disk Backup

440000  
442000  
444000  
446000  
448000  
450000  
452000  
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694000

## ■ Viewing the Onsite Upgrade for a Sample Session Without a Disk Backup

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698000  
700000  
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## ■ Viewing the Onsite Upgrade for a Sample Session Without a Disk Backup

```

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978000
980000
982000
984000
986000
988000
990000
992000
994000
996000
998000
1000000
1000001 records found
cmdbrev: delrecinit done

cmdbrev: ending Mon Aug 21 19:02:50 PDT 2006
Mon Aug 21 19:02:50 PDT 2006 Network setup:
Unit class = SINGLE/LOCAL
Updating error log format strings: Using database path: /lat/db/status
48 new entries and 3375 replacements
Prompt Upgrade>> Opening file </lat/fs.1/prompt_db_vfs_map_dir0> ....
Number Of Language(s) in the prompt map file: 1
Starting English (US)...

Prompt Upgrade>> EOF (0) reached in /lat/fs.1/prompt_db_vfs_map_dir0 file (promptNum
1551): 0

... Done with English (US)

Starting Update Company Info

Loading to Lang Index=0

The languages installed are:
  Language 1  dir0  English (US)

FINISHED: Prompt Database Upgrade is complete!

Statistics: 0 new entries and 319 replacements
Updating time zone names: Using database path: /lat/db/config
Updating option names ... .. Done
Setting prompt file configuration
Working on /lat/fs.1/ ..
The file system directories are already updated
Working on /lat/fs.2/ ..
The file system directories are already updated
Working on /lat/fs.3/ ..
The file system directories are already updated
Adjusting prompt file sizes

```

```
Running vfptrfix...
Initializing the file system...
Getting the disk configuration status...
Checking file system internal consistency... (may take a while) ...
Number of records in the prompt files has been updated, ret = a0084
Mon Aug 21 19:02:57 PDT 2006 NOTE: Disk backups disabled; run 'save' to re-enable.
Mon Aug 21 19:02:57 PDT 2006 Software update is complete.
Update is complete. Restarting...
```

```
**** LynxOS is down ****
LynxOS 386/486/Pentium PC-AT Version 3.1.0
Copyright 1987-1998 Lynx Real-Time Systems Inc.
All rights reserved.
```

```
LynxOS (x86) created Fri Aug 18 15:05:41 PDT 2006
```

```
MeetingPlace by Cisco Systems
```

```
Mon Aug 21 19:03:53 PDT 2006
Startup flags = a
```

```
(all sizes and block numbers in decimal)
(block size is 16384)
(file system is byte-swapped)
(file system creation time is Mon Aug 21 18:50:30 2006)
(file system contains 31999 blocks and 7936 inodes)
checking used files
checking for orphaned files
making bit map free block list
making free inode list
14586 free blocks 5963 free inodes
Filesystem Ok
SCSI adapter is NCR 8xx.
Unit class is standalone conference server (SINGLE).
Bus architecture is CompactPCI (M3).
Ethernet device is "pro0".
Initializing the modem on COM2.../lat/bin/initmodem ...
/lat/bin/initmodem: type is `MultiTech MT5634Z'
/lat/bin/initmodem: modem initialized
Installing Latitude drivers...
devinstall: acti.dat: Device doesn't exist
done.
Checking for out of date database files

Ready to load the MeetingPlace application software modules.
Hit ^C now to interrupt system activation...54321...activating
```

```
Loading the System Integrity Manager...OK
WARNING: Mount table does not match saved configuration
Automated disk backup disabled; run "save" to reenale
Loading the Command Shell...OK
Loading the Network Management Server...OK
Loading the Database Server...OK
Loading the Post Office Server...OK
Loading the Call Processing Module...OK
Loading the Conference Scheduler...OK
Loading the Workstation Server...OK
Loading the Voice User Interface ...OK
Loading the Gateway SIM Manager...OK
Release 5.4, Aug 21, 2006
user name: The MeetingPlace software is UP
```

## ■ Viewing the Onsite Upgrade for a Sample Session Without a Disk Backup





## INDEX

---

### A

- activity command [5-4](#)
- alarms, power supply unit fan [6-1](#)
- Australia
  - E1 digital trunk requirements [1-10](#)
  - LAN cable requirements [1-13](#)
  - T1 digital trunk requirements [1-7](#)

---

### B

- breakout boxes
  - mounting for T1PRI or E1 system [2-7](#)
  - using two at one time [2-7](#)

---

### C

- cables
  - crossover for RJ-48 connectors, requirement [1-4](#)
  - custom, requirements for E1 and T1 PRI [1-10](#)
  - DB9 serial, requirement [1-4](#)
  - E1 or T1 PRI, connecting
    - with one MP-MA-16-PRI [2-19](#)
    - with one MP-MA-16-PRI and one MP-MA-4-PRI [2-25](#)
    - with one MP-MA-4-PRI [2-23](#)
    - with two MP-MA-16-PRIs [2-26](#)
    - with two MP-MA-4-PRIs [2-24](#)
  - E1 telephony, shipped [2-2](#)
  - IP LAN, shipped [2-2](#)
  - IP telephony, connecting [2-28](#)
  - LAN, connecting to Cisco Unified MeetingPlace 8100 series [2-11](#)
  - LAN requirements [1-13](#)

- modem, connecting [2-36](#)
- power, connecting to Cisco Unified MeetingPlace 8100 series [2-11](#)
- SCSI, connecting to Cisco Unified MeetingPlace 8112 [2-11](#)
- T1 CAS, connecting for Cisco Unified MeetingPlace 8112 [2-13](#)
- T1 CAS telephony, shipped [2-2](#)
- T1 digital trunk requirements [1-6](#)
- T1 PRI telephony, shipped [2-2](#)
- telephony, connecting for E1/IP or T1 PRI/IP system [2-32](#)
- telephony, connecting for T1 CAS/IP system [2-35](#)

### Canada

- LAN cable requirements [1-13](#)
- modem requirements [1-11](#)
- power requirements [1-6](#)
- T1 digital trunk requirements [1-7](#)
- wiring requirements for customer-supplied RJ-48 connectors [1-9](#)

### Cisco Unified MeetingPlace 8100 series

- connecting LAN cable [2-11](#)
- connecting power cable [2-11](#)
- mounting, about [2-3](#)
- power requirements [1-5](#)

### Cisco Unified MeetingPlace 8106

- environmental requirements [1-4](#)
- mounting in 19-inch EIA equipment rack [2-5](#)
- mounting in 19-inch frame-relay rack [2-3](#)

### Cisco Unified MeetingPlace 8112

- connecting SCSI cable [2-11](#)
- connecting T1 CAS telephony cables [2-13](#)
- environmental requirements [1-5](#)
- mounting in 19- or 23-inch EIA equipment rack [2-6](#)
- mounting in 19- or 23-inch frame-relay rack [2-4](#)

## commands

- activity [5-4](#)
- configdiskcap [6-3](#)
- down [4-2](#)
- hwconfig [6-2](#)
- net [7-1](#)
- ping [5-7, 7-1](#)
- restart [7-2](#)
- restart disable [4-2](#)
- restart enable [4-3](#)
- spanstat [5-3](#)
- update [4-2](#)
- update status [4-3](#)
- update trace [4-3](#)

COM port, laptop parameters [3-2](#)

## conferencing

- testing in nonrecorded meetings with ad hoc recording [5-6](#)
- testing in recorded meetings [5-6](#)

configdiskcap command [6-3](#)

## configuring

- HyperTerminal [3-3](#)
- laptop [3-2](#)

## connecting

E1 or T1 PRI telephony cables

- with one MP-MA-16-PRI [2-19](#)
- with one MP-MA-16-PRI and one MP-MA-4-PRI [2-25](#)
- with one MP-MA-4-PRI [2-23](#)
- with two MP-MA-16-PRIs [2-26](#)
- with two MP-MA-4-PRIs [2-24](#)

IP telephony cables [2-28](#)

LAN cable to Cisco Unified MeetingPlace 8100 series [2-11](#)

laptop to Cisco Unified MeetingPlace [3-1](#)

modem [2-36](#)

power cable to Cisco Unified MeetingPlace 8100 series [2-11](#)

SCSI cable to Cisco Unified MeetingPlace 8112 [2-11](#)

T1 CAS telephony cables for Cisco Unified MeetingPlace 8112 [2-13](#)

telephony cables for E1/IP or T1 PRI/IP system [2-32](#)

telephony cables for T1 CAS/IP system [2-35](#)

contents of shipped boxes [2-1](#)

crossover cable for RJ-48 connectors, requirement [1-4](#)

custom cables, requirements for E1 and T1 PRI [1-10](#)

---

## D

DB9 serial cable, requirement [1-4](#)

dial-up networking, setting up [3-4](#)

disk capacity, monitoring [6-3](#)

down command [4-2](#)

---

## E

### E1

about telephony configurations for [2-15](#)

connecting telephony cables

- with one MP-MA-16-PRI [2-19](#)
- with one MP-MA-16-PRI and one MP-MA-4-PRI [2-25](#)
- with one MP-MA-4-PRI [2-23](#)
- with two MP-MA-16-PRIs [2-26](#)
- with two MP-MA-4-PRIs [2-24](#)

mixed with IP configuration, about [2-30](#)

mounting breakout box [2-7](#)

testing

- inbound calls by using circular hunting [5-3](#)
- inbound calls by using dialing sequence [5-4](#)
- outbound calls [5-4](#)

with IP, connecting cables [2-32](#)

### E1 digital trunks

connection requirements [1-10](#)

requirements [1-10](#)

supported protocols [1-10](#)

enabling server disk capacity monitoring [6-3](#)

environmental requirements

Cisco Unified MeetingPlace 8106 [1-4](#)

Cisco Unified MeetingPlace 8112 [1-5](#)

## European Union

E1 digital trunk requirements [1-10](#)

modem requirements [1-12](#)

power requirements [1-6](#)

## F

FCC registration [1-7](#)

filter, replacing in power supply unit fan [6-1](#)

## H

hardware requirements [1-3](#)

## Hong Kong

LAN cable requirements [1-13](#)

modem requirements [1-11](#)

power requirements [1-6](#)

T1 digital trunk requirements [1-7](#)

wiring requirements for customer-supplied RJ-48 connectors [1-9](#)

hwconfig command [6-2](#)

## HyperTerminal

logging session [3-3](#)

setting up [3-3](#)

## I

India, wiring requirements for customer-supplied RJ-45 connectors [1-9](#)

installation, about testing [5-2](#)

installing modem [2-36](#)

## IP

LAN cable requirements [1-13](#)

systems, about configurations for [2-27](#)

telephony cables, connecting [2-28](#)

## J

## Japan

LAN cable requirements [1-13](#)

modem requirements [1-12](#)

power requirements [1-6](#)

T1 digital trunk requirements [1-7](#)

## L

## LAN

cable requirements [1-13](#)

port requirements [1-12](#)

## laptop

configuring [3-2](#)

connecting to Cisco Unified MeetingPlace [3-1](#)

logging HyperTerminal session [3-3](#)

## M

## maintenance

enabling server disk capacity monitoring [6-3](#)

replacing filter in power supply unit fan [6-1](#)

mixed systems, about telephony configurations for [2-30](#)

## modem

installing and connecting [2-36](#)

requirements [1-11](#)

testing connection [3-4](#)

monitoring, enabling server disk capacity [6-3](#)

## mounting

breakout box for T1PRI or E1 system [2-7](#)

Cisco Unified MeetingPlace 8100 series, about [2-3](#)

Cisco Unified MeetingPlace 8106 in 19-inch EIA equipment rack [2-5](#)

Cisco Unified MeetingPlace 8106 in 19-inch frame-relay rack [2-3](#)

Cisco Unified MeetingPlace 8112 in 19- or 23-inch EIA equipment rack [2-6](#)

Cisco Unified MeetingPlace 8112 in 19- or 23-inch frame-relay rack [2-4](#)

## Multi Access Blades

- configurations for E1 and T1 PRI systems, about [2-15](#)
- connecting E1 or T1 PRI telephony cables
  - with one MP-MA-16-PRI [2-19](#)
  - with one MP-MA-16-PRI and one MP-MA-4-PRI [2-25](#)
  - with one MP-MA-4-PRI [2-23](#)
  - with two MP-MA-16-PRI [2-26](#)
  - with two MP-MA-4-PRI [2-24](#)

## N

- net command [7-1](#)
- network latency, testing [5-7](#)

## O

- onsite upgrade, viewing for sample session without disk backup (reference) [A-16](#)

## P

- ping command [5-7, 7-1](#)
- ports, LAN requirements [1-12](#)
- powering up Audio Server system [5-1](#)
- power requirements for Cisco Unified MeetingPlace 8100 series [1-5](#)
- power supply unit, replacing fan filter [6-1](#)
- protocols
  - supported for E1 digital trunks [1-10](#)
  - supported for T1 digital trunks [1-7](#)

## R

- racks
  - mounting
    - Cisco Unified MeetingPlace 8106 in 19-inch EIA equipment [2-5](#)
    - Cisco Unified MeetingPlace 8106 in 19-inch frame-relay [2-3](#)

Cisco Unified MeetingPlace 8112 in 19- or 23-inch EIA equipment [2-6](#)

Cisco Unified MeetingPlace 8112 in 19- or 23-inch frame-relay [2-4](#)

types supported [2-3](#)

### recordings

- testing conferencing in meetings [5-6](#)
- testing conferencing in nonrecorded meetings with ad hoc recording [5-6](#)

### remote upgrade

- session, viewing real-time status for (reference) [A-3](#)
- session, viewing status for (reference) [A-3](#)
- viewing for a sample session without disk backup (reference) [A-1](#)

replacing filter in power supply unit fan [6-1](#)

### requirements

- cable, LAN [1-13](#)
- digital connection for E1 [1-10](#)
- digital connection for T1 [1-8](#)
- E1 digital trunks [1-10](#)
- environmental, Cisco Unified MeetingPlace 8106 [1-4](#)
- environmental, Cisco Unified MeetingPlace 8112 [1-5](#)
- hardware [1-3](#)
- LAN, for ports [1-12](#)
- modem [1-11](#)
- power for Cisco Unified MeetingPlace 8100 series [1-5](#)
- T1 digital trunk [1-6](#)
- TCP/UDP [1-12](#)
- tools for installation [1-4](#)
- wiring, for customer-supplied RJ-45 connectors (U.K., Singapore, India) [1-9](#)
- wiring, for customer-supplied RJ-48 connectors (U.S., Canada, Hong Kong) [1-9](#)

restart command [7-2](#)

restart disable command [4-2](#)

restart enable command [4-3](#)

RJ-45 connectors, wiring requirements (U.K., Singapore, India) [1-9](#)

RJ-48 connectors, wiring requirements (U.S., Canada, Hong Kong) [1-9](#)

---

## S

- safety warnings [1-2](#)
- scheduling, testing [5-5](#)
- setting up
  - dial-up networking [3-4](#)
  - HyperTerminal [3-3](#)
- Singapore, wiring requirements for customer-supplied RJ-45 connectors [1-9](#)
- software, upgrading Audio Server [4-1](#)
- spanstat command [5-3](#)
- starting Audio Server system [5-1](#)
- system
  - powering up Audio Server [5-1](#)
  - troubleshooting connection to Audio Server [7-1](#)

---

## T

- T1 CAS
  - mixed with IP configuration, about [2-30](#)
  - testing
    - inbound calls by using circular hunting [5-3](#)
    - inbound calls by using dialing sequence [5-4](#)
    - outbound calls [5-4](#)
  - with IP, connecting cables [2-35](#)
- T1 digital trunks
  - connection requirements [1-8](#)
  - requirements [1-6](#)
  - supported protocols [1-7](#)
- T1 PRI
  - about telephony configurations for [2-15](#)
  - connecting telephony cables
    - with one MP-MA-16-PRI [2-19](#)
    - with one MP-MA-16-PRI and one MP-MA-4-PRI [2-25](#)
    - with one MP-MA-4-PRI [2-23](#)
    - with two MP-MA-16-PRIs [2-26](#)
    - with two MP-MA-4-PRIs [2-24](#)
  - mixed with IP configuration, about [2-30](#)
  - mounting breakout box [2-7](#)
  - testing
    - inbound calls by using circular hunting [5-3](#)
    - inbound calls by using dialing sequence [5-4](#)
    - outbound calls [5-4](#)
  - with IP, connecting cables [2-32](#)
- TCP port requirements [1-12](#)
- telephony configurations
  - for E1 and T1PRI systems, about [2-15](#)
  - for IP systems, about [2-27](#)
  - for mixed systems, about [2-30](#)
  - troubleshooting [7-2](#)
- telnet to Cisco Unified MeetingPlace system [3-3](#)
- terminal emulation software, configuring [3-2](#)
- testing
  - conferencing in nonrecorded meetings with ad hoc recording [5-6](#)
  - conferencing in recorded meetings [5-6](#)
  - inbound calls for T1 CAS, T1 PRI, E1 telephony by using circular hunting [5-3, 5-4](#)
  - installation or upgrade, about [5-2](#)
  - modem connection [3-4](#)
  - network latency [5-7](#)
  - outbound calls for T1 CAS, T1 PRI, E1 telephony [5-4](#)
  - scheduling [5-5](#)
  - troubleshooting telephony configuration [7-2](#)
  - Web Conferencing [5-6](#)
- threshold values, monitoring disk capacity [6-3](#)
- tools required for installation [1-4](#)
- troubleshooting
  - connection to Audio Server system [7-1](#)
  - telephony configuration [7-2](#)

---

## U

- U.K., wiring requirements for customer-supplied RJ-45 connectors [1-9](#)
- U.S.
  - LAN cable requirements [1-13](#)

- modem requirements [1-11](#)
- power requirements [1-6](#)
- T1 digital trunk requirements [1-7](#)
- wiring requirements for customer-supplied RJ-48 connectors [1-9](#)

UDP port requirements [1-12](#)

update command [4-2](#)

update status command [4-3](#)

update trace command [4-3](#)

upgrade

- onsite, viewing for sample session without disk backup (reference) [A-16](#)

- remote, viewing for a sample session without disk backup (reference) [A-1](#)

- session, viewing real-time status for remote (reference) [A-3](#)

- status, viewing for a remote upgrade session (reference) [A-3](#)

- testing, about [5-2](#)

upgrading Audio Server software [4-1](#)

---

## V

viewing

- onsite upgrade for sample session without disk backup (reference) [A-16](#)

- real-time status for remote upgrade session (reference) [A-3](#)

- remote upgrade for sample session without disk backup (reference) [A-1](#)

- upgrade status for remote upgrade session (reference) [A-3](#)

---

## W

warnings, safety [1-2](#)

Web Conferencing, testing [5-6](#)

wiring requirements

- for customer-supplied RJ-45 connectors (U.K., Singapore, India) [1-9](#)

- for customer-supplied RJ-48 connectors (U.S., Canada, Hong Kong) [1-9](#)