

[Cisco Unified MeetingPlace, Release 6.x](#) > [Cisco Unified MeetingPlace Audio Server](#) > [Installing the hardware](#) > [Installing the Cisco Unified MeetingPlace 8100 Series Hardware](#)

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:

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### 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](#)
- [Connecting the Telephony Cables for a T1 CAS/IP Cisco Unified MeetingPlace System](#)

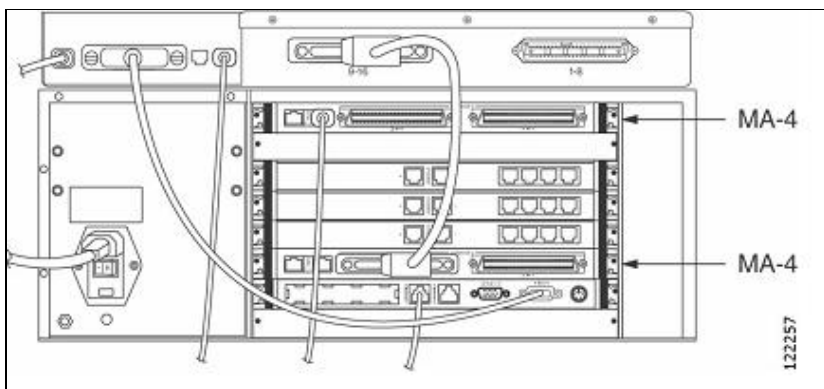
## **Connecting the Telephony Cables for an E1/IP or T1 PRI/IP Cisco Unified MeetingPlace System**

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

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).
2. Attach the far end of the first IP LAN cable to the RJ-45 socket of the switch or other network equipment.
3. Plug the other end of the first IP LAN cable into the Ethernet 1 connector on the Multi Access Blade.
4. If you use two Multi Access Blades for the IP configuration, repeat [Step 2](#) and [Step 3](#).
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](#) (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](#) (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](#) (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](#) (for the Cisco Unified MeetingPlace 8112 only)
  - ◆ [Connecting E1 or T1 PRI Telephony Cables with Two Multi Access Blade MP-MA-16-PRIs](#) (for the Cisco Unified MeetingPlace 8112 only)

The following figure 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: Back of Cisco Unified MeetingPlace 8106 (Mixed Configuration)**



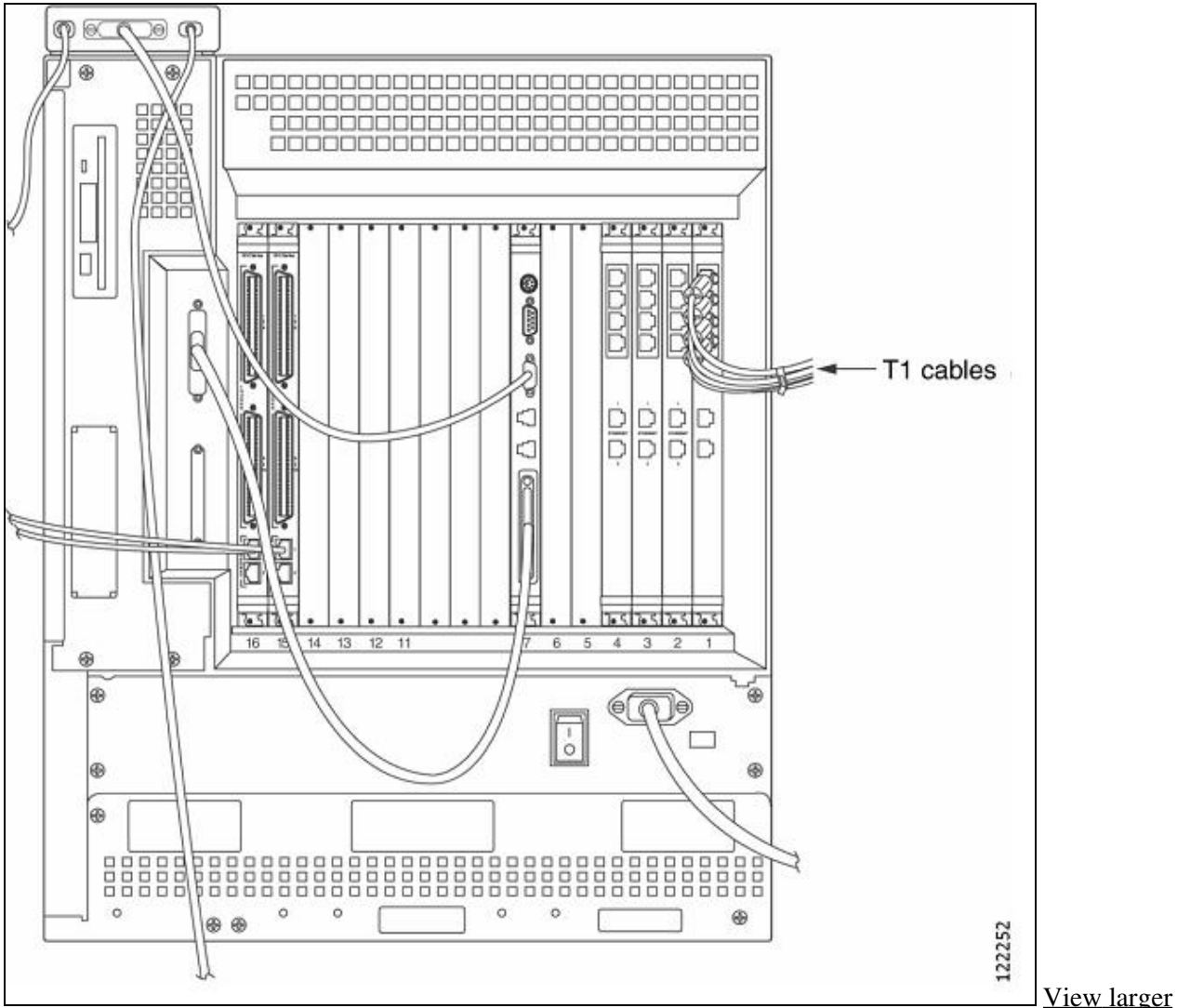
[View larger image](#)

The following figure 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: Back of Cisco Unified MeetingPlace 8112 (Mixed Configuration with 96 T1 CAS and 240 IP Ports)**



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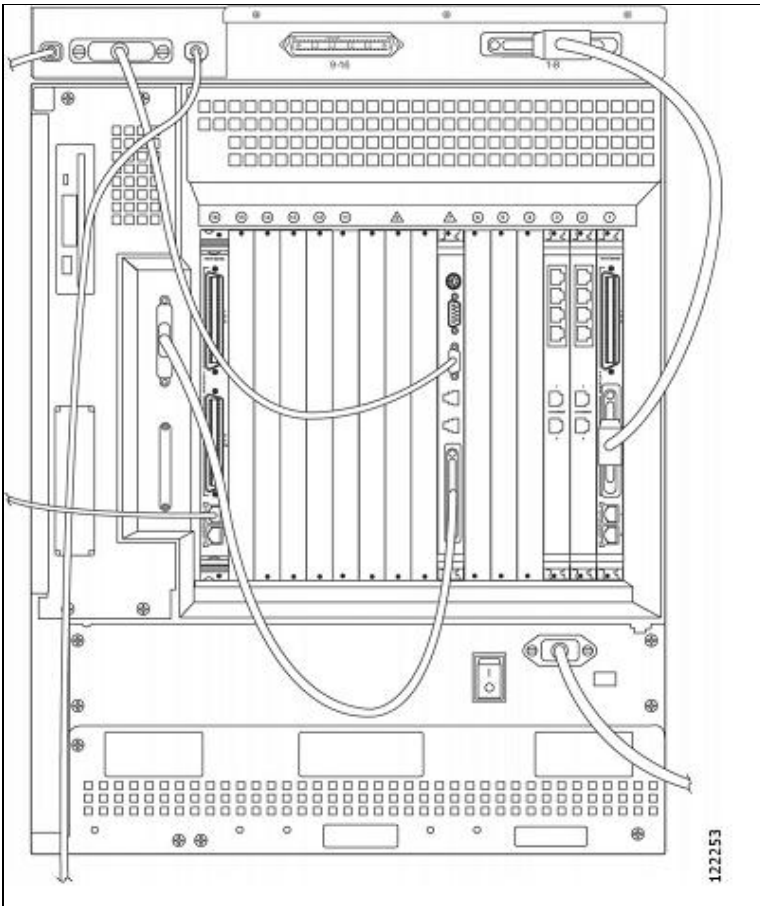
The following figure shows the connections on the back of a Cisco Unified MeetingPlace 8112 with a mixed Cisco Unified MeetingPlace system with 23 T1 PRI ports and 120 IP ports.

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: Back of Cisco Unified MeetingPlace 8112 (Mixed Configuration with 23 T1 PRI and 120 IP Ports)**

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



[View larger image](#)

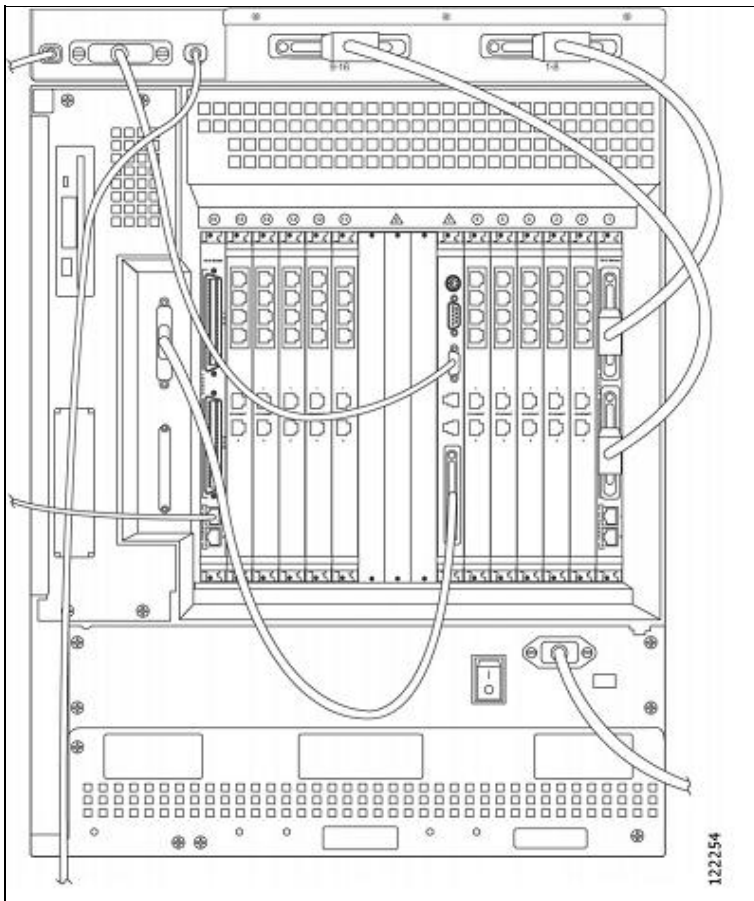
The following figure shows the connections on the back of a Cisco Unified MeetingPlace 8112 with a mixed Cisco Unified MeetingPlace system with 480 E1 ports and 480 IP ports.

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: Back of Cisco Unified MeetingPlace 8112 (Mixed Configuration with 480 E1 and 480 IP Ports)**

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



[View larger image](#)

## 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

1. Locate the following items that shipped with the Cisco Unified MeetingPlace Audio Server:
  - ◆ IP LAN cables.
  - ◆ T1 CAS telephony cables.
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.
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.

Figure: Back of Cisco Unified MeetingPlace 8112 (Mixed Configuration with 480 E1 and 480 IP Ports)

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.

4. Repeat Step 2 and Step 3 until all the T1 CAS telephony cables are connected.
5. Install tie wraps and label the T1 CAS telephony cables as needed.
6. Attach the far end of the IP LAN cable to the RJ-45 socket of the switch or other network equipment.
7. Plug the other end of the IP LAN cable into the Ethernet 1 connector on the Multi Access Blade transition module.
8. If your configuration uses two Multi Access Blades, repeat Step 6 and Step 7.