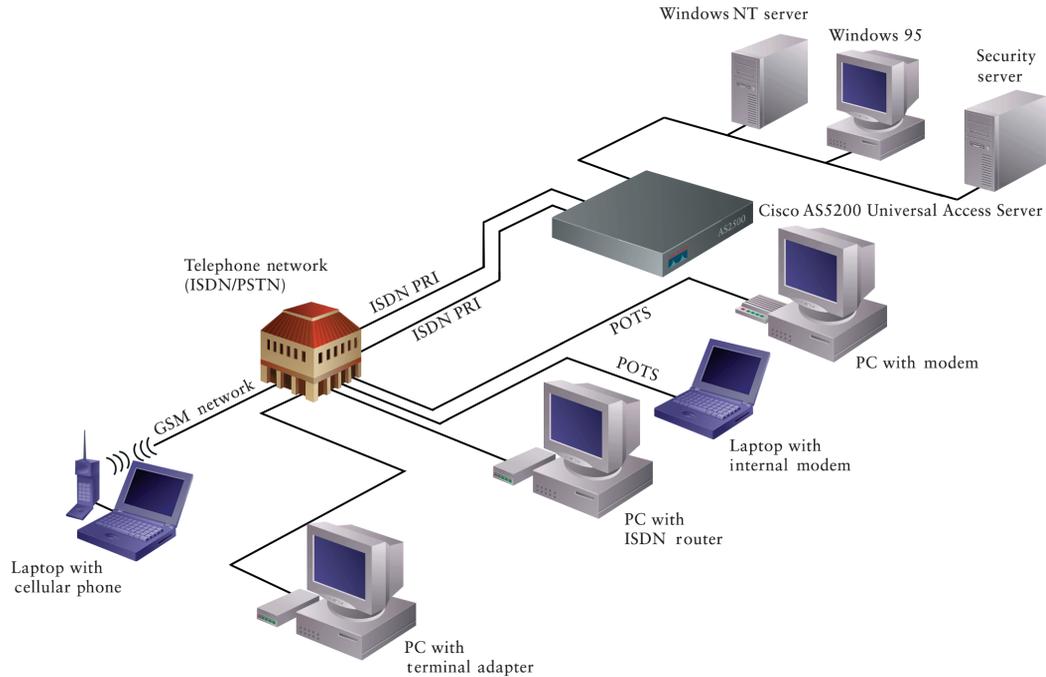


# Quick Start Guide

## CISCO AS5200 UNIVERSAL ACCESS SERVER

### INSTALL AND CONFIGURE



1

TOOLS AND EQUIPMENT

2

INSTALL THE UNIVERSAL ACCESS SERVER

3

CONFIGURE THE UNIVERSAL ACCESS SERVER



# 1 Tools and Equipment

## Items Included

- Cisco AS5200 universal access server
- 19- and 24-inch rack-mount brackets
- Rubber feet for desktop installation
- Jackscrews and slide-latch connector kit for your optional Ethernet transceiver (transceiver not included)
- RJ-45-to-DB-9 female DTE adapter (labeled TERMINAL)
- RJ-45-to-DB-25 female DTE adapter (labeled TERMINAL)
- RJ-45-to-DB-25 male DCE adapter (labeled MODEM)
- RJ-45-to-RJ-45 rollover console cable
- ESD-preventive wrist strap
- Two nylon cable ties
- Two cable tie holders
- Grounding lug
- Power cord
- *Quick Start Guide* (this document)
- *Cisco AS5200 Universal Access Server Hardware Installation Guide*
- *Cisco AS5200 Universal Access Server Software Configuration Guide*
- Regulatory Compliance and Safety Information document
- Release Notes for the specific Cisco IOS release installed on the access server
- Documentation CD-ROM

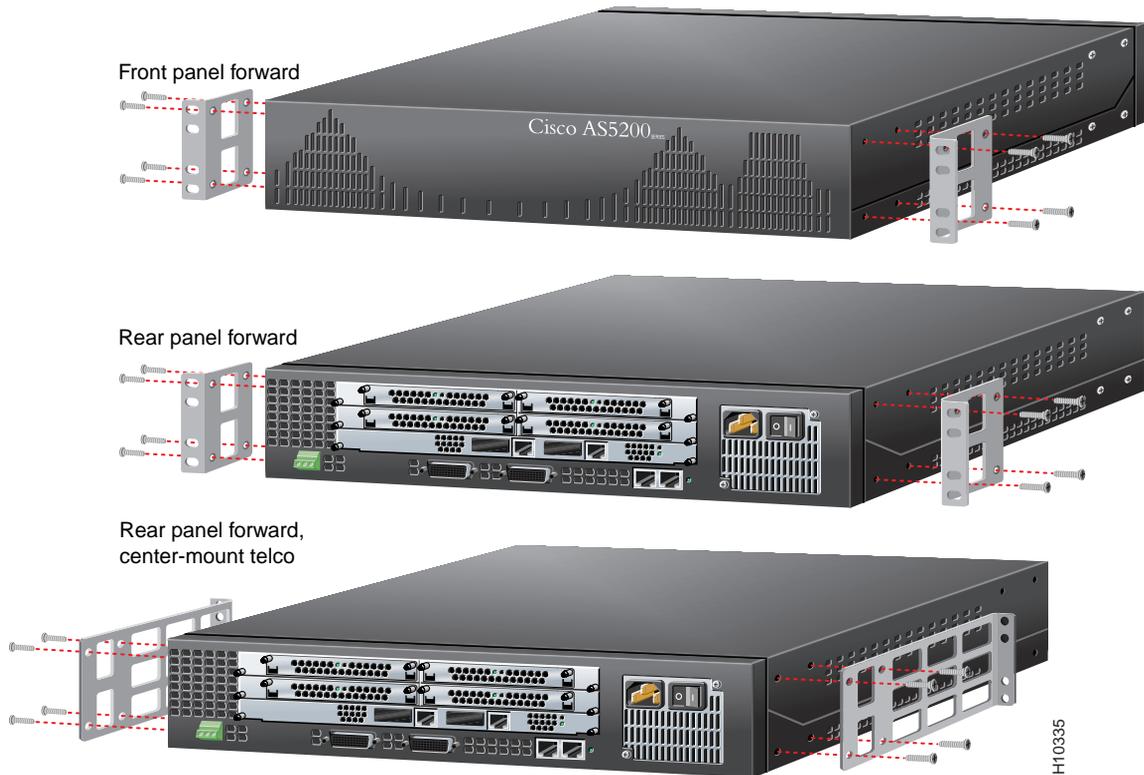
## Items Not Included

- Four screws for installing the chassis in a rack
- T1 channel service unit/data service unit (CSU/DSU) or E1 networks terminating unit
- PC running terminal emulation software for administrative access
- Modem for remote administrative access
- Ethernet transceiver and a straight-through RJ-45-to-RJ-45 cable (for connection from the Ethernet transceiver to an Ethernet hub) OR Ethernet AUI cable
- Straight-through RJ-48C-to-RJ-48C cable for a T1 connection
- Serial transition cable
- E1 cable for an E1 connection
- Slot cover for unused slots
- 19-inch telco rack-mount brackets (P/N 700-01928-01)

## Ordering Information

To place an order, contact Cisco Customer Service at 408 526-4000 or 800 553-6387.

## 2 Install the Universal Access Server



### Prepare the Chassis for Rack-Mounting

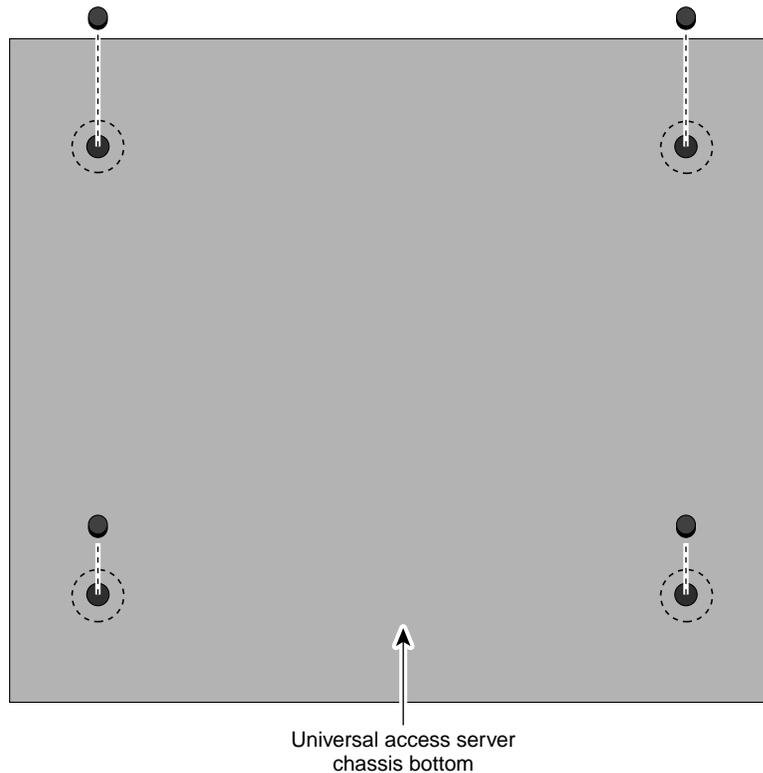
You can install the chassis in a rack or on a desktop. For a desktop installation, proceed to the next section, “Prepare the Chassis for Desktop Use.”

*Note: Brackets are included. Screws are included for attaching the brackets to the chassis, but not for installing the chassis in a rack. You will need four additional screws to install the chassis in a rack.*

**Step 1** Attach the brackets using one of the three methods shown above.

**Step 2** Install the chassis in a rack.

## 2 Install the Universal Access Server (continued)



### Prepare the Chassis for Desktop Use

Attach the rubber feet before installing the chassis on a desktop.

*Note: Rubber feet are included.*

- Step 1** Locate the rubber feet on the black adhesive strip that shipped with the chassis.
- Step 2** Place the access server upside-down on a flat, smooth surface.

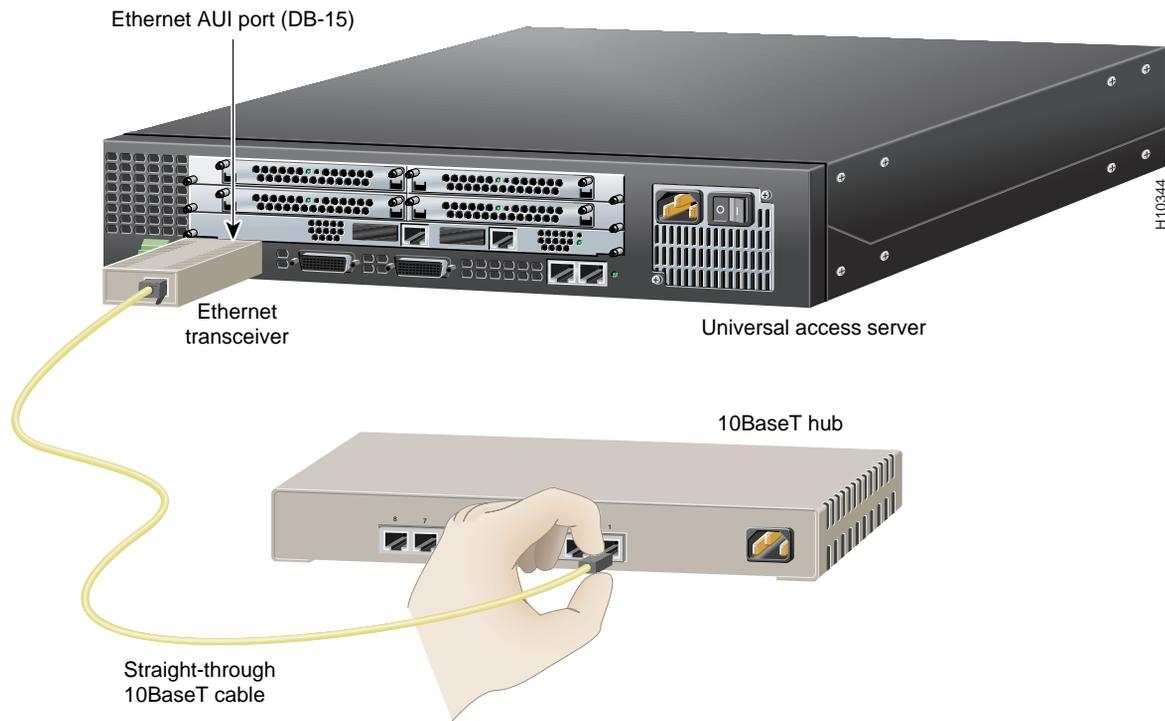
- Step 3** Peel off the rubber feet from the black adhesive strip and place them adhesive-side down on the dotted circles at each corner of the chassis bottom.

- Step 4** Place the access server right-side up on a flat, smooth, secure surface.



**Caution** Do not place anything that weighs more than 10 lb (4.5 kg) on top of the access server. Excessive weight placed on top of the chassis could damage it.

## 2 Install the Universal Access Server (continued)



### Connect the Ethernet Port for 10BaseT Ethernet LAN Access

You can connect the access server to a 10BaseT or thick Ethernet network. For a thick Ethernet connection, proceed to the next section, “Connect the Ethernet Port for Thick Ethernet LAN Access.”

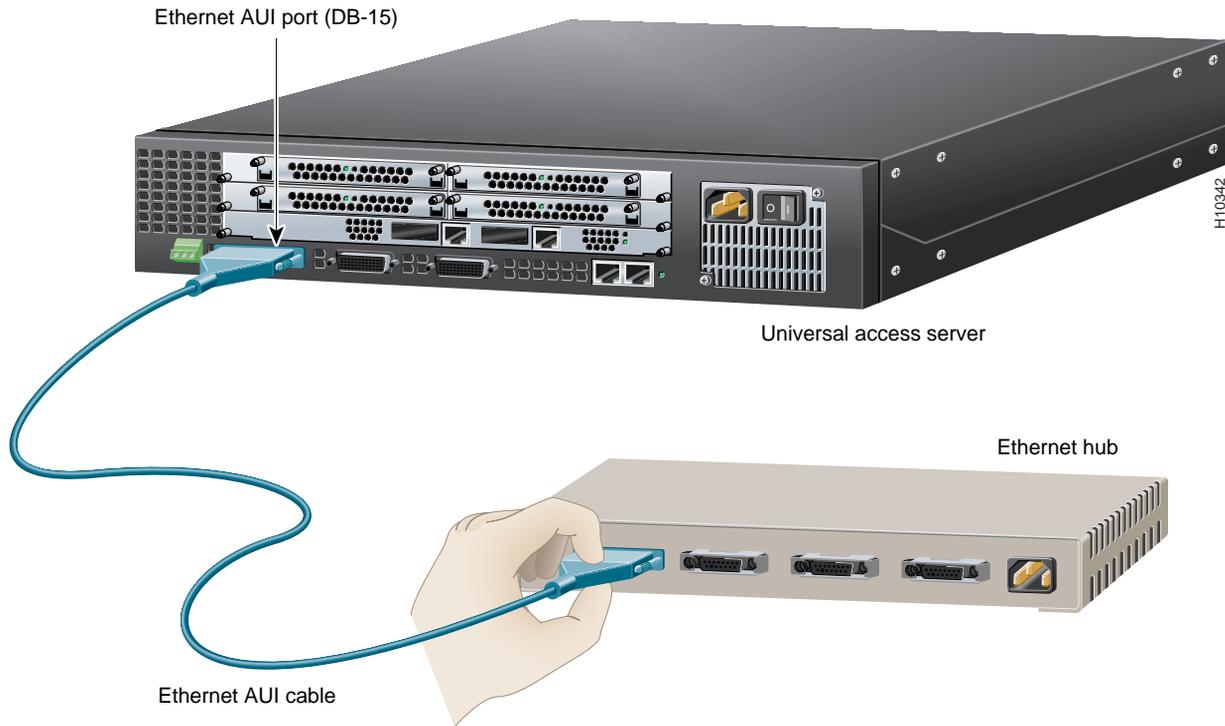
You will need an Ethernet transceiver and cable to connect the access server to a 10BaseT hub.

*Note:* The cable, transceiver, and hub are not included.

- Step 1** Connect an Ethernet transceiver to the port labeled AUI on the rear panel of the access server.
- Step 2** Connect an Ethernet cable to the Ethernet transceiver.
- Step 3** Connect the other end of the Ethernet cable to a 10BaseT hub.

*Note:* The Ethernet ports on the access server and the hub must have the same baseband.

## 2 Install the Universal Access Server (continued)



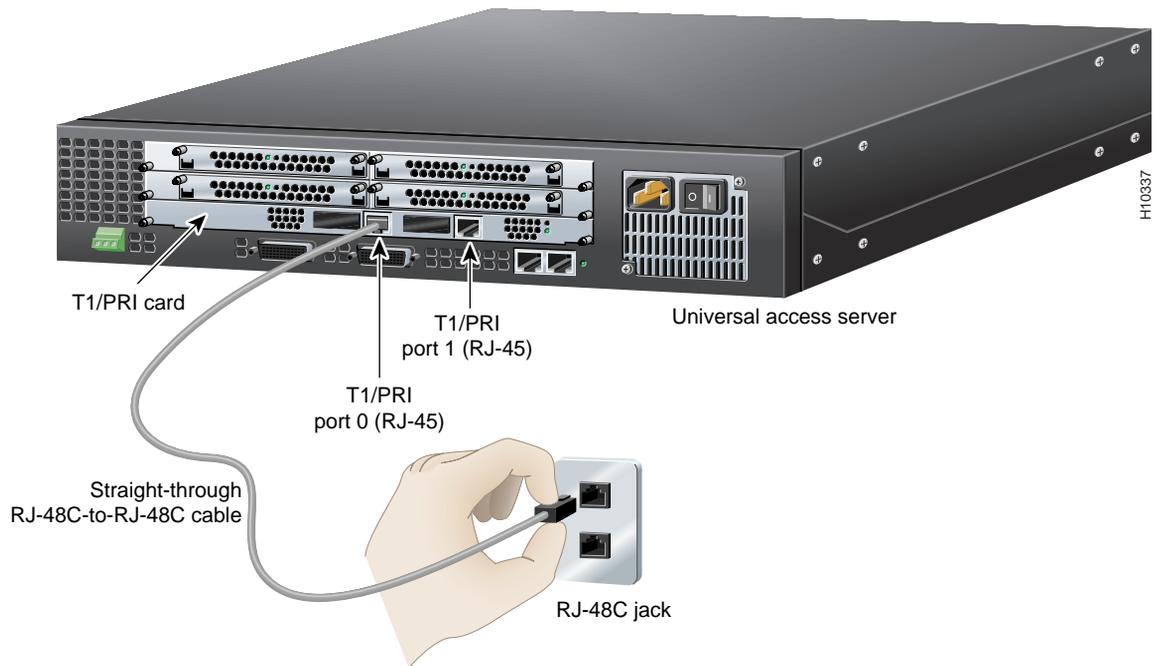
### Connect the Ethernet Port for Thick Ethernet LAN Access

You will need an Ethernet AUI cable to connect the access server to a hub.

*Note: The cable and hub are not included.*

- Step 1** Connect your Ethernet AUI cable to the port labeled AUI on the rear panel of the access server.
- Step 2** Connect the other end of the Ethernet cable to an Ethernet hub.

## 2 Install the Universal Access Server (continued)



### Connect the Dual T1/PRI Card for WAN Access

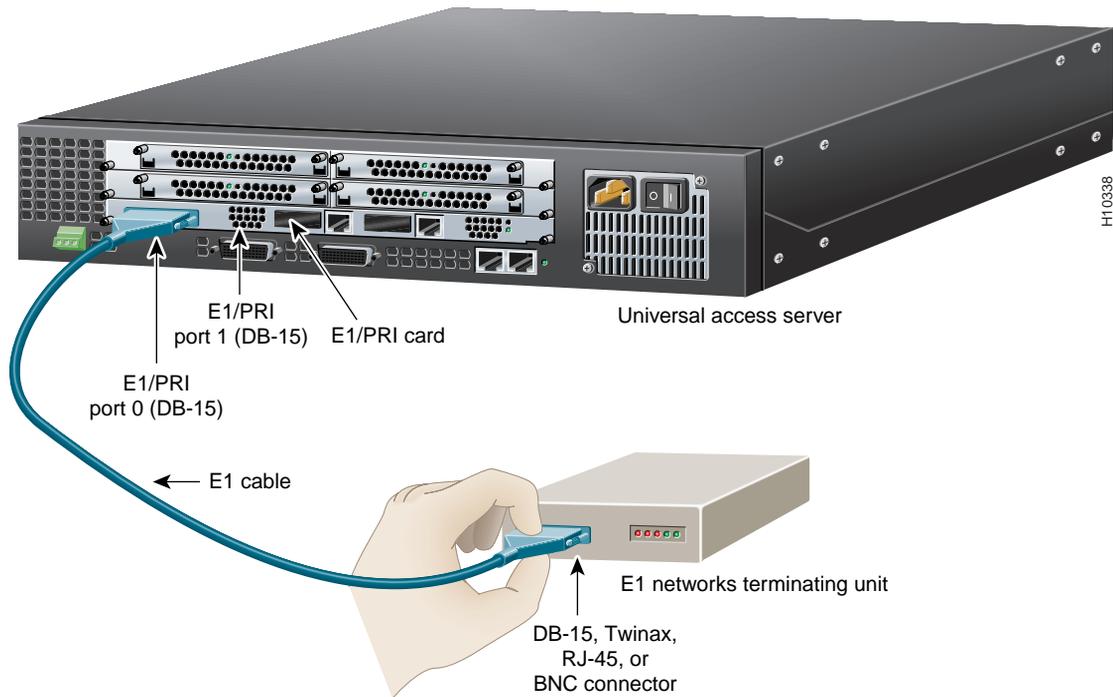
You can connect the access server to a dual T1 or E1/PRI card for WAN access. If you have a dual E1/PRI card, go to the next section, “Connect the Dual E1/PRI Card for WAN Access.”

You will need two straight-through RJ-48C-to-RJ-48C cables to connect the dual T1/PRI card to a WAN.

*Note: RJ-48C-to-RJ-48C cables are not included.*

- Step 1** Connect one end of the straight-through RJ-48C-to-RJ-48C cable to the port labeled Port 0 on the rear panel of the access server.
- Step 2** Connect the other end of the cable to an RJ-48C jack.
- Step 3** Repeats steps 1 and 2 to connect a second cable to the port labeled Port 1.

## 2 Install the Universal Access Server (continued)



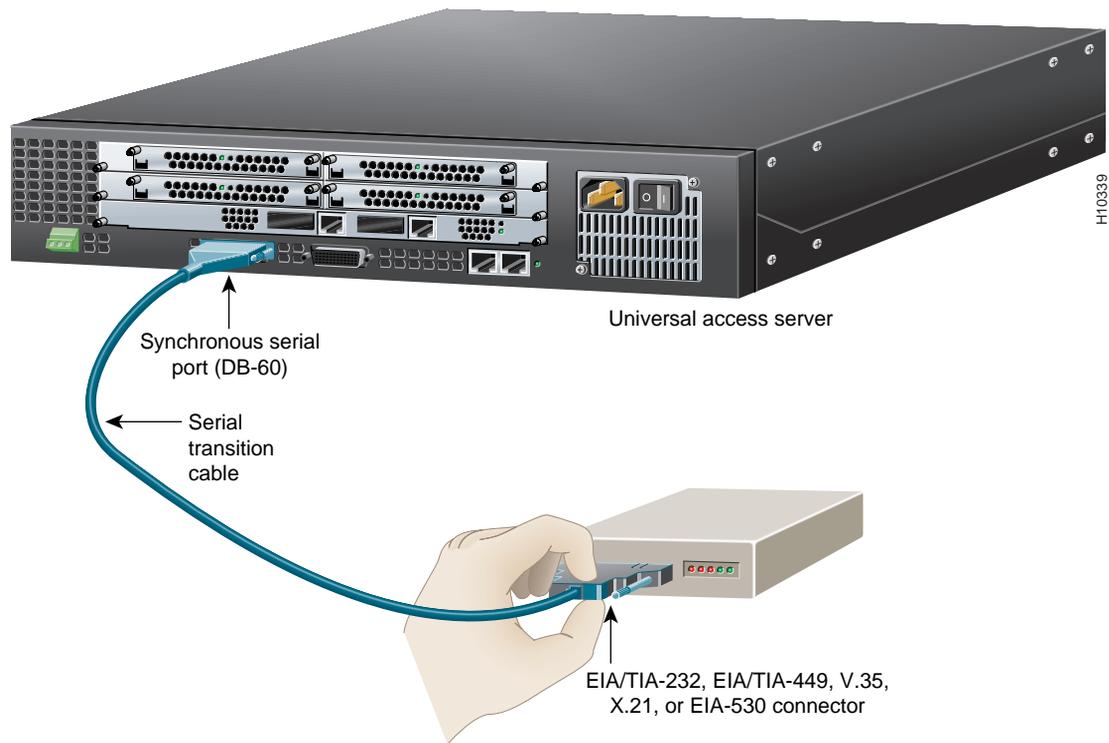
### Connect the Dual E1/PRI Card for WAN Access

You will need two E1 cables to connect the dual E1/PRI card to a WAN.

*Note: E1 cables and E1 networks terminating units are not included.*

- Step 1** Connect one end of the E1 cable to the port labeled Port 0 on the rear panel of the access server.
- Step 2** Connect the other end of the cable to an E1 networks terminating unit.
- Step 3** Repeats steps 1 and 2 to connect a second cable to the port labeled Port 1.

## 2 Install the Universal Access Server (continued)



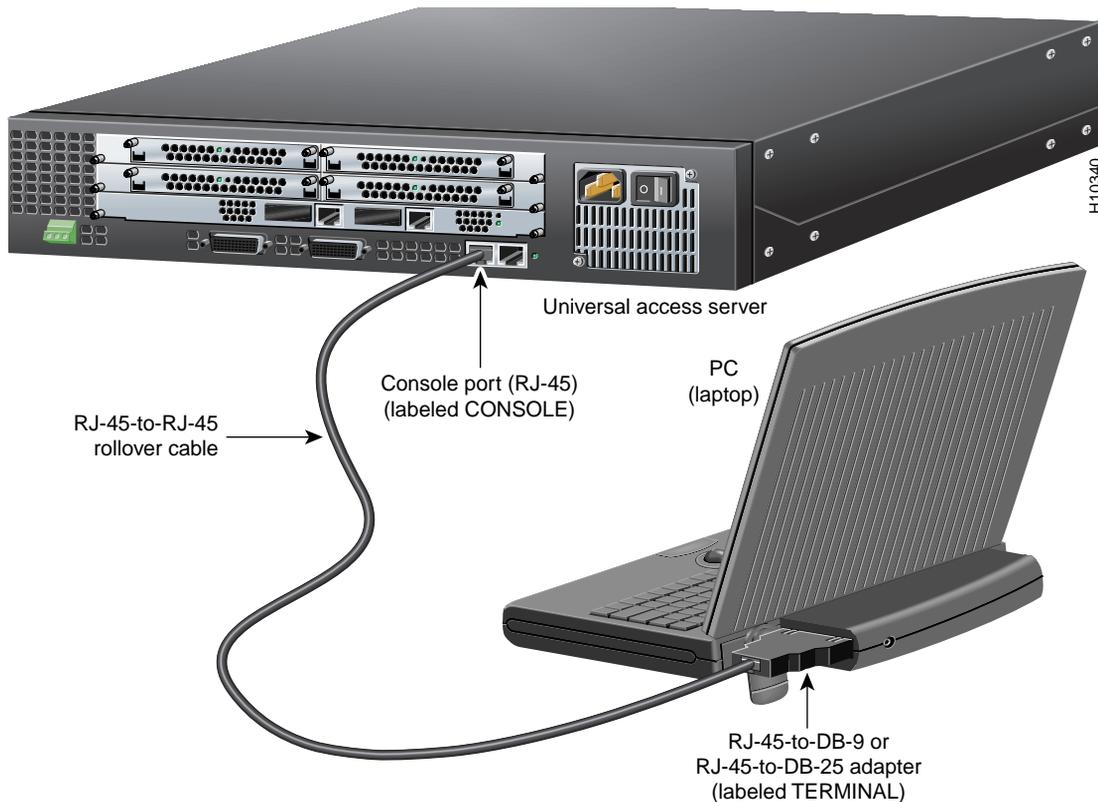
### Connect the Synchronous Serial Port for WAN Access

You will need two CSU/DSUs or modems and two serial transition cables to connect the synchronous serial ports to a WAN.

*Note: CSU/DSUs and serial transition cables are not included.*

- Step 1** Connect one end of a serial transition cable to the port labeled Serial.
- Step 2** Connect the other end of the cable to a CSU/DSU or other DCE (such as a modem).

## 2 Install the Universal Access Server (continued)



### Connect to a Console for Local Administrative Access

You will need an RJ-45-to-RJ-45 rollover cable and a terminal adapter (RJ-45-to-DB-9 or RJ-45-to-DB-25) to connect a console. These cables and adapters are included. Take these steps:

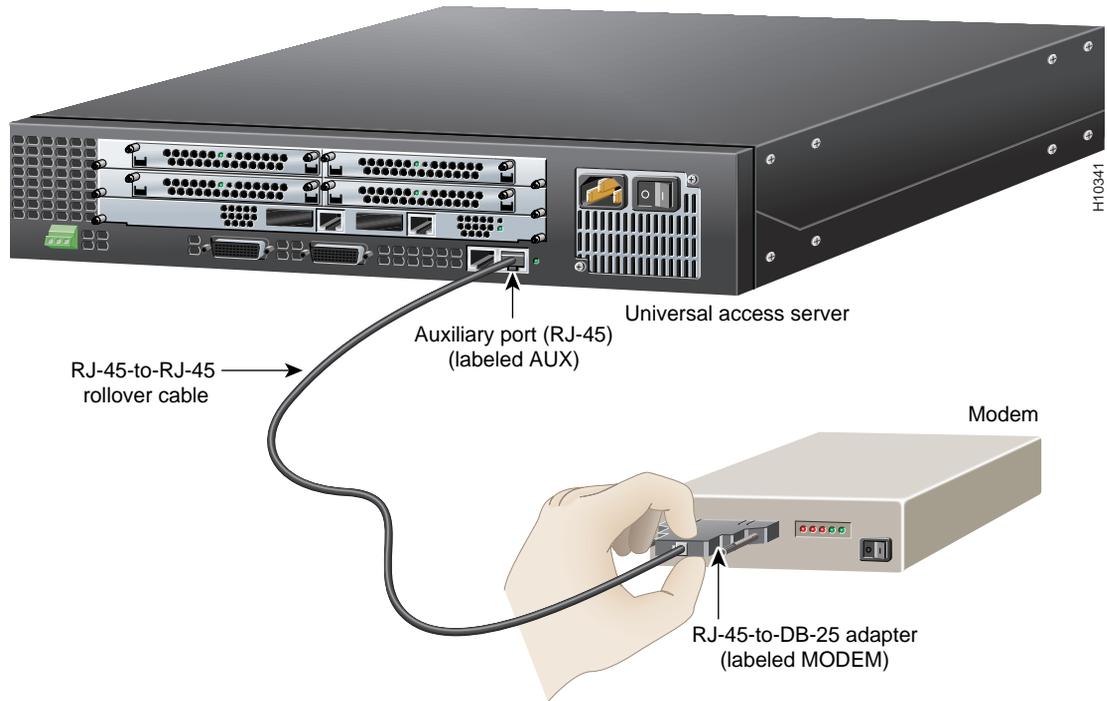
**Step 1** Connect one of the adapters, labeled **TERMINAL**, to the communications port (usually labeled COM) on your PC or terminal. (This communications port is also known as a console.)

**Step 2** Connect one end of the RJ-45-to-RJ-45 rollover cable to the adapter.

**Step 3** Connect the other end of the RJ-45-to-RJ-45 rollover cable to the port labeled **CONSOLE** on the rear panel of the access server.

**Step 4** Configure your PC terminal emulation software or terminal for 9600 baud, 8 data bits, no parity, and 1 stop bit.

## 2 Install the Universal Access Server (continued)



### Connect a Modem for Remote Administrative Access (Optional)

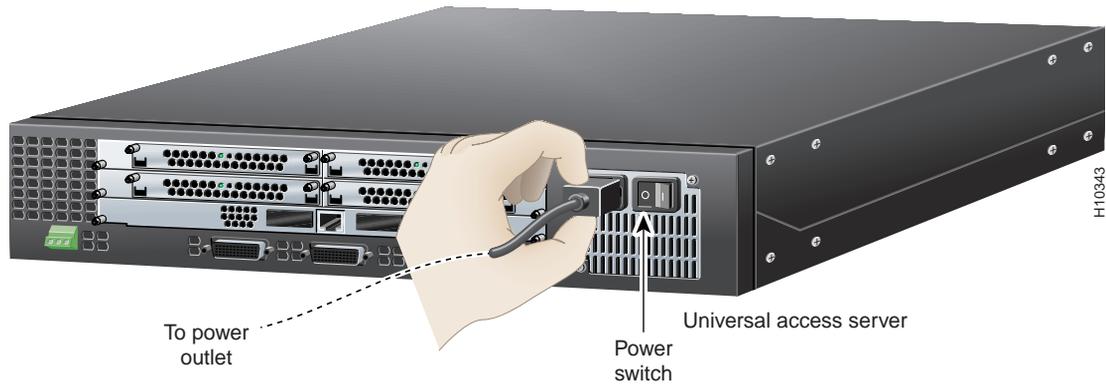
To configure the access server from a remote location, you will need an RJ-45-to-RJ-45 rollover cable and a modem adapter (RJ-45-to-DB-25) to connect a modem.

If you will not be using a modem to configure the access server remotely, skip this procedure and go to the next page.

*Note: The cable and adapter are included. The modem is not included.*

- Step 1** Connect the adapter labeled MODEM to your modem.
- Step 2** Connect the RJ-45-to-RJ-45 rollover cable to the adapter.
- Step 3** Connect the other end of the RJ-45-to-RJ-45 rollover cable to the port labeled AUX on the rear panel of the access server.

## 2 Install the Universal Access Server (continued)



### Connect a Power Cable and Power on the Universal Access Server

- Step 1** Connect one end of the power cord to the power connector on the rear panel of the access server.
- Step 2** Connect the other end of the power cord to the power outlet.
- Step 3** Power ON the access server. Messages will begin to appear on your console screen.



**Caution** It may take several minutes for the startup messages to stop. Do not press any keys until you see the following message:

```
Would you like to enter the initial  
configuration dialog? [yes]:
```

While you are waiting for this message to appear, proceed to Section **3**.

## 3 Configure the Universal Access Server

Use any of the following options for configuring your universal access server:

- Cisco Fast Step software
- Cisco IOS Release setup script
- Command line interface

The option you select depends on how you want to configure your universal access server. Use the information on this page to help you decide which option to select.

### Using Cisco Fast Step Software

Cisco Fast Step is a setup utility with a graphical user interface. It provides easy, step-by-step instructions for setting up some of the most commonly used options available on the Cisco AS5200 universal access server. Use Cisco Fast Step to configure your access server with the following options:

- Protocols and services (IP, IPX, and NetBEUI)
- LAN or WAN topology of 10BaseT, 10/100BaseT, and serial ports
- Controller settings (PRI or channelized T1/E1 interfaces)
- WAN encapsulation settings (Frame Relay and HDLC)
- LAN or WAN side IP or IPX settings
- Dial-in side IP or IPX settings
- IP address pools or DHCP server settings for dial-in users
- Access server security and security server settings
- Routing protocol settings including default and user defined (static) routes

### Using Other Options

For all other configurations, use the Cisco IOS Release setup script or the command line interface. Refer to the *Cisco AS5200 Universal Access Server Software Configuration Guide* for detailed instructions on using the command line interface to configure your Cisco AS5200 universal access server.

## 3 Configure the Universal Access Server (continued)



**Timesaver** Use Appendix **A** to help you gather the appropriate information before you begin to configure the access server using the setup script.

### Install and Run Cisco Fast Step

- 1 Insert the Cisco Fast Step CD-ROM (attached to the inside back cover of this guide) into the CD-ROM drive of the local PC you connected in Section **2**.
- 2 The Fast Step install program starts Setup.exe automatically. If it does not, use the following steps to start the Fast Step program:
  - (a) Double-click the My Computer icon on your computer desktop.
  - (b) Double-click the CD icon.
  - (c) Double-click the Setup.exe icon.

The install program prompts you for the information it needs to install Cisco Fast Step, then copies the software to your hard drive.

### Configure the Universal Access Server

Once installed, the Cisco Fast Step setup program starts automatically. Follow the onscreen instructions to guide you through configuring and testing the universal access server.

# A

## Gather Configuration Information

Use this appendix to note the information you may need for configuring your universal access server. You can get this information from your network administrator.

Item	Ask Your Network Administrator	Enter the Information in This Column
1	What do you want to name the access server (to distinguish it from other Cisco devices on your network)?	
2	What do you want the encrypted enable secret password to be?	
3	What do you want the nonencrypted enable password to be?	
4	What do you want the password for remote console access to be? This is referred to as the virtual terminal password.	
5	Do you want to configure:	
	SNMP? If so,	
	— What is the public (read-only) community string?	
	— What is the private (read-write) community string?	
	LAT?	
	AppleTalk? If so,	
	— AppleTalk multizone networks?	
	— What are the AppleTalk zone names?	
	— What are the AppleTalk network numbers?	
	DECNet?	
	IP?	
	IGRP routing? If so,	
	— What is the IGRP autonomous system number?	
	CLNS?	
	IPX? If so,	
	— What are the IPX network numbers?	
	VINES?	
XNS?		
Apollo?		
Bridging?		

**A**

## Gather Configuration Information (continued)

Item	Ask Your Network Administrator	Enter the Information in This Column
6	If you are configuring asynchronous interfaces, what is the starting address for the IP local pool?	
7	What is the ending address for the IP local pool?	
8	What is the IP address for the Ethernet 0 interface?	
9	How many bits are in the subnet mask?	
10	What is the IP address for the Serial 0 interface?	
11	How many bits are in the subnet mask?	
12	What is the IP address for the Serial 1 interface?	
13	How many bits are in the subnet mask?	
14	What is your telco ISDN switch type?	

The following information is required for channelized T1 or E1 configurations:

Item	Ask Your Network Administrator	Enter the Information in This Column
15	What is your telco signaling type?	
16	What is your telco framing type?	
17	What is your telco line coding type?	





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