

Using the Setup Script on Cisco IOS Release 11.2

This appendix contains instructions for running the setup script for systems containing Cisco IOS Release 11.2.

Note Instructions for running the setup script in Cisco IOS Release 11.3(2)T are located in Chapter 1, “Configuring the Access Server for the First Time.”

Using the Setup Script

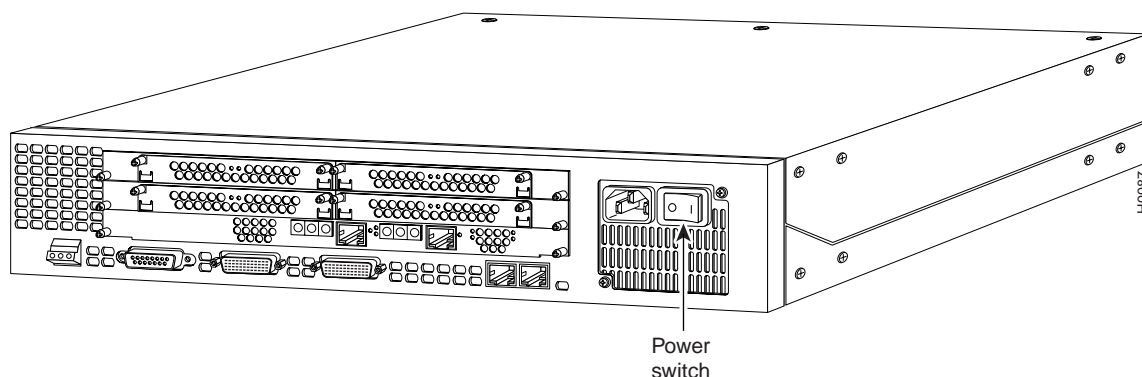
Before you turn on the access server and begin to use the setup script, make sure you have already connected the cables to the access server and configured your PC terminal emulation program for 9600 baud, 8 data bits, no parity, and 2 stop bits. All configuration will be performed from your PC terminal emulation program window.

Note Information that you enter is in this **boldface** font.

To use the setup script take the following steps:

Step 1 Power ON the access server (see Figure C-1). The power switch is on the rear panel of the access server, at the upper right corner near the power cord.

Figure C-1 Power Switch Location



Messages will begin to appear in your terminal emulation program window.



Caution *Do not press any keys on the keyboard until the messages stop.* Any keys pressed during this time will be interpreted as the first command typed when the messages stop, which may cause you to power cycle the access server and start over. It will take a few minutes for the messages to stop.

The messages look similar to the following:

Note The messages vary, depending on the Cisco IOS software release and feature set you selected. The screen displays in this section are for reference only and may not exactly reflect the messages on your console.

```
System Bootstrap, Version 11.2(7)P, RELEASED SOFTWARE
Copyright (c) 1994-1997 by cisco Systems, Inc.
AS5200 processor with 16384 Kbytes of main memory
program load complete, entry point: 0x3000060, size: 0x23d454
```

Restricted Rights Legend

```
Use, duplication, or disclosure by the Government is
subject to restrictions as set forth in subparagraph
(c) of the Commercial Computer Software - Restricted
Rights clause at FAR sec. 52.227-19 and subparagraph
(c) (1) (ii) of the Rights in Technical Data and Computer
Software clause at DFARS sec. 252.227-7013.
```

```
cisco Systems, Inc.
170 West Tasman Drive
San Jose, California 95134-1706
```

```
Cisco Internetwork Operating System Software
IOS (tm) 5200 Software (C5200-JS-L), Version 11.2(7)P, RELEASED
Copyright (c) 1986-1997 by cisco Systems, Inc.
Compiled Tue 20-May-97 20:29 by ccai
Image text-base: 0x2204097C, data-base: 0x00005000
```

```
cisco AS5200 (68030) processor (revision B) with 16384K/4096K bytes of memory.
Processor board ID 04277316
Bridging software.
SuperLAT software copyright 1990 by Meridian Technology Corp).
X.25 software, Version 2.0, NET2, BFE and GOSIP compliant.
TN3270 Emulation software.
Primary Rate ISDN software, Version 1.0.
Mother board with terminator card.
1 Ethernet/IEEE 802.3 interface(s)
2 Serial network interface(s)
24 terminal line(s)
2 Channelized T1/PRI port(s)
128K bytes of non-volatile configuration memory.
8192K bytes of processor board System flash (Read ONLY)
8192K bytes of processor board Boot flash (Read/Write)
```

```
Notice: NVRAM invalid, possibly due to write erase.
--- System Configuration Dialog ---
```

```
At any point you may enter a question mark '?' for help.
Use ctrl-c to abort configuration dialog at any prompt.
Default settings are in square brackets '[]'.
```

- Step 2** When the following message appears, press **Return** to accept the default entry (**yes**) in square brackets:

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

If you answer **no**, go to Chapter 3, “Configuring the Access Server Manually” to configure the access server.

- Step 3** When the following message appears, press **Return** to see the current interface summary:

```
First, would you like to see the current interface summary? [yes]:
```

```
Any interface listed with OK? value "NO" does not have a valid configuration
```

```
InterfaceIP-Address OK? Method StatusProtocol
Ethernet0unassignedNO  unset  upup
Serial0unassignedNO    unset  downdown
Serial1unassignedNO    unset  downdown
```

- Step 4** Enter a host name for the universal access server:

```
Configuring global parameters:
```

```
Enter host name [Router]: 5200
```

The enable secret is a one-way cryptographic secret used instead of the enable password when it exists.

- Step 5** Enter an enable secret password. This password is encrypted (more secure) and cannot be seen when viewing the configuration:

```
Enter enable secret: 1ab
```

The enable password is used when there is no enable secret and when using older software and some boot images.

- Step 6** Enter an enable password. This password is *not* encrypted (less secure) and can be seen when viewing the configuration:

```
Enter enable password: guessme
```

- Step 7** Enter the virtual terminal password, which is used for remote console access:

```
Enter virtual terminal password: guessagain
```

- Step 8** Respond to the following prompts as appropriate for your network:

```
Configure SNMP Network Management? [yes]:
Community string [public]:
Configure LAT? [no]:
Configure AppleTalk? [no]: yes
Multizone networks? [no]: yes
Configure DECnet? [no]:
Configure IP? [yes]:
Configure IGRP routing? [yes]:
Your IGRP autonomous system number [1]: 15
Configure CLNS? [no]:
Configure IPX? [no]: yes
Configure Vines? [no]:
Configure XNS? [no]:
Configure Apollo? [no]:
Configure bridging? [no]:
```

- Step 9** Configure the asynchronous serial lines for the integrated modems or terminal adapters on the modules installed in the universal access server:

```
Configure Async lines? [yes]:  
  Async line speed [115200]:
```

Note We recommend that you do not change this speed for modems. However, for V.110 terminal adapters, we recommend that the speed not go above 19200.

```
Will you be using the modems for inbound dialing? [yes]:  
  Would you like to configure group async interface? [yes]:
```

Note If your asynchronous interfaces will be using the same basic configuration parameters, we recommend that you group them so that they can be configured as a group. Otherwise, you will need to configure each interface separately.

```
Configure for Dynamic IP addresses? [no]:  
Configure for TCP header compression? [yes]:  
Configure for routing updates on async links? [no]:  
Enter the starting address of IP local pool? [X.X.X.X]: 172.20.30.40  
Enter the ending address of IP local pool? [X.X.X.X]: 172.20.30.88
```

Note Make sure the starting and ending addresses of the IP pool are in the same subnet.

```
What is the username of the test user? [user]:  
  What is the password of the test user? [passwd]:  
Will you be using the modems for outbound dialing? [no]:  
Configure for Async IPX? [yes]: no  
Configure for Appletalk Remote Access (ARA)? [no]: yes  
  AppleTalk Network for ARAP clients [1]:  
  Zone name for ARAP clients [ARA Dialins]:  
  Allow ARAP "Guest" logins? [yes/no]: yes
```

- Step 10** Configure the Ethernet 0 interface:

Configuring interface parameters:

```
Configuring interface Ethernet0:  
Is this interface in use? [yes]:  
Configure IP on this interface? [yes]:  
  IP address for this interface: 172.21.40.10  
  Number of bits in subnet field [0]: 8  
  Class B network is 172.21.0.0, 8 subnet bits; mask is /24  
Configure AppleTalk on this interface? [no]: yes  
  Extended AppleTalk network? [no]:  
  AppleTalk network number [0]: 10  
  AppleTalk zone name [myzone]: etherzone  
Configure IPX on this interface? [no]: yes  
  IPX network number [1]:
```

Step 11 Configure the Serial 0 interface:

```
Configuring interface Serial0:
Is this interface in use? [yes]:
Configure IP on this interface? [yes]:
Configure IP unnumbered on this interface? [no]:
  IP address for this interface: 172.22.50.10
  Number of bits in subnet field [0]: 8
  Class B network is 172.22.0.0, 8 subnet bits; mask is /24
Configure AppleTalk on this interface? [no]: yes
  Extended AppleTalk network? [yes]: no
  AppleTalk network number [2]: 11
  AppleTalk zone name [myzone]: serialzone
Configure IPX on this interface? [no]: yes
  IPX network number [2]:
```

Step 12 Configure the Serial 1 interface:

```
Configuring interface Serial1:
Is this interface in use? [yes]:
Configure IP on this interface? [yes]:
Configure IP unnumbered on this interface? [no]:
  IP address for this interface: 172.23.60.10
  Number of bits in subnet field [0]: 8
  Class B network is 172.23.0.0, 8 subnet bits; mask is /24
Configure AppleTalk on this interface? [no]:
Configure IPX on this interface? [no]: yes
  IPX network number [3]:
```

Step 13 Enter the letter corresponding to the ISDN switch type that matches your telco's switch type:

```
Do you want to configure ISDN switch type? [yes]:
The following ISDN switch types are available:
[a] primary-4ess (AT&T 4ESS U.S. switch type)
[b] primary-5ess (AT&T 5ESS U.S. switch type)
[c] primary-dms100 (Northern Telecom U.S. switch type)
[d] primary-net5 (European NET5 switch type)
[e] primary-ntt (Japan switch type)
[f] primary-ts014 (Australia switch type)
Enter the switch type [b]:
```

Step 14 Configure the controllers:

Note All incoming calls to the access server are handled by the controllers, which route calls to the appropriate place inside the access server for processing.

```
Configuring controller parameters:
```

```
Configuring controller T1 0:
Is this controller in use? [yes]:
Will you be using PRI on this controller? [yes]:
```

Note If you want to configure the access server for channelized T1, enter **no**.

Would you like to enable multilink PPP? [yes]:

Configuring controller T1 1:

Is this controller in use? [yes]:

When you have completed the initial configuration script, messages similar to the following appear:

```
hostname 5200
enable secret 5 $1$f4PM$90raffX1HF0byBNbKF.DI.
enable password guessme
line vty 0 4
password guessagain
snmp-server community public
!
appletalk routing
no decnet routing
ip routing
no clns routing
ipx routing
no vines routing
no xns routing
no apollo routing
no bridge 1
!
! Turn off IPX to prevent network conflicts.
interface Ethernet0
no ipx network
interface Serial0
no ipx network
interface Serial1
no ipx network
!
line 1 24
speed 115200
  flowcontrol hardware
login local
autoselect ppp
autoselect during-login
modem dialin
ip local pool setup_pool 172.20.30.40 172.20.30.88
!
username user password passwd
!
arap network 1 ARA Dialins
line 1 24
arap enable
autoselect arap
!
interface Ethernet0
ip address 172.21.40.10 255.255.255.0
appletalk address 10.0
appletalk zone etherzone
ipx network 1
no mop enabled
!
interface Serial0
ip address 172.22.50.10 255.255.255.0
appletalk address 11.2
appletalk zone serialzone
ipx network 2
```

```
no mop enabled
!
interface Serial1
ip address 172.23.60.10 255.255.255.0
ipx network 3
no mop enabled
!
Interface Group-Async1
group-range 1 24
ip unnumbered Ethernet0
encapsulation ppp
ppp authentication chap pap
peer default ip address pool setup_pool
ip tcp header-compression passive
async mode interactive
!
isdn switch-type primary-5ess
!
controller T1 0
pri-group timeslots 1-24
framing esf
linecode b8zs
!
interface serial0:23
isdn incoming-voice modem
ip unnumbered Ethernet0
encapsulation ppp
ppp authentication chap pap
ppp multilink
peer default ip address pool setup_pool
dialer-group 1
access-list 101 permit ip any any
dialer-list 1 list 101
!
controller T1 1
pri-group timeslots 1-24
framing esf
linecode b8zs
!
interface serial1:23
isdn incoming-voice modem
ip unnumbered Ethernet0
encapsulation ppp
ppp authentication chap pap
ppp multilink
peer default ip address pool setup_pool
dialer-group 1
access-list 101 permit ip any any
dialer-list 1 list 101
!
router igrp 15
redistribute connected
network 172.21.0.0
network 172.22.0.0
network 172.23.0.0
!
end
```

Step 15 Enter **yes** to save the configuration or enter **no** to erase it:

```
Use this configuration? [yes/no]: yes
Building configuration...
Use the enabled mode 'configure' command to modify this configuration.
```

```
Press RETURN to get started!
```

```
%LINK-3-UPDOWN: Interface Ethernet0, changed state to up
%LINK-3-UPDOWN: Interface Serial0, changed state to down
%LINK-3-UPDOWN: Interface Serial1, changed state to down
```

```
<Additional messages omitted.>
```

Step 16 When the messages stop displaying on your screen, press **Return** to get the following prompt:

```
5200>
%AT-6-ONLYROUTER: Ethernet0: AppleTalk port enabled; no neighbors found
```

If you see this message, it means that no other AppleTalk routers were found on the network attached to the port.