First-Time Startup

This chapter takes you through first-time startup. Use the information you have entered onto the Protocol Translator Configuration Worksheet as you interact with the System Configuration Dialog. If you have not completed the worksheet, you should read Chapter 2, "Preparing for First-Time Startup," before starting up.

This chapter includes a sample worksheet that has been filled in to show you how the information you have written on the worksheet is used when the **setup** command facility runs through the System Configuration Dialog.

Overview of the First-Time Startup Process

The first time you start up the system, the **setup** command facility operates automatically. An interactive dialog called the System Configuration Dialog will be displayed on the screen of the system console. The dialog navigates you through the configuration process by prompting you for the information you should have already determined and recorded on the Protocol Translator Configuration Worksheet. The **setup** command facility also provides default and help information within the dialog. Default and help information available within the dialog is described later in this section.

The **setup** command facility knows which interfaces are installed and prompts you for configuration information for each installed interface. When you finish configuring one interface, the **setup** command software prompts you for the next interface and continues until each interface has been configured.

At first-time startup, you must do the following:

* Power up your protocol translator

* Verify software version and installed hardware and software options

* Configure global parameters

* Configure interface parameters

* Store the configuration in nonvolatile memory

Default Values Using the Setup Command Facility

For many of the prompts in the System Configuration Dialog of the **setup** command facility, default answers appear in square brackets following the question. By pressing the Return key, you allow the defaults to be used. If the system was previously configured, the defaults that appear are the currently

configured values. If this is the first time the system has been configured, the factory defaults are provided. If there is no factory default, as in the case of passwords, nothing is displayed after the question mark.

Help Text Using the Setup Command Facility

At any time during use of the **setup** command facility, you may request help by typing a question mark (?) at a given prompt. If the prompt requires a yes or no answer, no further help is available. However, if the prompt offers a range of acceptable answers, the help facility will give you some guidance. For example, if you are prompted to select the number of bits in a subnet mask, the help facility might inform you that you can choose a decimal number between 0 and 22.

Powering Up Your System

Before powering up your system, check for correct AC power voltages.

Caution Check the voltage rating label at the rear of the unit for correct voltage configuration. The protocol translators are configured at the factory for either 110 VAC or 220 VAC operation, as requested when ordered.

Now you can safely power up your system.

Verifying Installed Software and Hardware

When you first power up your console and network router, a script similar to the following appears on the screen. The first section of the script displays banner information, including the software version and the System Configuration Dialog. (A sample of the complete configuration script produced is included at the end of this chapter.)

```
            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) (ii) of the Rights
 in Technical Data and Computer Software clause at
 DFARS sec. 252.227-7013.

 Cisco Systems, Inc.
 1525 O'Brien Drive
 Menlo Park, California

 PT Software (PT3-LX), Version 9.21
 Copyright (c) 1986-1993 by Cisco Systems, Inc.
 Compiled Wed 23-Jun-93 15:32
```

The next portion of the script lists installed hardware and software options. By reading the installed hardware, the system presents the appropriate interfaces during the configuration process.

```
 CSC3 (68020) processor with 4096K bytes of memory.
 1 MCI controller.
 1 Ethernet/IEEE 802.3 interface.
 1 Serial network interface.
 96 terminal lines
 64k bytes of non-volatile memory.
```

Note The first two sections of the configuration script (the banner and the installed hardware) appear only at initial system startup. On subsequent uses of the **setup** command facility, the script begins with the System Configuration Dialog and asks if you want to continue.

The System Configuration Dialog appears next and prompts for configuration information. Press the Return key to accept the default settings, which appear in square brackets.

```
        - System Configuration Dialog -
At any point you may enter a question mark '?' for help.
Refer to the 'Getting Started' Guide for additional help.
Use ctrl-c to abort configuration dialog at any prompt.
Default settings are in square brackets '[]'.

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

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

Interface     IP-Address      OK?    Method     Status     Protocol
Ethernet0     unassigned      YES    not set    up          down
Serial0       unassigned      YES    not set    up          down
```

At this point, you can choose not to continue with the System Configuration Dialog and exit by answering No to the prompt. To begin the configuration process, answer Yes. You can press Ctrl-C to abort the process at any time. Ctrl-C will return you to the privileged EXEC prompt (pt#).

If any --More-- prompts appear, press the space bar to continue.

Configuring Global Parameters

You are prompted for global parameters at the console. Use the values you have determined in the Global Parameters portion of your Protocol Translator Configuration Worksheet. Enter the global parameters at the prompts.

Configuring Interface Parameters

You are prompted for parameters for each installed interface at the console. Use the values you have determined in the Interface Parameters portion of your Protocol Translator Configuration Worksheet. Enter the interface parameters at the prompts.

Storing the Configuration in Nonvolatile Memory

When you complete the configuration process for all installed interfaces on your protocol translator, the **setup** command facility presents the configuration command script that was created. It also asks you if you want to use this configuration. If you answer Yes, the configuration is saved to nonvolatile memory. If you answer No, the configuration is not saved and the process begins again. There is no default for this prompt; you must answer either Yes or No.

Once you have answered Yes to this last question, your system is now ready to be used. If you want to modify the configuration you have just established, see Chapter 4, "Where to Go from Here."

Sample Configuration

This section contains a sample first-time startup configuration using a sample completed worksheet. Refer to Figure 3-1.

This sample includes the actual screen output for the **setup** command facility at first-time startup. The screen output includes both the interactive configuration process and the resulting script created.

In the sample System Configuration Dialog, when it appears that no response was made, the user pressed the Return key to accept the default.

Note   If there are any problems with the configuration file pointed to in nonvolatile memory or the ignore nonvolatile memory bit is set in the configuration register, the server will enter the streamlined **setup** command facility. See "Using the "Streamlined Setup Command Facility" in Chapter 4, "Where to Go from Here."

System Hardware Information:

System Type: (CPT)
(circle one)

System Serial No.: _12345678_   **Number of Interfaces:** _2_

Global Parameters

Host Name: _pt-13_
Enable Password: _secure_
Virtual Terminal Password: _secure1_
SNMP: (Yes) No

XRemote Font (Yes) No
Server:
 	
      IP address: _123.123.123.246_
 	
      IP address: _____
 	
      IP address: _____
 	
      IP address: _____

Interface Parameters

Interface Name	Ethernet0	Serial0		
IP address	131.108.161.10	131.108.161.50		
Subnet mask bits	8	8		
LAT (Yes / No)	yes	yes		

S1506a

Figure 3-1   Completed Protocol Translator Configuration Worksheet

```
                  --- System Configuration Dialog ---

At any point you may enter a question mark '?' for help.
Refer to the 'Getting Started' Guide for additional help.
Use ctrl-c to abort configuration dialog at any prompt.
Default settings are in square brackets '[]'.
Would you like to enter the initial configuration dialog? [yes]:

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

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

Interface    IP-Address     OK?   Method     Status           Protocol
Ethernet0    unassigned     NO    not set    down               down
Serial0      unassigned     NO    not set    down               down


Configuring global parameters:

  Enter host name [PT]: pt-13
  Enter enable password: secure
  Enter virtual terminal password: secure1
  Configure SNMP Network Management? [yes]:
  Configure Xremote font servers? [no]: yes
    Enter a font server IP address or Press Return to exit: 123.123.123.246

Configuring interface Ethernet0:
    IP address for this interface: 131.108.161.10
    Number of bits in subnet field [0]: 8
    Class B network is 131.108.0.0, 8 subnet bits; mask is 255.255.255.0
  Configure LAT on this interface? [yes]:

Configuring interface Serial0:
    IP address for this interface: 131.108.161.50
    Number of bits in subnet field [0]: 8
    Class B network is 131.108.0.0, 8 subnet bits; mask is 255.255.255.0
  Configure LAT on this interface? [yes]:

The following configuration command script was created:

hostname pt-13
enable password secure
line vty 0 9
password secure1
snmp-server community
xremote font server 123.123.123.246
!
!
interface Ethernet0
ip address 131.108.161.10 255.255.255.0
lat enabled
mop enabled
!
interface Serial0
ip address 131.108.161.50 255.255.255.0
lat enabled
end

Use this configuration? [yes/no]: yes

Press RETURN to get started!

[OK]

Use the enabled mode 'configure' command to modify this configuration.
```

First-time startup is complete. Your protocol translator is now ready for use. If you want to modify the configuration you have just established during first-time startup, use the **setup** command facility described in Chapter 4 "Where to Go from Here." To perform advanced configurations, use the **configure** command described in the *Protocol Translator Configuration Guide* and the *Protocol Translator Command Reference* publication.