

First-Time Startup

This chapter takes you through first-time startup. Use the information you have entered onto the Communication Server 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 Communication Server Configuration Worksheet. 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 facility 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 communication server
- 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 you are configuring the system for the first time, 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 ASM-CS is configured at the factory for either 110 VAC or 220 VAC operation, as requested when ordered. The 500-CS automatically configures the power supply for the applied input voltage and may be connected to any AC source from 110 to 240 VAC.

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
```

```
CS Software (CS500-K), Version 9.21(1)
Copyright (c) 1986-1994 by Cisco Systems, Inc.
Compiled Wed 19-Jan-94 13:36
```

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

```
Cisco-500 (68331) processor with 10240K bytes of memory.
SuperLAT software (copyright 1990 by Meridian Technology Corp).
1 Ethernet/IEEE 802.3 interface.
16 terminal lines.
32K bytes of non-volatile configuration memory.
Configuration register is 0x2102
```

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 '['].

Continue with configuration dialog? [yes]:

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

Interface      IP-Address      OK?  Method      Status      Protocol
Ethernet0      192.195.78.19   YES  NVRAM       up          up

```

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 (cs#). For information about configuring the communication server, refer to the *Communication Server Configuration Guide*.

If a --More-- prompt appears, press the space bar to continue.

Configuring Global Parameters

You will be prompted for global parameters at the console. Use the values you have determined in the Global Parameters portion on your Communication Server 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 on your Communication Server 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 communication server, 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.

System Hardware Information:

System Type **ASM-CS** 500-CS
(circle one)

System Serial No.: 12345678 Number of Async Lines: 64

Global Parameters

Host Name:	<i>cs-mine</i>
Enable Password:	<i>cstest1</i>
Virtual Terminal Password:	<i>cstest1</i>
SNMP:	<input checked="" type="radio"/> Yes <input type="radio"/> No
XRemote Font Server:	<input checked="" type="radio"/> Yes <input type="radio"/> No
	IP address: <u>123.123.123.255</u>
	IP address: _____
	IP address: _____
	IP address: _____

Interface Parameters

Interface Name	<i>Ethernet0</i>			
IP address	<i>131.108.161.28</i>			
Subnet mask bits	<i>8</i>			
LAT (Yes / No)	<i>yes</i>			

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Figure 3-1 Completed Communication Server 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

Configuring global parameters:

```

Enter host name [CS]: cs-mine
Enter enable password: cstest1
Enter virtual terminal password: cstest1
Configure SNMP Network Management? [yes]:
Configure Xremote font servers? [no]: yes
  Enter a font server IP address or Press Return to exit: 123.123.123.255
  Enter a font server IP address or Press Return to exit:

```

Configuring interface parameters:

```

Configuring interface Ethernet0:
  IP address for this interface: 131.108.161.28
  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 cs-mine
enable password cstest1
line vty 0 15
password cstest1
snmp-server community
xremote tftp 123.123.123.255
!
!
interface Ethernet0
ip address 131.108.161.28 255.255.255.0
lat enabled
mop 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 communication server is now ready to be used. 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 *Communication Server Configuration Guide* and the *Communication Server Command Reference* publication. To connect to a network host, refer to the *Communication Server and Protocol Translator Connection Guide*.

