

Overview

This chapter provides an overview of the hardware installation and software configuration process for the router. This chapter outlines the tasks you must perform to set up your router with the features you need.

The primary focus of this guide is to describe the **setup** command facility and its position within the entire installation and configuration process. The **setup** command facility enables you to start using your router quickly and without extensive background knowledge by prompting you for the information required to perform basic configuration procedures.

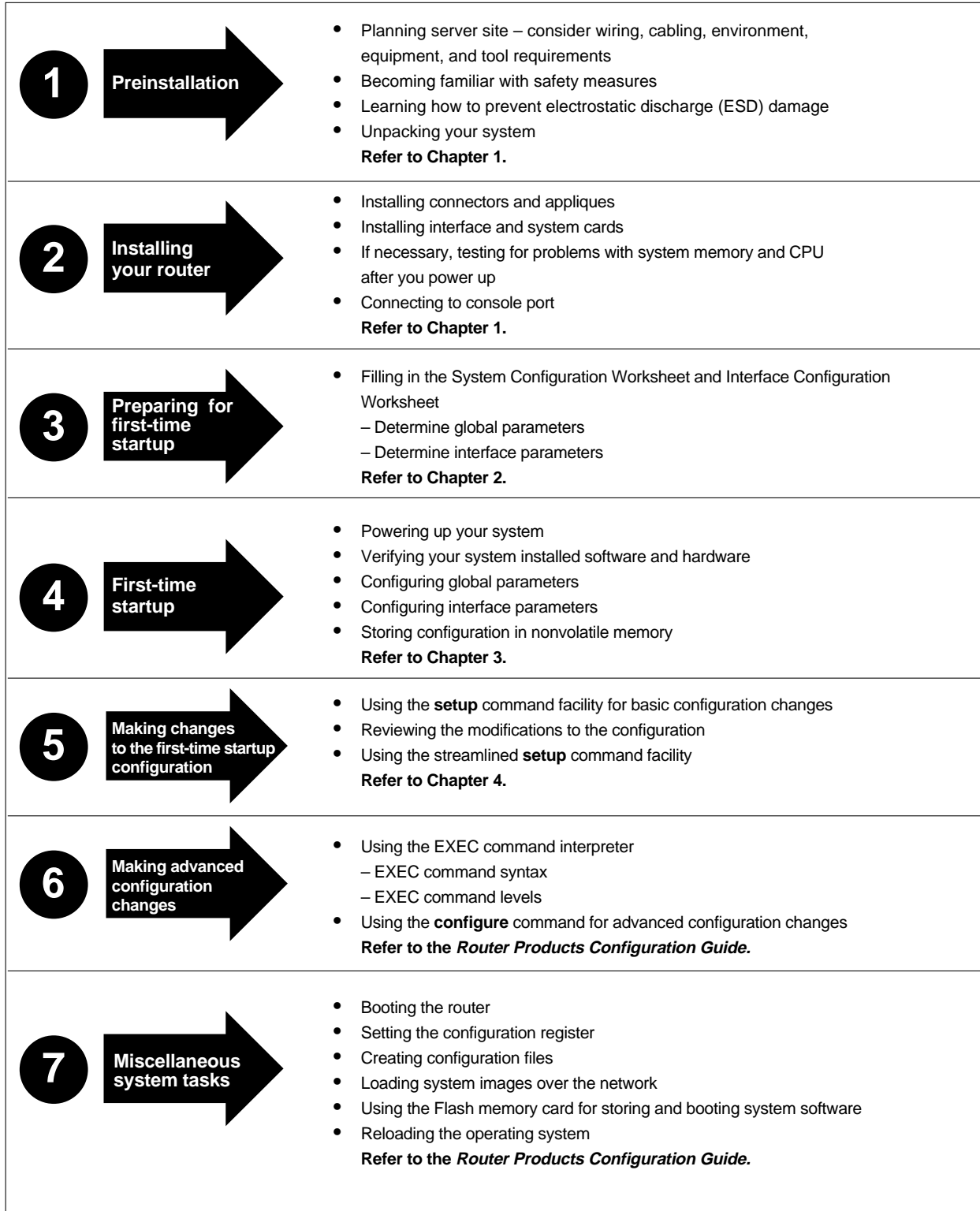
The **setup** command facility can be used both at initial system configuration and for changes to the basic configuration at any time. The facility is also a teaching tool that helps you become familiar with the expected command sequence as you step through the configuration process. Because of these unique characteristics, **setup** is referred to as a *command facility* rather than simply as a command.

Installation and Configuration Process

The installation and configuration process has seven phases. Each phase includes tasks that help you use your router to meet your networking needs. Figure 1-1 shows the order of the phases and the tasks within each phase.

Detailed information for each phase within the installation and configuration process is available in either this guide or other referenced publications. A brief description of phase 1, Preinstallation, and phase 2, Installing Your Router, immediately follows Figure 1-1. These phases are hardware related and are not described in a later section of this guide. Phases 3, 4, and 5 are described in this guide, while phases 6 and 7 are described in the *Router Products Configuration Guide*.

Figure 1-1 Installation and Configuration Process



Preinstallation

Preinstallation refers to tasks you must perform before starting actual system hardware installation. This phase must precede all other phases of the installation and configuration process. The preinstallation tasks are as follows:

- Planning the location where the router will be installed. Some of the items you should consider are site environment, cabling requirements of planned connections, modular wiring system requirements, and tool and equipment requirements.
- Familiarizing yourself with general safety precautions and specific requirements for working on electrical equipment.
- Learning electrostatic discharge (ESD) prevention procedures when removing and replacing cards.
- Unpacking your system. Verify that you have received everything you ordered and that shipping damage has not occurred.

Refer to the appropriate hardware installation and maintenance publication for the router you have ordered for more detailed information about preinstallation tasks.

Installing Your Router

After you have performed the preinstallation tasks, you are ready to install the router components. For the A+, M, and C chassis, you install by performing the following tasks:

- Installing connectors and appliques
- Installing interface and system cards
- Installing EPROMS, if necessary
- Testing system memory and the CPU after you power up, if necessary

For the IGS and Cisco 3000 chassis, you install by performing the following tasks:

- Attaching cables
- Installing new system software EPROMs, if necessary
- Upgrading memory, if necessary

For the Cisco 7000 chassis, you install by performing the following tasks:

- Installing the power supply
- Attaching cables

Refer to the appropriate hardware installation and maintenance publication for the router you have ordered for more detailed information about router installation tasks.

To work with the router, you must attach an ASCII terminal to the system console port located at the rear of the router. The console port of the router functions as a data communications equipment (DCE) device and requires that you use a “straight-through” type RS-232 cable. Configure the terminal to operate at the following settings:

- 9600 baud
- 8 data bits
- no parity
- 1 or 2 stop bits

Note We recommend that you make network connections before first-time startup. Refer to the appropriate hardware installation and maintenance publication for details about cabling considerations and establishing electrical connections.

After connecting to the console port, you are ready to complete the Router Configuration Worksheet. Go to the chapter, "Preparing for First-Time Startup."