About This Manual

This section introduces the *Debug Command Reference* publication audience and scope, organization, use, and conventions.

Audience and Scope

This publication addresses the network or system administrator who maintains a Cisco gateway, router, or bridge running Internetwork Operating System (IOS) Release 10 and earlier software.

Readers should know how to configure a Cisco router and should be familiar with the protocols and media their routers are configured to support. Readers must also be aware of their network topology.

Document Organization and Use

The *Debug Command Reference* publication provides information about using **debug** commands to troubleshoot Cisco network servers. This manual is most effective when used in conjunction with the *Troubleshooting Internetworking Systems* publication.

Chapter 1, "Using Debug Commands," explains how you enter **debug** commands, use the **debug ?** and **debug all** commands, and generate and redirect **debug** command output. It is important that you read this chapter first before proceeding to Chapter 2, "Debug Commands."

Chapter 2, "Debug Commands," presents reference information on commands you use to debug your internetwork. The chapter includes command function descriptions, sample output displays, and explanations of these displays.

Appendix A, "X.25 Cause and Diagnostic Codes," lists the codes that can appear in output from the **debug x25**, **debug x25-events**, and **debug x25-vc** commands.

Appendix B, "ISDN Switch Types, Codes, and Values," lists the supported switch types. It also contains the cause codes, cause values, bearer capability values, and progress values that can appear in output from the **debug isdn-q921**, **debug isdn-q931**, and **debug isdn-event** commands.

Document Conventions

The command descriptions in this manual use these conventions:

- Commands and keywords are in **boldface**.

- Filenames, directory names, and arguments for which you supply values are in *italics*.

- Elements in square brackets ([ ]) are optional.

- Alternative but required keywords are grouped in braces ({ }) and are separated by vertical bars (|).

- A string is defined as a nonquoted set of characters. For example, when setting up a community string for SNMP to "public," do not use quotes around the string or the string will be set to "public."

The samples use these conventions:

- Terminal sessions are printed in a `screen` font.

- Information you enter is in a `boldface screen` font.

- Nonprinting characters are shown in angle brackets (< >).

- Information the system displays is in a `screen` font; default responses are in square brackets ([ ]).

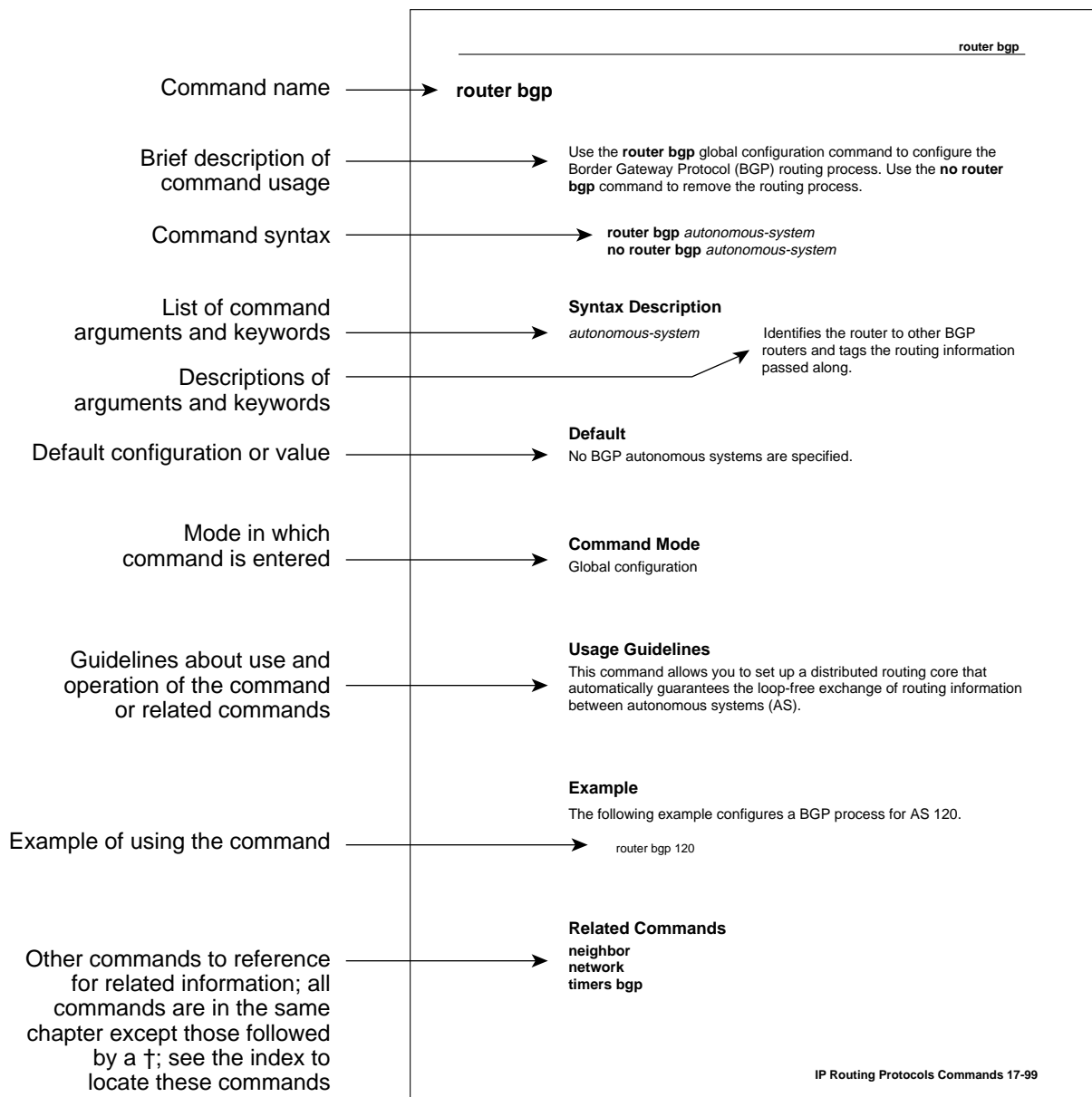This publication also uses the following conventions:

Note Means *reader take note*. Notes contain helpful suggestions, or reference to materials not covered in this manual.

Caution Means *reader be careful*. In this situation, you might do something that could result in equipment damage or loss of data.

The following illustration explains the fields on a typical command reference page:

router bgp

Command name → **router bgp**

Brief description of command usage → Use the **router bgp** global configuration command to configure the Border Gateway Protocol (BGP) routing process. Use the **no router bgp** command to remove the routing process.

Command syntax → **router bgp** *autonomous-system*
no router bgp *autonomous-system*

List of command arguments and keywords → **Syntax Description**

autonomous-system   Identifies the router to other BGP routers and tags the routing information passed along.

Descriptions of arguments and keywords →

Default configuration or value → **Default**
No BGP autonomous systems are specified.

Mode in which command is entered → **Command Mode**
Global configuration

Guidelines about use and operation of the command or related commands → **Usage Guidelines**
This command allows you to set up a distributed routing core that automatically guarantees the loop-free exchange of routing information between autonomous systems (AS).

Example
The following example configures a BGP process for AS 120.

Example of using the command → router bgp 120

Related Commands
Other commands to reference for related information; all commands are in the same chapter except those followed by a †; see the index to locate these commands → **neighbor**
network
timers bgp

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