



About This Manual

Objective

The Cisco IP Manager User Manual describes how to automate the process of creating configurations for individual devices in large network environments based on the Cisco Internetwork Operating System (Cisco IOS), and provisioning these elements (downloading their configurations) en masse.

This book also documents an Application Programming Interface (API) that allows you to extend the capabilities of the Cisco IP Manager, by linking it with existing operational support systems (OSS).

Installation instructions for Cisco IP Manager are provided, as well as step by step instructions for using the user interface.

Who Should Use This Book

This Users Manual is intended to be a technical resource for network managers and system administrators (the people who manage the network) and for network analysts (those who configure it).

It is assumed that you have a basic understanding of network design, operation, and terminology, and that you are familiar with your own network configurations and designs. It is also assumed that you have a basic familiarity with the Unix operating system.

If you intend to work with the programming API, you should be familiar with Oracle, CORBA (Common Object Request Broker Architecture), and the Interface Definition language (IDL).

How This Book is Organized

This User Manual is organized as follows:

Chapter 1, “Cisco IP Manager Overview,” describes the capabilities, key features, and benefits of the Cisco IP Manager software; the process of configuration validation and management; the architecture of the software, and the minimum system requirements.

Chapter 2, “Network Organization,” discusses the components of a network environment as seen by the Cisco IP Manager software, independently of the graphical user interface.

Chapter 3, “Getting Started,” provides instructions for installing the software and describes its principal components: the main selector window, the navigator window, popup menus, and the properties editor window.

Chapter 4, “Managing Network Elements,” describes how to create domains, subdomains, and network elements; and how to validate configurations using the integrity check report.

Chapter 5, “Template Management,” describes how to create configuration template files and their associated data files and how to use them to generate configurations for multiple devices; also describes how to check the syntax of generated configurations.

Chapter 6, “System Administration and Log Management,” describes how to create permission groups, add users to the system, and manage the system log.

Appendix A, “Advanced Usage,” describes the subdirectory structure, the Orbix daemon, the command line options available for individual servers, and running the GUI application via remote login (**rlogin**).

Appendix B, “Integrity Checks,” describes in detail all of the messages that can be generated for an Integrity Check.

Appendix C, “Syntax Checks,” describes the messages that can be generated for a Syntax Check.

Appendix D, “Server Error Codes,” itemizes the error codes generated by each of the Cisco IP Manager servers.

Related Information

Cisco documentation and additional literature are available in a CD-ROM package, which ships with your product. The Documentation CD-ROM, a member of the Cisco Connection Family, is updated monthly. Therefore, it might be more up to date than printed documentation. To order additional copies of the Documentation CD-ROM, contact your local sales representative or call customer service. The CD-ROM package is available as a single package or as an annual subscription.

You can also access Cisco documentation on the World Wide Web at

- <http://www.cisco.com>
- <http://www-china.cisco.com>
- <http://www-europe.cisco.com>.

Conventions and Terminology

This book uses the following conventions:

Names of on-screen elements that you click or select (such as menu names and commands; buttons and checkboxes; and items in list boxes and drop-down lists) are printed in bold type. Also printed in bold are keywords, names of commands, and names of keys on the keyboard.

When they appear within a passage of normal text, words that you enter from the keyboard are printed in a bold face type. If the word is enclosed in angle brackets (“<” and “>”), the word shown is a placeholder which tells you the type of word or character to enter (such as a password or user name).

When they are set off from the main text, words and characters that you enter are printed in the Courier typeface in a bold font.

Words that appear on screen from a source other than the keyboard are printed in the Courier face but not bold when set off from the main text.

For example, if you see this:

```
login: root
```

you should enter the string **root** at the login prompt. But if you see this:

```
password: <root password>
```

you should enter your own password instead of the words **root password**.

The *italic style* of type is used to emphasize words, to introduce new terms, and for filenames and titles of printed publications.

Though it is possible to reconfigure your mouse to use buttons differently, this book will refer to mouse operations for a standard, right-hand, three-button mouse.

To select something, place the on-screen pointer or cursor on the item and click the left mouse button.

To view an **Options** menu, place the on-screen pointer or cursor on an item and click the right mouse button. If a menu is available, it will open. (Clicking the right mouse button is sometimes referred to as a *right click*.)

When the term *click the mouse on...* is used without qualification, it means to place the on-screen pointer or cursor on an item and click the left mouse button.

To drag something, click the mouse on it and drag the pointer to a different location before releasing the mouse button.

When selecting items from a list using the mouse, you can sometimes select more than one item by holding down the **Shift** or **Control** key while clicking the mouse.

To select a contiguous block of items, click on one item, hold the **Shift** key down, and click on a second item. All items between the two will be selected when multiple selection is enabled.

To select items from different locations when multiple selection is enabled, hold the **Control** key down. Each selected item will remain selected until you complete the action or click the mouse without holding the **Control** key down.