



## Preface

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The *Cisco Aironet 350 Series Bridge Software Configuration Guide* describes how to configure Cisco Aironet 350 Series Bridges using the web-based management system. This manual also briefly describes how to use the console-based management system.

## Audience and Scope

This guide is for the network manager responsible for configuring a wireless network. Before using the material in this guide, you should be familiar with some of the concepts and terminology of Ethernet and wireless local area networking.

The scope of this guide is to provide the information you need to change the configuration of a bridge, use the bridge's management system to browse to other devices on a wireless network, and troubleshoot problems with the bridge that might arise.

## Organization

This guide is organized into the following chapters:

[Chapter 1, “Overview,”](#) is a functional overview of the bridge's management system. It describes the features of the management system and the bridge's role in a wireless network.

[Chapter 2, “Using the Management Interfaces,”](#) describes how to use the bridge's web-browser and command-line interfaces.

[Chapter 3, “Configuring the Radio and Basic Settings,”](#) describes the how to configure the bridge.

[Chapter 4, “Configuring VLANs,”](#) describes the how to configure VLANs.

[Chapter 5, “Configuring Filters and Quality of Service,”](#) describes the how to configure protocol filters and QoS.

[Chapter 6, “Configuring Proxy Mobile IP,”](#) describes the how to configure Proxy Mobile IP for bridges used as access points.

[Chapter 7, “Configuring Other Settings,”](#) describes the how to configure other configurations such as servers and association tables.

[Chapter 8, “Security Setup,”](#) describes how to set up and enable the bridge's security features.

[Chapter 9, “Network Management,”](#) describes how to use the management system to browse to other devices on a wireless network.

Chapter 10, “Managing Firmware and Configurations,” describes how to update the bridge’s firmware and use the management system to distribute firmware to other bridges.

Chapter 11, “Management System Setup,” describes methods of managing the bridge other than through the management system.

Chapter 12, “Special Configurations,” describes how to set up the bridge in network roles other than as a root or non-root unit on a wired LAN, such as in access point or repeater mode.

Chapter 13, “Diagnostics and Troubleshooting,” describes how to identify and resolve some of the problems that might arise when you configure a bridge running this software release.

Appendix A, “Protocol Filter Lists,” lists the protocols you can select for filtering on the management system’s Protocol Filters pages.

Appendix B, “Channels, Power Levels, and Antenna Gains,” lists channel sets used in the five main regulatory domains and the antenna and power-level combinations allowed in each regulatory domain.

Appendix C, “Event Log Messages,” defines event log error messages and recommends corrective action.

## Conventions

This publication uses the following conventions to convey instructions and information:

Command descriptions use these conventions:

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

Notes and cautions use the following conventions and symbols:



**Note**

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Means *reader take note*. Notes contain helpful suggestions or references to materials not contained in this manual.

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**Caution**

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

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## Related Publications

The following documents provide more information about bridges and related products:

- *Quick Start Guide: Cisco Aironet 350 Series Bridges* describes how to attach cables, power on, and assign an IP address and default gateway for the bridge.
- *Cisco Aironet 350 Series Bridge Hardware Installation Guide* describes the bridge’s hardware features, its physical and performance characteristics, and how to install the bridge.
- *Release Notes for Cisco Aironet 350 Series Bridges* describes features and caveats for bridges running firmware release 11.06.
- *Cisco Secure Access Control Server for Windows 2000/NT Servers Version 2.6 User Guide* provides complete instructions for using Cisco Secure ACS, including steps for configuring Cisco Secure ACS to support bridges and access points.

- *Cisco CCNA Exam #640-507 Certification Guide*, available from CiscoPress.com, provides a thorough overview of the Spanning-Tree Protocol. Use the following URL to browse to CiscoPress.com:

<http://www.ciscopress.com/>

## Obtaining Documentation

Cisco provides several ways to obtain documentation, technical assistance, and other technical resources. These sections explain how to obtain technical information from Cisco Systems.

### Cisco.com

You can access the most current Cisco documentation on the World Wide Web at this URL:

<http://www.cisco.com/univercd/home/home.htm>

You can access the Cisco website at this URL:

<http://www.cisco.com>

International Cisco websites can be accessed from this URL:

[http://www.cisco.com/public/countries\\_languages.shtml](http://www.cisco.com/public/countries_languages.shtml)

### Documentation CD-ROM

Cisco documentation and additional literature are available in a Cisco Documentation CD-ROM package, which may have shipped with your product. The Documentation CD-ROM is updated regularly and may be more current than printed documentation. The CD-ROM package is available as a single unit or through an annual or quarterly subscription.

Registered Cisco.com users can order a single Documentation CD-ROM (product number DOC-CONDOCCD=) through the Cisco Ordering tool:

[http://www.cisco.com/en/US/partner/ordering/ordering\\_place\\_order\\_ordering\\_tool\\_launch.html](http://www.cisco.com/en/US/partner/ordering/ordering_place_order_ordering_tool_launch.html)

All users can order annual or quarterly subscriptions through the online Subscription Store:

<http://www.cisco.com/go/subscription>

### Ordering Documentation

You can find instructions for ordering documentation at this URL:

[http://www.cisco.com/univercd/cc/td/doc/es\\_inpk/pdi.htm](http://www.cisco.com/univercd/cc/td/doc/es_inpk/pdi.htm)

You can order Cisco documentation in these ways:

- Registered Cisco.com users (Cisco direct customers) can order Cisco product documentation from the Networking Products Marketplace:

<http://www.cisco.com/en/US/partner/ordering/index.shtml>

- Nonregistered Cisco.com users can order documentation through a local account representative by calling Cisco Systems Corporate Headquarters (California, USA.) at 408 526-7208 or, elsewhere in North America, by calling 800 553-NETS (6387).

## Documentation Feedback

You can submit comments electronically on Cisco.com. On the Cisco Documentation home page, click **Feedback** at the top of the page.

You can send your comments in e-mail to [bug-doc@cisco.com](mailto:bug-doc@cisco.com).

You can submit comments by using the response card (if present) behind the front cover of your document or by writing to the following address:

Cisco Systems  
Attn: Customer Document Ordering  
170 West Tasman Drive  
San Jose, CA 95134-9883

We appreciate your comments.

## Obtaining Technical Assistance

For all customers, partners, resellers, and distributors who hold valid Cisco service contracts, the Cisco Technical Assistance Center (TAC) provides 24-hour, award-winning technical support services, online and over the phone. Cisco.com features the Cisco TAC website as an online starting point for technical assistance.

### Cisco TAC Website

The Cisco TAC website (<http://www.cisco.com/tac>) provides online documents and tools for troubleshooting and resolving technical issues with Cisco products and technologies. The Cisco TAC website is available 24 hours a day, 365 days a year.

Accessing all the tools on the Cisco TAC website requires a Cisco.com user ID and password. If you have a valid service contract but do not have a login ID or password, register at this URL:

<http://tools.cisco.com/RPF/register/register.do>

## Opening a TAC Case

The online TAC Case Open Tool (<http://www.cisco.com/tac/caseopen>) is the fastest way to open P3 and P4 cases. (Your network is minimally impaired or you require product information). After you describe your situation, the TAC Case Open Tool automatically recommends resources for an immediate solution. If your issue is not resolved using these recommendations, your case will be assigned to a Cisco TAC engineer.

For P1 or P2 cases (your production network is down or severely degraded) or if you do not have Internet access, contact Cisco TAC by telephone. Cisco TAC engineers are assigned immediately to P1 and P2 cases to help keep your business operations running smoothly.

To open a case by telephone, use one of the following numbers:

Asia-Pacific: +61 2 8446 7411 (Australia: 1 800 805 227)

EMEA: +32 2 704 55 55

USA: 1 800 553-2447

For a complete listing of Cisco TAC contacts, go to this URL:

<http://www.cisco.com/warp/public/687/Directory/DirTAC.shtml>

## TAC Case Priority Definitions

To ensure that all cases are reported in a standard format, Cisco has established case priority definitions.

Priority 1 (P1)—Your network is “down” or there is a critical impact to your business operations. You and Cisco will commit all necessary resources around the clock to resolve the situation.

Priority 2 (P2)—Operation of an existing network is severely degraded, or significant aspects of your business operation are negatively affected by inadequate performance of Cisco products. You and Cisco will commit full-time resources during normal business hours to resolve the situation.

Priority 3 (P3)—Operational performance of your network is impaired, but most business operations remain functional. You and Cisco will commit resources during normal business hours to restore service to satisfactory levels.

Priority 4 (P4)—You require information or assistance with Cisco product capabilities, installation, or configuration. There is little or no effect on your business operations.

## Obtaining Additional Publications and Information

Information about Cisco products, technologies, and network solutions is available from various online and printed sources.

- The *Cisco Product Catalog* describes the networking products offered by Cisco Systems, as well as ordering and customer support services. Access the *Cisco Product Catalog* at this URL:

[http://www.cisco.com/en/US/products/products\\_catalog\\_links\\_launch.html](http://www.cisco.com/en/US/products/products_catalog_links_launch.html)

- Cisco Press publishes a wide range of networking publications. Cisco suggests these titles for new and experienced users: *Internetworking Terms and Acronyms Dictionary*, *Internetworking Technology Handbook*, *Internetworking Troubleshooting Guide*, and the *Internetworking Design Guide*. For current Cisco Press titles and other information, go to Cisco Press online at this URL:

<http://www.ciscopress.com>

- Packet magazine is the Cisco quarterly publication that provides the latest networking trends, technology breakthroughs, and Cisco products and solutions to help industry professionals get the most from their networking investment. Included are networking deployment and troubleshooting tips, configuration examples, customer case studies, tutorials and training, certification information, and links to numerous in-depth online resources. You can access Packet magazine at this URL:  
<http://www.cisco.com/go/packet>
- iQ Magazine is the Cisco bimonthly publication that delivers the latest information about Internet business strategies for executives. You can access iQ Magazine at this URL:  
<http://www.cisco.com/go/iqmagazine>
- Internet Protocol Journal is a quarterly journal published by Cisco Systems for engineering professionals involved in designing, developing, and operating public and private internets and intranets. You can access the Internet Protocol Journal at this URL:  
[http://www.cisco.com/en/US/about/ac123/ac147/about\\_cisco\\_the\\_internet\\_protocol\\_journal.html](http://www.cisco.com/en/US/about/ac123/ac147/about_cisco_the_internet_protocol_journal.html)
- Training—Cisco offers world-class networking training. Current offerings in network training are listed at this URL:  
<http://www.cisco.com/en/US/learning/index.html>