



## Preface

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### Audience

This guide is for the networking professional who installs and manages the Cisco Aironet 1300 Series Outdoor Access Point/Bridge. The 1300 series access point/bridge is available in autonomous and lightweight configurations.

To use this guide with an autonomous access point/bridge, you should have experience working with Cisco IOS software and be familiar with the concepts and terminology of wireless local area networks.

To use this guide with lightweight access points, you should have experience working with a Cisco wireless LAN controller (hereafter called a *controller*) and be familiar with the concepts and terminology of wireless LANs.

### Purpose

This guide provides the information you need to install your autonomous or lightweight access point.

For detailed information about Cisco IOS commands used with autonomous access points, refer to the *Cisco IOS Command Reference for Cisco Aironet Access Points and Bridges* for this release. For information about the standard Cisco IOS Release 12.3 commands, refer to the Cisco IOS documentation set available from the Cisco.com home page at **Technical Support & Documentation**. On the Technical Support & Documentation home page, click **Cisco IOS Software > Cisco IOS Software Releases 12.3 Mainline**.

For information about controllers, refer to the Cisco documentation sets available from the Cisco.com home page at **Technical Support & Documentation**. On the Technical Support & Documentation home page, click **Wireless** and the documentation is listed under the “Wireless LAN Controllers” section.

### Organization

This guide contains the following sections:

[Chapter 1, “Overview,”](#) describes the major components, features, and specifications of the access point/bridge.

[Chapter 2, “Installation Overview,”](#) provides warnings, safety information, and information needed before you begin the installation of your access point/bridge system.

Chapter 3, “Mounting Overview,” provides an overview of components and features used during access point/bridge mounting and antenna alignment operations.

Chapter 4, “Troubleshooting Autonomous Access Points and Bridges,” provides solutions to potential problems encountered during setup of autonomous access points.

Chapter 5, “Troubleshooting Lightweight Access Points,” provides solutions to potential problems encountered during setup of lightweight access points.

Appendix A, “Translated Safety Warnings,” indicates how to access the document that provides translations of the safety warnings that appear in this publication.

Appendix B, “Declarations of Conformity and Regulatory Information,” describes the regulatory conventions to which the access point/bridge conforms and provides guidelines for operating access point/bridges in Japan.

Appendix C, “Access Point Specifications,” describes the channels and antenna settings supported by the regulatory organizations.

Appendix D, “Channels and Maximum Power Levels,” indicates how to access the document that lists the access point/bridge radio channels and the maximum power levels supported by the world’s regulatory domains.

Appendix E, “Console Serial Cable Pinouts,” identifies the pinouts for the serial cable that connects to the power injector’s console serial port.

Appendix F, “Priming Lightweight Access Points Prior to Deployment,” describes the procedure to prime lightweight access points with controller information.

Appendix G, “Configuring DHCP Option 43 for Lightweight Access Points,” describes the procedure to configure DHCP Option 43 for lightweight access points.

Appendix H, “Load-Dump Protection for Transportation Vehicles,” describes load-dump protection that is required for autonomous access point/bridge operation in some transportation vehicles

## Conventions

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

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



### Note

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

**Warning**

This warning symbol means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. (To see translations of the warnings that appear in this publication, refer to the appendix “Translated Safety Warnings.”)

**Waarschuwing**

Dit waarschuwingssymbool betekent gevaar. U verkeert in een situatie die lichamelijk letsel kan veroorzaken. Voordat u aan enige apparatuur gaat werken, dient u zich bewust te zijn van de bij elektrische schakelingen betrokken risico's en dient u op de hoogte te zijn van standaard maatregelen om ongelukken te voorkomen. (Voor vertalingen van de waarschuwingen die in deze publicatie verschijnen, kunt u het aanhangsel “Translated Safety Warnings” (Vertalingen van veiligheidsvoorschriften) raadplegen.)

**Varoitus**

Tämä varoitusmerkki merkitsee vaaraa. Olet tilanteessa, joka voi johtaa ruumiinvammaan. Ennen kuin työskentelet minkään laitteiston parissa, ota selvää sähkökytkentöihin liittyvistä vaaroista ja tavanomaisista onnettomuuksien ehkäisykeinoista. (Tässä julkaisussa esiintyvien varoitusten käännökset löydät liitteestä “Translated Safety Warnings” (käännetyt turvallisuutta koskevat varoitukset).)

**Attention**

Ce symbole d'avertissement indique un danger. Vous vous trouvez dans une situation pouvant entraîner des blessures. Avant d'accéder à cet équipement, soyez conscient des dangers posés par les circuits électriques et familiarisez-vous avec les procédures courantes de prévention des accidents. Pour obtenir les traductions des mises en garde figurant dans cette publication, veuillez consulter l'annexe intitulée « Translated Safety Warnings » (Traduction des avis de sécurité).

**Warnung**

Dieses Warnsymbol bedeutet Gefahr. Sie befinden sich in einer Situation, die zu einer Körperverletzung führen könnte. Bevor Sie mit der Arbeit an irgendeinem Gerät beginnen, seien Sie sich der mit elektrischen Stromkreisen verbundenen Gefahren und der Standardpraktiken zur Vermeidung von Unfällen bewußt. (Übersetzungen der in dieser Veröffentlichung enthaltenen Warnhinweise finden Sie im Anhang mit dem Titel “Translated Safety Warnings” (Übersetzung der Warnhinweise).)

**Avvertenza**

Questo simbolo di avvertenza indica un pericolo. Si è in una situazione che può causare infortuni. Prima di lavorare su qualsiasi apparecchiatura, occorre conoscere i pericoli relativi ai circuiti elettrici ed essere al corrente delle pratiche standard per la prevenzione di incidenti. La traduzione delle avvertenze riportate in questa pubblicazione si trova nell'appendice, “Translated Safety Warnings” (Traduzione delle avvertenze di sicurezza).

**Advarsel**

Dette varselsymbolet betyr fare. Du befinner deg i en situasjon som kan føre til personskade. Før du utfører arbeid på utstyr, må du være oppmerksom på de faremomentene som elektriske kretser innebærer, samt gjøre deg kjent med vanlig praksis når det gjelder å unngå ulykker. (Hvis du vil se oversettelser av de advarslene som finnes i denne publikasjonen, kan du se i vedlegget “Translated Safety Warnings” [Oversatte sikkerhetsadvarsler].)

**Aviso**

Este símbolo de aviso indica perigo. Encontra-se numa situação que lhe poderá causar danos físicos. Antes de começar a trabalhar com qualquer equipamento, familiarize-se com os perigos relacionados com circuitos eléctricos, e com quaisquer práticas comuns que possam prevenir possíveis acidentes. (Para ver as traduções dos avisos que constam desta publicação, consulte o apêndice “Translated Safety Warnings” - “Traduções dos Avisos de Segurança”).

- ¡Advertencia!** Este símbolo de aviso significa peligro. Existe riesgo para su integridad física. Antes de manipular cualquier equipo, considerar los riesgos que entraña la corriente eléctrica y familiarizarse con los procedimientos estándar de prevención de accidentes. (Para ver traducciones de las advertencias que aparecen en esta publicación, consultar el apéndice titulado "Translated Safety Warnings.")
- Varning!** Denna varningssymbol signalerar fara. Du befinner dig i en situation som kan leda till personskada. Innan du utför arbete på någon utrustning måste du vara medveten om farorna med elkretsar och känna till vanligt förfarande för att förebygga skador. (Se förklaringar av de varningar som förekommer i denna publikation i appendix "Translated Safety Warnings" [Översatta säkerhetsvarningar].)

## Related Publications

For more information about autonomous access point/bridges and related products, refer to the following publications:

- *Cisco IOS Software Configuration Guide for Access Points*
- *Cisco Aironet 1300 Series Outdoor Bridge Mounting Instructions*
- *Release Notes for Cisco Aironet Access Points*

For more information about lightweight access point/bridges and related products, refer to the following publications:

- *Quick Start Guide: Cisco Aironet Lightweight Access Points*
- *Cisco Wireless LAN Controller Configuration Guide*
- *Cisco Aironet 1300 Series Lightweight Outdoor Access Point Mounting Instructions*
- *Release Notes for Cisco Wireless LAN Controllers and Lightweight Access Points*

Click this link to browse to the Cisco Support page:

<http://www.cisco.com/cisco/web/support/index.html>

To browse to the 1300 series access point documentation, click **Cisco Aironet 1300 Series** listed under "Wireless LAN Access."

To browse to controller documentation, click **Cisco 4400 Series Wireless LAN Controllers** or **Cisco 2000 Series Wireless LAN Controllers** listed under "Wireless LAN Controllers."

## Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

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