



Preface

This preface describes who should read the *Catalyst 6500 Series and 7600 Series Firewall Services Module Installation and Configuration Note*, how it is organized, and its document conventions.



Note

Except where specifically differentiated, the term “Catalyst 6500 series switches” includes the Catalyst 6500 series switches and the Cisco 7600 Series Internet Router.

This publication does not contain the instructions to install the Catalyst 6500 series switch or Cisco 7600 Series Internet Router chassis. For information on installing the switch chassis, refer to the *Catalyst 6500 Series Installation Guide* or the *Catalyst 7600 Series Internet Router Installation Guide*.



Note

For translations of the warnings in this publication, see the [“Safety Overview” section on page 15](#).

Audience

Only trained and qualified service personnel (as defined in IEC 60950 and AS/NZS3260) should install, replace, or service the equipment described in this publication.

Organization

This publication is organized as follows:

Chapter	Title	Description
Chapter 1	Overview	Presents an overview of the Catalyst 6500 Series Firewall services module (FWSM).
Chapter 2	Installing the Firewall Services Module	Describes how to install the FWSM hardware.
Chapter 3	Getting Started	Describes how to configure the FWSM.
Chapter 4	Configuring Firewall Services	Describes how to configure firewall services on the FWSM.

Chapter	Title	Description
Chapter 5	Administering the Firewall Services Module	Describes how to administer and troubleshoot the FWSM.
Appendix A	Firewall Services Module and PIX Commands	Describes the differences between the FWSM and PIX.
Appendix B	Command Reference	Describes the FWSM commands.
Appendix C	System Messages	Lists and describes the system messages for the FWSM.

Conventions

This publication uses the following conventions:

Convention	Description
boldface font	Commands, command options and keywords are in boldface .
<i>italic font</i>	Arguments for which you supply values are in <i>italics</i> .
[]	Elements in square brackets are optional.
{ x y z }	Alternative keywords are grouped in braces and separated by vertical bars.
[x y z]	Optional alternative keywords are grouped in brackets and separated by vertical bars.
string	A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks.
screen font	Terminal sessions and information the system displays are in <code>screen font</code> .
boldface screen font	Information you must enter is in boldface screen font .
<i>italic screen font</i>	Arguments for which you supply values are in <i>italic screen font</i> .
^	The symbol ^ represents the key labeled Control—for example, the key combination ^D in a screen display means hold down the Control key while you press the D key.
< >	Nonprinting characters, such as passwords are in angle brackets.

Notes use the following conventions:



Note

Means *reader take note*. Notes contain helpful suggestions or references to material not covered in the publication.

Tips use the following conventions:



Tip

Means *the following information will help you solve a problem*. The tips information might not be troubleshooting or even an action, but it could be useful information, similar to a Timesaver.

Cautions use the following conventions:



Caution

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

Safety Overview

Safety warnings appear throughout this publication in procedures that, if performed incorrectly, may harm you. A warning symbol precedes each warning statement.



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 *Regulatory Compliance and Safety Information* document that accompanied this device.



Warning

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 document *Regulatory Compliance and Safety Information* (Informatie over naleving van veiligheids- en andere voorschriften) raadplegen dat bij dit toestel is ingesloten.



Warning

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 laitteen mukana olevasta *Regulatory Compliance and Safety Information* -kirjasesta (määräysten noudattaminen ja tietoa turvallisuudesta).



Warning

Attention Ce symbole d'avertissement indique un danger. Vous vous trouvez dans une situation pouvant causer des blessures ou des dommages corporels. Avant de travailler sur un équipement, soyez conscient des dangers posés par les circuits électriques et familiarisez-vous avec les procédures couramment utilisées pour éviter les accidents. Pour prendre connaissance des traductions d'avertissements figurant dans cette publication, consultez le document *Regulatory Compliance and Safety Information* (Conformité aux règlements et consignes de sécurité) qui accompagne cet appareil.



Warning

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 Dokument *Regulatory Compliance and Safety Information* (Informationen zu behördlichen Vorschriften und Sicherheit), das zusammen mit diesem Gerät geliefert wurde.



Warning

Avvertenza Questo simbolo di avvertenza indica un pericolo. La situazione potrebbe causare infortuni alle persone. 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 nel documento *Regulatory Compliance and Safety Information* (Conformità alle norme e informazioni sulla sicurezza) che accompagna questo dispositivo.



Warning

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 advarsler som finnes i denne publikasjonen, kan du se i dokumentet *Regulatory Compliance and Safety Information* (Overholdelse av forskrifter og sikkerhetsinformasjon) som ble levert med denne enheten.



Warning

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 documento *Regulatory Compliance and Safety Information* (Informação de Segurança e Disposições Reguladoras) que acompanha este dispositivo.



Warning

¡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 una traducción de las advertencias que aparecen en esta publicación, consultar el documento titulado *Regulatory Compliance and Safety Information* (Información sobre seguridad y conformidad con las disposiciones reglamentarias) que se acompaña con este dispositivo.

**Warning**

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 varedveten om farorna med elkretsar och känna till vanligt förfarande för att förebygga skador. Se förklaringar av de varningar som förekommer i denna publikation i dokumentet *Regulatory Compliance and Safety Information* (Efterrättelse av föreskrifter och säkerhetsinformation), vilket medföljer denna anordning.

Related Documentation

For more detailed installation and configuration information, refer to the following publications:

- For additional information about the Catalyst 6500 and Cisco 7600 Series Firewall Services Module, refer to the *Release Notes for Catalyst 6500 and Cisco 7600 Series Firewall Services Module Software Release 1.1*.
- For additional information about Catalyst 6500 series switches and command-line interface (CLI) commands, refer to the following:
 - Site Preparation and Safety Guide
 - Regulatory Compliance and Safety Information for the Catalyst 6500 Series and Cisco 7600 series Switches
 - *Catalyst 6500 Series Switch Installation Guide*
 - *Catalyst 6500 Series Switch Quick Software Configuration Guide*
 - *Catalyst 6500 Series Switch Module Installation Guide*
 - *Catalyst 6500 Series Switch Software Configuration Guide*
 - *Catalyst 6500 Series Switch Command Reference*
 - *Catalyst 6500 Series Switch Cisco IOS Software Configuration Guide*
 - *Catalyst 6500 Series Switch Cisco IOS Command Reference*
 - *ATM Software Configuration and Command Reference—Catalyst 5000 Family and Catalyst 6500 Series Switches*
 - *System Message Guide—Catalyst 6500 Series, 5000 Family, 4000 Family, 2926G Series, 2948G, and 2980G Switches*
 - For information about MIBs, refer to this URL:
<http://www.cisco.com/public/sw-center/netmgmt/cmtk/mibs.shtml>
 - Release Notes for Catalyst 6500 Series Switches and Cisco 7600 Internet Router for Cisco IOS Release 12.1(13)E
 - Cisco IOS Configuration Guides and Command References—Use these publications to help you configure the Cisco IOS software that runs on the MSFC and on the MSM and ATM modules.
 - For detailed hardware configuration and maintenance procedures, refer to the *Catalyst 6500 Family Module Installation Guide*.
- The following documents are available for the Catalyst 6500 family switches running Catalyst operating system software:
 - *Release Notes for Catalyst 6000 Family Software Release 7.x*

- *Catalyst 6500 Series Switch Documentation Map*
- *Catalyst 6500 Series Switch Configuration Guide (7.5)*
- *Catalyst 6500 Series Switch Command Reference (7.5)*
- *System Message Guide—Catalyst 6500 Series Switches (7.5)*
- For additional information about the PIX software, refer to the following:
 - *Cisco PIX Firewall Release Notes Version 6.1(1)*
 - *Cisco PIX Device Manager Installation Guide, Version 2.1*
 - *Cisco PIX 501 Firewall Quick Start Guide*
 - *Cisco PIX Firewall Hardware Installation Guide*
 - *Cisco PIX Device Manager Installation Guide*
 - *Cisco PIX Firewall and VPN Configuration Guide*
 - *Cisco PIX Firewall Command Reference*
 - *Cisco PIX Firewall System Log Messages*

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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