



Preface

This preface describes who should read the *Cisco 7600 Series Routers Module Guide*, how it is organized, and its document conventions.

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.

Document Revision History

The Document Revision History table below records technical changes to this document. The table shows the document revision number for the change, the date of the change, and a brief summary of the change. Note that not all Cisco documents use a Document Revision History table.

Revision	Date	Change Summary
OL-9302-04	October 2008	Added ES+ line cards
OL-9302-03	January 2008	Added 8-Port Gigabit Ethernet Switching Modules
OL-9302-02	February 2007	Added: <ul style="list-style-type: none">Ethernet Services 20G (ES20) line cardsApplication Control Engine (ACE) module
OL-9302-01	June, 2006	Initial release

Organization

This publication is organized as follows:

Chapter	Title	Description
Chapter 1	Modules Overview	Provides an overview of the Cisco 7600 series routers modules.
Chapter 2	Ethernet and Gigabit Ethernet Switching Modules	Describes the Ethernet and Gigabit Ethernet switching modules and provides LED descriptions for these modules.

Chapter	Title	Description
Chapter 3	ATM Modules	Describes the ATM modules and provides LED descriptions for these modules.
Chapter 4	FlexWAN Module and Enhanced FlexWAN Modules	Describes the FlexWAN Module.
Chapter 5	Multilayer Switch Module	Describes the Multilayer Switch Module (MSM).
Chapter 6	Network Analysis Modules	Describes the Network Analysis Modules (NAMs).
Chapter 7	Firewall Services Module	Describes the Firewall Services Module.
Chapter 8	IPSec VPN Acceleration Services Module	Describes the IPSec VPN Acceleration Services Module.
Chapter 9	Intrusion Detection System Module	Describes the Intrusion Detection System Module.
Chapter 10	Content Switching Module	Describes the Content Switching Module.
Chapter 11	Switch Fabric Modules	Describes the Switch Fabric Modules.
Chapter 12	Voice-Related Modules	Describes the voice-related modules.
Chapter 13	Cisco 7600 Series Ethernet Services 20G Line Cards	Describes the ES20 line cards.
Chapter 14	Cisco Application Control Engine Module	Describes the Application Control Engine module.
Chapter 15	Cisco 7600 Ethernet Services Plus Line Cards	Describes the ES+ line cards.
Appendix A	Technical Specifications	Lists the technical specifications for the Cisco 7600 series routers modules.
Appendix B	Translated Safety Warnings	Lists the translated safety warnings.

Conventions

This publication uses the following conventions:

Convention	Description
boldface font	Commands, command options, and keywords are in boldface .
<i>italic</i> font	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> .

Convention	Description
^	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.

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.

Related Documentation

For instructions on installing and configuring Cisco 7600 series routers, refer to these publications:

- *Regulatory Compliance and Safety Information for the Cisco 7600 Series Routers*
- *Cisco 7609 Router Installation Guide*
- *Cisco 7600 Series Router Module Installation Guide*
- *Cisco 7600 Series Router Quick Software Configuration Guide*
- *Cisco 7600 Series Router Software Configuration Guide*
- *Cisco 7600 Series Router IOS Command Reference*
- *Cisco 7600 Series Router IOS System Message Guide*
- *Cisco 7600 Series Router IOS Software Configuration Guide*
- *Cisco 7600 Series Router IOS Command Reference*
- *Cisco 7600 Series Router IOS System Message Guide*
- *Installation Note for the CWDM Passive Optical System*
- *Cisco 7600 Series Router SIP, SSC, and SPA Hardware Installation Guide*
- *Cisco 7600 Series Router SIP, SSC, and SPA Software Configuration Guide*

For information about MIBs, refer to the following World Wide Web site:

<http://www.cisco.com/public/sw-center/netmgmt/cmtk/mibs.shtml>

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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