



About This Book

This preface describes who should read the *Cisco Content Services Gateway - 2nd Generation Release 5.0 Installation and Configuration Guide*, Cisco IOS Release 12.4(24)MDA11, how it is organized, and its document conventions.

This publication does not contain instructions for installing the Cisco 7600 series router. For information on installing the router, see the Installation Guide that came with your router.

Document Revision History

The following table lists the major changes made to this document each release, with the most recent changes listed first.

Revision	Date	Change Summary
OL-22840-06	November 6, 2011	Added the following features: <ul style="list-style-type: none">• Accelerated Flows, page 54<ul style="list-style-type: none">– Optimized Selection of TCP and UDP Transactions for Acceleration– Upstream and Downstream Acceleration for HTTP Transactions
OL-22840-05	February 1, 2011	Added the following features: <ul style="list-style-type: none">• Regular Expression Match Capacity Increase for Contents—For maps, the CSG2 supports:<ul style="list-style-type: none">– Up to 1408 match patterns per map– Up to 1408 total match patterns per policy– Up to 1408 total match patterns per content– Up to 8192 total match patterns per CSG2 (assuming there is enough memory available)
OL-22840-04	January 3, 2011	Added the following features: <ul style="list-style-type: none">• Configuring a Service Lifetime, page 4

Revision	Date	Change Summary
OL-22840-03	October 6, 2010	Added the following features: <ul style="list-style-type: none"> • Accelerated Flows, page 54—FTP, RTSP, and SIP Support • Configuring Packet Logging and Reporting, page 56—Support for IPv6 and Dual-Stack Addresses • HTTP Header Insertion, page 25—Support for IPv6 and Dual-Stack Addresses
OL-22840-02	May 24, 2010	Added the following features: <ul style="list-style-type: none"> • Accelerated Flows, page 54—Accelerated Virtual Prepaid • Configurable Regex Memory, page 37 • Configurable URL Map Normalization, page 38 • Configuring RADIUS Proxy, page 2—Reuse of Idle RADIUS Proxy Ports • RTSP TEARDOWN Reply Delay, page 32 • User Session Continuation After PCRF Timeout, page 16
OL-22840-01	May 24, 2010	First publication.

Audience

This publication is designed for network administrators and other people who are responsible for setting up, installing, configuring, and operating the CSG2.

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	Description
Chapter 1, “Overview”	Presents an overview of the Cisco Content Services Gateway 2 (CSG2).
Chapter 2, “Configuring the CSG2”	Describes how to configure VLANs, virtual servers, billing, and other configuration tasks on the CSG2.
Chapter 3, “Configuring BMA Support”	Describes Billing Mediation Agent (BMA) features and configuration details.
Chapter 4, “Configuring Quota Server Support”	Describes quota server features and configuration details.
Chapter 5, “Configuring Service Support”	Describes content billing service features and configuration details.
Chapter 6, “Configuring IPC Support”	Describes Interprocessor Communication (IPC) features and configuration details.
Chapter 7, “Configuring PSD Support”	Describes Cisco Persistent Storage Device (PSD) features and configuration details.

Chapter	Description
Chapter 8, “Configuring iSCSI Support”	Describes Internet Small Computer Systems Interface (iSCSI) features and configuration details.
Chapter 9, “Configuring RADIUS Support”	Describes RADIUS features and configuration details.
Chapter 10, “Configuring Gx Support”	Describes Gx features and configuration details.
Chapter 11, “Configuring Mobile PCC Support”	Describes Mobile Policy Control & Charging (PCC) features and configuration details.
Chapter 12, “Configuring Prepaid Support”	Describes prepaid features and configuration details.
Appendix A, “CSG2 Command Reference”	Describes the commands that allow you to set up and monitor content billing on the CSG2.
Appendix B, “Field Descriptions for CSG2 Statistics”	Describes each of the fields in the output of the show ip csg stats command.
Appendix C, “CSG2 Command History—CSG1 R7 to CSG2 R1”	Describes the changes to commands between the CSG1 and the CSG2 Release 1.
Appendix D, “CSG2 Command History—CSG2 R1 to CSG2 R2”	Describes the changes to commands between the CSG2 Release 1 and the CSG2 Release 2.
Appendix E, “CSG2 Command History—CSG2 R2 to CSG2 R3”	Describes the changes to commands between the CSG2 Release 2 and the CSG2 Release 3.
Appendix F, “CSG2 Command History—CSG2 R3 to CSG2 R3.5”	Describes the changes to commands between the CSG2 Release 3 and the CSG2 Release 3.5.
Appendix G, “CSG2 Command History—CSG2 R3.5 to CSG2 R4”	Describes the changes to commands between the CSG2 Release 3.5 and the CSG2 Release 4.
Appendix H, “CSG2 Command History—CSG2 R4 to CSG2 R5”	Describes the changes to commands between the CSG2 Release 4 and the CSG2 Release 5.
Appendix I, “Protocol Compliance Statements for the CSG2”	Provides protocol compliance statements for the CSG2.
Appendix J, “CSG2 System Messages”	Lists and describes Cisco CSG2, Cisco SAMI, and iSCSI system messages.
Appendix K, “Monitoring Notifications”	Describes enabling and monitoring CSG2 SNMP notifications in order to manage CSG2-related issues.

Conventions

This publication uses the following conventions:

Convention	Description
boldface font	Commands 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.

Convention	Description
[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 that the system displays are in <code>screen font</code> .
boldface screen font	Information that 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 could be useful information.

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 more detailed installation and configuration information, see the following publications:

- *Release Notes for Cisco Content Services Gateway - 2nd Generation Release 5*, Cisco IOS Release 12.4(24)MD1
- *Service and Application Module for IP User Guide*
- *Diameter Credit Control Application feature guide*:
http://www.cisco.com/en/US/docs/ios/12_4t/12_4t11/ht_diam.html

- *Cisco IOS Security Command Reference*, Cisco IOS 12.4
- *Cisco Mobile Policy Control & Charging Infrastructure for Mobile Gateways*
- *Cisco IOS Network Management Configuration Guide*
- *Release Notes for Cisco IOS Release 12.2SR for the Cisco 7600 Series Routers*
- Cisco 7600 Series Cisco IOS Software Configuration Guide
- Cisco 7600 Series Cisco IOS Command Reference
- *Cisco IOS Quality of Service Solutions Configuration Guide*, Cisco IOS Release 12.4
- For information about MIBs, see:
<http://www.cisco.com/public/sw-center/netmgmt/cmtk/mibs.shtml>
- Cisco IOS Configuration Guides and Command References, Release 12.2—Use these publications to help you configure the Cisco IOS software that runs on the MSFC and on the MSM and ATM modules.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see *What's New in Cisco Product Documentation* at:
<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>.

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