



Preface

This guide provides instructions for configuring the SSL features of the Cisco 11500 Series Content Services Switches (CSS) and the compression HTTP response data to a client through the SSL compression module. Information in this guide applies to all CSS models except where noted.

The CSS software is available in a Standard or optional Enhanced feature set. Proximity Database and Secure Management, which includes Secure Shell Host and SSL strong encryption, are optional features.

This preface contains the following major sections:

- [Audience](#)
- [How to Use This Guide](#)
- [Related Documentation](#)
- [Symbols and Conventions](#)
- [Obtaining Documentation, Obtaining Support, and Security Guidelines](#)

Audience

This guide is intended for the following trained and qualified service personnel who are responsible for configuring the CSS:

- Web master
- System administrator
- System operator

How to Use This Guide

This guide is organized as follows:

Chapter	Description
Chapter 1, Overview of CSS SSL	Overview of SSL cryptography and the CSS SSL features.
Chapter 2, SSL Configuration Quick Starts	Configure the CSS SSL features quickly and easily using procedural tables with command examples followed by running-config examples for each table.
Chapter 3, Configuring SSL Certificates and Keys	Import, create, and associate certificates and key pairs.
Chapter 4, Configuring SSL Termination	Configure the CSS and the SSL Acceleration Module to perform Secure Sockets Layer (SSL) termination between the client and the Web servers.
Chapter 5, Configuring Back-End SSL	Configure the CSS and the SSL Acceleration Module to accept SSL encrypted data from a client, decrypt the data to make a load-balancing decision, then reencrypt the data and send it to a back-end SSL server.

Chapter	Description
Chapter 6, Configuring SSL Initiation	Configure the CSS and the SSL Acceleration Module to accept clear text from a client and perform SSL encryption between the CSS and the Web servers.
Chapter 7, Displaying SSL Configuration Information and Statistics	Display data and statistics related to your CSS SSL configuration.
Chapter 8, Examples of CSS SSL Configurations	Description of SSL flow processing in the CSS and running-config examples of the various SSL configurations available on a CSS.
Chapter 9, Configuring HTTP Compression	Configure the CSS and the SSL compression module to compress HTTP response data to a client.

Related Documentation

In addition to this guide, the Content Services Switch documentation includes the following publications.

Document Title	Description
<i>Release Note for the Cisco 11500 Series Content Services Switch</i>	This release note provides information on operating considerations, caveats, and command line interface (CLI) commands for the Cisco 11500 series CSS.
<i>Cisco 11500 Series Content Services Switch Hardware Installation Guide</i>	This guide provides information for installing, cabling, and powering the Cisco 11500 series CSS. In addition, this guide provides information about CSS specifications, cable pinouts, and hardware troubleshooting.

Document Title	Description
<i>Cisco Content Services Switch Getting Started Guide</i>	<p>This guide describes how to perform initial administration and configuration tasks on the CSS, including:</p> <ul style="list-style-type: none"> • Booting the CSS for the first time and a routine basis, and logging in to the CSS • Configuring the username and password, Ethernet management port, static IP routes, and the date and time • Configuring DNS server for hostname resolution • Configuring sticky cookies with a sticky overview and advanced load-balancing method using cookies • Installing the CSS Cisco View Device Manager (CVDM) browser-based user interface used to configure the CSS • A task list to help you find information in the CSS documentation • Troubleshooting the boot process
<i>Cisco Content Services Switch Administration Guide</i>	<p>This guide describes how to perform administrative tasks on the CSS, including upgrading your CSS software and configuring the following:</p> <ul style="list-style-type: none"> • Logging, including displaying log messages and interpreting sys.log messages • User profile and CSS parameters • SNMP • RMON • XML documents to configure the CSS • CSS scripting language • Offline Diagnostic Monitor (Offline DM) menu

Document Title	Description
<i>Cisco Content Services Switch Routing and Bridging Configuration Guide</i>	<p>This guide describes how to perform routing and bridging configuration tasks on the CSS, including:</p> <ul style="list-style-type: none">• Management ports, interfaces, and circuits• Spanning-tree bridging• Address Resolution Protocol (ARP)• Routing Information Protocol (RIP)• Internet Protocol (IP)• Open Shortest Path First (OSPF) protocol• Cisco Discovery Protocol (CDP)• Dynamic Host Configuration Protocol (DHCP) relay agent
<i>Cisco Content Services Switch Content Load-Balancing Configuration Guide</i>	<p>This guide describes how to perform CSS content load-balancing configuration tasks, including:</p> <ul style="list-style-type: none">• Flow and port mapping• Services• Service, global, and script keepalives• Source groups• Loads for services• Server/Application State Protocol (SASP)• Dynamic Feedback Protocol (DFP)• Owners• Content rules• Sticky parameters• HTTP header load balancing• Content caching• Content replication

Document Title	Description
<i>Cisco Content Services Switch Global Server Load-Balancing Configuration Guide</i>	<p>This guide describes how to perform CSS global load-balancing configuration tasks, including:</p> <ul style="list-style-type: none"> • Domain Name System (DNS) • DNS Sticky • Content Routing Agent • Client-Side Accelerator • Network proximity
<i>Cisco Content Services Switch Redundancy Configuration Guide</i>	<p>This guide describes how to perform CSS redundancy configuration tasks, including:</p> <ul style="list-style-type: none"> • VIP and virtual interface redundancy • Adaptive session redundancy • Box-to-box redundancy
<i>Cisco Content Services Switch Security Configuration Guide</i>	<p>This guide describes how to perform CSS security configuration tasks, including:</p> <ul style="list-style-type: none"> • Controlling access to the CSS • Secure Shell Daemon protocol • Radius • TACACS+ • Firewall load balancing
<i>Cisco Content Services Switch Command Reference</i>	<p>This reference provides an alphabetical list of all CLI commands including syntax, options, and related commands.</p>

Symbols and Conventions

This guide uses the following symbols and conventions to identify different types of information.



Caution

A caution means that a specific action you take could cause a loss of data or adversely impact use of the equipment.



Warning

A warning describes an action that could cause you physical harm or damage the equipment.



Note

A note provides important related information, reminders, and recommendations.

Bold text indicates a command in a paragraph.

Courier text indicates text that appears on a command line, including the CLI prompt.

Courier bold text indicates commands and text you enter in a command line.

Italics text indicates the first occurrence of a new term, book title, emphasized text, and variables for which you supply values.

1. A numbered list indicates that the order of the list items is important.
 - a. An alphabetical list indicates that the order of the secondary list items is important.
- A bulleted list indicates that the order of the list topics is unimportant.
 - An indented list indicates that the order of the list subtopics is unimportant.

Obtaining Documentation, Obtaining Support, and Security Guidelines

For information on obtaining documentation, obtaining support, providing documentation feedback, security guidelines, and also recommended aliases and general Cisco documents, 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>