



# Cisco CSS 11501 Content Services Switch with Secure Sockets Layer Termination and Cisco WebNS Software Version 7.20

## Cisco Systems Announces Availability of the Cisco CSS 11501 Content Services Switch with SSL Termination and Cisco WebNS Software Version 7.20

Cisco® WebNS Software Version 7.20 delivers support for a new Cisco CSS 11501 model with Secure Sockets Layer (SSL) termination and new features for the Cisco CSS 11500 Series such as backend SSL for end-to-end security. The software has also been tuned to boost flow setup performance by 20 percent for both SSL and non-SSL traffic.

The Cisco CSS 11500 Series Content Services Switch is a compact, modular platform that delivers rich Layer 4 to Layer 7 traffic management services for e-business applications. The Cisco CSS 11501 and Cisco CSS 11501 with SSL termination are both 1-rack unit fixed-configuration models appropriate for small data-center applications. Both support eight 10/100 Ethernet ports and one gigabit Ethernet port through an optional Small Form-Factor Pluggable (SFP) gigabit interface converter (GBIC). The Cisco CSS 11501 with SSL termination delivers 800 SSL transactions per second and 200 Mbps of bulk encryption (ARC4) by exploiting an internal card with the latest cryptology chips. (Performance

results are for full SSL handshakes: 64-byte page and no caching of SSL session IDs.) The Cisco CSS 11501 purchased without SSL termination may not subsequently be upgraded in the field to support SSL termination.

The Cisco CSS 11500 Series also includes the 2-rack-unit, 3-slot Cisco CSS 11503 and the 5-rack-unit, 6-slot Cisco CSS 11506. The Cisco CSS 11503 and 11506 are designed for medium-sized and large data centers. The Cisco CSS 11503 offers integrated SSL termination, 2 to 6 gigabit Ethernet ports, modularity, and up to three times the performance of the Cisco CSS 11501. The Cisco CSS 11506 offers all the functions of the Cisco CSS 11503 plus three additional slots, redundant power, switch fabrics, and switch control.



## Software Features and Performance

Cisco WebNS Software 7.20 supports all the features of Cisco WebNS Software 7.10 and the following new features:

- Backend SSL delivers end-to-end security by enabling encryption and authentication of not only client-to-switch SSL session but also switch-to-server SSL sessions.
- URL rewrite simplifies integration of the CSS in SSL environments by rewriting the URL of server redirects from HTTP to HTTPS.
- Switched Port Analyzer (SPAN) or port mirroring is useful for network analysis—a copy of the packets received or transmitted by a source port is sent to a designated destination port.
- Packet defragmentation for UDP reassembles fragmented UDP packets, enabling an additional option for handling fragmented packets produced by such applications as streaming media.
- Modem support through a console port provides the option of out-of-band command-line interface (CLI) management through a modem, providing flexibility for remote administration.

In addition to these features, flow setup performance for both SSL and non-SSL traffic has been improved for Cisco WebNS Software 7.20. Layer 4, SSL, and Layer 7 setup rates have been increased by 20 percent over the previous release. A Cisco CSS 11506 can now achieve more than 45,000 TCP connections per second and, if configured with 4 SSL modules, can attain over 4000 SSL transactions per second.

Cisco WebNS Software 7.20 includes the standard and enhanced feature sets, and all three Cisco CSS 11500 Series models run both feature sets.

The enhanced feature set includes the commands of the standard feature set and the commands for Network Address Translation (NAT) peering, Domain Name System (DNS), demand-based content replication (dynamic hot content overflow), content staging and replication, and network proximity DNS.

## Platform Support

Cisco WebNS Software 7.20 runs on all models in the Cisco CSS 11500 Series. The Cisco CSS 11800, 11150, and 11050 are currently supported in Cisco WebNS Software 5.00.

Some features have been adapted for the Cisco CSS 11501. Two ports are recommended or required for some Cisco WebNS features, such as Adaptive Session Redundancy (stateful failover) and port mirroring. Because the Cisco CSS 11501 has a single gigabit Ethernet port, these features are supported only on the Fast Ethernet ports on the Cisco CSS 11501.



## Ordering Information

Table 1 includes all product numbers for Cisco WebNS Software 7.20 and the Cisco CSS 11501.

The Cisco CSS 11501 has a unique chassis part number, but options such as disks, cables, and SFP GBICs use the same part numbers as other models in the Cisco CSS 11500 Series. These part numbers start with CSS5-HD, CSS5-FD, CSS5-GBIC, and CSS5-CAB. Secure Telnet, secure FTP, SSL termination, and the secure Cisco CSS management GUI require the Cisco WebNS Secure Management Software License for strong encryption to be enabled.

For customer convenience and supportability, registration for Cisco WebNS Software 7.20 and subsequent versions is available through an online registration system to facilitate obtaining license keys for a Cisco CSS software feature upgrade. Software upgrades for the CSS WebNS software include the enhanced feature set and strong encryption license. Every Cisco CSS 11500 Series configured with Cisco WebNS Software 7.20 and later will ship with a license claim certificate that includes complete instructions for obtaining keys and the URL for the online registration.

Table 1 Product Numbers for Cisco WebNS Software 7.20 and the Cisco CSS 11501

Product Number	Description
<b>CSS11501S-K9</b>	Cisco CSS 11501 Content Services Switch with SSL, hard disk, and AC
<b>S11K-501ST-7.2</b>	Cisco WebNS V7.2X Standard Feature Set for Cisco CSS 11501
<b>S11K-501EN-7.2</b>	Cisco WebNS V7.2X Enhanced Feature Set for Cisco CSS 11501
<b>S11K-503ST-7.2</b>	Cisco WebNS V7.2X Standard Feature Set for Cisco CSS 11503
<b>S11K-503EN-7.2</b>	Cisco WebNS V7.2X Enhanced Feature Set for Cisco CSS 11503
<b>S11K-506ST-7.2</b>	Cisco WebNS V7.2X Standard Feature Set for Cisco CSS 11506
<b>S11K-506EN-7.2</b>	Cisco WebNS V7.2X Enhanced Feature Set for Cisco CSS 11506
<b>S11K-SEC-K9</b>	WebNS Secure Management License: enables strong encryption
<b>S11K-LLC-7</b>	WebNS License Claim Certificate: V7.20 and later

## Additional Information

For product literature and technical documentation, visit: <http://www.cisco.com/go/css11500>



Corporate Headquarters  
Cisco Systems, Inc.  
170 West Tasman Drive  
San Jose, CA 95134-1706  
USA  
www.cisco.com  
Tel: 408 526-4000  
800 553-NETS (6387)  
Fax: 408 526-4100

European Headquarters  
Cisco Systems International BV  
Haarlerbergpark  
Haarlerbergweg 13-19  
1101 CH Amsterdam  
The Netherlands  
www-europe.cisco.com  
Tel: 31 0 20 357 1000  
Fax: 31 0 20 357 1100

Americas Headquarters  
Cisco Systems, Inc.  
170 West Tasman Drive  
San Jose, CA 95134-1706  
USA  
www.cisco.com  
Tel: 408 526-7660  
Fax: 408 527-0883

Asia Pacific Headquarters  
Cisco Systems, Inc.  
Capital Tower  
168 Robinson Road  
#22-01 to #29-01  
Singapore 068912  
www.cisco.com  
Tel: +65 6317 7777  
Fax: +65 6317 7799

Cisco Systems has more than 200 offices in the following countries and regions. Addresses, phone numbers, and fax numbers are listed on the  
**Cisco Web site at [www.cisco.com/go/offices](http://www.cisco.com/go/offices)**

Argentina • Australia • Austria • Belgium • Brazil • Bulgaria • Canada • Chile • China PRC • Colombia • Costa Rica • Croatia  
Czech Republic • Denmark • Dubai, UAE • Finland • France • Germany • Greece • Hong Kong SAR • Hungary • India • Indonesia • Ireland  
Israel • Italy • Japan • Korea • Luxembourg • Malaysia • Mexico • The Netherlands • New Zealand • Norway • Peru • Philippines • Poland  
Portugal • Puerto Rico • Romania • Russia • Saudi Arabia • Scotland • Singapore • Slovakia • Slovenia • South Africa • Spain • Sweden  
Switzerland • Taiwan • Thailand • Turkey • Ukraine • United Kingdom • United States • Venezuela • Vietnam • Zimbabwe

Copyright © 2003 Cisco Systems, Inc. All rights reserved. CCIP, CCSP, the Cisco Powered Network mark, the Cisco Systems Verified logo, Cisco Unity, Follow Me Browsing, FormShare, iQ Net Readiness Scorecard, Networking Academy, and ScriptShare are trademarks of Cisco Systems, Inc.; Changing the Way We Work, Live, Play, and Learn, The Fastest Way to Increase Your Internet Quotient, and iQuick Study are service marks of Cisco Systems, Inc.; and Aironet, ASIST, BPX, Catalyst, CCDA, CCDP, CCIE, CCNA, CCNP, Cisco, the Cisco Certified Internetwork Expert logo, Cisco IOS, the Cisco IOS logo, Cisco Press, Cisco Systems, Cisco Systems Capital, the Cisco Systems logo, Empowering the Internet Generation, Enterprise/Solver, EtherChannel, EtherSwitch, Fast Step, GigaStack, Internet Quotient, IOS, IP/TV, iQ Expertise, the iQ logo, LightStream, MGX, MICA, the Networkers logo, Network Registrar, Packet, PIX, Post-Routing, Pre-Routing, RateMUX, Registrar, SlideCast, SMARTnet, StrataView Plus, Stratm, SwitchProbe, TeleRouter, TransPath, and VCO are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the U.S. and certain other countries.

All other trademarks mentioned in this document or Web site are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company.  
(0303R)

Printed in the USA