Content Networking

Content Networking at a Glance

Product	Features	Page
Cisco Content Engine 500 Series	Content services edge delivery platform for Enterprise networks	6-2
	• Functions as edge node device in an Application and Content Networking (ACN) system	
	• Responsible for delivery of cached or distributed content to the end-user	
	• Enables customers to rapidly deliver strategic applications to branch personnel including web application and content acceleration, content filtering and business video	
	• Lays the foundation for advanced services such as e-learning and point of sale video delivery.	
Cisco Content Engine 7300 Series	Content services platform for Enterprise data center and Service Provider networks	6-2
	• Offers premium hosting services	
	• Caching capabilities optimize Web site performance and WAN bandwidth utilization	
	• Offers transparent and Internet proxy caching, Content Filtering and ECDN capabilities in a single platform	
	• Accelerates both HTTP and streaming media file formats	
Content Engine Network Modules	Content services edge delivery network module for 2600, 3600, 3700 branch routers	6-2
	• Functions as edge node device in an Application and Content Networking (ACN) system	
	• Enables delivery of new applications and services via a Cisco branch router with no performance degradation of core routing services	
	• Allows rapid delivery of strategic applications to branch personnel including web application and content acceleration, content filtering and business video	
Cisco 11500 Series Content Services Switches	• Provides an intelligent, distributed architecture to scale for today's e-business infrastructure	6-4
	• Offers Adaptive Session Redundancy (ASR)—a new industry standard in stateful failover	
	• Delivers the greatest flexibility of any content switch in its class for customizing combinations of ports, performance, and services	
Cisco Content Distribution Manager (CDM)	Content networking policy and management device	6-5
	• Central control over acquisition and distribution of content in the network, including live video, video on demand, and software updates	
	• Web-based GUI provides integrated management over caching and content delivery functions such as multicast replication, intelligent cache bypass and bandwidth management	
	• Roles based access control securely enables multiple administrators and content publishers across the organization	
Cisco Content Router	• Integrated global load balancing solution for content delivery networks	6-7
	• Uses HTTP to redirect a client to the best site on the Internet based on network delay	
	• Transparently redirection that works with any IP application	
	• Extremely fast site-selection algorithm is optimized for high performance Web-style transactions	
Content Switching Module (CSM) for the Catalyst 6500 Series Switches	High performance Content Switching line card for Catalyst 6500	6-8
	• L4 and L7, Firewall, VPN, Cache and Server load balancing	
	• Intelligently balances client traffic across multiple devices	
	• Full State and Sticky State redundancy; Full Regular Expression support	
Cisco SSL Module for Catalyst 6500	• Offloads SSL encryption and decryption	6-9
	• Scalable performance	
	• Stickyness	
Cisco 11000 Series Secure Content Accelerator (SCA 11000)	• Offloads SSL encryption/decryption from Web servers	6-10
	• Supports 200 new SSL connections and 900 sustained SSL sessions per second	
	• Interoperates with the CSS 11000 for intelligent load balancing of SSL traffic	
Cisco DistributedDirector	• Solves distributed server site selection problems. Enables a set of distributed servers to be seen as a single virtual server	6-11
	• Uses DNS to redirect a client to the best site on the Internet based on a variety of options	
	• Configurable as authoritative Domain Name Services (DNS) caching name server and/or HTTP Session Redirector on a per-domain basis	
Cisco GSS 4480 Global Site Selector	• Delivers global load balancing for multiple data centers	6-12
	• Offloads Domain Named System (DNS) servers by doing DNS resolution	
	• Scales to support hundreds of data centers or server load balancers (SLBs)	

Content Networking Overview

Cisco Content Networking solutions are designed to optimize the delivery of content to end users. To accomplish this, Cisco offers solutions for both data center and edge delivery with industry-leading products in both categories.

In the data center, Cisco Content Switching, or L4-7 Switching, solutions optimizes a network to dynamically enable faster responses to Web requests and decrease network bandwidth congestion. Content switching, or intelligent load balancing, insures high levels of content availability and security, and leverages investment in Cisco IP infrastructure.

Cisco's Application and Content Networking (ACN) System allows enterprises to accelerate mission critical web applications such as Siebel and SAP, block viruses and inappropriate web sites and deliver business video, while laying the foundation for advanced services such as e-learning and point of sale video delivery.

Cisco Content Engines (CE)

Within Cisco's content-networking solutions portfolio, the Cisco Application and Content Networking System (ACNS) Software enables a variety of services that optimize delivery of Web applications and content from the network edge to ensure enhanced speed, availability, and performance for users. ACNS Software combines the technologies of transparent caching and enterprise content-delivery network (ECDN) for accelerated delivery of Web objects, files, and streaming media from a single intelligent edge appliance, Cisco CE.

The Cisco ECDN solution provides a platform that delivers immediate benefits from entry-level applications such as content and business application acceleration and URL filtering, while laying the foundation for advanced services such as business video and e-learning.

When to Sell

Sell This Product	When a Customer Needs These Features
Content Engine 7325A	• Ultra high-end content delivery capabilities for advanced applications such as streaming media, e-learning, and corporate communications
Content Engine 7305A	• High-end content delivery capabilities for advanced applications such as streaming media, e-learning, and corporate communications
Content Engine 566	• Mid-range branch office and datacenter cache ideal for transparent caching, URL filtering, and edge content delivery
Content Engine 511	• Entry-level transparent caching and URL filtering capabilities along with limited content delivery
Content Engine Network Modules	• Router-integrated caching and content delivery network modules for 2600, 3600, 3700 branch access routers

Key Features

- Caching/Web Application Acceleration—Provides accelerated content delivery, improved performance of web-based business applications, WAN bandwidth cost savings, and protection vs. uncontrollable bottlenecks
- Content Filtering—Enables administrators to block, monitor, and report on end users' access to non-business and objectionable content (uses N2H2 Internet Filtering Protocol, Secure Computing SmartFilter, or Websense Enterprise Software)
- Content Delivery—Use in conjunction with Cisco Content Distribution Manager to enable rich media e-learning and corporate communications; deliver new premium hosting services such as on-demand content delivery and streaming media; and, to scale Web sites

Competitive Products

- Blue Coat: Blue Coat Server Accelerator 700 and 7000 Series and Blue Coat Systems Director
- Volera: Excelerator, Media Excelerator, Secure Excelerator
- Network Appliance: NetCache C1200/2100/6100 Series Appliances and Content Director

Specifications

Feature	7325A	7305A	566	511	Network Module	SA-7340
Supported Interfaces	Two 10/100/1000BASE-T X	Two 10/100/1000BASE-T X	Two 10/100/1000BASE-T X	Two 10/100/1000BASE-T X	One internal 10/100-Mbps Ethernet to router backplane; one external 10/100-Mbps Ethernet	
SDRAM	4 GB	2 GB	1 GB	512 MB	Up to 512 MB	
Max Storage	1,440 GB; U320 SCSI	936 GB; U320 SCSI	396 GB; U320 SCSI	160 GB; SATA	80 GB; IDE	1,008 GB; U320 SCSI
Maximum Internal Storage	432 GB; U320 SCSI	432 GB; U320 SCSI	144 GB; U320 SCSI	160 GB; SATA	40 GB or 80 GB; IDE	1, 008 GB; U320 SCSI
Flash Memory	128 MB	128 MB	128 MB	128 MB	16 MB internal; optional Compact Flash Memory	
Storage Array Support	Yes	Yes	Yes[1]	No	No	
Rack Units	2 RU	2 RU	1 RU	1 RU	N/A	3 RU
Dimensions (HxWXD)	3.36 x 17.46 x 27.48 in	3.36 x 17.46 x 27.48 in.	1.72 x 17.3 x 20 in.	1.72 x 17.3 x 20 in.	One slot in 2600/3600/3700 chassis	5.0 x 17.5 x 21.8 in
Max. Weight	62 lb.	62 lb.	28 lb.	28 lb.	1.5 lb.	82 lb.
Power	Hot-swappable redundant AC or DC	Hot-swappable redundant AC or DC	300W AC	300W AC	From 2600/3600/3700 chassis	500W AC

1. 7-Disk Default SA-7340 Configuration only

Selected Part Numbers and Ordering Information[1]

Cisco Content Engine 7300 Series Hardware

CE-7325A-K9	Content Engine 7325A AC Power, ACNS software
CE-7305A-K9	Content Engine 7305A AC Power, ACNS software. Also runs as CDM or CR

Cisco Content Engine 500 Series Hardware

CE-566-144G-K9	Cisco Content Engine 566, AC Power, ACNS software. Also runs as CDM or CR
CE-511-K9	Cisco Content Engine 511 AC Power, ACNS software

Cisco Storage Array 7340

SA-7340	Cisco Storage Array 7340, (7) 72 GB drives, AC power

Cisco Content Engine Network Module Hardware

NM-CE-BP-40G-K9=	Content Engine Network Module, basic performance, 20-GB IDE hard disk
NM-CE-BP-80G-K9=	Content Engine Network Module, basic performance, 40-GB IDE hard disk
NM-CE-BP-SCSI-K9(=	Content Engine Network Module, basic performance, SCSI controller (requires external SCSI disk array)

1. This is only a small subset of all parts available via URL listed under "For More Information."

For More Information

See the Cisco Content Engine Web sites: **http://www.cisco.com/go/ce500** and **http://www.cisco.com/go/ce7300**

Cisco CSS 11500 Series Content Services Switches

The Cisco CSS 11500 Series Content Services Switch is suitable for both enterprises and service providers seeking to reduce data center costs, boost e-business application performance, offer enhanced services, ensure online transaction integrity, and provide the best possible online experience for customers, business partners, and internal workers.

The Cisco CSS 11500 is available in three models—the standalone Cisco CSS 11501, the three-slot Cisco CSS 11503 and the six-slot Cisco CSS 11506. Both the CSS 11503 and CSS 11506 systems take advantage of the same high-performance, modular architecture and use the same set of I/O, Secure Sockets Layer (SSL), and session accelerator modules. Also, all three systems operate with the same WebNS software, enabling the Cisco CSS 11501, 11503 and 11506 to offer industry-leading content switching functionality within three compact, hardware platforms.

When to Sell

Sell This Product	When a Customer Needs These Features
CSS 11501	• Standalone, fixed-configuration switching platform with up to 8 Fast Ethernet ports and 1 optional Gigabit Ethernet port • Cost-effective server, cache, and firewall load balancing • Complex Web applications requiring high-level URL and cookie switching
CSS 11503	• Compact, high-performance, modular content switching platform with up to 32 Fast Ethernet ports or up to six Gigabit Ethernet ports • Cost-effective server, cache, and firewall load balancing • Integrated SSL capabilities for secure transactions • Complex Web applications requiring high-level URL and cookie switching
CSS 11506	• Compact, high-performance, modular content switching platform with up to 32 Fast Ethernet ports or up to six Gigabit Ethernet ports • Cost-effective server, cache, and firewall load balancing • Integrated SSL capabilities for secure transactions • Complex Web applications requiring high-level URL and cookie switching

Key Features

- Introduces an intelligent, distributed architecture
- Improves site availability and transaction integrity by introducing Adaptive Session Redundancy (ASR)—a new industry standard in stateful failover
- Delivers customized combinations of ports, performance, and services
- Scales secured transaction performance through support of an integrated, high-capacity Secure Sockets Layer (SSL) module (WebNS 5.20)
- Protects investment by enabling upgrades of performance, ports, and services through modularity

Competitive Products

- Alteon/Nortel: ACEdirector and 700 Series
- F5 Networks: Big/IP and LAN switch Partners
- Foundry Networks: ServerIron
- Radware: Web Server Director (WSD)
- Resonate: Central Dispatch and Global Dispatch

Specifications

Feature	Cisco CSS 11501	Cisco CSS 11503	Cisco CSS 11506
Modular Slots	N/A	3	6
Base Configuration	Switch Control with 8 10/100 Ethernet; 1 GBIC port	Switch Control Module 2 Gigabit Ethernet (GBIC) ports	Switch Control Module 2 Gigabit Ethernet (GBIC) ports
Max GB Ethernet Ports	1	6	12
Max 10/100 Ethernet ports	8	32	80
2-port GB Ethernet I/O Module		Max: 2	Max: 5
16-port GB Ethernet I/O Module		Max: 2	Max: 5
8-port GB Ethernet I/O Module		Max: 2	Max: 5

Feature	Cisco CSS 11501	Cisco CSS 11503	Cisco CSS 11506
SSL Module		Max: 2	Max: 5
Session Accelerator modules		Max: 2	Max: 5
Redundancy features	Active-active Layer 5	Active-active Layer 5	Active-active Layer 5
	Adaptive session redundancy	Adaptive Session Redundancy	Adaptive Session Redundancy
	Virtual IP Address (VIP) redundancy	VIP redundancy	VIP redundancy
			Active-standby SCM
			Redundant switch fabric module
			Redundant power supplies
Height	1/75 in. (1 rack unit)	3.5" (2 rack units)	8.75" (5 rack units)
Bandwidth	Aggregate 6 Gbps	Aggregate 20 Gbps	Aggregate 40 Gbps
Storage	512 MB hard disk or 256 MB Flash disk	512-MB hard disk or 256-MB Flash memory disk	512-MB hard disk or 256-MB Flash memory disk
Power	Integrated AC supply	Integrated AC or DC	Up to 3 AC or 3 DC

Selected Part Numbers and Ordering Information[1]

Cisco CSS 11500 Series Content Services Switches

CSS11506-2AC	Cisco 11506 Content Services Switch including SCM with 2 Gigabit Ethernet ports, hard disk, 2 switch modules, 2 AC power supplies, and a fan (requires SFP GBICs)
CSS11506-2DC	Cisco 11506 Content Services Switch including SCM with 2 Gigabit Ethernet ports, hard disk, 2 switch modules, 2 DC power supplies, and a fan (requires SFP GBICs)
CSS11503-AC	Cisco 11503 Content Services Switch including SCM with 2 Gigabit Ethernet ports, hard disk, and integrated AC power supply, integrated fan, and integrated switch module (requires SFP GBICs)
CSS11503-DC	Cisco 11503 Content Services Switch including SCM with 2 Gigabit Ethernet ports, hard disk, and integrated DC power supply, integrated fan, and integrated switch module (requires SFP GBICs)
CSS5-SCM-2GE	Cisco CSS 11500 System Control Module with 2 Gigabit Ethernet ports and hard disk (requires SFP GBICs)
CSS5-IOM-8FE	Cisco CSS 11500 Fast Ethernet I/O Module: 8-port TX
CSS5-IOM-16FE	Cisco CSS 11500 Fast Ethernet I/O Module: 16-port TX
CSS5-IOM-2GE	Cisco CSS 11500 Gigabit Ethernet I/O Module: 2-port (requires SFP GBICs)
CSS5-SAM	Cisco CSS 11500 Session Accelerator Module
CSS5-SSL	Cisco CSS 11500 SSL Module
CSS11501	Cisco CSS 11501 Content Services Switch-8 Fast Ethernet, hard disk, AC

1. This is only a small subset of all parts available via URL listed under "For More Information". Some parts have restricted access or are not available through distribution channels. Resellers: For latest part number and pricing info, see the *Distribution Product Reference Guide* at: http://www.cisco.com/dprg (limited country availability).

For More Information

See the CSS 11500 series Web site: **http://www.cisco.com/go/11500**

Cisco Content Distribution Manager

The Cisco Content Distribution Manager (CDM) configures network and device policy settings for edge node Content Engines (CE). Used to accelerate web content and save network bandwidth in a content networking architecture, the CDM can be easily integrated into existing network infrastructures.

Cisco Enterprise Content Delivery Networks (ECDNs) allow service providers and enterprises to distribute rich media content closer to their target customers overcoming issues such as network bandwidth availability, distance or latency obstacles, origin server scalability, and congestion issues during peak usage periods. The ECDN solution enables content delivery services for web hosting, streaming, e-commerce, e-learning, corporate communications, and mission critical e-business applications.

When to Sell

Sell This Product	When a Customer Needs These Features
CE-566-144GB-k9 CDM Personality	• Small to medium and large enterprise networks, supports up to 1000 Cisco Content Engines
CE-7305A-K9 CDM Personality	• Large enterprise and service provider deployment, supports thousands of Cisco Content Engines

Key Features

- Complete CDN solution with Cisco Content Router and Cisco Content Engines
- Central control over delivery of high-bandwidth content, live and video-on-demand over any IP network
- Easy-to-use management capabilities through a Web-based GUI; services include previewing and scheduling replication of media to edge devices, bandwidth and content management
- Automatically generates thumbnail reference images and sample Web pages for integration with corporate extranet, intranet, and Internet sites
- One URL per media file provides seamless integration into any Web site
- Integrates with standards for Web multimedia presentation, including HTML/DHTML, eXtensible Markup Language (XML) and SMIL
- Secure and fault-tolerant file transfer using Secure Socket Layer (SSL) encryption for secure media transfers
- Channel configuration for media distribution to any number of discrete audiences using "distribution lists"
- Host content for a variety of customers within a single CDN
- Ability to create multiple virtual CDNs addressing targeted media distribution
- Content registration in cache logs for billing capabilities
- The CDM is delivered as a "personality" of either the 566 or 7305 Series Content Engine products

Competitive Products

• Cacheflow: Client and Server Accelerators	• Network Appliance: ContentDirector
• Inktomi: Traffic Server	

Specifications

Feature	CE-566 Content Distribution Manager	CE-7305 Content Distribution Manager
Sampling of Rich Media File Formats	MPEG; RealVideo; Windows Media; QuickTime; HTML, GIF, JPEG; Adobe Acrobat; Macromedia Shockwave; CAD/CAM; MRI	Same as CE-566 CDM
Supported Interfaces	Autosensing 10/100/1000BASE-T	Same as CE-566 CDM
Recommended Network Size	Dozens to 100s of CEs	Thousands of CEs
Processor Speed	2.8 GHz Celeron	2.8 GHz P4
RAM	1GB	2 GB
Internal Storage	144 GB, 10K RPM, U320 SCSI	144 - 432 GB, 10K RPM, U320 SCSI
Rack Units	1	2
Dimensions (HxWXD)	1.72 x 17.3 x 20 in.	3.36 x 17.46 x 27.48 in.

Selected Part Number and Ordering Information[1]

Cisco Content Distribution Manager

CE-566-144GB-K9	Cisco 566 Content Engine, supports Content Distribution Manager configuration
CE-7305A-K9	Cisco CE-7305A Content Distribution Manager

1. This is only a small subset of all parts available via URL listed under "For More Information". Some parts have restricted access or are not available through distribution channels.

For More Information

See the Content Distribution and Management Web site: **http://www.cisco.com/go/cdm**

Cisco Content Router

The Cisco Content Router is a compact, high-performance solution for enabling premium Web services over public or private networks. Featuring either Cisco Enterprise Content-Delivery Network (ECDN) or Content Router 1.1 Software, customers can transparently route user Web browsers to the optimal content engine for file delivery.

With its patented routing technology, the Cisco CR provides redundancy, scalability, and performance enhancements for network Web sites in either an enterprise or public service provider network. Using Hypertext Transfer Protocol (HTTP)-based re-direction, the Cisco CR 4430 can redirect users over the public network or behind the security of a corporate firewall, making it a vital component of the Cisco end-to-end Content Networking Solution.

Like the CDM, the CR is delivered as a "personality" of either the 566 or 7305 Series Content Engine products.

When to Sell

Sell This Product	When a Customer Needs These Features
Cisco 566 or 7305 Content Router	• When a customer needs to support a Cisco Enterprise Content Delivery Network with HTTP redirection
	• Supports resiliency for ECDNs when used with a Cisco CSS 11500 content services switch
	• Up to five Cisco CRs can be deployed in an ECDN network to provide greater network availability and performance

Key Features

- Uses HTTP to redirect a client to the best site on the Internet based on network delay
- Transparent redirection to the end user and works with any IP application
- Easy configuration through a Cisco IOS-style command-line interface
- Redundant configurations, multiple CRs can be deployed at the origin site to provide fail-over and load scaling

Specifications

Feature	Cisco Content Router
Network Interface Card	10/100/1000BASE-TX
Processor	2.8 GHz Celeron(CE-566) / 2.8 GHz P4 (7305A)
RAM	1 or 2GB
Internal Storage	144 - 432 GB
Rack Units	1 or 2
Dimensions (HxWXD)	See CE-566 and CE-7305A specifications
Weight	See CE-566 and CE-7305A specifications

Selected Part Number and Ordering Information

Cisco Content Routers

CE-566-144GB-K9	Content router that utilizes HTTP redirection for use with the ECDN solution
CE-7305A-K9	

For More Information

See the Cisco Content Router Web site: **http://www.cisco.com/go/cr**

Cisco Content Switching Module

The Cisco Content Switching Module (CSM) is a Catalyst 6500 line card that balances client traffic to farms of servers, firewalls, SSL devices, or VPN termination devices. The CSM provides a high-performance, cost-effective load balancing solution for enterprise and Internet Service Provider (ISP) networks. The CSM meets the demands of high-speed Content Delivery Networks, tracking network sessions and server load conditions in real time and directing each session to the most appropriate server. Fault tolerant CSM configurations maintain full state information and provide true hitless failover required for mission-critical functions.

When to Sell

Sell This Product	When a Customer Needs These Features
Cisco Content Switching Module	• A high performance, L4 to L7 load balancing solution integrated with Cisco's Catalyst 6500 • Load balancing for the highest traffic sights • Support for up to 1,000,000 concurrent TCP connections

Key Features

- Market-leading performance—Establishes up to 150,000 Layer 4 connections per second and provides high-speed content switching, while maintaining 1 million concurrent connections
- Outstanding price/performance value for large data centers and ISPs—Features a low connection cost and occupies a small footprint. The CSM slides into a slot in a new or existing Catalyst 6500 and enables all ports in the Catalyst 6500 for layer 4 through layer 7 content switching. Multiple CSMs can be installed in the same Catalyst 6500 for redundancy and scalable performance
- Uses the same Cisco IOS Command Line Interface (CLI) that is used to configure the Catalyst 6500 Switch

Competitive Products

- Alteon/Nortel: Web Switching Module, Application Switch, and Web Switches
- Radware: Web Server Director (WSD)
- F5 Networks: Big/IP
- Foundry Networks: ServerIron
- Resonate: Central Dispatch and Global Dispatch

Specifications

Feature	Cisco Content Switching Module (CSM)
Configuration Limits	512 total VLANs (client and server); 4000 virtual servers; 4000 server farms; 16,000 real servers; 4000 probes; 16,000 access control list (ACL0 items
Connections	1,000,000 concurrent TCP connections 150,000 connection setups per second-Layer 4 75,000 connection setups per second-Layer 7
Throughput	4 Gigabits-per-second total combined (client-to-server and server-to-client) throughput 1.25 million packets per second
Catalyst Switch Platform Requirements	Native support (switch running Cisco IOS Software only Hybrid Support (switch running IOS/CatOS) Functions as a bus enabled line card-not fabric enabled Multilayer switch feature card-MSFC or MSFC2

Selected Part Numbers and Ordering Information[1]

Cisco Content Switching Module

WS-X6066-SLB-APC	Catalyst 6500 Content Switching Module

For More Information

See the Cisco Content Switching Module Series Web site at: **http://www.cisco.com/go/csm**

Cisco SSL Module for Catalyst 6500

The SSL Services Module is an integrated service module for the Cisco Catalyst® 6500 Series that offloads the processor-intensive tasks related to securing traffic with Secure Sockets Layer (SSL) and increases the number of secure connections supported by a Web site.

When to Sell

Sell This Product	When a Customer Needs These Features
SSL Module for Catalyst 6500	• An integrated SSL encryption/decryption solution featuring Cisco's Catalyst 6500
	• Scalable SSL processing: 2,500 connection setups/second per module-10,000 per Chassis fully-populated with SSL modules

Key Features

- Server SSL offload—performs all SSL-related tasks, allowing servers to handle high-speed clear text traffic
- Scalable performance—provides a simple means of addressing increased performance requirements by installing additional SSL modules in a Catalyst 6500 switch
- Stickyness—maintains persistence even when clients request new session IDs, in Integrated Mode with Content Switching Module (CSM)
- Certificate optimization—provides cost savings by requiring only a single certificate copy vs. a copy for each server subject to customer and certificate authority agreement

Competitive Products

• F5 Networks eCommerce 540	• Nortel/Alteon iSD 410 SSL Accelerator

Specifications

Feature	Cisco SSL Module for Catalyst 6500
System Capacity and Performance	2500 connection setups/sec per module-10K per chassis; 60K concurrent client connections-240K per chassis; 300 Mbps bulk rate encryption-1.2 Gbps per chassis; 256 key pairs; 256 key certificates; Up to 2K key sizes-256 proxy servers
Scalability	Up to four SSL modules in the same Catalyst 6500
Integration with Server Load Balancing	Tightly integrated in the Cisco Catalyst 6500 Switch with the CSM

Selected Part Numbers and Ordering Information[1]

Cisco SSL Module for Catalyst 6500

WS-SVC-SSL-1-K9=	Cisco SSL Module for Catalyst 6500

For More Information

See the Catalyst 6500 Series Web site at: **http://www.cisco.com/go/cat6500**

Cisco 11000 Series Secure Content Accelerator (SCA 11000)

The Cisco 11000 Series Secure Content Accelerator (SCA 11000) is an appliance-based solution that increases the number of secure connections supported by a Web site by offloading the processor-intensive tasks related to securing traffic with SSL. Available in two versions, the SCA 11000 simplifies security management and allows Web servers to process more requests for content and handle more e-transactions.

Key Features

- Offloads all encryption, decryption, and secure process for a Web site, freeing Web servers to perform essential Web tasks and eliminating the need for SSL server software
- Boosts e-commerce site performance up to 50 times through dedicated SSL processing hardware—supports 200 or 800 new SSL connections per second
- Centralizes and manages the widest range of digital certificates to ensure complete independence from the Web server
- Provides linear scalability and fault tolerance—interoperates with the Cisco 11500 series Content Services Switches (CSS 11500) for intelligent load balancing of SSL traffic
- Works with any Web server platform to provide SSL support for any Web site
- Installs quickly and easily with very low maintenance—no special software required on Web servers or Cisco 11500 series switches

Specifications

Cisco SCA 11000	SCA2	SCA
Number of Ports	Two 10/100BaseTX Ports	Two 10/100Base TX Ports
Port Description	Network Ports: Two 10/100Base TX; Console Port: DB9 Serial Port; Failover Port: DB9 Serial Port	Network Ports: Two 10/100Base TX; Console Port: DB9 Serial Port; Failover Port: DB9 Serial Port
Data Transfer Rates	Ethernet: 10 Mbps (half duplex), 20 Mbps (full duplex) Fast Ethernet: 100 Mbps (half duplex), 200 Mbps (full duplex)	Ethernet: 10 Mbps (half duplex), 20 Mbps (full duplex) Fast Ethernet: 100 Mbps (half duplex), 200 Mbps (full duplex)
Configuration Software OS Support	Windows NT 4.0; Red Hat Linux 5.0, 6.0, 6.1, 6.2	Windows NT 4.0; Red Hat Linux 5.0, 6.0, 6.1, 6.2
Memory	64 MB RAM; 16 MB Flash ROM	64 MB RAM; 16 MB Flash ROM
Dimensions	8.875 x 1.75 x 19 in.	8.875 x 1.75 x 19 in.
Connection Rates	800	200
Concurrent Sessions	5,000	30,000

Selected Part Numbers and Ordering Information

Cisco SCA 11000

CSS-SCA-2FE-K9	CSS Secure Content Accelerator
CSS-SCA2-2FE-K9	CSS Secure Content Accelerator version 2

For More Information

See the Cisco SCA 11000 Web site: **http://www.cisco.com/go/sca11000**

Cisco DistributedDirector[1]

DistributedDirector provides dynamic, transparent, and scalable Internet traffic load distribution between multiple geographically-dispersed servers. DistributedDirector is a global Internet service-scaling solution that utilizes Cisco IOS software and leverages routing table information, delay characteristics, and other information to make "network intelligent" load distribution and site selection decisions.

DistributedDirector transparently redirects end-user service requests to the closest responsive server, which increases access performance and reduces transmission costs. Users need only a single subdomain name or URL-embedded hostname for accessing a distributed set of servers, thus providing the appearance of a single virtual server.

When to Sell

Sell This Product	When a Customer Needs These Features
Cisco Distributed Director	• Load distribution across geographically/topologically dispersed TCP/IP servers
	• High availability for dispersed mission-critical applications
	• Data center redundancy and failover

Key Features

- Transparent distribution of all IP Services (TCP and UDP), including HTTP, FTP, Telnet, and Gopher; provides global scalability for all IP-based network services
- Improves access performance by redirecting to the topologically closest server
- Calculates client-to-server round-trip times in real time; redirects clients to server with lowest client-to-server link latency, maximizing end-to-end performance
- Redirects clients only to responsive servers, resulting in maximized availability
- Cisco IOS Software & standard command line interface for device configuration
- Transparently add and remove distributed servers, simplifying maintenance
- Supports multiple domains; cost-effective IP service scalability solution

Competitive Products

• Alteon Networks: ACEdirector and Web Switches with WebOS GLSB	• Resonate, Inc.: Global Dispatch
• F5 Labs: 3DNS	• RND Networks, Inc.: Web Server Director - Network Proximity (WSD-NP)
• Foundry Networks: ServerIron Switch with Internet IronWare	

For More Information

See the DistributedDirector Web site at **http://www.cisco.com/go/dd**

---

1. **DistributedDirector is available in Cisco IOS software for 2600/2600XM, 3600, and 7200 series routers, starting on release 12.2(4)T Enterprise Plus feature sets; Dedicated routers may be recommended for DistributedDirector to meet performance targets of both routing and load balancing; If no dedicated hardware platform is available for running DistributedDirector, it is recommended customers use the Configurable DD Cache feature (available in 12.2(8)T) to limit the memory DistributedDirector may consume for DNS caching; To take advantage of enhanced caching capabilities, routers should be configured with additional DRAM (128MB or more)**

Cisco GSS 4480 Global Site Selector

The Cisco GSS 4480 is a networking product that globally load balances distributed data centers. The Cisco GSS 4480 acts as the cornerstone of multisite disaster recovery plans in deployments of Cisco's market-leading content switches. Customers deploying new Cisco content switches such as the Cisco CSS 11500 Content Services Switch and the Content Switching Module (CSM) for the Cisco Catalyst ® 6500 Series switches or have already deployed legacy switches such as the Cisco CSS 11000 and Cisco Local Directors can benefit from the new levels of traffic management and centralized command and control provided by the Cisco GSS 4480.

Key Features

- Provides resilient architecture critical for disaster recovery and multisite Web applications deployments
- Offers flexible heterogeneous support for all Cisco SLBs and DNS-capable networking products
- Provides centralized command and control of DNS resolution process for direct and precise control of global load-balancing process
- Offers site persistence for e-commerce applications
- Offers a unique DNS race feature-The Cisco GSS 4480 can in real time direct content consumers to the closest data center
- Supports a Web-based graphical user interface (GUI) and DNS wizard to simplify the DNS command and control

Competitive Products

• F5 Networks eCommerce 540	• Nortel/Alteon iSD 410 SSL Accelerator

Specifications

Feature	Cisco GSS 4480
Number of Ports	Two 10/100Base TX Ports
Port Description	Network Ports: Two 10/100Base TX; Console Port
DNS requests per second	4000, depending on configuration (~ 345 million DNS requests per day per Cisco GSS 4480; an entire system is capable of 2.7 billion DNS requests per day)
Configuration Software OS Support	Windows NT 4.0; Red Hat Linux 5.0, 6.0, 6.1, 6.2
Network management	Console port-CLI Access to system via Telnet; Secure copy (SCP) or FTP; GUI-Secure HTTP (HTTPS) for Internet Explorer and Netscape Navigator
Storage	One 36-GB hard drive
Physical	One-rack unit size chassis; Network management serial port1 GB of RAM600-MHz PIII CPU
Dimensions	1.72 x 17.5 x 14.13 in. (43.7 x 444.5 x 358.9 cm)

Selected Part Numbers and Ordering Information[1]

Cisco GSS 4480

Cisco GSS 4480-K9	Global site selector
SF-GSS-V1.0-K9	SF-GSS-V1.0-K9Global site selector software

For More Information

See the Cisco GSS 4480 Web site: **http://www.cisco.com/go/gss**