

# Ordering Information for Cisco Content Engines with Cisco ACNS Software Version 5.0.1

## Introduction

The Cisco<sup>®</sup> Enterprise Content Delivery Network (ECDN), running Cisco Application and Content Networking System (ACNS) Software, enables organizations of all sizes to reduce costs and increase productivity and revenue by extending strategic applications from the data center to the branch office, including:

- Content and application acceleration
- Access management and security
- Video streaming
- Corporate communications
- E-learning
- Point-of-sale kiosks and video display
- Software and file distribution

Cisco ACNS Software Version 5.0 architecture introduces major enhancements in terms of the following:

- System scalability
- Data security
- Performance
- Usability
- Redundancy
- Automation including application programming interfaces (APIs)
- Storage Area Network (SAN) support

With the Cisco ACNS Software v5.0, Cisco Systems<sup>®</sup> is introducing a new line of hardware products to increase performance and storage for content delivery networks.

Note: Cisco ACNS Software Version 5.0 will not operate on the Content Engine Network Module (CE-NM-BP-X) until April 2003 with Cisco ACNS Software Version 5.0.3.

## Available Hardware Models

Which Cisco Content Engine model you select depends on many factors including: where the content engine is located (edge, campus, or data center); what the application is streaming, caching, filtering, etc., and product capability of the content distribution manager (CDM), content router, or content engine.

Cisco content engines are available in four models:

- Cisco 510 Content Engine, part number CE-510-K9 (1 rack unit [RU])
- Cisco 565 Content Engine, part number CE-565-K9, (1 RU); can also be configured as a CDM or content router
- Cisco 7305 Content Engine, part number CE-7305-K9, (2 RU); can also be configured as a CDM or content router
- Cisco 7325 Content Engine, part number CE-7325-K9, (2 RU)



## Content Engine Product Capability

A new feature of Cisco ACNS Software Version 5.0 is the capability of configuring certain hardware as a content engine, content router, or CDM. All products will ship directly from the factory as a content engine and in some cases the content engine can be changed into a content router or CDM with a command-line interface (CLI) command (Table 1).

Note that the product can only have a single function (content engine, content router, or CDM) and cannot be configured to perform all functions simultaneously. Existing hardware (Cisco Content Distribution Manager models 4650 and 4630, Content Engine models 507, 560, 590, and 7320, and Content Router-4430) will operate with Cisco ACNS Software Version 5.0 but cannot be reconfigured.

Table 1 Cisco Content Engine Product Capabilities

	CE-510-K9	CE-565-K9	CE-7305-K9	CE-7325-K9
<b>Content Distribution Manager</b>		X	X	
<b>Content Router</b>		X	X	
<b>Content Engine</b>	X	X	X	X

### Cisco CE-510-K9 Content Engine

The Cisco 510 Content Engine is a content engine with a default configuration consisting of a single IDE hard disk. Customers can optionally purchase a second IDE hard disk; however, there is no external storage expandability beyond two internal disk drives. Optionally, the Cisco Content Engine 510 can be configured with either a Fibre Channel adapter for interfacing with SANs or an MPEG video decoder for baseband video capability. Due to the availability of only a single PCI slot either the Fibre Channel adapter or MPEG decoder can be installed in the Cisco 510 Content Engine, but not both. (Part number CE-510-K9).

### Cisco CE-565-K9 Content Engine

The Cisco 565 Content Engine is a content engine with a default configuration consisting of two internal SCSI hard disks. No additional internal hard disks can be added to the product. For storage expandability and higher caching performance, a Cisco Storage Array 7 can be connected to the Cisco 565 Content Engine SCSI connector. Optionally the Cisco 565 Content Engine can be configured with either a Fibre Channel adapter for interfacing with SANs or an MPEG video decoder for baseband video capability. Due to the availability of a single PCI slot, either the Fibre Channel adapter or MPEG decoder can be installed in the Cisco 565 Content Engine, but not both. (Part number CE-565-K9).

Through a CLI configuration the Cisco 565 Content Engine can be changed into a CDM or a content engine. There is no additional licensing or customer cost to make this change. (See Table 1.)



### Cisco CE-7305-K9 Content Engine

The Cisco 7305 Content Engine is a content engine with a default configuration consisting of two internal SCSI hard disks. In addition, up to four hard disks can be added to the product for a total of six internal disks. For storage expandability and higher caching performance, a Cisco Storage Array 7 and Cisco Storage Array 14 can be connected to the Cisco 7305 Content Engine SCSI connector. Optionally the Cisco 7305 Content Engine can be configured with a Fibre Channel adapter for interfacing with SANs (Part number CE-7305-K9).

Through a CLI configuration the Cisco 7305 Content Engine can be changed into a CDM or a content engine. There is no additional licensing or customer cost to make this change. (See Table 1.)

### Cisco CE-7325-K9 Content Engine

The Cisco 7325 Content Engine is a content engine with a default configuration consisting of six internal SCSI hard disks. No additional internal hard disks can be added to the product. For storage expandability and higher caching performance, a Cisco Storage Array 7 and Cisco Storage Array 14 storage array can be connected to the Cisco 7325 Content Engine SCSI connector. Optionally the Cisco 7325 Content Engine can be configured with a Fibre Channel adapter for interfacing with SANs.

### Default Configurations

The ability to configure the hardware is also new for the Cisco Content Engine models 510, 565, 7305, and 7325. Each of these products will default in the Cisco Configurator Tool with the minimum disk drives (Table 2). In some cases additional drives can be added along with MPEG decoders or Fibre Channel adapters.

Table 2 Default Product Configuration and Minimum Disk Drive

Configuration	Product	Minimum Quantity
1	CE-7325-K9 (Default Configured)	
	CE-7325-K9	1
	CE-73xx-DISK-72GB	6
2	CE-7305-K9 (Default Configured)	
	CE-7305-K9	1
	CE-73xx-DISK-72GB	2
3	CE-565-K9 (Default Configured)	
	CE-565-K9	1
	CE-565-DISK-36GB	2
4	CE-510-K9 (Default Configured)	
	CE-510-K9	1
	CE-510-DISK-40GB	1



## Windows Media Compatibility

Each model of Cisco Content Engine can be ordered with a specific Windows Media Streaming Option (Table 3) and support live streaming, stream splitting, multicast, and video on demand (VOD). See the Cisco ACNS Software Version 5.0 datasheet for further details on Windows Media® streaming. The software options are available for an additional charge and can be purchased with the product or separately as a spare. The streaming throughput of each software option is listed in the chart and is measured as total content engine throughput. Please note that the throughputs are estimates and vary depending on the number of unique streams, encoding rates, and file sizes.

Table 3 Windows Media Software Compatibility with ACNS Software Version 5.0

Part Number	Through Put	List Price (\$)	CE-507-K9	CE-560-K9	CE-590-K9	CE-7320-K9
SF-WMS-56	56	1,200	X			
SF-WMS-84	84	1,500		X		
SF-WMS-168	168	1,800			X	
SF-WMS-224	224	2,000				X
SF-WMS-560	560	4,000				
SF-WMS-1008	1008	6,000				
Part Number	Through Put	List Price (\$)	CE-510-K9	CE-565-K9	CE-7305-K9	CE-7325-K9
SF-WMS-56	56	1,200	X			
SF-WMS-84	84	1,500	X			
SF-WMS-224	224	2,000		X		
SF-WMS-560	560	4,000			X	
SF-WMS-1008	1008	6,000				X

## RealNetworks Streaming

All the content engine hardware platforms can be purchased with an additional RealNetworks™ license for Real-Time Transport Protocol (RTP) and Real-Time Streaming Protocol (RTSP). The RealNetworks license is a combined Proxy and Server/Subscriber license and supports live streaming, stream splitting, multicast, and VOD. See the Cisco ACNS Software Version 5.0 datasheet for further details on RealNetworks streaming.

## ISO-Compliant MPEG Server

All the content engine hardware platforms can support ISMA Version 1 VOD streaming, which is included at no additional charge. See the Cisco ACNS Software Version 5.0 datasheet for further details on the International Organization for Standardization (ISO)-compliant streaming.



### Multicast File Replication

All the content engine hardware platforms can be purchased with an additional multicast client license to support multicast replication. Unlike in Cisco ACNS Software Version 4.2, there is no requirement for a standalone server for multicast.

Note: Multicast streaming with Windows Media and RealNetworks™ technology is supported with the streaming licenses and does not require a multicast client license.

### Cisco SA-7 and SA-14 Storage Array

Along with new content engine hardware and Cisco ACNS Software Version 5.0, Cisco is introducing two new storage arrays: the Cisco Storage Array 7 and Cisco Storage Array14. These storage arrays provide externally attached SCSI storage for the Cisco Content Engine Models 565, 7305-K9, and 7325 (Table 4).

Table 4 Storage Array Compatibility Matrix

	Cisco SA-7 Storage Array	Cisco SA-14 Storage Array
Cisco CE-510-K9 Content Engine	-	-
Cisco CE-565-K9 Content Engine	X	-
Cisco CE-7305-K9 Content Engine	X	X
Cisco CE-7325-K9 Content Engine	X	X

### Hardware Compatibility

Cisco ACNS Software Version 4.2 is not supported on Cisco Content Engine models 510, 565, 7305 and 7325. Table 5 outlines software and hardware compatibility.

Table 5 Cisco ACNS Software Version 5.0 and Version 4.2 Hardware Compatibility

	Cisco ACNS Software Version 4.2	Cisco ACNS Software Version 5.0
Cisco 510, 565, 7305, 7325 Content Engines	-	X
Cisco 507, 560, 590, and 7320 Content Engines; Cisco 4630 and 4650 Content Distribution Managers; and Cisco 4430 Content Router	X	X



## Detailed Ordering Information

Tables 6 through 9 provide part numbers and descriptions of hardware platforms, software and hardware options, network modules, and network module software supported by Cisco ACNS Software Version 5.0.

Table 6 Hardware Platforms Supported by Cisco ACNS Software Version 5.0

Supported Hardware Platforms	Part Number	Descriptions
Cisco 510 Content Engine	CE-510-K9	Entry-level edge delivery platform for small branch offices. Configurable only to be a content engine.
Cisco 565 Content Engine	CE-565-K9	Mid-range edge delivery platform for regional offices or larger branch offices. Configurable to be a CDM, content router, or content engine.
Cisco 7305 Content Engine	CE-7305-K9	High-end data-center delivery platform. Configurable to be a CDM, content router, or content engine.
Cisco 7325 Content Engine	CE-7325-K9	Ultra high-end large data-center delivery platform. Configurable only to be a content engine.
Cisco Storage Array 7	SA-7	7-slot Cisco storage array, 7 SCSI-LVD disks, single AC power for Cisco CE-560, CE-590, CE-7320, CE-565, CE-7305 and 7325 content engines.
Cisco Storage Array 14	SA-14	14-slot Cisco storage array, 14 SCSI-LVD disks, single AC power for Cisco CE-7305, CE-7325, CE-7320, and CDM-4650.
Hardware Options and Spares	Part Number	Description
	FIBER-CHNL-1PORT (=)	Fibre Channel host bus adapter card for use with CE-510, CE-565, CE-7305, and CE-7325.
	CE-VIDEO-1P (=)	MPEG video decoder card for use with CE-510 and CE-565 to allow for AV output.
	CE-510-DISK-40GB (=)	40-GB IDE disk for Cisco CE-510.
	CE-565-DISK-36GB (=)	36-GB Ultra2 SCSI disk for Cisco CE-565.
	CE73XX-DISK-72GB (=)	72-GB Ultra2 SCSI disk for Cisco CE-7305 and CE-7325.



Table 6 Hardware Platforms Supported by Cisco ACNS Software Version 5.0 (Continued)

Supported Hardware Platforms	Part Number	Descriptions
<b>Older Hardware Platforms</b>	<b>Part Number</b>	<b>Description</b>
<b>Cisco 507 Content Engine</b>	CE-507-K9	Entry-level edge delivery platform for small branch offices.
	CE-507AV-CDN-K9	Cisco 507 Content Engine plus composite baseband video and audio decoder (NTSC and PAL).
	CE-DISK-18GB-507-X	Extra 18-GB Ultra2 SCSI disk drive for Cisco 507 Content Engine (configurable option).
	CDN1-DISK-18GB=	Spare 18-GB Ultra2 SCSI disk drive for Cisco 507 Content Engine.
<b>Cisco 560 Content Engine</b>	CE-560-K9	Mid-range edge delivery platform for regional offices or larger branch offices.
	CE-560AV-CDN-K9	Cisco 560 Content Engine plus composite baseband video and audio decoder (NTSC and PAL).
<b>Cisco 590 Content Engine</b>	CE-590-K9	High-end data-center delivery platform.
	CE-590-DC-K9	High-end data-center delivery platform, DC power.
<b>Cisco 7320 Content Engine</b>	CE-7320-K9	Ultra high-end large data-center or service-provider delivery platform.
	CE-7320-DC-K9	Ultra high-end large data-center or service-provider delivery platform, DC power.
<b>Cisco 4430 Content Router</b>	CR-4430-K9	Cisco content router.
<b>Cisco 4630 Content Distribution Manager</b>	CDM-4630-K9	Entry-level Cisco CDM for small enterprise deployments and departmental pilots.
<b>Cisco 4650 Content Distribution Manager</b>	CDM-4650-K9	High-end Cisco CDM for medium and large enterprise deployments.



Table 7 Cisco ACNS Software Version 5.0 Part Numbers

Software Part Number	Description
SF-ACNS-5.0-K9	Cisco ACNS Software Version 5.0
Value-Added Software Options	Description
SF-CE510-RCPS-8.0 (=)	RealSystem 8 combined proxy/server for Cisco CE-510
SF-CE565-RCPS-8.0 (=)	RealSystem 8 combined proxy/server for Cisco CE-565
SF-CE7305-RCPS8.0 (=)	RealSystem 8 combined proxy/server for Cisco CE-7305
SF-CE7325-RCPS8.0 (=)	RealSystem 8 combined proxy/server for Cisco CE-7325
SF-CE507-RCPS-8.0 (=)	RealSystem 8 combined proxy/server for Cisco 507 Content Engine
SF-CE560-RCPS-8.0 (=)	RealSystem 8 combined proxy/server for Cisco 560 Content Engine
SF-CE590-RCPS-8.0 (=)	RealSystem 8 combined proxy/server for Cisco 590 Content Engine
SF-CE7320-RCPS-8 (=)	RealSystem 8 combined proxy/server for Cisco 7320 Content Engine
SF-WMS-56 (=)	Windows Media software 56 Mbps (see Table 3)
SF-WMS-84 (=)	Windows Media software 84 Mbps (see Table 3)
SF-WMS-168 (=)	Windows Media software 168 Mbps (see Table 3)
SF-WMS-224 (=)	Windows Media software 224 Mbps (see Table 3)
SF-WMS-560 (=)	Windows Media software 560 Mbps (see Table 3)
SF-WMS-1008 (=)	Windows Media software 1008 Mbps (see Table 3)
SF-CE-510-TL-5.0 (=)	Multicast client replication software for Cisco CE-510
SF-CE-565-TL-5.0 (=)	Multicast client replication software for Cisco CE-565
SF-CE7305-TL-5.0 (=)	Multicast client replication software for Cisco CE-7305
SF-CE7325-TL-5.0 (=)	Multicast client replication software for Cisco CE-7325
SF-CE-507-TL-5.0 (=)	Multicast client replication software for Cisco 507 Content Engine
SF-CE-560-TL-5.0 (=)	Multicast client replication software for Cisco 560 Content Engine
SF-CE-590-TL-5.0 (=)	Multicast client replication software for Cisco 590 Content Engine
SF-CE7320-TL-5.0=	Multicast client replication software for Cisco 7320 Content Engine
SF-SMF12	Secure Computing SmartFilter 12-month subscription (pricing option by number of users)
SF-SMF24	Secure Computing SmartFilter 24-month subscription (pricing option by number of users)

## Additional Information

For product literature on Cisco ACNS Software see:

<http://www.cisco.com/en/US/products/sw/conntsw/ps491/index.html>

For product literature on Cisco content engine network modules see:

<http://www.cisco.com/en/US/products/hw/modules/ps2797/ps4910/index.html>

For product literature on the Cisco 500 Series Content Engine see:

<http://www.cisco.com/en/US/products/hw/contnetw/ps761/index.html>

For product literature on the Cisco 7300 Series Content Engine see:

<http://www.cisco.com/en/US/products/hw/contnetw/ps766/index.html>



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