Figure 1.

Cisco TelePresence Content Server

Cisco TelePresence Content Server

	Introducing Cisco TelePresent	e Content Server	в		
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	Competitive Strategy Nov 52010 - 404.08 AM 3 minutes Lias Carr, CEO Executive Education	Energizing Your People for Performance Oct 13 2010 - 12:36:23 PM 16 minutes Barry Cade, VP Human Resources Executive Education	All hands meeting - Week 20 Sep 15 2010 - 10 29:29 AM 1 hour and 17 minutes Research and Development	Wythbusters episode 1 Jun 4 2010 - 3.51:21 PM 54 minutes James Angle, Alson Waters Research and Development	Creating a Culture of Innovation May 28 2010 - 44:657 PM 2 minutes Chris P. Bason, CD Executive Education
All	categories				

Product Overview

With the Cisco TelePresence[®] Content Server (UCS C220 M3 Hardware), your organization can share knowledge and enhance communication by recording video conferences. You can access live and on-demand presentations, distance education classes, and corporate training sessions—anywhere, anytime. In addition, you can distribute live or recorded content to any computer or download to your favorite portable media device.





Combine Cisco TelePresence Content Server with Cisco Media Experience Engine 3500, to provide comprehensive multimedia transcoding capabilities, automatically converting video files into a wide array of formats and bitrates for optimal viewing on any device. Cisco Media Experience Engine 3500 also creates a simple and automated way for customers to make their videos look more professional before posting through the addition of graphics, such as a "lower third" graphic containing the speaker's name and title or the company logo as a watermark. The MXE 3500 can also add a short introductory video known as a bumper, and add a closing "trailer" video to each recorded call before creating versions in different formats and speeds.

Features and Benefits

Table 1 summarizes the key features of the Cisco TelePresence Content Server.

 Table 1.
 Cisco TelePresence Content Server Feature Summary

Feature	Benefit
Design features	 Appliance-based architecture for easy deployment and high reliability One rack unit (1RU) rack-mountable Built-in, easy-to-use, web-based management interface Built-in web-based content library Ability to interoperate with a range of complementary multivendor products
Application features	 Live and on-demand streaming Scheduled and impromptu call support with dial-in and -out capabilities Ability to record and stream video and H.239 dual-stream presentations from any H.323 or Session Initiation Protocol (SIP) video conferencing unit Content creation from anywhere using Cisco TelePresence Expressway technology Compatibility with all major streaming formats, including Windows Media, Flash, and QuickTime Support for major distribution servers and corporate web portals Editing and library features for simple content creation and retrieval Support for download of content to PC, Mac, and portable media devices
Performance features	 Hosts up to five concurrent calls (up to 10 calls with Additional Five Port Option), up to two of which can be streamed live Video-conference bandwidth up to 4 Mbps (with premium Resolution Option) Synchronized streaming of video and presentation in live and on-demand modes Unicast and multicast streaming support Internal and external storage capabilities Support for Active Directory authentication through Lightweight Directory Access Protocol (LDAP) Call configuration and access rights management Ability to cluster up to 10 content servers Support for SQL Server 2008 with Content Server clusters Ability to export and import recordings from one Content Server to another

Product Specifications

Table 2 lists the physical specifications; Table 3 gives video and audio specifications; and Table 4 gives network, security, and management specifications for the Cisco TelePresence Content Server.

Table 2. Product Specifications

Product compatibility	Support for recording initiation from all standards-based endpoints	
Components	• Simplified, common format, complete solution for streaming, all in one component	
Recording	 Predefined template-based recording options Recording flexibility through a built-in web-based template editor Personal and system recording aliases for ultimate flexibility Support for automated creation of personal recording aliases Ability to record presentations or video from a live dual stream (H.264, H.239, or DuoVideo) Support for H.323 endpoints, multipoint control units (MCUs), gateways, and the Session Initiation Protocol (SIP) Ability to record up to five simultaneous H.323 or SIP video calls Ability to receive calls at up to 4 Mbps, up to 1080p high-definition (HD) resolution for the main camera and for the second input source Ability for calls to include main video or audio and H.264, H.239, or DuoVideo Transcoding of recorded calls into streaming and downloadable file formats, including Windows Media, Flash, and MPEG4 formats Recording of every call directly to disk for "offline" transcoding after the call completes Optional record start countdown 	

	 Record PIN-protected MCU Conferences Personal sandbox for safe working on recorded content before publishing
	 Optional automated email notifications to content owners on completion of recording Recording indicator on Cisco TelePresence MCU calls
Live and on-demand streaming	 Ability to live stream up to two calls (of the total five) in a single format and size Native Windows Media Streaming Server is embedded When integrated with customer-provided Wowza Media Server, the content server streams Flash content. When integrated with customer-provided Apple Quicktime or Darwin Streaming Servers, the content server streams MPEG4 QuickTime content Flash and QuickTime Media can be viewed as a progressive download without external streaming servers Statis URLs for live streaming of MREC 4 for Elevel sentent from a Wowza Media Server.
Streaming	 Static URLs for live streaming of MPEG-4 for Flash content from a Wowza Media Server Live (unicast supported natively and multicast supported by external Microsoft Windows
	 Media Server) On demand (unicast) Native support for streaming Microsoft Windows Media through an embedded Windows Media Server Support for external streaming servers (Microsoft Windows Media Server, Wowza Media Server, and Apple QuickTime Streaming Server)
Portable devices	 Support for media download, then sync with Apple iPod and MPEG-4 capable devices
Distribution server	Support for Cisco MXE 3500 transformation engineSupport for Cisco Show and Share
Content library	 Download options Really Simple Syndication (RSS) feed subscription to provide alternate access to content library Searchable content library web interface, with thumbnail images and categories for easy content searching Ability to preconfigure recording outputs, media access, metadata Ability to share links to recording, allowing you to easily identify and share recordings Ability to view live and recorded content through content viewer web interface and telepresence endpoints (PIN Protection available) Editable indexes Content editor that enables trimming and joining recordings Support for major web browsers (Internet Explorer, Mozilla Firefox, and Safari) Context-sensitive help in the interface Simplified graphical template editor for easy creation of new recording templates Automatic and manual bandwidth detection, to provide the best viewing experience for your Internet connection
Content viewer	 An intuitive content viewer supports Windows Media, Adobe Flash, Microsoft Silverlight, and QuickTime plug-ins Multiple video layouts are supported, including: Switching layout Joined layout Fixed aspect ratio 16:9 joined layout Picture-in-picture video layout Stacked layout Dual-stream or still-image content is presented fully synchronized with the main video Video, audio, and content are fully synchronized Pause and seek in recordings
Storage	 Large-capacity internal storage (600-GB hard disk in RAID 1 redundancy) Support for external network storage using network-attached storage (NAS)
Language support	English, French, Simplified Chinese, and Japanese
Physical dimensions (H x W x D)	• 1RU: 1.7 x 16.9 x 28.5 in (4.32 x 43 x 72.4 cm)
Power	

* Requires Flash Player 9 Update 3 or later

Bandwidth	• H.323 and SIP up to 4 Mbps
Video standards	 H.261 H.263 H.263+ H.264
Live video resolutions	 QCIF (176 x 144 pixels) CIF (352 x 288 pixels) VGA (640 x 480) 4CIF (704 x 576) SVGA (800 x 600) XGA (1024 x 768) 448p (576 x 448) w288p (512 x 288) w448p (768 x 448) w576p (1024 x 576) 720p (1280 x 720): Supported for H.264 only
Audio standards	• G.711 • G.722 • G.722.1 • AAC-LD
Frame rates	• Up to 60 frames per second (requires premium resolution option)

Table 3. Video and Audio Specifications

Table 4. Network, Security, and Management Specifications

System management and	Allows for easy configuration using serial port management console
scheduling	 Allows for total management through embedded web server
	• Provides application programming interface (API) for customized integration with third-party solutions
	Allows for one click to record scheduled conferences with Cisco TelePresence Management Suite
	 Allows for simple addition of audio-only outputs for recording of scheduled conferences with Microsoft Outlook or IBM Lotus Notes
	 Uses Cisco TelePresence Management Suite to monitor Content Server status, such as free disk space
	Allows administrators to set maximum streaming bandwidth limits to fit their network rules
Network interfaces	Two 1 GB Ethernet interfaces
Firewall traversal	Cisco TelePresence Expressway technology
	Auto Network Address Translation (NAT)
	• H.460.18
	H.460.19 Firewall Traversal
Quality of service (QoS)	Dynamic jitter buffering
	Packet-loss concealment
Security features	Secure management through Secure HTTP (HTTPS)
	 Integration with Active Directory through LDAP for access
	 Password-protected recordings
	 Full access control lists (ACLs) on all content library items

Warranty Information

Find warranty information on Cisco.com at the Product Warranties page.

Ordering Information

To place an order, visit the <u>Cisco Ordering Home Page</u> and refer to Table 5 or contact your local Cisco representative. To download software, visit the <u>Cisco Software Center</u>.

Table 5. Ordering Information

Product Name	Part Number
Cisco TelePresence Content Server	TCS-C220-5RP-K9
Ordering Options:	
Clustering Option	LIC-TCS-CLUSTER
Premium Resolution Option	LIC-TCS-PRO
Additional 5 Port Option	LIC-TCS-ADD5RP
10 Port Premium Resolution Bundle	TCS-C220-PRO10P-K9

Cisco Services

Cisco and our partners provide a broad portfolio of intelligent, personalized services and support that can help you realize the full value of your Cisco TelePresence investment by increasing business agility and network availability. This portfolio of services accelerates business innovation through a network-based collaboration platform that enables businesses to collaborate anywhere, anytime. For more information about these services, please visit: http://www.cisco.com/go/telepresenceservices.

For More Information

For more information about the Cisco TelePresence Content Server, please visit <u>http://www.cisco.com/go/videoplatform</u> or contact your local Cisco account representative or authorized Cisco partner. Product specifications are estimates and subject to change without notice.



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