Cisco TelePresence Server 7010

Product Overview

The Cisco TelePresence Server is a pioneering solution that brings together telepresence, high-definition (HD), and standard-definition (SD) video conferencing users into the same video meeting. It preserves the full telepresence experience while connecting to a wide range of endpoints and delivering the best call experience for every participant. Figure 1 shows the Cisco TelePresence Server 7010.

Figure 1. Cisco TelePresence Server 7010
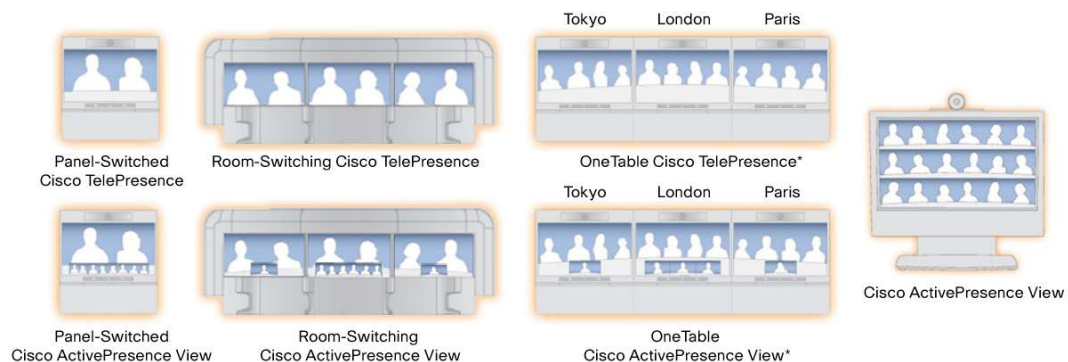
Features and Benefits

Table 1 summarizes the key features of the Cisco TelePresence Server 7010.

Table 1.   Cisco TelePresence Server 7010 Feature Summary

Feature	Benefit
Design features	• Offers multivendor telepresence interoperability • Standards-based and compatible with major vendors' video conferencing endpoints • Intelligently recognizes the type of system joining a conference • Provides participants the best possible view for their systems • Offers ease of use and versatile management interface • Size is compact: Two-rack-unit (2RU) tall and 19-inch rack-mountable
Application features	• Supports single and multi-screen Cisco TelePresence systems • Interworking with Polycom RPX and TPX telepresence systems • Interconnects telepresence, high-definition, and standard-definition endpoints • Cisco TelePresence ClearVision technology for resolution enhancement • Cisco ActivePresence™ and Telepresence View ensures the telepresence experience is always maintained • Supports for OneTable and Room-Switched configurations (Figure 2) • Integration with Cisco TelePresence Management Suite
Performance features	• Cisco ActivePresence supports a full-screen immersive view of the primary speakers with a seamless overlay of others in the call; designed to maximize the large-scale immersive telepresence experience for every participant • High-definition transcoding for every participant • Cisco TelePresence Universal Port technology • Constant high capacity • High-definition video resolutions • Additional wideband audio ports • Bandwidth per screen up to 4 Mbps • Advanced Encryption Standard (AES) encryption • Up to 1080p30 and 720p60 frames per second (fps)
Model TS 7010	• No of Screens 9* and 16

*Upgradable to 16 screens.

Figure 2.   Cisco TelePresence Server Supported Modes

*Available on Cisco TelePresence T3 only.

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 Server 7010.

Table 2. Product Specifications

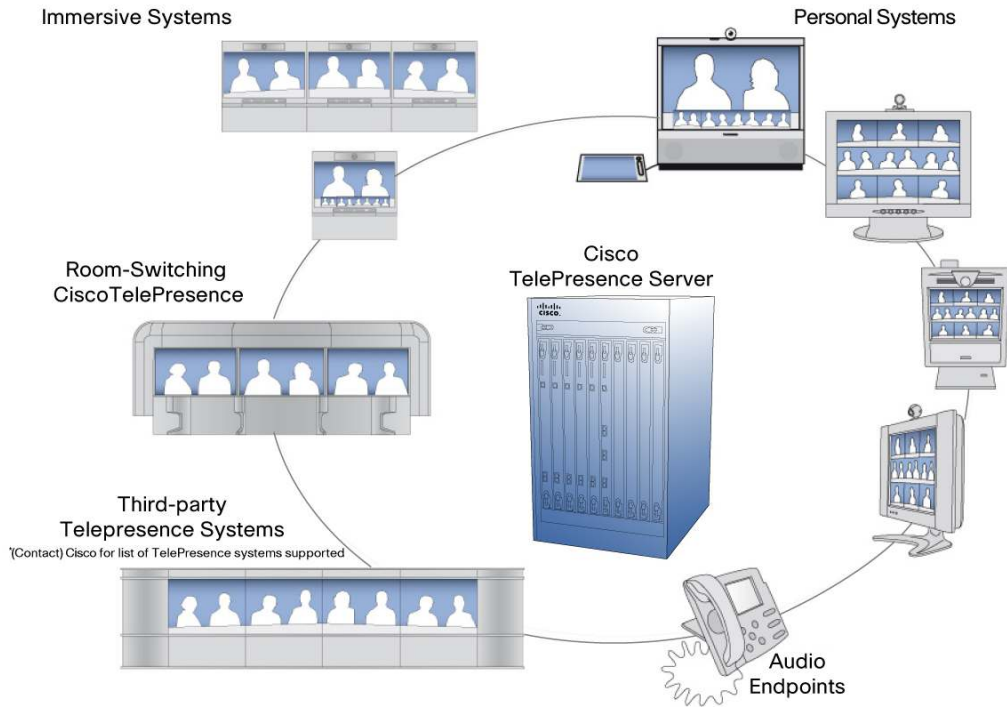|	
Product compatibility	• Standards-based and compatible with all major vendors' endpoints
High-definition performance	• Up to 1080p, 30 fps, and 720p, 60 fps, H.264, 6Mbps ActivePresence (including content) • Comprehensive HD audio • Dual video H.239, BFCP or Auto Collaborate
Universal transcoding and transrating	• This server combines telepresence, HD, and SD within the same virtual meeting • The server offers automatic audio and video transcoding and transrating on all calls • Any bandwidth, any resolution, and any video or audio codec can be used on any video call within the same meeting • Each endpoint has its own decode and encode.
Cisco TelePresence Server features	• Panel-switched Cisco ActivePresence view or standard telepresence view for all single-screen endpoints • Supports single and multi-screen Cisco Telepresence systems • Ability to initiate calls from the Cisco TelePresence user interfaces • Integration with Experia • Interworking with Polycom telepresence systems while preserving the full Cisco ActivePresence view • Ability to dial in or dial out through web server • ActivePresence is standard on all ports • Auto intelligence layout • Text identification of sites • Built-in conference scheduling and reservation • On-demand and impromptu conferences
Content Features	• Automatic Content Handover • Widescreen (16:9) support • Dual video using H.239, BFCP or Auto Collaborate • Picture in Picture: video and content composed into video stream • Each endpoint has its own content encoder.
Built-in web server	• Complete configuration, control, and monitoring of the system and conferences
Language support	• English as standard
Physical dimensions (H x W x D)	• 3.43 x 17.25 x 19.1 in. (87 x 436 x 511 mm) (2RU) • 19" rack mountable (kit supplied) or standalone
Weight	• 22 lb (15 kg)
Power	• Power: 100-240 VAC, 50/60Hz • Maximum power consumption: 650W
Environmental data	• Ambient operating temperature: 32 to 95℉ (0 to 35° C) • Relative humidity: Below 95% (noncondensing)
Approvals and compliance	• Compliance model number TR1A • European safety: EN 60950-1:2001 • USA/Canada safety: UL 60950-1 CB, CE • EMC: EN55022 class A, EN61000-3-2, EN61000-3-3, EN55024: EN61000-4-2,-3,-4,-5,-6,-11, FCC Part 15 class A, VCCI class A, AS/NZS 3548 RoHS compliant

Table 3. Video and Audio Specifications

Bandwidth	• Up to 4 Mbps with both H.263 and H.264, for each screen in all conference modes
Video standards	• H.261 • H.263 • H.263+ • H.263++ • H.264
Video resolution	• From QCIF up to 1080p (1920 x 1080) including interlaced iCIF and iSIF • Aspect ratios: 4:3 and 16:9
Frame rates	• Up to 60 frames per second
Audio standards	• G.711 • G.722 • G.722.1 • G.723.1 • G.728 • G.729 • MPEG-4 AAC-LC • MPEG-4 AAC-LD • Polycom Siren14/G.722.1 Annex C
Audio features	• Wideband audio mixing • Ability to adjust endpoint audio gain through web interface

Table 4. Network, Security, and Management Specifications

Protocols	• H.323, • Session Initiation Protocol (SIP) • Telepresence Interoperability Protocol Version 7 (TIPv7) • H.235 (AES) • H.239 (dual video) • FTP • Real-Time Transport Protocol (RTP) • Real Time Streaming Protocol (RTSP) • HTTP • Secure HTTP (HTTPS) • Dynamic Host Configuration Protocol (DHCP)
Security features	• Secure non-PC hardware and operating system • AES encryption, 128-bit key, H.235
System management	• XML management application programming interface (API) • Management through embedded web server • RS-232 for local control and diagnostics • Configurable event logs and full H.323 and SIP decoding • Configuration backup to network • Secure upgrades through Ethernet
Quality of service (QoS)	• Configurable differentiated services code point (DSCP) or type of service (ToS)/IP Precedence
Network resilience	• Cisco TelePresence PacketSafe technology provides intelligent down speeding, packet pacing, and packet-loss concealment to ensure optimum video and audio quality • Dynamic jitter buffering
Interfaces	• RJ-45 Ethernet, 10/100/1000-Mbps full and half duplex, manual or auto sensing • RJ-45 serial port

Figure 3.   Cisco TelePresence Server Interoperability Solution

Warranty Information

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

Ordering Information

To place an order, visit the Cisco Ordering Home Page or contact your Cisco sales representative. To download software, visit the Cisco Software Center.

Table 5.   Ordering Information

Product Name	Part Number
Cisco TelePresence Server 7010	CTI-7010-TPSRV-K9
Upgrade to 16 Screens	L-7000-9U16SL
3rd Party multi-screen interop key	L-7010-TPSINTOP

Cisco Services

Cisco and our partners provide a broad portfolio of smart, 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 by harnessing the network as a powerful business platform. For more information about these services, visit: http://www.cisco.com/go/telepresenceservices.

For More Information

For more information about the Cisco TelePresence Server 7010, visit http://www.cisco.com/go/telepresence or contact your local Cisco account representative or authorized Cisco partner.

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San Jose, CA

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