Cisco TelePresence IP GW MSE 8350

Figure 1. Cisco TelePresence IP GW MSE 8350

MSE 8000 Chassis

The Cisco TelePresence™ portfolio creates an immersive, face-to-face experience over the network— empowering you to collaborate with others like never before. Through a powerful combination of technologies and design that allows you and remote participants to feel as if you are all in the same room, the Cisco TelePresence portfolio has the potential to provide great productivity benefits and transform your business. Many organizations are already using it to control costs, make decisions faster, improve customer intimacy, scale scarce resources, and speed products to market.

Product Overview

The Cisco TelePresence IP GW MSE 8350 blade is an innovative, chassis-based, gateway solution that allows customers and partners to easily call you over the Internet. Compatible with all major vendors' endpoints and capable of high definition, it offers powerful dial plans, an auto attendant and voice and video switchboard operators to route calls to the correct destination (Figure 1).

Cisco TelePresence IP GW MSE 8350 Features

Table 1 summarizes the key features for the Cisco TelePresence IP GW MSE 8350.

Table 1. Cisco TelePresence IP GW MSE 8350 Feature Summary

Feature Summary	
Design features	• Interactive voice response (IVR)/auto attendant, supports up to 32 menus and sub menus • Live operator switchboard support • Auto attendant menus support automated video greeting playback (requires Cisco TelePresence IP VCR) • Compatible with all major vendors' endpoints • Easy-to-use, versatile management interface • Comprehensive wideband audio support • Support for both Session Initiation Protocol (SIP) and H.323 endpoints • Ability to pay as you grow—buy the capacity you need now and upgrade in the future with a software license

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Feature Summary	
Application features	• Flexible dial plans • Operator hunt group • Fully integrated, with built-in gatekeeper • Fully interoperable with Cisco TelePresence Management Suite • Cisco TelePresence PacketSafe™ technology, which minimizes effects of network packet loss • Application-level gateway with no packet forwarding • User-level access privileges
Performance features	• Transcoding and transrating on calls up to 4CIF • Video resolutions: 720p up to 30 fps (nontranscoded) • Bandwidth per site: H.263 up to 4 Mbps; H.264 up to 2 Mbps • Up to 40 simultaneous calls

Product Capabilities

Table 2 lists the product capability specifications for the Cisco TelePresence IP GW MSE 8350.

Table 2. Product Specifications

Specification	Description
IVR/Auto Attendant	• Individually configurable for each port • Configurable menu of destinations • Navigate with far end camera control (FECC) or dual tone multifrequency (DTMF) • Option to dial IP address by DTMF • Custom audio prompts • Uploadable multilanguage support • Supports up to 32 sub-menus • Support for recorded video messages on auto attendant menu (requires Cisco TelePresence IP VCR)
Operator Support	• Up to 18 live operators • Operator hunt group support • Hunting by priority, round-robin, and try-all
Call Routing	• Flexible dial plans • Direct dial by E.164 address • Redirect failed calls to operator and/or auto attendant • Register with up to two H.323 gatekeepers • Register with up to five SIP registrars
Endpoints Supported	• H.323 voice and video endpoints • SIP voice and video endpoints (transcoded)
Video Standards	• H.261, H.263, H.263+, H.263++, and H.264
Video Resolution	• From QCIF up to 720p (1280 x 720), including interlaced iCIF and iSIF • 4:3 and 16:9 aspect ratios
Frame Rates	• Up to 30 frames or 60 fields per second
Audio Standards	• G .711, G.722, G.723.1, G.728, G.729, MPEG-4 AAC-LC, MPEG-4 AAC-LD, and Polycom Siren14/G.722.1 Annex C
Protocols	• H .323v4, SIP, FTP, RTP, HTTP, DHCP, SNMP, NTP, H.239 (dual video), H.235 (AES)
Bandwidth	• H.263 up to 4 Mbps; H.264 up to 2 Mbps
Universal Transcoding and Transrating	• Automatic audio and video transcoding and transrating are possible on all calls up to 4CIF • Any bandwidth, any resolution, any video or audio codec can be independently used by each caller • Callers have their own personal encodes • Latency is extremely low: less than 80 ms
Scalability	• Multiple Cisco TelePresence IP Gateways can be deployed in large enterprise situations.
Built-in Gatekeeper	• Up to 25 devices can register • Register service prefixes, H.323 IDs and E.164 aliases • Roundrobin calls can be made over common service prefixes for load balancing
Firewall Traversal	• H.460 18 and 19 compliant

Specification	Description
DTMF Translation	• DTMF to IP address • Out-of-band to in-band DTMF
Call Features	• H.323 or SIP dial in • Standalone call routing • Preconfigured H.323 and SIP endpoints • Options for H.323 gatekeeper and SIP registrar • Widescreen (16:9) support • Far end camera control tunneling using remote control
Web User Interface	• Complete configuration, control and monitoring of the system and calls
System Management	• Cisco TelePresence Management Suite support • Management through embedded web server • RS-232 for local control and diagnostics • Syslog for diagnostics • Configurable event logs and full H.323 and SIP decoding • Configuration backup to network • Secure upgrades through Ethernet or CompactFlash • SNMP
Quality of Service (QoS)	• Configurable differentiated services code point (DSCP) or type of service (ToS)/IP Precedence
Network Resilience	• Cisco TelePresence PacketSafe technology, which provides intelligent downspeeding, packet pacing, and packet-loss concealment to ensure optimum video and audio quality • Dynamic jitter buffering
Security Features	• Three levels of access rights and privileges for users • Separate dial plans for each network port • Secure non-PC hardware and operating system • Application-level gateway with no IP packet forwarding
Interfaces	• Two RJ-45 Ethernet, 10/100/1000 Mbps full or half duplex, manual or auto sensing • RJ-45 serial port • CompactFlash socket • 39 status LEDs
Software License	• IP GW call licenses required in Cisco TelePresence MSE 8000 chassis to enable IP GW calls
Environmental Data	• Operating temperature 0°C to 35°C ambient • Relative humidity below 95% (noncondensing)
Chassis Physical Dimensions	• Height 33.25 in. (842 mm) (19 rack units [RU]) • Width: 17.2 in. (437 mm) • Depth: 20.5 in. (520 mm) • 19-in. rack-mountable (kit supplied) • Power: –48 VDC, 100–240 VAC 50/60 Hz

Regulatory Compliance

- European safety: EN 60950-1:2001
- USA safety: UL 60950-1 First Edition
- Canada safety: CSA 60950-1-03
- CB Scheme certificate, CE Marked
- E MC: EN55022 class A, EN61000-3-2, and EN61000-3-3
- EN55024: EN61000-4-2,-3,-4,-5,-6,-11, FCC Part 15 class A, VCCI class A, AS/NZS 3548 (C-Tick); CCC Approved: GB4943-2001, GB9254-1998, and YD/T993-1998
- NAL Certificate (China)
- RoHS compliant

Figure 2. Auto Attendant and Live Video Operators

Ordering Information

To place an order, please contact your Cisco sales representative.

Table 3. Ordering Information

Product Name	Part Number
Cisco TelePresence MSE 8000	**CTI-8000-MSECH-K9**
Comes with: Cisco TelePresence MSE 8000 Chassis, Cisco TelePresence Supervisor MSE 8050 and dual redundant AC/DC power shelves for AC	

Product Name	Part Number
powered option.	
Need to order at least one Cisco TelePresence MSE 8000 blade option and screen or port license options to make a functional system.	
Cisco TelePresence MSE 8000 blade options – order at least one blade for a functional system	
Cisco TelePresence IP GW MSE 8350	CTI-8350-GWIP-K9
AES and HTTPS Encryption Option for MSE 8350 blade	LIC-AESCDN7-K9
Port license options for Cisco TelePresence MSE 8000 chassis – Use these part numbers when placing an initial order: must order at least one port (screen) license for each blade that you order	
1 IP Gateway port license for use with IP GW MSE 8350	LIC-8350-1PL
Cisco TelePresence MSE 8000 chassis port license PAK (Product Authorization Key) for post sale upgrades	**L-8000-CHLIC-PAK**
Start with L-8000-CHLIC-PAK in order to view the options listed below:	
1 IP Gateway port license for use with IP GW MSE 8350	L-8350-1PL
AES and HTTPS Encryption Enable Upgrade for MSE 8350 blade	**L-AESCDN7-K9=**

Service and Support

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, visit: http://www.cisco.com/go/telepresenceservices.

For More Information

For more information about the Cisco TelePresence IP GW MSE 8350 blade, visit http://www.cisco.com/go/telepresence 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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Printed in USA

C78-641219-01   08/11