



DATA SHEET

Polycom® RealPresence® Collaboration Server 800s

Interoperability without compromise

The Polycom® RealPresence® Collaboration Server 800s provides open standards scalable video coding (SVC) support for a lower cost and lower latency at three times the resource capacity of previous products. The RealPresence Collaboration Server 800s, is uniquely interoperable with the existing 2M+ video conferencing systems in the market today that use advanced video coding (AVC). It provides a true extension of enterprise video conferencing to mobile users that includes: provisioning, management, SVC and AVC interoperability, firewall traversal, security, reliability, and scalability—all leveraged from the Polycom® RealPresence® Platform.

Reduce cost and complexity

RealPresence Collaboration Server 800s unites islands of communication while reducing cost and complexity through unique, innovative architecture. Providing native support for AVC and open standards SVC protocols within the same video conference, the RealPresence Collaboration Server 800s, eliminates the need for expensive gateways, extra boxes and licenses to manage. Native AVC and open standards SVC support is a continuation of Polycom's approach to adopt new standards and protocols as they emerge so that IT leaders don't have to pick and choose them. With RealPresence Collaboration Server 800s, IT leaders can avoid wasting investments now and in the future and ensure your competitive advantage. Now, organizations can efficiently collaborate with a singular, simple dial plan—protocols are simply a non-issue for end-users and IT Administrators alike.

Get ahead of the mobility curve

Usher in a new era of video collaboration with BYOD

"Bring Your Own Device" policies and give your organization the freedom to meet with anyone, from anywhere without compromising on cost, caller experience or interoperability. Empower your employees with personal collaboration, whether at home or on-the-go using free SVC-enabled Polycom® RealPresence® Mobile and RealPresence® Desktop applications. Use RealPresence Collaboration Server 800s to seamlessly bring your callers together with groups around the organization and beyond. No more wasted hours in long commutes; no more travel weary employees. Better work-life balance at a lower price is better business.



Benefits

- **Interoperability without compromise**—Delivers interoperability (native AVC and SVC support) and integration with leading UC applications and environments—no video isolation—without expensive gateways or extra boxes
- **Right sized**—Designed for mid-market enterprise video networks (cost and scale) or to expand an existing RealPresence Collaboration Server environment through the RealPresence® DMA®
- **BYOD support**—Support for SVC and AVC based RealPresence Mobile and RealPresence Desktop delivers an optimal platform to enable employees to bring their own device—laptops, tablets and smart-phones included
- **In-person experience**—New technology eliminates video delay and combines with unmatched support for H.264 High Profile, Polycom® Lost Packet Recovery™, Polycom® HD Voice™ and StereoSurround, for a truly face-to-face collaboration experience
- **Enterprise quality**—Extensible to the RealPresence Platform for management, call control, bridge virtualization, firewall/traversal and recording

Product specifications

Capacity

- Dynamic Resource Allocation™ supports up to:
 - 60 HD 720p30 (Polycom's) SVC endpoints
 - 20 HD 720p30 H.264 transcoding ports
 - 40 SD @ 30 fps H.264 transcoding ports
 - 40 CIF @ 30 fps H.264/H.263 transcoding ports
 - 120 VoIP endpoints
- Integration with Polycom® RealPresence® Virtualization Manager (DMA™) 7000 system for high-scale, redundant conferencing

Video support

- From QCIF to 720p including intermediate resolutions
- H.263 (H.263++), H.264 Baseline and High Profile, H.264 Annex G (SVC)
- 16:9 and 4:3 aspect ratio
- Native Microsoft RTV support
- H.239 content sharing resolution (H.263/H.264): VGA, SVGA, XGA and 720p

Audio support

- G.711a/u, G.722, G.722.1C, G.722.1, G.719, G.729A, and Polycom® Siren™ 14 and Siren 22, Siren 22 LPR
- Siren22LPR SAC (Scalable Audio Coding) for SVC calls
- IVR prompts for auto attendance
- User and managed mute control
- DTMF support

Management tools

- Web-based and application-based management & monitoring
- View up to 10 Polycom® RealPresence® Collaboration Server (RMX and 800s) platforms
- Administrator, operator, chairperson, and auditor views
- Complete XML API kit for 3rd party application integration
- Up to 4000 address book entries
- Address book quick search
- Operator conference
- Scheduling and gatekeeping functions via the Resource Manager and Virtualization Manager (DMA)

- Move participant between AVC conferences
- Conference templates to easily save layouts for recurring meetings
- External database access (LDAP/AD)

Language support

- English, Simplified Chinese, Traditional Chinese, Japanese, Russian, German, Korean, Spanish, French, Italian, Portuguese, Norwegian
- Double Byte (unicode) site names

Network support

- Network Separation (multiple IPs)
- ICE and SRTP Support—video and content
- IP H.323 and SIP—video and content
- VoIP voice
- IPV4
- 10/100/1000 Mb interface
- 64 kbps to 2 Mbps conference data rates
- Up to 768 kbps for content
- Direct dial-in from any network

Transcoding

- Audio algorithms
- Video algorithms
- Networks
- Resolution
- Frames rates
- Bit rates

IP QOS

- Polycom® Lost Packet Recovery™ (LPR™) technology for AVC calls
- Polycom error resiliency algorithms for SVC calls
- DiffServ
- IP Precedence
- Dynamic jitter buffer
- Voice and video error concealment

Security

- Separation of management and media networks
- AES media encryption (IP)
- Transport layer security (SIP and management network)
- Tiered administrative access levels
- Secure conference mode

Conferencing highlights

- Support for Polycom® CloudAXIS™ Suite v1.1

- Integration with Polycom® RSS™ series for recording and streaming
- Unified conferencing (voice, video and data)
- Over 30 different conference layouts
- Personal (AVC) and auto layout options
- Layout range 1x1 to 3x3 (SVC) to 4x4 (AVC)
- Support of Polycom® LPR technology on both H.323 and SIP protocols (AVC)
- Advanced error resiliency for SVC calls
- Support standard H.264 High Profile
- SVC
- Customized resolution configuration (AVC)
- Customized HD welcome slides
- Layout background (skin) options (AVC)
- Lecture and presentation mode (AVC)
- Conference profiles
- Conference templates
- Far-end camera control (FECC) H.224/H.281, H.323 annex Q and SIP FECC (AVC)
- Conference dial out (AVC) and dial in
- Up to 2000 virtual meeting rooms
- Advanced IVR flow for AVC calls
- Multilingual and transparent site name options
- H.239 support over H.323 cascaded links (between any Polycom bridges)

Native integration

- Microsoft Lync server (OCS 14)

Warranty

One (1) year limited hardware warranty: unit returned to Polycom factory within 30 days after receipt; 90-day software warranty: bug fixes/minor releases. Please contact your Polycom reseller or a Polycom sales representative for more details.

Full hardware specifications can be found in the [RealPresence Platform hardware specifications sheet](#).

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About Polycom

Polycom is the global leader in open standards-based unified communications and collaboration (UC&C) solutions for voice and video collaboration, trusted by more than 415,000 customers around the world. Polycom solutions are powered by the Polycom® RealPresence® Platform, comprehensive software infrastructure and rich APIs that interoperate with the broadest set of communication, business, mobile and cloud applications and devices to deliver secure face-to-face video collaboration in any environment.

Polycom, Inc.
1.800.POLYCOM
www.polycom.com

Polycom Asia Pacific Pte Ltd
+65 6389 9200
www.polycom.asia

Polycom EMEA
+44 (0)1753 723282
www.polycom.co.uk