



## DATA SHEET

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# The Polycom® RealPresence® Collaboration Server 1800

Organizations are more effective and productive when they meet face-to-face with colleagues, partners, and customers. Video collaboration makes it possible to meet face-to-face from anywhere. Whether your team is in Beijing, Singapore, New York City or anywhere in between, video collaboration can help you get business done faster. The rise of the video-enabled workforce has created a need for a dynamic, scalable and reliable platform. Polycom® RealPresence® Collaboration Server 1800 meets these needs with a high-scale, business-class multiparty video, voice, and content collaboration solution.

### High-scale, high-definition video collaboration

The Polycom RealPresence Collaboration Server 1800 is ideal for organizations that need to support video collaboration for large groups of people and want the control an in-house solution offers. For example, RealPresence Collaboration Server 1800 can support a single video conference with up to 75 people in HD, easily managed and supported on premise. RealPresence Collaboration Server 1800 also offers the flexibility to support multiple, simultaneous video conferences and the ability increase video collaboration capacity as needs grow. Polycom RealPresence Collaboration Server innovative architecture removes cost and complexity by offering the only hybrid solution that natively supports the existing 2M+ AVC (Advanced Video Coding) based endpoints and new media routing technology, SVC (Scalable Video Coding). The seamless support of multiple standards and protocols allows organizations to cost-effectively conduct wide scale multipoint video calling. Other solutions require gateways or multiple solutions stitched together which introduces network risks and cost.

### Transform your office into a high-performance workplace

RealPresence Collaboration Server 1800 helps thousands of companies get business done faster no matter where their people are. Organizations can collaborate from anywhere through video conferencing that is easy to join—as simple as clicking a link from a calendar or social business application or making a phone call. Content is shared in crystal clear 1080p high definition. For IT, Polycom RealPresence Collaboration Server 1800 provides flexibility and control to administrators through customizable virtual meeting rooms and user profiles. Its straightforward administrator interfaces help enable consistent, in-person communication experiences without cumbersome technology roadblocks, speeding your rate of video collaboration adoption.



### Benefits

- **Lowest TCO**—Up to 50 percent less bandwidth utilization through H.264 High Profile and enable more people on more calls through dynamic resource allocation
- **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
- **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**—Extendible to the Polycom® RealPresence® Platform for management, call control, bridge virtualization, firewall/traversal and recording

	RealPresence Collaboration Server 1800 – Maximum Capacity
VoIP Ports	300
ISDN	120 (optional)
CIF Ports	200
SD Ports (4CIF)	200
HD 720p30 Ports	100
HD 1080p30 Ports	50
HD 1080p60 Ports	25
SVC Only Ports	300

**Environment**

- Operating temperature: 50–95°F (10–35°C)
- Storage temperature: -40–158° F (-40–70°C)
- Relative humidity 20–90% (non-condensing)
- Operating altitude Up to 656 ft (2 km)
- Operating ESD 4 KV

**Physical (W x H x D)**

- 17.36 x 2 x 191.34 in (44.1 x 8.9 x 486 cm)
- Weight: Up to 31.97 lbs (14.5 kg)

**Power supply**

- AC Input/Range, BTU Voltage range: 100-240 VAC 50–60 Hz.
- Current: 10–3.5 AMP
- Maximum power output: 740 watts

**Power consumption**

- AC maximum power consumption 350 watts

**Video support**

- From QCIF to 1080p60
- H.263 (H.263++), H.264 Baseline and High Profile
- 16:9 and 4:3 aspect ratio
- H.239 content sharing resolution (H.263/H.264): VGA, SVGA, XGA and 720p and 1080p

**Audio support**

- G.711a/u, G.722, G.722.1C, G.722.1, G.729A, and Polycom® Siren™ 14 and Siren™ 22, Siren™ 22 LPR

- User and managed mute control
- DTMF support
- Echo and keyboard noise suppression
- Audio Clarity to sharpen and upscale audio

**Management tools**

- Web-based and application-based management & monitoring
- Multi-RealPresence® Collaboration Server Manager—View up to 10 RealPresence Collaboration Server (RealPresence Collaboration Server) 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
- Scheduling options\*\*
- Operator conference
- Internal reservation calendar\*\*
- Scheduling and gatekeeping functions via the Resource Manager & Polycom® RealPresence® 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
- 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
- ISDN
- IPV4
- 10/100/1000 Mb interface
- 64 kbps to 4 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
- DiffServ
- IP Precedence
- Dynamic jitter buffer
- Voice and video error concealment

**Security**

- Separation of management and media networks
- AES media encryption (IP)<sup>1</sup>
- Transport layer security (SIP and management network)
- Tiered administrative access levels
- Secure conference mode

### Conferencing highlights

- Solution level integration with Polycom RealPresence components including RealPresence Connect for Microsoft Lync, RealPresence CloudAXIS Suite and Video Content Management applications
- Unified conferencing (voice, video and data)
- 35 different conference layouts
- Personal (AVC) and auto layout options
- Support of Polycom LPR technology on both H.323 & SIP protocols (AVC)
- Customized resolution configuration (AVC)
- Customized HD welcome slides
- Layout background (skin) options (AVC)
- Lecture and presentation mode (AVC)
- Video Switching Mode (VSW)

- 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
- 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

- Integration with leading UC vendors, including Microsoft, IBM, Siemens, Avaya and Cisco
- Native Video experience with the Polycom RealConnect for Lync solution
- See Release Notes posted on [www.support.polycom.com](http://www.support.polycom.com) for complete integration and interoperability information

### 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.

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1. Encryption is not available in all areas. Please contact your local Polycom representative for more information.

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### About Polycom

Polycom helps organizations unleash the power of human collaboration. More than 400,000 companies and institutions worldwide defy distance with video, voice and content solutions from Polycom. Polycom and its global partner ecosystem provide flexible collaboration solutions for any environment that deliver the best user experience and unmatched investment protection.

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