



DATA SHEET

Polycom® RealPresence® Collaboration Server 1830/1 for RealPresence Clariti™

Supercharge your RealPresence Clariti deployment with appliances

Polycom® RealPresence Clariti™ is powerful collaboration infrastructure software for businesses of all sizes that connects people with HD voice, content, video, and web collaboration. As a complete software-based solution, RealPresence Clariti delivers a comprehensive, industry-proven collaboration infrastructure to meet demanding needs. Whether it's deployed in the cloud or on site, organizations can count on an excellent combination of user experience and ease of management.

RealPresence Clariti can also be deployed on premises in a virtualized data center or, with optional hardware enablement. While RealPresence Clariti can be deployed entirely as software, certain environments will benefit from hardware options that the RealPresence Collaboration Server 1830/1 for RealPresence Clariti is uniquely designed to satisfy. Whether addressing ISDN connectivity issues, accelerating transcoding in HD-intensive environments or reducing the compute and resource requirements in virtualized data centers, the RealPresence Collaboration Server 1830/1 provides the necessary bridging resources.

RealPresence Clariti customers can augment virtualized data center resources by taking advantage of the RealPresence Collaboration Server. It is a purpose built, high-end transcoding appliance, specially designed for real time audio/video collaboration. Customers can also benefit from the ISDN option to provide audio only callers to join the conferences, eliminating the need for a separate gateway device. Optionally, RealPresence Clariti hybrid deployments take advantage of the RealPresence Collaboration Server hardware capabilities while virtualizing the rest of the solution, maintaining high-quality collaboration while minimizing the virtualization resources.

The unique, innovative architecture of Polycom RealPresence Collaboration Servers reduces costs and complexity. Only Polycom RealPresence Collaboration Server provides support for multiple protocols without expensive gateways or extra boxes. With Polycom RealPresence Collaboration Server, dynamic resource allocation provides the right amount of resources per call to reduce costs by eliminating wasted HD resources.

Polycom RealPresence Collaboration Server provides broad support for existing and emerging standards, protocols, applications, devices and interoperability between unified communications (UC) environments. Only Polycom RealPresence Collaboration Server provides native integration with leading UC applications and support for IP, H.323/SIP, PSTN and ISDN, AVC and SVC, all within a single conference platform.



Benefits

- **Appliance solution**—purpose built hardware for real time media transcoding for up to 100 concurrent High Definition participants
- **Universal collaboration**—built in transcoding engine provides the ability to interop in a single conference audio/video from multiple media sources using different formats and protocols
- **Enterprise quality collaboration**—experience life-like collaboration through 1080p60 video, Polycom® NoiseBlock™, Polycom® Lost Packet Recovery™ (LPR™), video and audio upscaling, and Polycom® UltimateHD™ technologies
- **Flexible Deployment**—where deployments in a virtual data center is not an option, or where ISDN is needed, the RealPresence Collaboration Server 1800 provides optional hardware based bridging resources

	Polycom® RealPresence® Collaboration Server 1830/1831
Physical dimensions (H x W x D), power and architecture	<ul style="list-style-type: none"> • Operating temperature: 50–95°F (10–35°C) • Storage temperature: -40–158° F (-40–70°C) • Relative humidity 20–90 (non-condensing) <p>Physical (W x H x D)</p> <ul style="list-style-type: none"> • 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) <p>Power supply</p> <ul style="list-style-type: none"> • AC Input/Range, BTU Voltage range: 100-240 VAC 50–60 Hz • Current: 10–3.5 AMP • Maximum power output: 740 watts <p>Power consumption</p> <ul style="list-style-type: none"> • AC maximum
Capacity	<ul style="list-style-type: none"> • Dynamic Resource Allocation supports up to: <ul style="list-style-type: none"> - 25 HD 1080p60 endpoints in CP - 50 HD 1080p30 endpoints in CP - 100 HD 720p30 endpoints in CP - 200 SD (4CIF) endpoints in CP - 200 CIF endpoints in CP - 300 SVC Only endpoints in CP - 300 VoIP • ISDN (Optional - 1831 version only) <ul style="list-style-type: none"> - 30 x ISDN/CIFp30 (256k) - 120 x ISDN/audio (64k) • Fixed Resource Capacity sets RealPresence Collaboration Server 1800 resources for constant capacity no matter what the call type • Supports a single conference without cascading of up to 300 audio or 200 video participants • Integration with Polycom DMA support up to 25,000 concurrent calls and 75,000 active registrations in a supercluster mode, for high-scale, redundant conferencing
Operating Environment Specifics	<ul style="list-style-type: none"> • Maximum BTU output: 1,195 per hour • Operating altitude Up to 656 ft (2 km) • Operating ESD 4 KV • Transit/Storage Sea level and up to 50,000 ft (15 km)

Product specifications

Video support

- Native Microsoft RTV support
- Native Telepresence Interoperability Protocol (TIP) support
- Native IBM® Sametime® integration via Polycom RealPresence Collaboration Server conferencing add-in for IBM Sametime
- H.261, H.263 (H.263++), H.264, H.264 High Profile (AVC & SVC)
- Up to 60 frames per second
- From QCIF to HD1080p including wide range of intermediate resolutions
- Up to HD1080p 60 fps and 720p 60fps in continuous presence (CP) transcoding
- 16:9 and 4:3 aspect ratio
- H.239 and RDP (Microsoft) content sharing resolution (H.263/H.264): VGA, SVGA, XGA 1080p and 720p
- Polycom® People+Content™ technology Audio support
- G.711a/u, G.722, G.722.1C, G.722.1, G.723.1, Add G.719 G.729A, and Polycom® Siren™ 14 and Siren 22 (in mono or stereo)
- IVR prompts for auto attendance
- User and managed mute control
- DTMF support
- Echo and keyboard noise suppression
- Audio clarity to sharpen and upscale audio

Management tools

- RealPresence Collaboration Server Manager offers web-based and application-based access
- Multi-RealPresence Collaboration Server Manager—View up to 10 RealPresence Collaboration Server platforms
- Administrator, operator, chairperson, and auditor views
- Onboard shelf management monitors and maintains hardware elements
- Complete XML API kit for 3rd party application integration
- Up to 4000 address book entries
- Address book quick search
- Scheduling options¹
- Operator conference
- Internal reservation calendar¹
- Move participant between conferences
- Conference templates to easily save layouts for recurring meetings
- External database access (LDAP/AD)
- SNMP V3.0 for external monitoring

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 (AVC)
- IP SIP (AVC and SVC)
- PSTN and VoIP voice
- ISDN (H.320)
- IPV4 and IPV6
- 10/100/1000 Mb interface
- 64 kbps to 6 Mbps conference data rates
- Up to 768 kbps for content
- Gateway calls
- Direct dial-in from any network
- AS-SIP

Transcoding

- Audio algorithms
- Video algorithms
- Networks
- Resolution
- Frames rates
- Bit rates
- Content Transcode for H.263 and H.264 on the same conference

IP QOS

- Polycom® Lost Packet Recovery™ (LPR™) technology
- DiffServ
- IP Precedence
- Dynamic jitter buffer
- Voice and video error concealment

Security

- UC APL
- Separation of management and media networks
- AES media encryption (IP and ISDN)
- Transport layer security (SIP and management network)²
- Strong password policy
- Tiered administrative access levels
- Secure conference mode Approval and compliance
- JITC
- RoHS compliant
- EMC: FCC 47CFR PART 15, VCCI, C-Tick, ICES-003, EN55022, EN55024, EN 61000-3-2, EN 61000-3-3, EN 300-386*
- Safety: NRTL(C/US) UL 60950-1 (TUV), IEC 60950-1 (CB), EN 60950-1 (CE),

AS/ NZS 60950-1, CCC, GoST-R, KC

- Telco (ISDN): IDA TS ISDN-PRA, A-Tick AS/ACIF S038, MII, KC, TIA-968-A, CS-03 Issue 9 Part VI, Ordinance No. 31, TBR-4, PTC 100, PTC 216, TRA, TEC, MOC, SIRIM, GEN001, IT001

Conferencing highlights

- Solution level integration with Polycom RealPresence components including Polycom® RealConnect™ for Microsoft Skype for Business, RealPresence® Web Suite and RealPresence® Media Suite applications
- Support for Immersive Telepresence Rooms with Telepresence Speaker Priority Layout
- Unified conferencing (voice, video and data)
- Up to 35 different conference layouts
- Personal and auto layout options
- Layout range 1 x 1 to 4 x 4
- Support of Polycom LPR technology on both H.323 & SIP protocols
- Support standard H.264 High Profile
- Advanced Polycom Polycom® Click&View™ visual layout tool
- Customized resolution configuration
- Customized HD welcome slides
- Layout background (skin) options
- Lecture and presentation mode
- Roll call
- Closed caption
- Message overlay
- Conference profiles
- Conference templates
- Far-end camera control (FECC) H.224/ H.281, H.323 annex Q and SIP FECC
- Conference dial out and dial in
- Up to 2000 virtual meeting rooms
- Advanced IVR flow
- 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 Skype for Business solution
- Office 365 support via federation with on-premises
- See Release Notes posted on 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.
 2. Please consult the product specific hardware guide and release notes for latest capacity information - found on the Polycom support site.

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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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