

Polycom® Unified Conferencing

*Revolutionary video, voice, and Unified Conferencing
on a single MGC platform*



Benefits

Polycom Unified Conferencing provides superior return on investment

One MGC platform shares conferencing and network resources for multipoint video, voice, and gateway conferences

One management system minimizes training and simplifies support of your conferencing network

One installation is all it takes to get your multipoint video, voice, and gateway conferencing network up and running

One user training session covers scheduling and administration for multipoint video and voice conferences

One set of processes for reporting and billing supports all your conferencing needs

Introducing the revolutionary Polycom Unified Conferencing, the ultimate voice and video experience that takes conferencing to a new level. Polycom Unified Conferencing is the first solution in the industry to offer full-featured voice and video on a single platform, in the same conference, with the same set of conference features and end-user interfaces.

All of the conference capabilities of a feature-rich voice conference are now provided in a Polycom unified voice and video conference. Any combination of conferencing features such as roll call, conference invite, mute/unmute, questions and answers, voting/polling, and even requests for operator assistance can be utilized by all conference participants using their voice or video endpoint keypads or keyboards.

Polycom Unified Conferencing takes multipoint conferencing to a new level that adds significant value and increased productivity well beyond simply meetings at a distance.

The single-platform choice for The Polycom Office™

With integrated video, voice, data, and Web capabilities, The Polycom Office is the only solution that offers you an easy way to connect, conference, and collaborate any way you want. The Polycom Office is our commitment to making distance communications as natural and interactive as being there. Work faster, smarter, and better with Polycom Unified Conferencing and The Polycom Office.



Video Infrastructure

Connect. Any Way You Want.

Unified Conferencing Revolutionary video, voice, and Unified Conferencing on one MGC platform

Unified Conferencing product highlights

- **Single number dial-in** for all voice and video conference participants
- **VoicePlus conferencing features** supported in voice, video, and unified conferences and network resources for multipoint video, voice, and gateway conferences
- **IVR/DTMF control** of conference features from any voice or video endpoint
- **High fidelity audio** at 14 kHz for all conference participants
- **Highest quality video** with 60 fields-per-second video and endpoint control of their personal video layout
- **Full, automatic transcoding** to enable seamless connection of any video or voice endpoint over any network connection

Unified Conferencing benefits

- Unique capability to support ISDN and IP video, PSTN and VoIP voice, unified voice and video conferences simultaneously
- Supports all ad hoc and scheduled conference modes
- VoicePlus features supported in voice, video, and unified conferences
- Voice, video, and Unified Conferencing with integrated Web collaboration
- Lower cost of ownership with one platform and one management system
- Easy upgrade and migration path
- Investment protection for voice and video conferencing users migrating to IP

Unified Conferencing features

MGC platform support for Polycom Unified Conferencing

- MGC 100
- MGC 50
- MGC 25

Service support for voice, video and unified conferences

- Scheduled conferences
 - Operator scheduling
 - End-user scheduling
 - WebCommander browser interface
 - Outlook interface
- Ad hoc/reservationless conferences
- Single number per conference
- Attended conference management
- End-user conference management
 - WebCommander browser interface
 - IVR/DTMF interface
- PIN code Conference Security
- Full, automatic transcoding
 - Network protocols
 - Network speed – 128 Kbps to 2 Mbps
 - Audio and video algorithms
 - Video resolution and frame rates
 - Data rates

Conference feature support for voice, video and unified conferences

- Conference entry queue
- Conference PIN codes, Chairperson PIN code, billing code
- Roll call, name announced on entry and exit, conference roster
- Entry and exit tones
- Invite new conference participants
- Lock/unlock the conference
- Request roll call of conference participants
- Place/reinstate conference on hold
- Request operator assistance
- Increase/decrease my audio volume
- Mute/unmute my audio
- Mute/unmute all but me
- Voting/polling
- Question and answers
- WebOffice™ collaboration
- Extend/terminate the conference

Audio support for voice, video, and Unified Conferencing

- G.711, G.722, G.722.1, G.723, G.728
- Siren™ 7, Siren 14

Feature support for video endpoints

- Advanced (hardware-based) Continuous Presence
- IP (software-based) Continuous Presence
- Click&View™
- H.261, H.263, H.264+ video algorithms
- 30 frames-per-second, 60 fields-per-second video frame rate

Conference Scheduling and Management

- **MGC Manager** - Powerful system operator tool to support conferences and system administration
- **WebCommander** - Web browser based end user tool to schedule and manage conferences, includes Microsoft Outlook interface



Unified Conferencing Revolutionary video, voice, and Unified Conferencing on one MGC platform

Polycom VideoPlus™ revolutionizes multipoint video conferencing

Polycom VideoPlus takes multipoint video conferencing to a new level with revolutionary video conferencing over any ISDN or IP connection. Premier video quality, advanced Continuous Presence, and Polycom's revolutionary Click&View end-user DTMF control of personal video layouts provides a unique, more productive video conference experience. The premier video quality of Polycom VideoPlus with Polycom's unique 14 kHz audio creates a distance meeting environment that is more natural, more spontaneous.

The industry-leading video and audio capabilities of Polycom VideoPlus with the Unified Conferencing IVR/DTMF-based features is a breakthrough in video conferencing.

Polycom VideoPlus product highlights

- **Unique multinetwork solution**
Connect any IP and/or IP endpoint
- **Full, automatic transcoding**
Endpoints connect at their optimal capabilities
- **Customize your meeting with advanced Continuous Presence**
Choice of 27 different layouts, custom background colors, custom borders, and custom speaker highlights
- **Personalize your video conferencing experience with Click&View**
Manage your personal view of the conference from any endpoint with a simple, intuitive interface
- **Data collaboration support**
Choice of People+Content™ or T.120 data collaboration, ISDN, or IP
- **Certified Cisco AVVID partner**

Polycom VideoPlus features

Personalize your experience with Click&View

Polycom's revolutionary Click&View feature empowers each participant in a Continuous Presence conference to select their personal CP layout to view during a conference using their endpoint keypad or keyboard. An intuitive GUI provided by the Polycom MGC enables conference participants to:

- Change the conference CP layout
- Change your personal CP layout
- Return to the conference or previous personal layout
- Request operator assistance

Polycom advanced Continuous Presence features:

- Available for any network type – IP or ISDN
- 27 different layouts available including landscape or portrait layouts
- Customizable video borders, speaker highlight, and background colors
- Change layouts on the fly
- Modify each Continuous Presence window – fixed or voice-activated
- Supports sites running up to 30 fps
- Low video latency



IP Continuous Presence

- Two layouts available: Two-way and a traditional quad layout
- Flexible layouts – Change layouts on the fly
- Flexible windows – Fixed windows or voice-activated windows
- High quality IP Continuous Presence with 30 fps support
- Conference capacity up to the IP port capacity
- T.120 support

People and Content

Enables all conference participants, ISDN and IP, to simultaneously view both people and high resolution content.

T.120 data collaboration

T.120 Data collaboration in ISDN, IP, and mixed conferences.

Unified Conferencing Revolutionary video, voice, and Unified Conferencing on one MGC platform

Redefine Conferencing and collaboration with Polycom VoicePlus

Once again Polycom redefines conferencing and collaboration with the innovative Polycom VoicePlus voice conferencing solution. Polycom VoicePlus is the only voice conferencing solution that can be integrated with Web collaboration and video communications, all on the same MGC platform.

VoicePlus product highlights

- **Unique multimedia solution** integrates voice and video conferencing, plus Web collaboration
- **Flexible conference options** easily supports reservationless, unattended, and attended conferences
- **Highly scalable solution** solves both enterprise and high-capacity service provider requirements
- **Dynamic scaling** allows dynamic conference size for scaling on demand
- **QoS on IP-based networks** through DiffServ and IP Precedence
- **Secure VoIP conferencing** through integrated firewall capability
- **Polycom VoicePlus** supports both narrow and wideband audio algorithms

Conference quality features

- **Noisy line detection** eliminates unwanted distractions
- **Transcodes** all audio algorithms
- **Integrated echo cancellation**

Security

- **PIN code access and conference lock**
- **Chairperson's presence** is required for active conference
- **Entry and exit tones**
- **Roll Call** plays the participant's name upon entry and exit
- **Attendant managed access** for participant greeting and verification
- **Dial-out to defined** numbers eliminates unwanted entry
- **Certified integrated** firewall for VoIP to VoIP connectivity
- **CLI validation** for predefined dial-in participants

Reservations

- **Scheduled and ad hoc conferencing**
- **Web browser scheduling**
- **E-mail integration notification**

Conference Control

- **Volume control and audio mix depth**
- **DTMF and multilingual IVR**
- **Question and answer sessions**
- **Voting and polling**
- **Automatic conference termination and extension**



Basic VoicePlus features

- Create/start/terminate conference
- Connect/disconnect party – dial-in, manual dial-out, and blast dial-out
- Mute/unmute/set participant's volume
- DTMF detection
- IVR service messages
- Entry/exit/end time alert tones
- Conference auto terminate and auto extend
- Automatic allocation of conference passwords

DTMF VoicePlus features

- Mute, Unmute, Mute 'all-but-me'
- Put/Release conference on hold
- Lock conference
- Request attendant assistance
- Increase/Decrease self volume
- Provide billing code
- Voting/Polling
- Questions and Answers sessions
- Invite participants by chairperson
- Help menu of DTMF options

System capacity

- Up to 860 ports in a single chassis

Unified Conferencing Revolutionary video, voice, and Unified Conferencing on one MGC platform

MGC platform — powerful support for multipoint voice, video, unified, and gateway conferencing.



Multinetwork support for voice, video, and unified conferences

- IP (H.323) and ISDN (H.320) video
- PSTN and VoIP voice

Benefits

- Leverage switched and packet network services across voice and video conferences
- Investment protection when migrating to other networks

Flexible deployment options

- Choice of MGC platforms
 - MGC 100 – Customizable, large enterprise/carrier-class platform
 - MGC 50 – Customizable, enterprise platform
 - MGC 25 – “Plug and Play” value, compact platform
- Centralized or distributed network deployments
- Easy migration path from VoicePlus or VideoPlus MGC configurations to Unified Conferencing

Benefits

- Highly reliable and easy to support in any conferencing environment
- Implement when, where, and how you need conference support

Transcoding

- MGC 50 and MGC 100
 - Networks – IP/H.323, ISDN/H.320
 - Network Speed – 128 Kbps up to 2 Mbps
 - Resolution – QCIF or CIF
 - Video Algorithms – H.261, H.263, H.264+
 - Frame Rate – 7.5 fps-30 fps – 60 fields-per-second
 - Data Rates – 6.4-46.4 Kbps MLP, 64-128 Kbps HMLP
 - Endpoints connect at their optimal capability
- MGC 25, MGC 50, and MGC 100
 - Audio Algorithms G.711, G.722, G.722.1, G.723, G.728, Siren 7, Siren 14

Benefits

Shortens call set up time, improves conference call connectivity, and increases reliability. Protects users' investments in endpoints because capabilities are preserved when connecting to a multipoint call.



Resource sharing

- Software Resource Sharing
 - MGC operating system software
- Unified Conference Suite
 - IVR/DTMF
 - Greet and Guide
 - Virtual Conference Suite
 - Virtual meeting rooms
 - Single number per conference
 - Auto-detect endpoint capabilities
 - Auto-extend and terminate the conference
 - Packet Commander
- Hardware Resource Sharing
 - MGC platform
 - Audio, video, network, and data modules

Benefits

- Lower costs to purchase and support
- Inherent backup of system resources
- Consistent conference features and performance across all conferencing services

Unique IP QoS support

- Packet Commander reorders and synchronizes incoming IP packets for video and voice calls
- IP Error Resiliency
 - Dynamic jitter buffer for minimum lip synch
- IP Precedence Support
- IP DiffServ Support

Benefits

Ensures highest quality conferences while running real-time video and voice applications over an IP network.

Security and firewall

- Works with existing data firewalls and securely handles IP voice and video traffic between private and public IP networks.
- The MGC platform firewall solution is Check Mark certified.

Benefits

Provides security for video and voice applications without opening ports on the existing data firewall.

Unified Conferencing Revolutionary video, voice, and Unified Conferencing on one MGC platform

MGC platform management tools

- MGC Manager – Windows-based application for configuration, scheduling, and monitoring
- WebCommander – Web-based management and end-user conference scheduling package
 - Easy scheduling of voice, video, and unified conferences using Microsoft Outlook
 - IVR/DTMF – Keypad or keyboard interface to conference features
- Complete API Software Developers Kit (SDK)
- CDR Collector
- Audio alerts for operator notification of conference status

Benefits

- One scheduling and management tool regardless of the user type – end user, operator, network administrator – for your entire voice, video, and unified conferences
- Fast integration with third-party applications
- Conference reporting and billing reports for all conferencing activity with one application

Technical specifications

Audio support

- G.711a, G.711u, G.722, G.722.1, G.723.1, G.728, Siren 7, Siren 14

Video support

- H.261, H.263, H.264+
- 30 frames per second, 60 fields per second
- QCIF and CIF video resolution

Conference data rates

- 128 Kbps to 2 Mbps

Network interface support

- 10/100 Ethernet
- 2 PRI Interface ISDN and Dedicated, T1/E1
- 4 PRI Interface ISDN and Dedicated, T1/E1
- 8 PRI Interface ISDN and Dedicated, T1/E1

MGC 100 chassis dimensions

- Height 40.8 cm (16 inches)
- Width 58.4 cm (23 inches)
- Depth 50.2 cm (19 inches)
- 16 Slot Chassis Power
 - 3 load sharing 110-240 VAC, 50/60 Hz, -48 DC
- NEBS Level 3 Compliance with special-order systems

MGC 50 chassis dimensions

- Height 40.8 cm (16 inches)
- Width 38.1 cm (15 inches)
- Depth 50.2 cm (19 inches)
- Optional 19-inch rack mount kit
- 8 Slot Chassis Power
 - 120-230VAC, 50/60Hz

MGC 25 chassis dimensions

- Height 2U
- Width 19 inches
- Depth 17.5 inches
- Power 100-240 VAC, 50/60Hz

MGC 50 and MGC 100 chassis operating environment

- Operating Temp 10° to 40° C (50° Environment to 104° F), 3400 BTU per hour
- Storage Temperature -40° to 70° C (-40° to 158° F)
- Relative Humidity 15% to 90% noncondensing
- Operating Altitude Up to 3,000 m (10,000 ft)
- Storage Altitude Up to 12,000 m (40,000 ft)
- Operating ESD +8kV
- Storage ESD +15kV

MGC 25 chassis operating environment

- Operating Temp 10° to -40° C (50° to -104° F), BTU per hour
- Storage Temperature -40° to -70° C (40° to -158° F)
- Relative Humidity 15% to 90% noncondensing
- Operating Altitude Up to 3,000 m (10,000 ft)
- Storage Altitude Up to 12,000 m (40,000 ft)
- Operating ESD +8kV
- Storage ESD +15kV

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Specifications subject to change without notice.

Please consult your Polycom representative for specific feature availability.



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