Polycom® RealPresence® Distribution Media Application™ (DMA®)

Providing unsurpassed quality, resiliency, and scale for your telepresence network

In today’s fast paced business environment, companies are challenged to do more with less. Employees are dispersed in many locations and using multiple UC devices such as tablets, PCs, smart phones, and a multitude of collaboration applications. Despite the challenges of expanding scale and providing support for a plethora of device types, network administrators need to ensure that video collaboration is reliable and easy, no matter where employees are working or what device they are using.

Enabling the growing demand for video collaboration from any device anytime and from any place increases the necessity for seamless integration of once disparate networks. As a mission critical collaboration tool, telepresence must be as resilient and redundant as other mission critical UC solutions, such as data network, voice and email solutions. And like those solutions, telepresence support must be part of the overall business continuity plan for any small or large outage scenario.

Unifying communications

The powerful Polycom® RealPresence® DMA® call processing software engine allows users to connect regardless of protocol standard, device, network, or location making communication between employees, partners and customers simple, yet effective. Administrators can expand and offer new services by leveraging existing communication network investments through the Polycom RealPresence DMA unifying call control application. With the broadest partner support, centralizing the dial plans, provisioning, and management is simplified—without complex reconfigurations or replacements of bridges or voice IP PBXs.

Reliable and scalable virtualized video services

The highly resilient and scalable Polycom RealPresence DMA solution supports any size video network from small deployments of less than 100 devices to an unmatched scale of 25,000 concurrent calls and 75,000 registrations for the largest available networks. Intelligent load-balancing and redundant auto-failover, configured in geographically distributed super clusters, deliver unmatched resiliency. Telepresence is now as reliable and available as other mission critical communications, such as voice solutions. Utilizing intelligent algorithms, the powerful software inside the RealPresence DMA solution dynamically routes calls throughout the network based on priority, class of service, resource availability, network outage, and highly efficient load balancing and virtualization of bridging resources. Centralized reporting and monitoring and native integration with Microsoft® Active Directory® dramatically simplifies “meeting room” provisioning and slashes ongoing administration costs.

Benefits

- **Universal dial plan**—Connect regardless of protocol standard, device, network, or location, providing seamless connectivity without complex reconfiguration of UC environments; reducing costs and extending the value and reach of existing UC investments
- **Unmatched scale**—Supports 75,000 device registrations and 25,000 concurrent calls, and provides load balancing and MCU resource management for up to 64 bridges for the most demanding environments
- **Highest resiliency**—Redundant application servers and databases, with geographically distributed super clusters, eliminate single points of failure and provide full 100% auto-failover
- **Simplified administration**—User accounts and personal meeting rooms are automatically provisioned centrally, with little or no administrative effort
- **Increased resource utilization**—Advanced routing algorithms maximize resource utilization and dynamically distribute calls to the optimal media server
- **API suite**—XML Standards based API suite for custom provisioning, conference management, billing and resource reporting applications. Combine with Polycom RealPresence Resource Manager APIs for a complete video conferencing management API solution
Product specifications

Call control features
- SIP Registrar—75,000 devices
- SIP Proxy
- Telepresence Interoperability Protocol (TIP)
- Scalable Video Coding (SVC)
- H.323 Gatekeeper—75,000 devices
- SIP to H.323 Gateway (500 calls)
- IPv4/IPv6 - H.3232 and SIP
- Network bandwidth management
- Priority-based routing
- Class of Service with Juniper Networks
- Advanced dial plan management (Numerous dial options/Flat dial plan/MCU prefix dialing/ISDN gateway dialing/Prefixed dialing/Polycom One Dial)
- Flexible call models—Ad hoc dial in, dial out, scheduled calls via Polycom® RealPresence® Resource Manager API

Application features
- Redundant/fault tolerant application clusters
- Cluster/supercluster configuration
- Geographical distribution of application cluster
- Geographic distribution of media servers
- Auto cascade for size and bandwidth
- Automatic call routing using H.323/SIP
- API Suite for provisioning, billing and conference management
- Polycom® RealPresence® Resource Manager/DMA share bridge resources
- Automatic SIP conference failover
- Unified communications support
- Configurable conference templates
- Configurable group policies
- Support for Polycom® RealPresence® CloudAXIS™ Suite v1.1

System capacity
- Single node: 64 Polycom® RealPresence® Collaboration Server 1500/2000/4000 and RealPresence Collaboration Server 800s, Virtual Edition platforms and Codian 4x00/MSE8000
- 5000 audio/video concurrent calls
- 15,000 device registrations
- Super cluster: 64 RealPresence Collaboration Server 1500/2000/4000 and RealPresence Collaboration Server 800s, Virtual Edition platforms and Codian 4x00/MSE8000
- 25,000 audio/video concurrent calls
- 75,000 device registrations

Reliability
- Supports full redundancy with automatic failover
- Cluster and super cluster configurations for full redundancy with automatic failover throughout the network
- High system availability
  - Duplicate application servers (clusters)
  - Geographically distributed application clusters
  - Replicated databases
  - Synchronized data updates and call processing
- Media server and dynamic resource (port) management
  - Multiple routing policies: zone-based, least used, priority, Class of Service with Juniper Networks
  - Media server management

System management
- Web-based real-time dashboard for network administration
- Real-time data updates on capacity and system information
- Capacity histogram of high water daily port utilization
- Policy-based device/resource controls
- API Suite for provisioning, billing and conference management
- Auto accounts and conference room creation when using corporate Microsoft® Active Directory®
- Logging, alarming, notification and audit records for trouble shooting, diagnostics and reporting
- SNMP v3 network management
- Quick initial configuration

Protocol support
- E164 dialing
- H.323 video
- H.323 audio
- SIP audio/video support
- PSTN/ISDN Audio/Video via RealPresence Collaboration Server 2000/4000/2000/4000

Security
- Secure appliance-based architecture
- Linux operating system
- Integration with existing IT access control mechanisms e.g., Active Directory®
- Lock-down of all nonessential services

Warranty
- One-year return to factory parts and labor

Physical dimensions
- Dimension with bezel attached: (W x H x D) 17.09 x 1.68 x 27.58 in (43.4 x 4.28 x 70.05 cm)
- Weight: 35 lbs (15.87 Kg), maximum configuration
- AC configuration with redundant 750W hot-plug auto-switching universal 110/220V AC power supplies
- Processor: 2x ES-2620 Intel® Xeon® Processor, 2.0 Ghz with Turbo Hyperthreading or better
- RAM: 16 GB 1333 MHz or better
- 2x 146 GB HDD 15,000 rpm, running in a raid 1 configuration
- Rack: Rack mounting rail options

Environmental
- Operating temperature: 50–95% F (10–35º C)
- Operating relative humidity 20–80% non-condensing conditions

Regulatory compliance
- Full FCC/CE/CCC and other compliance information may be found at: www.polycom.com/support

Technical documentation
- Award-winning documentation for setting up, maintaining, and using the system are available at: www.polycom.com/videodocumentation

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.

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