Polycom® RealPresence® Distributed 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.
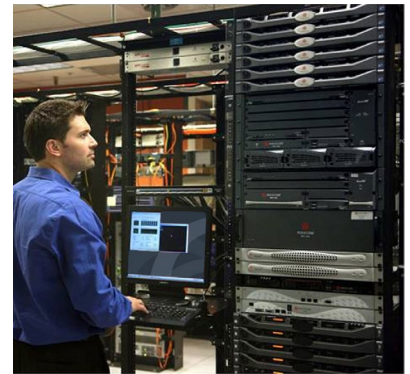
Enabling the growing demand for video collaboration from any device anytime and from any place increases the necessity for seamless integration of once disparate networks. As a mission critical collaboration tool, telepresence must be as resilient and redundant as other mission critical UC solutions, 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® solution 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 system. 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 in the most demanding environments

- **Highest resiliency**—Redundant application servers and databases, with geographically distributed super clusters, ensures high availability services

- **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

Application specifications

Highlights

- 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/RealPresence DMA share bridge resources
- Automatic SIP conference failover
- Unified communications support
- Configurable conference templates
- Configurable group policies
- Support for Polycom® RealPresence® Web Suite
- Support of Multiple Dial Plans
- HTML5 User Interface for Administration
- Point to Point call to VMR Escalation (works with Group Series v6.2 or higher)

Supported protocols

- E.164 dialing
- H.323 audio/video
- SIP audio/video support
- PSTN/ISDN Audio/Video via RealPresence Collaboration Server 2000/4000
- Telepresence Interoperability Protocol (TIP)
- Scalable Video Coding (SVC)

Reliability

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

Capacity

- Supports up to 64 Polycom RealPresence Collaboration Servers and Cisco Telepresence MCU
- Single cluster (node) supports:
  - Point to point concurrent calls: 5000
  - VMR concurrent calls:
    - SIP 2400
    - H.323 1200
- Supercluster supports:
  - Point to point concurrent calls: 25000
  - VMR concurrent calls:
    - SIP = 7200
    - H.323 = 3600

Security

- Linux operating system
- Integration with existing IT access control mechanisms e.g., Microsoft® Active Directory®
- US DoD UC APL Certified. See the *Polycom US Federal Government Accreditation site* for details

Call control features

- SIP registrar
- SIP proxy
- H.323 gatekeeper
- 500 concurrent SIP/H.323 GW calls
- IPv4/IPv6 - H.323 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/ Prefix dialing/Polycom One Dial)
- Flexible call models—Ad hoc dial in, dial out, scheduled calls via Polycom RealPresence Resource Manager API

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

Services available

- Polycom® RealPresence® Platform Solution Design
  - Design the right deployment plan for your environment
- Video Network Readiness Services
  - Prepare your network for reliable high quality video service
- Remote Implementation Services
  - Deploy smoothly and efficiently
- User Adoption Services
  - Increase usage through training and awareness
- Support Services
  - Access features and enhancements as released, reduce downtime

Full hardware specifications can be found in the *RealPresence Platform hardware specifications sheet*.

Software specifications can be found in the *RealPresence Platform, Virtual Editions data sheet*.

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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