



DATA SHEET

Polycom® RealPresence® Virtualization Manager (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

As the key Virtualization Management solution in the Polycom® RealPresence® Platform, the powerful Polycom RealPresence Virtualization Manager (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 Virtualization Manager (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 Virtualization Manager (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 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 Active Directory® (AD) 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

Polycom RealPresence Virtualization Manager (DMA)

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)
- Network bandwidth management
- Priority-based routing
- Class of Service with Juniper Networks
- Site topology
- 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 Resource Manager API

Application Features

- Redundant/fault tolerant application nodes
- Cluster/super cluster configuration
- Geographical distribution of application servers
- Geographic distribution of media servers
- Auto intelligent cascade
- Automatic call routing using H.323/SIP
- API Suite for provisioning, billing and conference management
- CMA/DMA share bridge resources
- Automatic conference failover
- Unified communications support
- Configurable conference templates
- Configurable group policies

System Capacity

- Single node: 64 Polycom RMX® 1500/2000/4000 platforms and Codian 4x00/MSE8000
- 5000 audio/video concurrent calls
- 15,000 device registrations
- Super cluster: 64 Polycom RMX 1500/2000/4000 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
 - Geographically distributed application servers
 - Duplicate databases
 - Synchronized data updates and call processing
- Media server and dynamic resource (port) management
 - Multiple routing policies: zone-based, least used, round robin, priority, Class of Service with Juniper Networks
 - Busy out media servers for software or system capacity upgrades
 - Route to other media servers based on round robin and least used policies

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 Active Directory
 - Logging, alarming, notification and audit records for trouble shooting, diagnostics and reporting
 - SNMP v3 network management
 - Quick initial configuration
- ## Protocol support
- E.164 dialing
 - H.323 (IP) video
 - H.323 (IP) audio
 - SIP audio/video support
 - PSTN Audio via RMX 1500/2000/4000

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
- Hardware specifications per server – Detailed information may be found at: www.polycom.com/support

Physical Dimensions

- Form factor: 1U rack-mountable chassis
- 29.31" (74.4cm) D x 17.5" (44.43cm) W x 3.4" (8.64cm) H with bezel attached
- Rack weight 50.71 lbs (23 Kg) with rails
- Power: 2x power supplies (redundant configuration)
- AC configuration with redundant 750W hot-plug auto-switching universal 110/220V AC power supplies

Environmental

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

Regulatory Compliance

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

Service and Support

- Service support agreements are available. Please contact your Polycom Reseller or Sales representative for more details.

Technical Documentation

- Complete server specifications, Regulatory Compliance information, and 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 (UC) 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. Polycom and its ecosystem of over 7,000 partners provide truly unified communications solutions that deliver the best user experience, highest multi-vendor interoperability, and lowest TCO. Visit www.polycom.com or connect with us on Twitter, Facebook, and LinkedIn to learn how we're pushing the greatness of human collaboration forward.

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