

Release Notes

Polycom® Distributed Media Application™ 7000 System, Version 1.1



POLYCOM®

Polycom® announces the general-availability release of its Polycom® Distributed Media Application™ (DMA™) 7000 System, Version 1.1. This document provides the latest information about this release.

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Introducing the Polycom DMA™ 7000 System

Polycom® is pleased to announce the release of its Polycom® Distributed Media Application™ (DMA™) 7000 System, version 1.1.

The Polycom DMA 7000 system is a centralized application for efficiently managing and distributing multipoint conferences throughout the network. It:

- ❑ Provides a highly reliable and scalable multipoint conferencing solution that distributes audio and video calls across multiple media servers (MCUs), creating a single seamless resource pool. The system essentially behaves like a single large MCU, which greatly simplifies video conferencing resource management and improves efficiency.
- ❑ Integrates with your enterprise directory, automating the task of provisioning users for video conferencing. Combined with its advanced resource management, this makes ad hoc video conferencing on a large scale feasible and efficient, reducing or eliminating the need for conference scheduling.
- ❑ Supports up to 10 RMX 2000 MCUs and 1200 concurrent calls. MCUs can be added on the fly without impacting end users and without requiring re-provisioning.
- ❑ Can be configured as a cooperative active/active two-node cluster, with both servers actively registered and able to accept and process calls. In this configuration, the system is highly reliable, with no single point of failure.

What's New

The Polycom DMA system version 1.1 includes the following new features. For more information on these new features, see the *Polycom DMA System Operations Guide* and the online help.

❑ MCU zones and zone orders

The MCUs connected to the Polycom DMA system can be organized into the MCU zones, or logical groupings of media servers. A zone may pool MCUs based on location, capability, or some other factor. An MCU can belong to multiple zones.

An MCU zone order contains one or more MCU zones and specifies the order of preference in which the zones are used.

Enterprise groups can be associated with an MCU zone order. This lets you, for instance, ensure that all users in a specific domain are preferentially routed to conferencing resources in their geographic location. Conference rooms can also be associated with an MCU zone order.

❑ Improved conference templates

Conference templates no longer need to be linked to a conference profile on a Polycom RMX MCU. You can specify the individual conference properties directly in the Polycom DMA system, including video settings, skins, and conference IVR.

Alternatively, it's now easier to link a template to an RMX conference profile. The Polycom DMA system now queries each connected MCU for a list of available profiles. You can pick a profile from the list, which also shows how many MCUs have each profile.

- ❑ Improved Active Directory (AD) integration

The Polycom DMA system now integrates with single-forest, multi-tree directory structures. The Base DN (distinguished name) filter setting lets you restrict the system to work with a subset of the AD, such as a single tree, a subtree, or a domain, if desired.

Auto discovery from FQDN (fully qualified domain name) makes integration simpler and more robust. The Polycom DMA system automatically discovers the global catalog servers for the site to which it belongs and connects to one of them.
- ❑ Enhanced enterprise group support

The Polycom DMA system now uses indexed searches and lets you select a domain to search. It returns a maximum of 1000 groups per search. Performance is greatly improved.

Support for global groups and nested (hierarchical) groups has been added. The Polycom DMA system connects to multiple domain controllers to build its cache and resolve group membership. Groups can belong to any domain in the forest.
- ❑ New reports
 - Enterprise Directory Integration Report: Displays information about the status and details of the AD connection, the domains in the forest and whether the domain server for each was queried, and any errors in retrieving group membership information.
 - Orphaned Groups and Users Report: Displays information about enterprise users and groups that are no longer in the AD or are no longer accessible to the Polycom DMA system, but for which the system has local data. The orphaned data can be deleted.
- ❑ Optional single-server configuration

The Polycom DMA system is now available in a single-server configuration. This configuration offers all the advantages of the Polycom DMA system except the redundancy and fault tolerance at a lower price. It can be upgraded to a two-server configuration at any time.

The changes made to enable this configuration also simplified the server replacement and recovery process and system upgrades.
- ❑ Other enhancements
 - User interface aligned with Polycom CMA 4.1 system
 - Breadcrumbs and new icons
 - Improved call statistics graph

System Requirements

- ❑ For best reliability, deploy the Polycom DMA 7000 system into a good-quality IP network with low latency and very little packet loss.
 - In systems with enterprise directory integration, the network between the DMA 7000 and the enterprise directory should have less than 200 ms round-trip latency and less than 4% round-trip packet loss.
 - The network between the Polycom DMA system and all RMX MCUs should have less than 200 ms round-trip latency and less than 2% round-trip packet loss. Since this network carries only signaling traffic (the RTP stream goes directly from the endpoint to the MCU), bandwidth is not an issue.

- To ensure a good conferencing experience, the network between the Polycom DMA system and video endpoints should have less than 200 ms round-trip latency and less than 6% round-trip packet loss.
- ❑ Browser requirements
Microsoft Internet Explorer® 7.0, Mozilla FireFox® 3.0

Installation Notes

Installation of new Polycom DMA 7000 systems is managed through Polycom Project Management. For more information, please contact your Polycom representative.

See the *Deploying Visual Communications Administration Guide* for detailed installation requirements and information.

Interoperability

RMX 2000™ MCU Integration

The Polycom DMA system knows only what resources an MCU has currently available, not what's been scheduled for future use. So it may send calls to an MCU that will prevent a scheduled conference from taking place. Therefore, we don't support using the same MCU for both ad hoc and scheduled conferences.

To support the Polycom DMA system's maximum security setting, configure the RMX MCUs being added to the system to accept encrypted (HTTPS) management connections.

The Polycom DMA system uses conference templates to define the conferencing experience associated with a conference room or enterprise group. Conference templates can be free-standing or linked to an RMX conference profile. If you link templates to RMX profiles, make sure the profiles exist and are defined the same on all the RMX MCUs that the Polycom DMA system uses.

Refer to the *Polycom DMA 7000 System Operations Guide* or online help for more information on setting up MCUs for the Polycom DMA system. Refer to the *RMX Administrator's Guide* for more information on enabling encrypted connections and creating RMX profiles.

Polycom CMA™ 5000 System Integration

If the Polycom DMA system is going to use a Polycom CMA system as gatekeeper, the integration process varies depending on the Polycom CMA system's configuration:

- ❑ If the Polycom CMA system has been configured to allow the registration of "All Endpoints," no additional steps are needed to define the Polycom DMA system to the gatekeeper. Once you configure the Polycom DMA system's gatekeeper settings, it automatically registers itself with the Polycom CMA gatekeeper.
- ❑ If the Polycom CMA system has been configured to allow the registration of "Predefined Endpoints Only," the Polycom DMA system must be manually added to the Polycom CMA system:
 1. Add an MCU Service entry for the Polycom DMA system with the following settings:
 - Type is MCU
 - Enable and Available For New Groups are checked

- Service Prefix is the E.164 alias (dialing prefix) to be used for the Polycom DMA system (we recommend setting description to the same value)
2. Add the server or servers in the Polycom DMA system to the Polycom CMA system's list of managed devices. Configure each entry as follows:
 - IP Address is the server's physical IP address (not the system's virtual IP address)
 - Device Type is GW/MCU (in a CMA 4.1 system, device type is DMA)
 - Click Find Device to retrieve information from the server
 - Set Alias Type to E.164, Alias Value to the alias (dialing prefix) to be used for the Polycom DMA system, and click Add Alias

For more information about adding MCU services and devices, please refer to the *Polycom CMA System Operations Guide*.

Polycom Device Version Requirements

Polycom has successfully tested the Polycom DMA system with the version numbers shown of the following devices.

- | | |
|---|--|
| <input type="checkbox"/> Polycom PathNavigator™ 7.00.12 | <input type="checkbox"/> Polycom ViewStation® FX 6.0.5 |
| <input type="checkbox"/> Polycom ReadManager™ SE200 3.00.06 | <input type="checkbox"/> Polycom iPower™ 9000 6.2.1208 |
| <input type="checkbox"/> Polycom RMX 2000™ 4.0.0.78 | <input type="checkbox"/> Polycom PVX™ 8.0.2 |
| <input type="checkbox"/> Polycom CMA™ 5000 4.0.1/4.1.0 | <input type="checkbox"/> Polycom VS 7.5.4 |
| <input type="checkbox"/> Polycom CMA Desktop 4.0.1/4.1.0 | <input type="checkbox"/> Polycom DST B5 V2.0 |
| <input type="checkbox"/> Polycom HDX 9004 2.5.0.2/2.5.1 | <input type="checkbox"/> Polycom DST K60 V2.0.1 |
| <input type="checkbox"/> Polycom HDX 9001 2.5.0.2/2.5.1 | <input type="checkbox"/> Tandberg 6000 MXP F7.2 |
| <input type="checkbox"/> Polycom HDX 8000 2.5.0.2/2.5.1 | <input type="checkbox"/> Tandberg 150 MXP L5.1 |
| <input type="checkbox"/> Polycom HDX 4000 2.5.0.2/2.5.1 | <input type="checkbox"/> Tandberg E E5.3 |
| <input type="checkbox"/> Polycom VSX™ 8000 9.0.5 | <input type="checkbox"/> Lifesize Team/Room/Express 4.0.11 (1) |
| <input type="checkbox"/> Polycom VSX 7000 9.0.5 | <input type="checkbox"/> Sony PCS1 3.41 |
| <input type="checkbox"/> Polycom VSX 6000 9.0.5 | <input type="checkbox"/> Sony G50 2.70 |
| <input type="checkbox"/> Polycom VSX 5000 9.0.5 | <input type="checkbox"/> Sony XG80 2.02 |
| <input type="checkbox"/> Polycom VSX 3000 9.0.5 | <input type="checkbox"/> Aethra VegaStar Gold 6.00.00.0049 |
| <input type="checkbox"/> Polycom VSX 500 9.0.5 | <input type="checkbox"/> Aethra X3 10.7.32 |
| | <input type="checkbox"/> Aethra X7 12.1.7 |



Note: The Polycom CMA 5000 is the only gatekeeper that supports the maximum capacity of the Polycom DMA 7000 system (1200 concurrent calls). The use of other gatekeepers limits the Polycom DMA system capacity to the scale supported by the gatekeeper.

Resolved Issues

The following table lists the resolved issues in this Polycom DMA 7000 system release.

#	Issue
DMA-40	Viewstation 128 and Viewstation SP systems are unable to dial into conferences using the DMA 7000.
DMA-41	Audio quality issues are experienced with Lifesize video endpoints.
DMA-43	Cannot download logs from both nodes after a signed certificate is installed.
DMA-44	System sometimes hangs activating the cluster when one server is shut down by itself.

Known Issues

The following table lists the known issues in this Polycom DMA 7000 system release.

	Summary	Workaround
DMA-52	If the crossover network cable is removed or fails, both servers attempt to become the active web host.	If this happens, you'll see on the dashboard that the private network is down. To recover, shut down both servers, replace the crossover cable, and restart both servers.
DMA-153	When the primary group of a user is changed, AD gives incorrect group membership information.	This is an issue that results from Microsoft Windows 2000 limitations of 5000 users per group and attribute size replication. Using Microsoft Windows Server 2003 Forrest mode removes this limitation.
DMA-249	Different enterprise user counts are being seen on the two servers in a clustered configurations	This issue can be the direct result of the AD configuration. If some of the servers are not global catalogue servers the number of users returned can be different. To work around this, either select "Auto-discover" on the enterprise integration page or manually enter the IP address of the global catalogue server.

Where to Get the Latest Product Information

To view the latest Polycom product documentation, visit the Support section of the Polycom website at www.polycom.com/support.