Release Notes

Polycom® Distributed Media Application™ 7000 System, Version 2.1.0J Release

Polycom® announces the release of its Polycom® Distributed Media Application™ (DMA™) 7000 System, version 2.1.0J. This document provides the latest information about this release.

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3725-76300-001L1 (08/2011)

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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 2.1.0J.

This software meets the latest U.S. Department of Defense network requirements for listing on the Defense Switched Network (DSN) Approved Products List (APL), as maintained by the Joint Interoperability Test Command (JITC).

The Polycom DMA 7000 system is a centralized application for efficiently managing and distributing conferences throughout the network. It has two key components, the Conference Manager function and the Call Server function, described below.

Use of this software constitutes acceptance of the terms and conditions of the Polycom DMA 7000 system end-user license agreement on page 13.

Conference Manager

- Provides a highly reliable and scalable multipoint conferencing solution that distributes voice 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 64 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 two-node cluster, providing a highly reliable system with no single point of failure.

Call Server

- Serves as an H.323 gatekeeper and a SIP registrar and proxy server.
- Supports up to 15,000 device registrations, 500 sites, and 1200 concurrent H.323 calls.
- Provides bandwidth management, and can be integrated with a Juniper Networks Session and Resource Control Module (SRC) to provide bandwidth assurance services.
- Comes with a default dial plan that covers many common scenarios, but which can easily be modified.
- Can be deployed as a *supercluster* of up to five geographically dispersed, but centrally managed, Polycom DMA system clusters (two-node or single-server) to provide even greater reliability, geographic redundancy, and better network traffic management. Up to three of the clusters can have Conference Manager enabled.

  The clusters in a supercluster share a common data store. Each cluster maintains a local copy of the data store, and changes are replicated to all the clusters.

Key Features of This Release

The Polycom DMA system version 2.1.0J release provides the special features and functionality required to deploy the system into a maximum security environment. These features are described briefly below. For more information on these features, see the *Polycom DMA 7000 System Operations Guide* and the online help. To securely deploy the system, see the *Polycom DMA 7000 System Deployment Guide for Maximum Security Environments* and the *Polycom Visual Communications Deployment Guide for Maximum Security Environments*.

- Maximum security mode

  This release provides a maximum security mode for those environments where the most stringent security protocols must be adhered to.

  Enabling the **Maximum security** setting is irreversible and has significant consequences. See "The Consequences of Enabling Maximum Security Mode" on page 4 for a complete list of the special security features enabled by this setting and the features that aren't supported in this mode.

  It's important to note that the Polycom DMA system version 2.1.0J release is not a maximum-security-only release. During initial setup, it can be configured for a lower security level (the **High security** or out-of-the-box default **Custom security** settings). You can switch the system to **Maximum security** at any time after initial installation.

- User certificate validation

  For environments that have implemented a complete public key infrastructure (PKI) system, the system can be configured to require all users accessing the system's management interface must present a client certificate that authenticates them to the Polycom DMA system.

  User certificate validation is a separate option, which can be either on or off in maximum security mode.

- Support for IPv6 addressing

  This release supports both IPv4 and IPv6 addressing. You can enable either or both, either in the USB Configuration Utility during system installation or in the **Network** page of the management interface.

- Support for split management and signaling networks

  This release enables you to use separate network interfaces for management traffic (management interface access) and signaling traffic. You can configure the system for split or combined management and signaling traffic either during system installation or in the **Network** page of the management interface.

- Routing rules

  To help support the enhanced networking functionality, this release enables you to create and delete network routing rules and view the underlying rules of the operating system.

- Anti-virus service

  This release includes an anti-virus service that's automatically enabled in maximum security mode (and can't be disabled). You can schedule periodic scans and updates or perform scans and updates manually.

- Login banner

This release includes a login banner function that's automatically enabled in maximum security mode (and can't be disabled). Users accessing the system must acknowledge the displayed message before being allowed to log in. You can choose from several preloaded messages or create a custom message.

The Consequences of Enabling Maximum Security Mode

Enabling the **Maximum security** setting is irreversible and has the following significant consequences:

- All unencrypted protocols and unsecured access methods are disabled.
- The boot order is changed and USB ports are disabled so that the server(s) can't be booted from the optical drive or a USB device. A BIOS password is set.
- The port 443 redirect is removed, and the system can only be accessed by the full URL (https://<IP>:8443/dma7000, where <IP> is one of the system's management IP addresses or a host name that resolves to one of those IP addresses).
- For all server-to-server connections, the system requires the remote party to present a valid X.509 certificate. Either the Common Name (CN) or Subject Alternate Name (SAN) field of that certificate must contain the address or host name specified for the server in the Polycom DMA system.

  Polycom RMX MCUs don't include their management IP address in the SAN field of the CSR (Certificate Signing Request), so their certificates identify them only by the CN. Therefore, in the Polycom DMA system, an RMX MCU's management interface must be identified by the name specified in the CN field (usually the FQDN), not by IP address.

  Similarly, an Active Directory server certificate often specifies only the FQDN. So, in the Polycom DMA system, identify the enterprise directory by FQDN, not by IP address.
- SIP signaling is not supported.
- Calendaring service can't be enabled, and the Polycom DMA system doesn't support virtual meeting rooms (VMRs) created by the Polycom Conferencing Add-in for Microsoft Outlook.
- Integration with a Polycom CMA system is not supported.
- On the **Login Banner** page, **Enable login banner** is selected and can't be disabled.
- On the **Sessions** page, the **Terminate Session** action is not available.
- On the **Tools** menu, **Top** is removed.
- In the **Add User** and **Edit User** dialog boxes, conference and chairperson passwords are obscured.
- After **Maximum security** is enabled, users must change their passwords.
- If the system is not integrated with an enterprise directory, each local user can have only one assigned role (Administrator, Provisioner, or Auditor).

  If some local users have multiple roles when you enable the **Maximum security** setting, they retain only the highest-ranking role (Administrator > Auditor > Provisioner).
- If the system is integrated with an enterprise directory, only one local user can have the Administrator role, and no local users can have the Provisioner or Auditor role.

If there are multiple local administrators when you enable the **Maximum security** setting, the system prompts you to choose one local user to retain the Administrator role. All other local users, if any, become conferencing users only and can't log into the management interface.

Each enterprise user can have only one assigned role (Administrator, Provisioner, or Auditor). If some enterprise users have multiple roles (or inherit multiple roles from their group memberships), they retain only the lowest-ranking role (Administrator > Auditor > Provisioner).

- Local user passwords have stricter limits and constraints (each is set to the noted default if below that level when you enable the **Maximum security** setting):
  - Minimum length is 15-30 characters (default is 15).
  - Must contain 1 or 2 (default is 2) of each character type: uppercase alpha, lowercase alpha, numeric, and non-alphanumeric (special).
  - Maximum number of consecutive repeated characters is 1-4 (default is 2).
  - Number of previous passwords that a user may not re-use is 8-16 (default is 10).
  - Minimum number of characters that must be changed from the previous password is 1-4 (default is 4).
  - Password may not contain the user name or its reverse.
  - Maximum password age is 30-180 days (default is 60).
  - Minimum password age is 1-30 days (default is 1).
- Other configuration settings have stricter limits and constraints (each is set to the noted default if below that level when you enable the **Maximum security** setting).

  Session configuration limits:
  - Sessions per system is 4-80 (default is 40).
  - Sessions per user is 1-10 (default is 5).
  - Session timeout is 5-60 minutes (default is 10).

  Local account configuration limits:
  - Local user account is locked after 2-10 failed logins (default is 3) due to invalid password within 1-24 hours (default is 1).
  - Locked account remains locked either until unlocked by an administrator (the default) or for a duration of 1-480 minutes.
- Software build information is not displayed anywhere in the interface.
- You can't restore a backup made before the **Maximum security** setting was enabled.
- File uploads may fail when using the Mozilla Firefox browser unless the proper steps have been taken. See the *Polycom DMA 7000 System Deployment Guide for Maximum Security Environments*, the *Polycom DMA 7000 System Operations Guide*, or the online help.

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.
- The network between the Polycom DMA system and the enterprise directory (if integrated) 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 MCUs should have less than 200 ms round-trip latency and less than 2% round-trip packet loss. Since it carries only signaling traffic (the RTP stream goes directly from endpoint to MCU), bandwidth is not an issue.
- 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 minimum requirements: Microsoft Internet Explorer® 7.0, Mozilla Firefox® 3.0

Installation and Upgrade 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. See the *Polycom DMA 7000 System Deployment Guide for Maximum Security Environments* and the *Polycom Visual Communications Deployment Guide for Maximum Security Environments* for the procedures required to deploy the system securely.

Version 2.1.0J is not available as an upgrade. A fresh install is required.

Polycom Solution Support

Polycom Implementation and Maintenance services provide support for Polycom solution components only. Additional services for supported third-party Unified Communications (UC) environments integrated with Polycom solutions are available from Polycom Global Services and its certified Partners. These additional services will help customers successfully design, deploy, optimize, and manage Polycom visual communications within their UC environments.

Professional Services for Microsoft Integration is mandatory for Polycom Conferencing for Microsoft Outlook and Microsoft Office Communications Server integrations. For additional information, please see http://www.polycom.com/services/professional_services/index.html or contact your local Polycom representative.

Interoperability

Integration with Polycom RMX™ 1500/2000/4000 MCUs

To support the Polycom DMA system's **High security** setting, configure the Polycom RMX MCUs being added to the system to accept encrypted (HTTPS) management connections. To support the **Maximum security** setting, the MCUs must also present valid certificates to the Polycom DMA system.

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 *Polycom RMX Administrator's Guide* for more information on enabling encrypted connections and creating RMX profiles.

Note: The Automatic Password Generation feature, introduced in RMX version 7.0.2, is not compatible with the Polycom DMA system. Don't enable this feature on Polycom RMX MCUs to be used with the Polycom DMA system.

Device Version Requirements

Polycom has successfully tested the Polycom DMA system in maximum security mode with the following devices.

Device	Version
Polycom PathNavigator	7.0.14
Polycom RMX 1500/2000/4000 (MPM= or MPMx cards)	7.5.0.J
Polycom CMA5000	5.2.0J
Polycom HDX	2.7.0_J
Polycom MGC 100	9.0.1.29
Tandberg MXP Family	F7.3.1
Lifesize -- VTC -- Room	SW Rel. 4.2.10(5) and Networker with SW Rel. 3.1.1(4)

Ports Used in Maximum Security Mode

Port	Usage
8443	Web UI access
8444	Superclustering administration
1719	RAS
1720	H.225 (if GK is enabled)
32768-35168	Default H.245 port range (if GK is enabled)

Ports Used in Less Than Maximum Security Mode

Port	Usage
22	SSH (if Linux console access is enabled)
80	Redirects to 443
443	Redirects to 8443
8443	Web UI access
8444	Superclustering administration
4449	OpenDS replication (superclustering)
5060	unencrypted SIP (if SIP is enabled; configurable by DMA administrator)

Port	Usage
5061	SIP TLS (if SIP is enabled; configurable by DMA administrator)
1719	RAS
1720	H.225 (if GK is enabled)
32768-35168	default H.245 port range (if GK is enabled)

Open Source Software

The Polycom DMA system uses several open source software packages, including the CentOS operating system. The packages containing the source code and the licenses for this software are included on the Polycom DMA system software DVD in the /SRPMS directory.

The following table lists the open source software packages used in the Polycom DMA system, the applicable license for each, and the internet address where you can find it.

Software	Version	License	Link
Axis	1.4.2	Apache License, Version 2	http://www.apache.org/licenses/LICENSE-2.0
bsf	2.3.0-rc1	Apache License, Version 2	http://www.apache.org/licenses/LICENSE-2.0
CentOs	5.5 (Final)	GPLv2	https:/www.redhat.com/licenses/gpl.html
Cluster-glue	1.0.5	GPLv2	http://www.gnu.org/licenses/old-licenses/gpl-2.0.html
commons-beanutils	1.7	Apache License, Version 2	http://www.apache.org/licenses/LICENSE-2.0
commons-collections	3.2	Apache License, Version 2	http://www.apache.org/licenses/LICENSE-2.0
commons-configuration	1.5	Apache License, Version 2	http://www.apache.org/licenses/LICENSE-2.0
commons-digester	1.6	Apache License, Version 2	http://www.apache.org/licenses/LICENSE-2.0
commons-discovery	0.2	Apache License, Version 2	http://www.apache.org/licenses/LICENSE-2.0
commons-fileupload	1.2.1	Apache License, Version 2	http://commons.apache.org/fileupload/license.html
commons-httpclient	3.0.1	Apache License, Version 2	http://www.apache.org/licenses/LICENSE-2.0
commons-io	1.4	Apache License, Version 2	http://www.apache.org/licenses/LICENSE-2.0
commons-jexl	1.0	Apache License, Version 2	http://www.apache.org/licenses/LICENSE-2.0
commons-jxpath	1.2	Apache License, Version 2	http://www.apache.org/licenses/LICENSE-2.0
commons-lang	2.3	Apache License, Version 2	http://www.apache.org/licenses/LICENSE-2.0
commons-logging	1.0.4	Apache License, Version 2	http://www.apache.org/licenses/LICENSE-2.0
commons-pool	1.3	Apache License, Version 2	http://www.apache.org/licenses/LICENSE-2.0
corosync	1.2.5	BSD	http://opensource.org/licenses/bsd-license.php
dom4j	1.5.2	BSD-style	http://www.dom4j.org/license.html

Software	Version	License	Link
drools	4.0.0	Apache License, Version 2	http://www.apache.org/licenses/LICENSE-2.0
Hibernate Annotations	4.2.1.GA	LGPLv2.1	http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html
Hibernate (core)	3.2.4 SP 1	LGPLv2.1	http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html
Hsqldb	2.0.1-rc1	BSD-style	http://hsqldb.org/web/hsqlLicense.html
JAF	1.1	Sun	https://cds.sun.com/is-bin/INTERSHOP.enfinity/WFS/CDS-CDS_Developer-Site/en_US/-/USD/ViewLicense-Start?LicenseUUID=mtrACUFBzm4AAAEYkcI5AXh_&ProductUUID=zFnACUFBlVoAAAEYhxc5AXt.&cnum=&evsref=&sln=
jamon	2.2	BSD-style	http://jamonapi.sourceforge.net/#JAMonLicense
Java JRE	1.6.0.20	Sun Microsystems, Binary Code license (BCL)	http://www.java.com/en/download/license.jsp
JavaMail	1.4	Sun	https://cds.sun.com/is-bin/INTERSHOP.enfinity/WFS/CDS-CDS_Developer-Site/en_US/-/USD/ViewLicense-Start?LicenseUUID=CgxIBe.odCIAAAElFCZzXgjJ&ProductUUID=r5dIBe.pitEAAAElUJJh6wjK&cnum=&evsref=&sln=
JBOSS AS	4.2.1 GA	LGPLv2.1	http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html
Jboss-aop	1.5.5	LGPLv2.1	http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html
Jboss-cache	1.4.1.sp14	LGPLv2.1	http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html
Jboss-jaxws	2.0.0.GA	LGPLv2.1	http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html
Jboss-jmx	4.2.1.GA	LGPLv2.1	http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html
Jboss-remoting	2.2.2.sp1	LGPLv2.1	http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html
Jboss-serialization	4.2.1.GA	LGPLv2.1	http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html
Jgroups	2.4.8.GA	LGPLv2.1	http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html
jcifs	1.3.2	LGPLv2.1	http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html
jna	3.0.9 b0	LGPLv2.1	http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html
joesnmp	0.3.4	LGPLv2.1	http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html
libesmtp	1.0.4	LGPLv2.1	http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html
libnet	1.1.4		
libxml2	1.2.3	MIT License	http://www.opensource.org/licenses/mit-license.html
Log4j	1.2.14	Apache License, Version 2	http://www.apache.org/licenses/LICENSE-2.0
NSS	3.12.8	Mozilla Public License v1.1	http://www.mozilla.org/projects/security/pki/nss/faq.html#q3.1
NSS Tools	3.12.8	Mozilla Public License v1.1	http://www.mozilla.org/projects/security/pki/nss/faq.html#q3.1
NTP	4.2.2p1	Open Software License v3.0	http://www.opensource.org/licenses/ntp-license.php
OpenDS	2.2.0	CDDL	http://www.opensource.org/licenses/cddl1.php
openSSH	4.3p2	OpenSSH	http://www.openssh.org
openSSL	0.9.8e	OpenSSL	http://www.openssl.org/source/license.html
Python	2.4.3	Python Software Foundation License Version 2	http://python.org/download/releases/2.6.2/license
Quartz	1.5.2	Apache License, Version 2	http://www.apache.org/licenses/LICENSE-2.0

Software	Version	License	Link
Snmp4j	1.10.2	Apache License, Version 2	http://www.apache.org/licenses/LICENSE-2.0
sudo	1.7.2p1	ISCL	https://www.isc.org/software/license
Xerces2	See JBoss	Apache License, Version 2	http://www.apache.org/licenses/LICENSE-2.0
The packages below are included in the Polycom DMA system as a consequence of being embedded in the Java Platform, Standard Edition Embedded, version 6.0. License text is available at http://downloads.polycom.com/Oracle/THIRDPARTYLICENSEREADME.TXT			
CS CodeViewer	v1.0	BSD-like	
Crimson	v1.1.1	Apache 1.1	
Xalan J2		Apache 2.0	
NSIS	1.0j	(see license file)	
IAIK PKCS Wrapper		BSD-like	
Document Object Model (DOM)	v. Level 3	W3C SOFTWARE NOTICE AND LICENSE	
Xalan, Xerces		Apache 1.1	
W3C XML Conformance Test Suites	v. 20020606	W3C SOFTWARE NOTICE AND LICENSE	
W3C XML Schema Test Collection	v. 1.16.2	W3C SOFTWARE NOTICE AND LICENSE	
Mesa 3-D graphics library	v. 5	Core Mesa library: XFree86 copyright (an MIT-style license) Mesa source code: SGI FREE SOFTWARE LICENSE B (Version 1.1 [02/22/2000])	
Byte Code Engineering Library (BCEL)	v. 5	Apache 1.1	
Regexp Regular Expression Package	v. 1.2	Apache 1.1	
CUP Parser Generator for Java	v. 0.10k	(general permissive license)	
JLex: A Lexical Analyzer Generator for Java	v. 1.2.5	(general permissive license)	
SAX	v. 2.0.1	Public Domain	
Cryptix		Cryptix General License	
W3C XML Schema Test Collection		W3C DOCUMENT NOTICE AND LICENSE	
Stax API		BEA License (unique terms)	

Software	Version	License	Link
X Window System		(general permissive license)	
dom4j v. 1.6		BSD-like	
Retroweaver		(general permissive license)	
Stripper		BSD-like	
libpng official PNG reference library		(general permissive license)	
Libungif – An uncompressed GIF library		(general permissive license)	
Ant		Apache 2.0	
XML Resolver Library		Apache 2.0	
ICU4J		ICU License	
NekoHTML		Apache-like (1.1)	
Jing		(general permissive)	
RelaxNGCC		(general permissive)	
RELAX NG Object Model/Parser		MIT License	
XFree86-VidMode-Extension		Version 1.1 of Project Licence (BSD-like)	
RelaxNGCC		Info-ZIP copyright and license, v. 2003-May-08	ftp://ftp.info-zip.org/pub/infozip/license.html)
XML Security		Apache 1.1	
Regexp, Regular Expression Package	v. 1.2	Apache 1.1	
Zlib		(general permissive)	
Mozilla Rhino		Netscape Public License Version 1.1	
Apache Derby		Apache 2.0	
7-Zip		(see file) Some files are LGPLv2.1; some have the unRAR restriction; some are licensed under AES code license	
UPX		GPL	
LZMA Software Development Kit		Common Public License (CPL)	
The packages below are included in the Polycom DMA system as a consequence of being embedded in the McAfee AV SDK.			
OpenSSL		Apache 2.0-like	http://www.openssl.org/

Software	Version	License	Link
STLPort		(general permissive)	http://www.stlport.org/doc/license.html
PRCE		BSD	BSD (http://www.pcre.org/licence.txt)
Mod_SSL		BSD-style	BSD-style (http://www.modssl.org)
Bind.hpp		(general permissive)	http://www.boost.org/LICENSE_1_0.txt

Known Issues

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

Issue ID	Found in Version	Description	Workaround
DMA-3750	2.1.0J	In a two-node cluster, under certain adverse system and/or network conditions on either node, the virtual address may move between nodes when it shouldn't. This could result in the disconnection of SIP calls and non-legacy-mode H.323 calls.	The system automatically recovers, so disconnected callers can dial back in a short time later (1 - 10 seconds).
DMA-3822	2.1.0J	If Auto adjust for Daylight Saving Time is turned off, the system changes the selected geographic time zone into a generic GMT offset. But it does so incorrectly, failing to reverse the sign of the offset as required for the Posix-standard generic GMT offsets.	Select the time zone of a specific geographic location (such as America/Denver), and always leave Auto adjust for Daylight Saving Time selected.

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.

End User License Agreement for the Polycom DMA 7000 Software

Welcome to Polycom® Distributed Media Application™ (DMA™) 7000
(Software Version 2.1.0J)

Please read the Polycom End User License Agreement below and click on the Accept button to continue.

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