

Release Notes



Polycom® RealPresence® Access Director™, Version 2.1.1

Polycom is pleased to announce this release of the Polycom RealPresence Access Director system. These release notes describe the key details about this release.

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What's New in the Polycom RealPresence Access Director System Version 2.1.1 Release

This release of the RealPresence Access Director system offers the following enhancements and other changes. Each of these changes is discussed in more detail in the following sections.

- [Acceptance of the End-user License Agreement](#)
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Acceptance of the End-user License Agreement

When you install a new RealPresence Access Director system or upgrade from a previous version, the system displays the RealPresence Access Director system End-user License Agreement (EULA) when you open the user interface for the first time.

To read and accept the EULA

- 1 Open a browser and enter the IP address of the RealPresence Access Director system.

The system displays the EULA.

- 2 Click **Accept** to continue to the login screen.

New Name for the RealPresence Access Director System MIB File

Formerly known as *polycom-rpad-mib.mib*, the name of the RealPresence Access Director system MIB file has been changed to *polycom-access-management.mib*.

ICSA Testing and Verification

ICSA Labs, an independent division of Verizon, provides credible, independent, third-party security product testing and certification for many of the world's top security product developers and service providers. ICSA Labs applies objective testing and certification criteria to measure product compliance and performance. This process significantly increases user and enterprise trust in information security products and solutions.

The ICSA Labs Network Security Lab team tested and evaluated the RealPresence Access Director system as a Session Border Controller (SBC) component of the Polycom® RealPresence® Platform. The team evaluated the system's integration with security controls, vulnerability to security issues, and ability to provide SIP and H.323 videoconferencing functionality.

During the evaluation, ICSA Labs discovered several issues. These included small documentation and logging issues and a security vulnerability.

Based on these findings, Polycom addressed and resolved all of the issues. ICSA Labs verified resolution of the issues in their final evaluation and reported that Polycom met and passed all evaluation criteria used during the RealPresence Access Director system evaluation.

To view the complete evaluation report, go to

https://www.icsalabs.com/sites/default/files/Polycom_RPAD_Final_Evaluation_Report.pdf.

About the Polycom RealPresence Access Director System

With the RealPresence Access Director system, Polycom offers a software-based edge server to securely route communication, management, and content traffic through firewalls without requiring special dialing methods or additional client hardware or software. This allows for secure communication between remote users and offices, and among guest users and organizations outside of the client's enterprise.

The RealPresence Access Director system combines the remote user, guest user, and enterprise-to-enterprise calling scenarios with SIP and H.323 capabilities. Additionally, the RealPresence Access Director system supports employee, guest, and federated calls from both AVC and SVC endpoints.

The RealPresence Access Director system produces combined value when integrated with the following Polycom components and endpoints.

- Polycom® RealPresence® Resource Manager systems provide management, provisioning, directory, and presence services.
- Polycom® Distributed Media Application™ (DMA™) systems serve as a central call control platform for SIP, H.323, and bridge virtualization, and act as H.323 gatekeepers.
- Polycom® RealPresence® Collaboration Server® systems serve as high-scale bridges for SIP and H.323 calls and support content over video.
- Polycom® RealPresence® CloudAXIS™ Suite is a software extension of the Polycom® RealPresence® Platform for private and public cloud deployment that enables businesses to collaborate with other businesses or individuals, independent of application, system, or device.
- Polycom® RSS™ systems enable recording of video, audio, and content.
- Polycom® RealPresence® Desktop supports sharing of video, audio, and content without leaving your desk.
- Polycom® RealPresence® Mobile enables tablets and smartphones to connect to video and audio conferencing and to share content.
- Polycom® RealPresence® Content Sharing Suite
- Polycom® RealPresence® Group Series 300/500 Endpoints
- Polycom® HDX endpoints

Features

The RealPresence Access Director system offers the following key features:

SIP Back-to-Back User Agent (B2BUA)

- SIP remote users with both AVC and SVC endpoints
- SIP guest users with both AVC and SVC endpoints
- SIP enterprise-to-enterprise federated calling for AVC and SVC endpoints

H.323 Signaling Proxy

- H.323 guest users
- H.323 enterprise-to-enterprise neighbored calling

Media Relay

- RTP and SRTP pass through

Access Proxy

- Management (HTTPS/TLS)
- Presence (XMPP/TLS)
- Directory (LDAP/TLS)

Security

- Deployable behind outside firewalls that use Network Address Translation (NAT)
- Secured communications (TLS and certificates)
- Secure management (Syslog, LDAP authentication, and role-based access control)

Performance

- 1 GB/s (bidirectional) media relay
- 1,000 simultaneous calls
- 600-700 MB throughput
- 10,000 concurrent registrations
- 20 call attempts per second for both SIP and H.323 calls

Endpoints (AVC and SVC)

- HDX systems
- RealPresence Group Series 300/500
- RealPresence Mobile
- RealPresence Desktop

Additional Features

- Clock synchronization with Network Time Protocol (NTP) servers
- Session timeout for inactive calls and administrator login sessions
- Product upgrades available from the user interface
- Support of the Simple Network Management Protocol (SNMP) for monitoring system status
- Static route configuration to prevent asymmetric routing issues

Licensing

The RealPresence Access Director system is licensed by the number of concurrent calls and media bandwidth. When the number of SIP and H.323 concurrent calls equals the maximum number of calls allowed by the license, or concurrent media bandwidth has reached the maximum bandwidth configured on the RealPresence Access Director system, new calls are rejected.

At installation, the system is licensed for five concurrent calls, to be used within a 30-day trial period.

Installation Information

Installation and licensing of new RealPresence Access Director systems is managed through Polycom Global Services. For more information, please contact your Polycom representative.

Only version 2.1 of the RealPresence Access Director system can be upgraded to version 2.1.1. This 2.1.1 maintenance release does not require a new license activation key.



Visit the Polycom support site (<http://support.polycom.com>) to verify that you have the latest software release and release information for the product.

For installation and deployment information, refer to the following documents:

- *Polycom RealPresenceAccess Director Getting Started Guide*
- *Deploying Polycom Unified Communications in RealPresence Access Director System Environments*
- *Polycom RealPresence Access Director Administrator's Guide*

Products Tested with this Release

Polycom RealPresence Access Director systems are tested extensively with a wide range of products. The following list is not a complete inventory of compatible equipment, but indicates the products that have been tested for compatibility with this release.

Product	Version
NAT, Firewall, Session Border Controllers	
Polycom RealPresence Access Director	2.1.1
Polycom Video Border Proxy (VBP) 5300E	11.2.12RC6
Acme Packet® Net-Net 3820	SCX6.3.0 MR-2 GA (Build 385)
Management Systems and Recorders	
Polycom RealPresence Resource Manager	7.1
Polycom RSS 4000	8.5, 8.6
Polycom RealPresence Content Sharing Suite	1.0
Microsoft Active Directory	
Gatekeepers, Gateways, and MCUs	
Polycom RealPresence Collaboration Server 1500, 2000, and 4000	7.8
Polycom RealPresence Collaboration Server 800s, Virtual Edition	8.0
Polycom Distributed Media Application (DMA) 7000	5.2, 6.0
Endpoints	
Polycom HDX 7000, 8000, and 9000 series	3.1.0
Polycom RealPresence Mobile	2.2, 2.3
Polycom RealPresence Desktop	2.2, 2.3
Polycom RealPresence Group Series 300/500	4.0.1, 4.0.2



Polycom recommends that you upgrade all of your Polycom systems with the latest software versions before contacting Polycom support. Any compatibility issues may already have been addressed by software updates. Go to http://support.polycom.com/PolycomService/support/us/support/service_policies.html to find the Polycom Current Interoperability Matrix.

Open Source Software

The Polycom RealPresence Access Director system uses several open source software packages, including the CentOS operating system. The following table lists the open source software packages used in the RealPresence Access Director system, the applicable license for each, and the internet address where you can find the software.

Software File Name	Version	License type	Source
xom-1.1.jar	1.1	LGPL	http://anonsvn.internet2.edu/svn/i2mi/trunk/grouper-misc/grouperClient/lib/xstream/xom-license.txt
XmlSchema-1.4.5.jar	1.4.5	Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0
xmlsec-1.4.3.jar	1.4.3	Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0
xalan-2.7.1.jar	2.7.1	Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0
xml-apis.jar		Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0
xml-resolver-1.2.jar	1.2	Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0
spring.jar		Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0
serializer-2.7.1.jar	2.7.1	Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0
mina-core-2.0.4.jar	2.0.4	Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0
jcifs-1.3.16.jar	1.3.16	LGPL2.1	http://www.gnu.org/licenses/lgpl-2.1.html
httpclient-4.1.3.jar	4.1.3	Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0
httpcore-4.1.4.jar	4.1.4	Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0
freemarker-2.3.10.jar	2.3.10	BSD and Apache 2.0	http://freemarker.sourceforge.net/docs/app_license.html
com.springsource.org.apache.xerces-2.9.1.jar	2.9.1	Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0
commons-fileupload-1.2.1.jar	1.2.1	Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0
commons-io-1.4.jar	1.4	Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0
commons-pool.jar		Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0
cinnamon-core-1.1.0.jar	1.1.0	Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0
cinnamon-javaclient-1.1.0.jar	1.1.0	Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0
cinnamon-reflect-1.1.0.jar	1.1.0	Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0
commons-dbcp.jar		Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0

Software File Name	Version	License type	Source
aopalliance-1.0.jar	1	Public Domain	http://aopalliance.sourceforge.net/
asm.jar	1.5.3		http://asm.ow2.org/asmdex-license.html
postgresql-jdbc.jar		BSD	http://jdbc.postgresql.org/license.html
dom4j.jar	1.6.1	BSD	http://dom4j.sourceforge.net/dom4j-1.6.1/license.html
log4j.jar		Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0
commons-httpclient.jar		Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0
commons-logging.jar		Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0
commons-collections.jar		Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0
jamon.jar		BSD	http://jamonapi.sourceforge.net/JAMonLicense.html
commons-codec.jar	1.4	Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0
json-lib-2.4-jdk15.jar	2.4	Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0
ezmorph-1.0.6.jar	1.0.6	Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0
commons-beanutils-core-1.8.3.jar	1.8.3	Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0
commons-beanutils-1.8.3.jar	1.8.3	Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0
commons-beanutils-bean-collections-1.8.3.jar	1.8.3	Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0
jboss-4.2.3.GA	4.2.3.GA	LGPL2.1	http://www.jboss.org/
jain-sip-sdp-1.2.1982M.jar	1.2	Public Domain	http://java.net/projects/jsip/pages/Home
commons-jexl-1.0.jar	1	Apache 2.0	http://commons.apache.org/
jpcap.jar	0.7	LGPL2.1	http://netresearch.ics.uci.edu/kfujii/
json-lib-2.4-jdk15.jar	2.4	Apache 2.0	http://json-lib.sourceforge.net/index.html
ezmorph-1.0.6.jar	1.0.6	Apache 2.0	http://ezmorph.sourceforge.net/
commons-beanutils-1.8.3.jar		Apache 2.0	http://commons.apache.org/
commons-beanutils-bean-collections-1.8.3.jar		Apache 2.0	http://commons.apache.org/
commons-beanutils-core-1.8.3.jar		Apache 2.0	http://commons.apache.org/

Software File Name	Version	License type	Source
commons-collections-3.2.1.jar		Apache 2.0	http://commons.apache.org/
commons-lang-2.4.jar		Apache 2.0	http://commons.apache.org/
commons-logging-1.1.1.jar		Apache 2.0	http://commons.apache.org/
commons-beanutils-1.8.3.jar		Apache 2.0	http://commons.apache.org/
CentOS-5.7-x86_64	CentOS 5.7/ 2.6.18	GPL2.0	http://www.centos.org/modules/tinycontent/index.php?id=30
quartz-1.6.6.jar	1.6.6	Apache 2.0	http://quartz-scheduler.org/
slf4j-api-1.6.3.jar	1.6.3	MIT	http://www.slf4j.org/
slf4j-log4j12-1.6.3.jar	1.6.3	MIT	http://www.slf4j.org/
cglib-nodep-2.2.2.jar	2.2.2	Apache 2.0	http://cglib.sourceforge.net/
syslog-ng-3.3.2.tar.gz	3.3.2	LGPL2.1	http://www.balabit.com/sites/default/files/documents/syslog-ng-ose-3.3-guides/syslog-ng-ose-v3.3-guide-admin-en.html/concepts-licensing.html
joda-time-2.1.jar	2.1	Apache 2	http://joda-time.sourceforge.net/
libnet-1.1.6	1.1.6	BSD	http://sourceforge.net/projects/libnet-dev/
eventlog	0.2.12	BSD	http://www.balabit.com/downloads/files/eventlog/
ant.jar	1.7.0	Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0
axis.jar	1.4	Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0
commons-configuration-1.5.jar	1.5	Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0
commons-digester-1.6.jar	1.6	Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0
commons-discovery-0.2.jar	0.2	Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0
commons-jxpath-1.2.jar	1.2	Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0
gsbase-2.0.1.jar	2.0.1	Apache 2.0 The GSBBase Software License, Version 2.0	http://gsbase.sourceforge.net/license.htm
joda-time-2.1.jar	2.1	Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0
quartz-jboss-1.6.6.jar	1.6.6	Apache 2.0	http://www.apache.org/licenses/LICENSE-2.0

Resolved Issues

The following table lists the resolved issues in the version 2.1.1 release of the RealPresence Access Director system.

Issue ID	Description
EDGE-484	If updating from version 2.0.3 or 2.0.4 to version 2.1, the upgrade package details state that the upgrade does not require a new activation key. A new activation key is required when upgrading to 2.1.

Known Issues

The following table lists known issues in the version 2.1.1 release of the RealPresence Access Director system.

Category	Issue ID	Description	Workaround
Security	EDGE-41	The RealPresence Access Director system uses the same flow token to different endpoints in UDP REGISTER message, leading to failed performance test.	Use TCP instead of UDP.
Browser	EDGE-212	Two Internet Explorer 9 users unable to edit network settings screen.	Internet Explorer 9 issue, no workaround at this time.
Certificates	EDGE-267	The CA certificate isn't displayed when a certificate chain is installed.	
User Interface	EDGE-344	Vladivostok time zone is not UTC+10:00.	Linux OS issue, no workaround at this time.
User Interface	EDGE-351	The lan-cfg.txt file cannot be seen with the USB Network Utility.	
User Interface	EDGE-358	Polycom's former logo appears during installation of the RealPresence Access Director system.	

Category	Issue ID	Description	Workaround
Endpoints	EDGE-489	When remotely upgrading RealPresence Group Series 300/500 endpoints through the RealPresence Access Director system, the upgrades fail. The Group Series 300/500 endpoints use HTTP to upgrade. The RealPresence Access Director system is an access device and supports only HTTPS for security purposes. When Group Series 300/500 endpoints support HTTPS upgrades, this issue will be resolved.	
Web Client	EDGE-601	A RealPresence CloudAXIS Suite Web client cannot receive any audio-video content during calls routed through the RealPresence Access Director system.	

Where to Get the Latest Information

To view the latest Polycom RealPresence Access Director system product documentation, visit the Support page of the Polycom website at

<http://support.polycom.com>

Trademark Information



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Patent Information

The accompanying product may be protected by one or more U.S. and foreign patents and/or pending patent applications held by Polycom, Inc.

End User License Agreement

Use of this software constitutes acceptance of the terms and conditions of the Polycom RealPresence Access Director system end-user license agreement (EULA).

The EULA for your version is available on the Polycom Support page for the Polycom RealPresence Access Director system.

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San Jose CA 95002
USA

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