

Release Notes



Polycom® RealPresence® Access Director™, Version 2.1.0

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

Contents

- [What's New in this Polycom RealPresence Access Director System Version 2.1 Release](#)
- [About the Polycom RealPresence Access Director System](#)
- [Licensing](#)
- [Installation Information](#)
- [Products Tested with this Release](#)
- [Open Source Software](#)
- [Resolved Issues](#)
- [Known Issues](#)
- [Where to Get the Latest Information](#)
- [Polycom RealPresence Access Director System End-User License Agreement](#)

What's New in this Polycom RealPresence Access Director System Version 2.1 Release

This release of the RealPresence Access Director system offers the following new features. Each of these features is discussed in more detail in the following sections.

- [SNMP Monitoring Support](#)
- [Static Routing](#)
- [H.323 Guest Policy](#)
- [SVC Federation Calls](#)

SNMP Monitoring Support

The RealPresence Access Director system supports v2c and v3 of the Simple Network Management Protocol (SNMP) for monitoring system status. The RealPresence Access Director system includes an SNMP agent that translates local system information into the format defined by the Management Information Base (MIB). The agent collects the data locally and makes this information available to the management system via SNMP.

SNMP traps allow the RealPresence Resource Manager system to notify the SNMP management system of significant events by sending out an unsolicited SNMP message. The data collected includes information about CPU, memory, storage, and the status of the system.

Static Routing

The RealPresence Access Director system supports the use of static routes to route data from one subnet to a different subnet. Based on network routing policies, static routes can be configured for different destinations. The RealPresence Access Director system dynamically updates the routing table based on the static routes you configure.

H.323 Guest Policy

The RealPresence Access Director system provides an H.323 guest policy that limits destinations for inbound H.323 calls from the Internet. When The RealPresence Access Director system receives a call from an H.323 guest user, it adds a prefix to the dial string before forwarding the call to the DMA system. When the DMA system receives the call, it applies the H.323 guest policy, removes the prefix from the dial string, and forwards the call to the appropriate Polycom® RealPresence® Collaboration Server MCU.

SVC Federation Calls

The RealPresence Access Director system supports both AVC and SVC endpoints for calls between federated enterprises. When connected using SVC, conference participants will experience lower latency and improved call quality.

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 components and securely extends that value to Polycom 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[®] 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 both AVC and SVC endpoints
- SIP guest users 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 (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

Clock Synchronization with NTP Servers

- The RealPresence Access Director system supports the Network Time Protocol (NTP) for clock synchronization. NTP servers can be configured in the user interface.

Session Timeout

- The timeout feature automatically ends SIP and H.323 user calls after a configurable period of inactivity. The timeout feature also ends system administrator login sessions in the user interface if they extend beyond a reasonable expectation of use.

Product Upgrade

- The RealPresence Access Director system software can be upgraded from the user interface if the upgrade is supported by the version currently in use.

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 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 2.0.3 or 2.0.4 of the RealPresence Access Director system can be upgraded to version 2.1. When upgrading, a new activation key is required.



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*
- *Polycom RealPresence Access Director Deployment Guide*
- *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
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



You are encouraged to upgrade all of your Polycom systems with the latest software 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 current Polycom Supported Products 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 GSBASE 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 release of the RealPresence Access Director system.

Issue ID	Description
EDGE-357	There is no limitation for the number of remote syslog servers that can be configured in the user interface. The maximum should be two servers.
EDGE-368	Two Jboss security vulnerabilities found. JBoss HttpAdaptor JMXInvokerServlet is accessible to unauthenticated remote users. and JBoss EJInvokerServlet is accessible to unauthenticated remote users.
EDGE-394	When making a manual time change, the system forces a restart. Cannot find a log message pertaining to the manual time change. The log must contain the Date/Time the event occurred, the Date/Time previous to the system clock change, and the Date/Time after the system clock change.
EDGE-467	SSL renegotiation DoS flaw CVE-2011-1473 found in the ports of Web management, SIP, and access proxy modules.

Known Issues

The following table lists known issues in the version 2.1 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.	

Category	Issue ID	Description	Workaround
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.	
Upgrading	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.	
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.	

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>

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