

Integration Guide

for ReadiManager[®] Systems with RMX 2000



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MCU Integration

The Polycom® ReadManager® system provides scheduling and management for both the Polycom® MGC™ and RMX 2000™ conferencing platforms. This document describes integrating a ReadManager system with these MCUs.

Note Currently, there is not full two-way sharing of information between the ReadManager system and the RMX or MGC MCUs. Therefore, if you're using a ReadManager system, you should do all scheduling and monitoring through it to avoid resource conflicts.

Integration with RMX 2000™ Conferencing Platform

The RMX 2000 conferencing platform is a scaleable multimedia IP processing media server optimized for audio and video conferencing. It is a new architecture built for high-speed IP networks and designed to support HD devices and applications.

When integrating the RMX 2000 conferencing platform with a ReadManager SE200 system, consider the following:

- The RMX 2000 platform is an IP device that supports only the H.323 protocol. It has no IVR or H.239 support at this time.
- The RMX 2000 platform does not offer gateway services

How to Deploy a ReadManager System with RMX 2000™

This section describes the tasks you must complete to prepare for an ReadManager system/RMX deployment.

Task 1: Complete Standard Predeployment Documents

Both the Polycom RMX and ReadManager system devices have several standard documents that must be completed to prepare for deployment.

When completing these forms, you should also include plans for the other elements of a typical deployment such as:

- One or more Polycom MGC conferencing devices
- A Polycom MGC device designated as an ISDN gateway
- A Polycom RSS 2000 device for conference recording and streaming
- A Polycom V2iU device as a firewall/NAT

The predeployment documents include:

- Site survey-- Describes the ReadManager SE200 and RMX configuration, the interoperability with other Polycom products, network details, firewall details, and advanced configuration.

Often a Polycom project manager will manage the site survey. However, when doing it yourself, use the following table to prepare for deployment.

Table -1 Required Site Survey Information

Information	Record Value
SE200 System Settings	
System Name	
IP Address	
Subnet Mask	
Default Gateway	
DNS Server	
System Time Zone	
Auto Adjust for Daylight Savings	
External SQL Database (Optional)	
Database Server IP Address	
Database Server Port	
Database Instance Name	
LDAP (Optional)	
LDAP Server IP Address or DNS Name	
LDAP User ID	
LDAP User Password	
Gatekeeper Settings (Optional)	
Gatekeeper Identifier	

Table -1 Required Site Survey Information

Information	Record Value
Gatekeeper Description	
Default Gatekeeper	
Allow Registration of (Choose one)	
Registration Timeout (days)	
Offline Timeout (sec)	
Maximum Number of Neighbor Gatekeeper Hop Counts	
Log Calls To/From Unregistered Endpoints	
Deny Calls To/From Unregistered Endpoints	
Policy Groups	
Least Cost Routing Tables	
Sites	
Intersite Links	
Regions	
Devices	
LDAP Users	
Non-LDAP Users	
Resources(Rooms)	
Scheduling Settings (Optional)	
Enable Auto Start Conference	
Auto Dial Participants	
Conference Time Warning	
Email Header	
Mail Server (IP address)	
MCU(s)	
IP Address	
User / Password	
Services	

- Network diagram--This document describes the LAN, WAN, public and private VLAN equipment in the path of the ReadManager system, RMX, and other video network equipment. This network diagram should also include IP addresses, firewall restrictions, ports open or closed on firewalls, and H.323-aware firewalls. At a minimum, this document should include the location of endpoints, routers, and firewall restrictions to identify potential problem areas. You should provide this information to your Polycom project manager.
- Endpoint inventory--The ReadManager system has numerous features that have been tested and certified on several Polycom and third-party endpoints. The endpoint details to include are the make, model, IP address, ISDN number, and software version. You should provide this information to your Polycom project manager.
- LDAP integration plan--The ReadManager system requires specific information for integration with LDAP. Microsoft Active Directory is the supported LDAP. Your LDAP Administrator should be available to provide this information.
- External DB integration plan--The ReadManager system has an internal MSDE SQL server to store the data generated during configuration. You can move this database to an external SQL server database for faster recovery and database backups. To do this, you must provide the correct version and service pack level of Windows server and a licensed copy of SQL Server.

Task 2: Assess Conference Configuration Requirements

One of the goals of the RMX 2000 device is to simplify the decisions that schedulers must make when scheduling a conference. To achieve this goal, conference parameters that could previously be set on a conference-by-conference basis via the conference template are now set at the administrator level either through system flags or named conference profiles.

System Flags

System flags are parameters found in the `system.cfg` file. Parameters in this file specify such things as:

- Conference termination settings
- Conference ID minimum and maximum length
- Auto extension settings

RMX Profiles

Profiles are configuration files that reside on the RMX. Conferences that use an RMX device must specify a profile, because the RMX device uses the conference parameters and values from this profile to initiate and manage the conference rather than values specified in a conference template. Parameters in the profile specify such things as:

- General information such as line rate, encryption, auto termination, and H.239 settings
- Video settings such as mode (presentation or lecture) and layout
- IVR settings

So to select different conference parameters for conferences

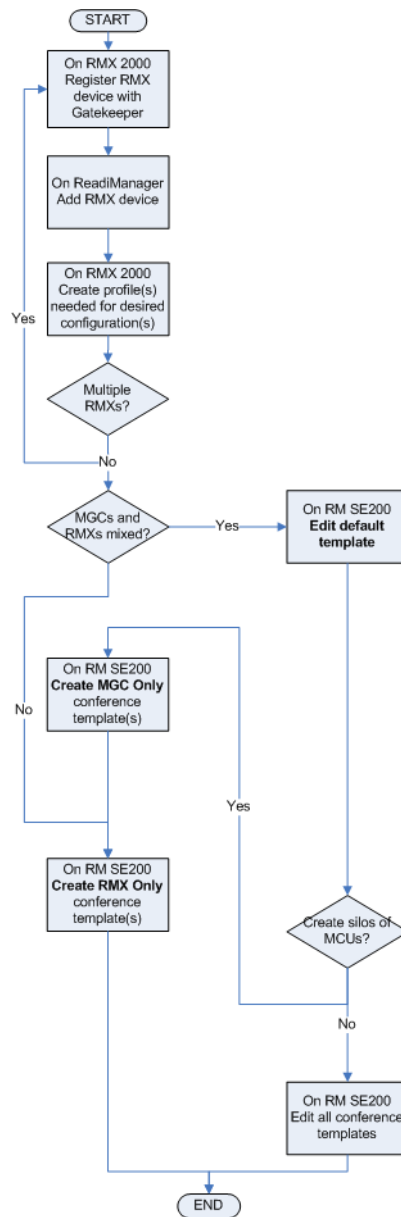
Task 3: Deploy Appliances

Deploy the ReadManager SE200 and RMX appliances according to their respective installation instructions. Connect the appliances to the network as detailed in the network diagram.

Task 4: Integrate Systems

[Figure -1](#) on page 6 shows an overview of the tasks involved in integrating the ReadManager SE200 and RMX appliances with each other. These tasks are described more fully in the text that follows. For more specific information about how to perform each task see the *RMX 2000 Administrator's Guide* or the *ReadManager Operations Guide* as needed.

Figure -1 Flow diagram of integration tasks



To integrate the two systems

- 1** In the **RMX Management** application, register the RMX device(s) with the ReadManager gatekeeper as described in the *RMX 2000 Administrator's Guide* .
- 2** In the **ReadManager Management** application, add the RMX device(s) to the ReadManager system as described in the *ReadManager Operations Guide*.

- 3** In the **RMX Management** application, create a profile for each unique conference experience that you wish to make available to the end-user as described in the *RMX 2000 Administrator's Guide*.

Each profile is a standard set of conference parameters that is referenced by the conference template used when scheduling the conference.

The RMX is shipped with a default profile called **DefaultVideo384** that allows users to immediately start standard ongoing conferences. Its settings are as follows:

- Bit Rate = 384Kbps
- Encryption = Disabled
- Auto Terminate = Enabled
- H.239 Settings = Graphics
- High Definition = Disabled
- Video Quality = Sharpness
- Layout = Auto Layout
- Skin = Polycom
- IVR Name = Conference IVR Service

Notes An RMX may have multiple profiles and different conference templates may reference different profiles on an RMX.

- 4** In a mixed environment of both MGC and RMX devices, edit the default conference template (used by most schedulers) to ensure it will function on whatever MCU type the conference may land.
- The first set of parameters (**Name** through **Always Use MCU**) remain the same.
 - Enable the **Associate to Profile** checkbox and enter an existing RMX profile name.
 - For the **MCU Selection**, select **All MCUs**.
 - Make sure the **Line Speed** in the conference template matches the **Line Speed** set in the named profile.
 - Set the other parameters as desired for MGC conferences.

Notes

- Two conferences scheduled with this same template may have different behavior if one lands on an MGC device and one lands on an RMX device.
- Conferences will fail if they land on an RMX device and a valid RMX profile is not specified.

- 5** If you want all of your conference templates to access **All MCUs**, then edit all conference templates as described in step **4**.

- 6 To create conference templates that implement silos of MGCs and RMX devices, then create specific RMX Only and MGC Only conference templates.

MGC Only

- The first set of parameters (**Name** through **Always Use MCU**) remain the same.
- Leave **Associate to Profile** unchecked.
- Do not make an **MCU Selection**.
- Set the other parameters as desired for MGC conferences.

RMX Only

- The first set of parameters (**Name** through **Always Use MCU**) remain the same.
- Enable the **Associate to Profile** checkbox and enter an existing RMX profile name.
- For the **MCU Selection**, select **RMX Only**.
- Make sure the **Line Speed** in the conference template matches the **Line Speed** set in the named profile
- The rest of the template parameters are unavailable because they are dictated by the named RMX profile.

Notes

- A conference scheduled with a conference template and associated with a named profile may access any RMX device in the device list.
- Conferences will fail if they land on an RMX device and a valid RMX profile is not specified.

Some Profile Rules

When multiple RMX bridges are registered to a single ReadManager:

- Define one or more common profiles on each RMX device registered to a single ReadManager system using the same profile name and same profile parameter values.
- Associate only common profiles with conference templates in ReadManager to ensure that only common profiles may be scheduled for conferences that may be hosted on a RMX bridge.

Ensure that for **Any MCU** templates the conference template parameters are compatible with with the specified RMX profile.

Miscellaneous

- All ReadManager scheduled conferences for RMX devices require a conference password for authentication of attendees. The conference password must be 4-digit number. ReadManager assigns a conference password, but Advanced schedulers can modify it as desired.

The conference password is provided to all conference attendees in the conference notification email. This same conference password will also be assigned to MGC conferences as the conference alias.

- The RMX has conference profiles that determine most conference parameter values rather than relying on the conference template assigned during scheduling.
- In this first release, the RMX does not support video switching
- Within the ReadManager system, a single RMX unit within a single chassis is presented as two separate device types:
 - The RMX 2000 control unit is as an **RMX** device type.
 - The RMX IP Service for each installed IP Blade is presented as a **GW/MCU** device type.
- The RMX must be registered with the gatekeeper before it can be added to ReadManager system.

