Polycom RealPresence®
Distributed Media Application™
(DMA®) System
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About This Guide

Topics:

- RealPresence DMA System Editions
- Audience, Purpose and Required Skills
- Get Help

This guide provides the first time setup information that you need to configure a RealPresence DMA system. Once you've completed first time setup, see the Polycom RealPresence DMA System Operations Guide for additional configuration and customization tasks you can perform.

RealPresence DMA System Editions

The RealPresence DMA system is available in an Appliance Edition (for use with a Polycom Rack Server) and a Virtual Edition (packaged as software only).

Most of the functionality described in this document applies to both editions, and so the product references are general—that is, the RealPresence DMA system. However, when information applies to a specific edition, the reference will be specific—that is, RealPresence DMA, Virtual Edition or RealPresence DMA, Appliance Edition.

Audience, Purpose and Required Skills

This document is written for a technical audience. You must know or have the following:

- Basic computer and network system administration skills
- Virtual machine (VM) concepts
- Network configuration, including IP addressing, subnets, gateways, domains, DNS, time servers, and possibly network routing
- The deployment plan for the RealPresence DMA system being installed and the video conferencing/collaboration network of which it will be a part

This guide assumes that you are starting with a RealPresence DMA system that has never been previously configured.

If necessary, obtain the assistance of the appropriate IT or network administration personnel before proceeding.

Get Help

For more information about installing, configuring, and administering Polycom products, refer to Documents and Downloads at Polycom Support.
Polycom and Partner Resources

In addition to this guide, the following documents and other resources provide details about the RealPresence DMA system. To access documents, go to support.polycom.com.

- **Polycom RealPresence DMA System Release Notes**
  Provides information you need to know about the specific release of the system you are deploying.

- **Polycom RealPresence DMA System Operations Guide**
  Provides more detailed and specialized configuration, operation, and administration information you need to know when using the RealPresence DMA system.

- Online help—In the product user interface, select Help > Help Contents to access the entire help system, or click any Help button to see the specific help topic for that location.

- Partner product interoperability—Refer to the partner deployment guides.


The Polycom Community

The Polycom Community gives you access to the latest developer and support information. Participate in discussion forums to share ideas and solve problems with your colleagues. To register with the Polycom Community, simply create a Polycom online account. When logged in, you can access Polycom support personnel and participate in developer and support forums to find the latest information on hardware, software, and partner solutions topics.
Prepare for System Installation

Topics:

• Complete the First-Time Setup Worksheet
• Prepare Client Systems
• Prepare the USB Flash Drive (Appliance Edition Only)

This section describes the preparations to complete before the initial installation and configuration of a RealPresence DMA system.

Complete the First-Time Setup Worksheet

Before you begin system setup, fill out the applicable fields in the My System Values column of the following worksheet.

Network configuration of an appliance (hardware-based) RealPresence DMA system involves options and settings not relevant in a virtual deployment, including dual-server configuration and split management and signaling networks. Although those settings are present in the Network Settings page of the RealPresence DMA system's web-based user interface, they must not be used in a virtual deployment. They are clearly identified in the following worksheet.

First-Time Setup Worksheet

<table>
<thead>
<tr>
<th>Configuration Information</th>
<th>My System Values</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>System IP type</td>
<td></td>
<td>Specify whether the system should support IPv4, IPv6, or both. If both, complete all the IP address information below. If only IPv4 or IPv6, complete only the corresponding fields below.</td>
</tr>
<tr>
<td>System server configuration</td>
<td></td>
<td>Specify whether you are installing a single-server system or a two-server system. For a single-server system, the Server 2 section below is not used. If you received two servers, determine whether you're setting up a co-located two-server cluster or two separate single-server systems.</td>
</tr>
</tbody>
</table>
### Configuration Information

<table>
<thead>
<tr>
<th>My System Values</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System split network setting</strong></td>
<td>Specify whether to combine or split the system's management and signaling interfaces. If the same network will be used for both management (administrative access) and signaling, the signaling IP addresses and Shared Signaling Network Settings section below are not used.</td>
</tr>
</tbody>
</table>

**Caution:** Choose split networking *only* if you need to restrict access to the management interface and SNMP to users on an isolated non-public network separate from the enterprise network. Typically, this is the case only in high-security environments.

In most network environments, users accessing the management interface are on the same enterprise network as endpoints and other devices communicating with the system, and they use the same physical and virtual IP addresses and the same network interface.

To split the network configuration, you must use different gateways and subnets for management and signaling, and separate physical connections for the management and signaling networks.

If management and signaling traffic are combined on the same network (subnet), both use the same physical and virtual IP addresses and the same network interface.

If you are not sure whether split networking is appropriate, possible, or necessary for this installation, consult the appropriate IT staff or network administrator for your organization.

### Server 1

<table>
<thead>
<tr>
<th>Management host name</th>
<th>Local host name of the server's management interface. Host names may contain only letters, numbers, and internal dashes (hyphens), and may not include a domain. The host name is combined with the domain name specified under General System Network Settings to form the fully qualified domain name (FQDN).</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Management IPv4</th>
<th>Static, physical IP address(es) for the first (or only) server's management (or combined) interface.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Management IPv6</td>
<td>Static, physical IP address(es) for the first (or only) server's management (or combined) interface.</td>
</tr>
<tr>
<td>Signaling IPv4</td>
<td>Static, physical IP address(es) for the first (or only) server's signaling interface (if networking is split).</td>
</tr>
<tr>
<td>Signaling IPv6</td>
<td>Static, physical IP address(es) for the first (or only) server's signaling interface (if networking is split).</td>
</tr>
<tr>
<td>Configuration Information</td>
<td>My System Values</td>
</tr>
<tr>
<td>---------------------------</td>
<td>------------------</td>
</tr>
<tr>
<td>Host name</td>
<td></td>
</tr>
<tr>
<td>IPv4</td>
<td>Static, physical IP address(es) for the second server's management (or combined) interface.</td>
</tr>
<tr>
<td>IPv6</td>
<td>Static, physical IP address(es) for the second server's signaling interface (if networking is split).</td>
</tr>
<tr>
<td>Signaling IPv4</td>
<td></td>
</tr>
<tr>
<td>Signaling IPv6</td>
<td></td>
</tr>
<tr>
<td>Virtual host name</td>
<td></td>
</tr>
<tr>
<td>Virtual IPv4</td>
<td>IPv4 network mask that defines the subnetwork of the system's management interface.</td>
</tr>
<tr>
<td>Virtual IPv6</td>
<td>IPv6 CIDR (Classless Inter-Domain Routing) prefix size value (the number of leading 1 bits in the routing prefix mask) that defines the subnetwork of the system's management interface.</td>
</tr>
<tr>
<td><strong>Configuration Information</strong></td>
<td><strong>My System Values</strong></td>
</tr>
<tr>
<td>-------------------------------</td>
<td>----------------------</td>
</tr>
<tr>
<td>IPv4 gateway</td>
<td></td>
</tr>
<tr>
<td>Management Link</td>
<td></td>
</tr>
<tr>
<td>Signaling Link</td>
<td></td>
</tr>
<tr>
<td>Auto-negotiation</td>
<td></td>
</tr>
<tr>
<td>LAN Security Settings</td>
<td></td>
</tr>
<tr>
<td>Enable 802.1x</td>
<td></td>
</tr>
<tr>
<td>User name</td>
<td></td>
</tr>
<tr>
<td>Password</td>
<td></td>
</tr>
<tr>
<td>Confirm password</td>
<td></td>
</tr>
<tr>
<td>EAP Method</td>
<td></td>
</tr>
<tr>
<td>Protocol</td>
<td></td>
</tr>
<tr>
<td>Configuration Information</td>
<td>My System Values</td>
</tr>
<tr>
<td>---------------------------</td>
<td>------------------</td>
</tr>
<tr>
<td><strong>Shared Signaling Network Settings</strong></td>
<td></td>
</tr>
<tr>
<td><strong>General System Network Settings</strong></td>
<td></td>
</tr>
<tr>
<td>DNS search domains</td>
<td></td>
</tr>
<tr>
<td>DNS 1</td>
<td></td>
</tr>
<tr>
<td>DNS 2</td>
<td></td>
</tr>
<tr>
<td>DNS 3</td>
<td></td>
</tr>
<tr>
<td>Domain</td>
<td></td>
</tr>
<tr>
<td>Signaling DSCP</td>
<td></td>
</tr>
<tr>
<td>Configuration Information</td>
<td>My System Values</td>
</tr>
<tr>
<td>---------------------------</td>
<td>------------------</td>
</tr>
<tr>
<td>Management DSCP</td>
<td></td>
</tr>
<tr>
<td>Default IPv6 gateway</td>
<td></td>
</tr>
<tr>
<td>Default IPv4 gateway</td>
<td></td>
</tr>
<tr>
<td>System Time</td>
<td></td>
</tr>
<tr>
<td>Time zone</td>
<td></td>
</tr>
<tr>
<td>NTP server #1</td>
<td></td>
</tr>
<tr>
<td>NTP server #2</td>
<td></td>
</tr>
<tr>
<td>NTP server #3</td>
<td></td>
</tr>
<tr>
<td>Routing Configuration</td>
<td></td>
</tr>
</tbody>
</table>
### Configuration Information

<table>
<thead>
<tr>
<th>Configuration Information</th>
<th>My System Values</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Host/network</td>
<td></td>
<td>The IP address of the destination network host or segment.</td>
</tr>
<tr>
<td>Prefix length</td>
<td></td>
<td>The CIDR (Classless Inter-Domain Routing) value that, together with the destination host/network address, defines the subnet for this route. For IPv4, a prefix length of 24 is equivalent to specifying a subnet mask of 255.255.255.0. A prefix length of 16 is equivalent to specifying a subnet mask of 255.255.0.0.</td>
</tr>
<tr>
<td>Interface</td>
<td></td>
<td>Specify the interface for this route.</td>
</tr>
<tr>
<td>Via</td>
<td></td>
<td>IP address of the next hop.</td>
</tr>
</tbody>
</table>

### Prepare Client Systems

To log into the RealPresence DMA system, you need a client system with the following hardware and software:

- **Hardware**
  - Monitor with 1024x768 (SXGA) minimum display resolution; 1400x900 (WSXGA+) or greater recommended
  - USB and Ethernet ports
- **Software**
  - Web browser that supports HTML5. Microsoft Internet Explorer® must be version 11 or later.

### Prepare the USB Flash Drive (Appliance Edition Only)

You can configure the RealPresence DMA system, Appliance Edition, server(s) using the USB Configuration Utility (available at [support.polycom.com](https://support.polycom.com)) and the USB flash drive included in the server package.

If you do not use the USB Configuration Utility, you can configure your system servers manually by using your client system to log into the web user interface and configure the settings. See *Initial Configuration Without Using the USB Flash Drive* on page 22.

**Caution:** For compatibility reasons, ensure that you use the latest version of the RealPresence DMA system USB Configuration Utility.

**Procedure**

1. Connect the blank USB flash drive to the client system on which you saved the ZIP file containing the RealPresence DMA system USB Configuration Utility.
2. Unzip the RealPresence DMA system USB Configuration Utility files to the USB flash drive. The USB Configuration Utility files must be at the root of the flash drive, not in a folder.

3. Do one of the following to launch the USB Configuration Utility:
   a. From a client system running the Microsoft Windows OS, click either the *dma-usb-gui.exe* or *dma-usb-gui.bat* file.
   b. From a client system running a Unix-based OS (including Mac) click the *dma-usb-gui.sh* file.

4. In the **USB Configuration Utility** window, click **Configure the System Parameters**.

5. In the **Node Selection** window, select **Node_1**, enter a new name, if desired, and click **Edit**.

6. On the **Network** tab, enter the **Host name**, **Domain**, **DNS Search domains**, and **DNS 1**.

7. Select the **System IP type**.

8. Under **Network Interface Settings**, click **Add eth0**.

9. Under **IP Configuration**, select the **Mode** and enter the IP information for the System IP type you chose.

10. Configure the **Link Settings** and **LAN Security Settings** as needed.

11. Click **Done**.

12. Click **Next** to display the **Routing** tab and add routes if necessary.

13. Click **Next** to display the **NTP** tab.

14. Select the correct **System time zone** for your location.

   Polycom recommends that you select the best location-specific setting, not one of the generic GMT offset settings. The location-specific settings automatically include the correct daylight saving time adjustments (if any) for that location and will be updated as locales change their time policies in the future.

15. Under **NTP servers**, enter the IP addresses (or domain names) for the time servers.
Polycom recommends specifying at least one and preferably three time servers. At least one time server must be specified before creating or joining a supercluster.

16. Click **Done** to return to the initial USB Configuration Utility menu.

17. To configure the settings for a second RealPresence DMA system, click **Configure the System Parameters**.

18. In the **Node Selection** window, select **Node_2**, enter a new name, if desired, and click **Edit**.

19. Repeat the previous configuration steps for the second server and click **Done**.

20. Verify that **The USB stick is set to apply system parameters** displays in the initial menu, as shown in the following figure.

![Image of USB stick configuration utility](image)

21. Close the program.

22. On your PC, eject the USB flash drive.
System Installation

Topics:

- Virtual Edition Installation
- Appliance Edition Installation

The RealPresence DMA system is available in an Appliance Edition and a Virtual Edition. Refer to the following installation instructions based on your edition.

Virtual Edition Installation

Before you install the RealPresence DMA system in your environment, review the Polycom RealPresence DMA System Release Notes and ensure that your host machine has the capacity for your planned Virtual Edition deployment. In addition, ensure that it meets the host guidelines recommended by Polycom.

Host Installation Guidelines for Virtual Editions

Before deploying your Polycom RealPresence Virtual Edition software, review the following planning guidelines for your deployment. Unless otherwise noted, use these guidelines for all Polycom Virtual Editions.

Polycom recommends that a virtual environment administrator install the Virtual Edition software. After the installation of a Virtual Edition, additional configuration should be completed by someone who understands video conferencing.

CPU Allocation

- Leave 2 cores unallocated, regardless of the number of cores present, how many licenses are purchased, and what other virtual machines will be present.
- For VMware, do not allocate CPU core 0. Host operating system performance may be affected if this core is assigned to the virtual machine.
- When possible, allocate cores on one CPU. This will enhance performance by reducing CPU-to-CPU communication times.
- Do not use processor oversubscription; maintain a 2:1 ratio of virtual CPU to physical CPU. For example, a system with 8 physical cores can support up to 16 virtual processors divided up into any combination among the virtual machines running on that host.
- When you are using Hyper-V, Polycom recommends disabling the Virtual Machine Queue of the Network Interface Card (NIC). For more information, see https://support.microsoft.com/en-us/kb/2902166

Note: CPU reservations can only be done after shutting down the virtual machine.

Memory Allocation

In a Microsoft Hyper-V environment, you must not overprovision memory at the hypervisor layer. Dynamic memory for virtual machines is not supported.
Disk

Hypervisors add overhead to disk operations. For best performance, ensure that the virtual machine is able to achieve the recommended IOPS listed in the following table.

<table>
<thead>
<tr>
<th>Disk Performance</th>
<th>Lab Environment</th>
<th>Production Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disk Performance</td>
<td>170 Random IOPS (write) 170 Random IOPS (read)</td>
<td>230 Random IOPS (write) 450 Random IOPS (read)</td>
</tr>
<tr>
<td>Network</td>
<td>1GB Shared</td>
<td>1GB Dedicated 10GB Shared</td>
</tr>
</tbody>
</table>

Capacity information such as storage space and memory varies according to Virtual Edition. Please see release notes for your RealPresence Virtual Edition software for the minimum capacity requirements for your product.

Install the Virtual Edition Software

You can install your RealPresence DMA, Virtual Edition software with your native virtual environment tools or with the Polycom RealPresence Platform Director system, depending on your deployment.

If you have deployed a Polycom RealPresence Resource Manager system, version 10.0 or higher, you must use your virtual environment tools to install your RealPresence DMA software.

If you have not deployed a RealPresence Resource Manager system or if you have not upgraded your RealPresence Resource Manager system to version 10.0 or later, you can use your virtual environment tools to install your RealPresence DMA software. You may also be able to use the RealPresence Platform Director system to install your product instance.

If your RealPresence Platform Director system was installed in a VMware vCenter environment with the required credentials, you can use the RealPresence Platform Director system to deploy Polycom software. For complete instructions on how to use the RealPresence Platform Director system, see the Polycom RealPresence Platform Director Administrator Guide.

You cannot use the RealPresence Platform Director system to deploy a Hyper-V Virtual Edition. For a Hyper-V Virtual Edition, you must deploy the software using Hyper-V tools and then add the instance to the RealPresence Resource Manager system, version 10.0 or higher, or RealPresence Platform Director system, based on your deployment.

Choose from the following installation methods:

- Install the RealPresence DMA System Software Using Your Virtual Environment Tools on page 14
- Install the RealPresence DMA System Software Using the RealPresence Platform Director System on page 15

Install the RealPresence DMA System Software Using Your Virtual Environment Tools

If you install the RealPresence DMA, Virtual Edition, using your virtual environment tools, you will still need to use the RealPresence Resource Manager system or RealPresence Platform Director system to manage licensing of your Polycom software.

**Note:** If installing a Hyper-V version, you must use the Copy option.
Procedure

1. Refer to the documentation for your virtual environment tools for instructions on installing a virtual instance.
2. Install an instance of the RealPresence DMA, Virtual Edition system.
3. Assign a static IP address to the instance using the console if your VM environment does not use DHCP.

Assign a Static IP Address

The RealPresence DMA system requires a static IP address for your system’s instance if your VM environment is not using DHCP. If your VM environment has a DHCP server, it will assign an IP address to the instance. If you choose, you can then assign a static IP address using the console or the RealPresence DMA system’s web user interface.

Procedure

1. Power on the newly-installed VM.
2. Access the console.
3. Click in the console window and press Enter if necessary to see the login prompt.
   A shell interface appears that enables you to configure the network.
4. Log in with username polycom and password polycom.
5. Select option 2 and enter the settings for IP address, Subnet Mask, and Default Gateway IP.
6. Select OK.
7. Select option 6 to reboot the server.
   The system reboots and applies the static IP information.
8. Press CRT + ALT to release the cursor from the console, then close the console window.

Install the RealPresence DMA System Software Using the RealPresence Platform Director System

If your RealPresence Platform Director system was installed in a VMware vCenter environment with the required credentials, you can use the RealPresence Platform Director system to deploy Polycom software. For complete instructions on how to use the RealPresence Platform Director system, see the Polycom RealPresence Platform Director Administrator Guide.

You cannot use the RealPresence Platform Director system to deploy a Hyper-V Virtual Edition. For a Hyper-V Virtual Edition, you must deploy the software using Hyper-V tools and then add the instance to the RealPresence Platform Director system.

Procedure

1. Install an instance of the RealPresence DMA system, Virtual Edition, according to the instructions in the Polycom RealPresence Platform Director Administrator Guide.

Log in to the RealPresence DMA System, Virtual Edition

You need to log in to your RealPresence DMA system, Virtual Edition, to continue system configuration.
Procedure

1. Be sure the RealPresence DMA system is powered on and running.

2. Open a web browser and enter the URL of the system in the address bar:
   https://<IP address>:8443/dma/

3. Enter the factory default administrator credentials:
   Username: admin
   Password: Polycom12#$

Appliance Edition Installation

If you purchased an Appliance Edition, you need to install the server. If the system software is not pre-installed on the server, you can download the software from the Polycom support site and create a DVD to install the software on your server.

Before beginning your installation, review the most recent Polycom RealPresence DMA System Release Notes

Verify Shipment Contents

Polycom Rack Server shipments include the server and other contents. You should verify the type of server and other contents of your shipment when you unpack the system.

The following table describes shipment contents based on the type of server you purchased. Note that licensing information and other items may be shipped separately.

<table>
<thead>
<tr>
<th>Item</th>
<th>R620</th>
<th>R630</th>
<th>R220/R230</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Polycom Rack Server</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1 system DVD</td>
<td>X (May be shipped separately)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 blank USB flash drive</td>
<td>X (RealPresence Resource Manager appliances do not include a blank USB flash drive)</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1 USB flash drive labeled Diagnostics that contains server diagnostics utilities. Use these utilities only under the direction of Polycom Global Services.</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Power cord(s)</td>
<td>May be shipped separately</td>
<td>May be shipped separately</td>
<td>May be shipped separately</td>
</tr>
</tbody>
</table>
Unpack and Install the Hardware

The RealPresence DMA system, Appliance Edition, can be installed on the following servers:

- Polycom Rack Server 630 (R630)
- Polycom Rack Server 620 (R620)
- Polycom Rack Server 230 (R230)
- Polycom Rack Server 220 (R220)

You should verify the type of server and other contents of your shipment when you unpack the system.

Procedure

1. Examine the shipping container for damage.
   If you find damage, file a claim with the delivery carrier. Polycom is not responsible for damage sustained during shipment of this product.

2. Open and review the container packing slips.

3. Open the container and examine the contents for damage.
   If you find damage, file a claim with the delivery carrier. Keep all shipping materials in case you need them later.

4. Unpack your system and identify each item.
   A single-server RealPresence DMA system shipment includes the items listed in Verify Shipment Contents on page 16.

5. Assemble the rails and install the server in the rack.
   To rack-mount a server, see the following instructions:
   - Polycom Rack Server 630 (R630) server:
   - Polycom Rack Server 620 (R620) server:

- Polycom Rack Server 230 (R230) server:

- Polycom Rack Server 220 (R220) server:

6. Connect the server's power cable(s) to the server and connect a VGA cable from the server to the console monitor.

7. Connect all power cables into a grounded electrical outlet or separate power source, such as an uninterrupted power supply (UPS) or power distribution unit (PDU).

8. Connect a keyboard to the server.

9. Press the power button on the server and on the monitor.
   The power indicators should light.

10. Create one access password for the system BIOS.

11. Set the correct system time in the system BIOS.

12. Install the bezel (optional).

13. **For Polycom Rack Server R630 or R620 servers only**: Connect the **GB 1** Ethernet port to the enterprise network.
   The GB 1 Ethernet port is the eth0 network interface.

14. **For Polycom Rack Server R220 or R230 servers only**: Connect the **Port 0** Ethernet port to the enterprise network.
   The Port 0 Ethernet port is the eth0 network interface. On the R220, it is the port that is furthest left on the back of the server. On the R230, it is the port that is furthest right on the back of the server.

*Port 0 Location for Polycom Rack Server 220*

*Port 0 Location for Polycom Rack Server 230*
**Caution:** Do not power off a Polycom Rack Server R630 or R620 by unplugging it or otherwise removing power, especially if the system will remain turned off for some time. If a server loses power without being properly shut down, the battery is eventually depleted. If this happens, the server cannot be restarted without user input, requiring a keyboard and monitor.

Create a DVD for the System Software

If your RealPresence DMA, Appliance Edition does not have the system software preinstalled, download the software ISO image from the Polycom Support site, burn it onto a blank DVD, then use the DVD to install the software onto the RealPresence DMA server.

**Procedure**

1. Download the RealPresence DMA software ISO image from [Polycom Support](https://www.polycom.com) to your Windows client system.
2. Insert a blank, recordable DVD into your DVD-RW drive.
3. Using your DVD recording software, burn the ISO image onto the DVD.
4. Verify that the ISO image burned successfully to the DVD, then remove it from your client system.

Install the RealPresence DMA System Software

If the RealPresence DMA system software is not pre-installed on your server(s), you can install the system software using the RealPresence DMA DVD you created.

Before you install the system software, see [Complete the First-Time Setup Worksheet](https://www.polycom.com) on page 4 to review your general system settings.

**Procedure**

1. Turn on the RealPresence DMA system server and insert the DVD.
2. Restart the system server.
   The server boots from the DVD and the installation starts. Installation takes approximately 20-30 minutes, after which the DVD ejects and the server restarts twice. For Polycom Rack Server 630-based or 620-based systems, **DMA Installed** displays on the front panel LCD when installation is complete. This indicates that the system software is installed but its network and time settings are not configured.
3. Remove the DVD from the server’s DVD drive.
4. If you are installing a second system, repeat these steps for the second system server.
Initial Configuration

Topics:

- Configure Initial Settings for the Virtual Edition
- Configure Initial Settings for the Appliance Edition
- System Licenses
- Additional Configuration

Configure Initial Settings for the Virtual Edition

After installation of the Virtual Edition software, you need to configure the Virtual Edition system using the system's web-based user interface.

Procedure

1. From a PC with network access to the Virtual Edition system, point your browser to the URL for the system instance (ignore any security certificate warning that may appear).

2. Log in with username admin and password Polycom12#$.

   The End User License Agreement (EULA) displays with a check box to accept or decline the Agreement. You can also agree or disagree to send usage data to Polycom to help improve the product. See the Polycom RealPresence DMA System Operations Guide for more information about automatic data collection.

3. Select the check box labeled I accept the terms of this license agreement and click Accept.

   The Dashboard of the RealPresence DMA system's web user interface displays. Using its menus, you can complete your system setup.

4. Go to Admin > Server > Network Settings and select the System IP type to match what you specified in the First-Time Setup Worksheet.

5. If you need to change the network configuration, enter the new network values.

6. Click Update.

   When asked to confirm restarting the system, click Yes.

   The system restarts.

7. Point your browser to the system's host name or IP address.

8. Log in with username admin and password Polycom12#$.

9. Go to Admin > Server > Time Settings and do the following:

   a. Select the correct System time zone for your location.

      Polycom recommends selecting the best location-specific setting, not one of the generic GMT offset settings.

   b. Select Use NTP server (recommended) and enter the IP addresses or domain names for the NTP time servers.
Polycom recommends specifying at least one and preferably three time servers. At least one time server must be specified before creating or joining a supercluster or enabling a High Availability pair.

10. Click **Update**.

11. Click **Yes** to confirm the system restart.
   
   The system restarts, which takes several minutes.

12. Log back in to the system and complete your system setup.
   
   The tasks required to complete the system configuration are described in the online help or the *Polycom RealPresence DMA System Operations Guide*.

**Configure Initial Settings for the Appliance Edition**

You can configure the RealPresence DMA system, Appliance Edition server(s) using the USB flash drive on which you saved the system settings you configured with the USB Configuration Utility. If you have not prepared the USB flash drive with the required settings, see [Prepare the USB Flash Drive (Appliance Edition Only)](page 10) on page 10.

**Procedure**

1. Power off the server.
   
   Ensure that the server is powered off before you insert the USB flash drive.

2. Insert the USB flash drive into a USB port.

3. Power on the server.
   
   After it boots, the server reads its network and system parameters from the USB flash drive and reboots at least one time.

4. If you are using a Polycom Rack Server R630 or R620, wait for the front panel LCD to display **DMA Ready**.

   **Caution:** If you are using a Polycom Rack Server R630 or R620 and the message **DMA Installed** displays on the LCD, the system software is installed, but not configured. Make sure the USB flash drive is set to apply system parameters and inserted into a functioning USB port, and then restart the server.

5. Disconnect the USB flash drive from the server.

6. If you are installing a second server, repeat the preceding steps.

7. Depending on which server you have, do one of the following:
   
   a. For Polycom Rack Server R630 or R620 systems, connect an Ethernet cable from the GB 1 Ethernet port of the server(s) to the enterprise network to be used for management or combined traffic.

   b. For Polycom Rack Server R220 or R230 systems, connect an Ethernet cable between the Port 0 Ethernet port of the server(s) to the enterprise network.

8. On a client system with network access to the RealPresence DMA system, point your browser to the system's virtual host name or IP address.

9. Log in with username **admin** and password **Polycom12#$**.
The End User License Agreement (EULA) displays with a check box to accept or decline the Agreement. You can also agree or disagree to send usage data to Polycom to help improve the product. See the Polycom RealPresence DMA System Operations Guide for more information about automatic data collection.

10. Select the check box labeled I accept the terms of this license agreement and click Accept. The Dashboard of the RealPresence DMA system's web user interface displays. Using its menus, you can complete your system setup.

The tasks required to complete the system configuration are described in the online help and the Polycom RealPresence DMA System Operations Guide.

Initial Configuration Without Using the USB Flash Drive

If you do not use the USB Configuration Utility on the USB flash drive, you can use the following procedure to complete the initial setup using a laptop PC and an Ethernet cable.

The RealPresence DMA system servers are shipped with the following default network settings that you can use to connect to the system:

- **IP address:** 192.168.200.10
- **Subnet mask:** 255.255.255.0
- **Default gateway:** 192.168.200.1

**Procedure**

1. Ensure that the server is NOT connected to the enterprise network.

2. Configure the network settings on your laptop to connect it to the same network segment as the RealPresence DMA system server.
   
   Example settings:
   - IP address: 192.168.200.20
   - Subnet mask: 255.255.255.0
   - Default gateway: 192.168.200.1

3. Do one of the following:
   
   a. If you are using a Polycom Rack Server R630 or R620 system, connect an Ethernet cable between your laptop and the **GB 1** interface of the server.

   b. If you are using a Polycom Rack Server R230 or R220 system, connect an Ethernet cable between your laptop and the **Port 0** interface of the server.

4. Power on the server.

   The server starts, which takes several minutes. If you are using a Polycom Rack Server R630 or R620 system, after the server starts, **DMA Installed** displays on the front panel LCD. This indicates that the system software is installed but its network and time settings are not configured.

   **Caution:** If you are using a Polycom Rack Server R630 or R620 and **DMA Installed** does not display on the LCD, stop. Contact Polycom Global Services for assistance.

5. On the laptop, point your browser to http://192.168.200.10 (ignore any security certificate warning that may appear).

6. Log in with username **admin** and password **Polycom12#$**.
The End User License Agreement (EULA) displays with a check box to accept or decline the Agreement. You can also agree or disagree to send usage data to Polycom to help improve the product. See the Polycom RealPresence DMA System Operations Guide for more information about automatic data collection.

7. Select the check box labeled I accept the terms of this license agreement and click Accept.
   The Dashboard of the RealPresence DMA system's user interface displays. Using its menus, you can complete your system setup.

8. Go to Admin > Server > Network Settings.

9. Enter the Host name, Domain, DNS Search domains, and DNS 1.

10. If you need to set up a special network routing rule or rules, click Routing Configuration, create the rule(s), and click OK.

11. Click Update.

12. When asked to confirm restarting the system, click Yes.

13. While the server is restarting, do the following:
   a. Disconnect the Ethernet cable from the laptop.
   b. If you are using a Polycom Rack Server R630 or R620, connect the server's GB 1 Ethernet port to the enterprise network to be used for management or combined traffic.
   c. If you are using a Polycom Rack Server R230 or R220, connect the server's Port 0 Ethernet port to the enterprise network to be used for management or combined traffic.

   The restart process takes several minutes. If you are using a Polycom Rack Server R630 or R620, after the server starts, DMA Ready displays on the front panel LCD.

14. From a PC with network access to the RealPresence DMA system, point your browser to your system's host name or IP address.

15. Log in with username admin and password Polycom12#$.

16. Go to Admin > Server > Time Settings and select the correct System time zone for your location.

   Polycom recommends selecting the best location-specific setting, not one of the generic GMT offset settings.

17. Under NTP servers, enter the IP addresses or domain names for the time servers.

   Polycom recommends specifying at least one and preferably three time servers. At least one time server must be specified before creating or joining a supercluster.

18. Click Update.

   The system restarts.

   **Note:** If you are using a Polycom Rack Server R630 or R620, after the server starts, DMA Ready displays on the front panel LCD.

19. When asked to confirm restarting the system, click Yes.

20. Log back into the system from your browser and complete your system setup.

   The tasks required to complete the system configuration are described in the “Polycom DMA System Initial Configuration Summary” section of the online help or the Polycom RealPresence DMA System Operations Guide.
System Licenses

Once you have finished first time setup, you need to license your RealPresence DMA system. This process depends on the type of license you have for your product.

- If you are a Polycom RealPresence Clariti™ customer with a Polycom RealPresence Resource Manager system version 10.0 or later, you must use the RealPresence Resource Manager system to license your product. If you have not deployed a RealPresence Resource Manager system or if you have not upgraded your RealPresence Resource Manager system to version 10.0 or later, you must license your product using the RealPresence Platform Director system version 3.0 or later.
- If you are not a RealPresence Clariti customer, you must use a license file or activation key code to license your product.

License Your System with RealPresence Resource Manager

The RealPresence Resource Manager system must be able to communicate with your RealPresence DMA system so it can be licensed and monitored. After you install your RealPresence Access Director system instance, you need to add the instance to the RealPresence Resource Manager system to establish communication.

For instructions on how to add a system instance in the RealPresence Resource Manager system, see the RealPresence Resource Manager System Operations Guide.

License Your System with RealPresence Platform Director

If your deployment includes a RealPresence Resource Manager system version 10.0 or later, you cannot use the RealPresence Platform Director system to license your product. If you have not deployed a RealPresence Resource Manager system version 10.0 or later, the RealPresence Platform Director system version 3.0 or later is available for download from Documents and Downloads at Polycom Support.

The RealPresence Platform Director system must be able to communicate with your RealPresence DMA system so it can be licensed and monitored.

- If you used the RealPresence Platform Director system to deploy your RealPresence DMA system, communication is established automatically.
- If you did not use the RealPresence Platform Director system to install your RealPresence DMA system, you need to add an instance of your system to the RealPresence Platform Director.

For instructions on how to add a system instance in the RealPresence Platform Director system, see the RealPresence Platform Director System Administrator Guide.

License Your System with a License File

If you are not a RealPresence Clariti customer, you need to license your RealPresence DMA system using an activation key code or license file. See the Polycom RealPresence DMA System Operations Guide for instructions.

Additional Configuration

See the Polycom RealPresence DMA System Operations Guide for additional configuration tasks.