Polycom Trio™ with Polycom® RealPresence® Group Series
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Before You Begin

Topics:

• Audience, Purpose, and Required Skills
• Getting Help

This guide describes how to integrate your Polycom Trio™ system with a Polycom® RealPresence® Group Series system.

The information in this guide applies to the following Polycom devices except where noted:

• Polycom Trio 8500
• Polycom Trio 8800
• RealPresence Group Series 310
• RealPresence Group Series 500

Audience, Purpose, and Required Skills

This guide is written for a technical audience.

You must be familiar with the following concepts before beginning:

• Current telecommunications practices, protocols, and principles
• Telecommunication basics, video teleconferencing, and voice or data equipment
• Open SIP networks and VoIP endpoint environments

Getting Help

For more information about installing, configuring, and administering Polycom products, refer to the Polycom Documentation Library or Documents & Software at Polycom Support.

Related Documentation


Documentation Feedback

We welcome your feedback to improve the quality of Polycom documentation.

You can email Documentation Feedback for any important queries or suggestions related to this documentation.
Getting Started

Topics:

- Integration Overview

Integration Overview

You can pair your Polycom Trio™ 8500 or 8800 system with a Polycom® RealPresence® Group Series 310 or 500 system. In this setup, you make calls, share content, and perform all other meeting activities through your Polycom Trio system.

Adding a RealPresence Group Series system gives your Polycom Trio system the following new features:

- More camera options:
  - Polycom® EagleEye™ IV camera
  - Polycom® EagleEye™ Director II camera
  - Polycom® EagleEye™ Producer camera
  - Polycom® EagleEye™ Acoustic camera

**Note:** The Polycom® EagleEye™ III and Polycom® EagleEye™ II cameras, which are supported using a standalone RealPresence Group Series system, are not supported when paired.

- Dual monitors
- Ability to connect Polycom tabletop and ceiling microphones (up to two microphones for RealPresence Group Series 310 systems and up to four for RealPresence Group Series 500 systems)
- Content sharing through an HDMI or VGA connection
- Sending Video-based Screen Sharing (VbSS) content in Skype for Business environments

You also can provision your paired systems at the same time with Polycom® RealPresence® Resource Manager.

RealPresence Group Series Behavior Changes

Your RealPresence Group Series system becomes a peripheral of your Polycom Trio system when the two are paired, resulting in changes to what you experience with a standalone video endpoint. Standard features may be limited or unsupported.

For more information about these changes when your RealPresence Group Series system is paired, see the Polycom RealPresence Group Series Software Release Notes at Polycom Support.
Configuring RealPresence Group Series to Polycom Trio Mode

Topics:

▪ Verify the RealPresence Group Series Meets the Pairing Hardware Requirement
▪ Configure the RealPresence Group Series to Prioritize Voice VLAN
▪ Switch to Polycom Trio Mode
▪ Switch to RealPresence Group Series Mode

Your RealPresence Group Series system needs to be in Polycom Trio Mode so the systems can pair.

Verify the RealPresence Group Series Meets the Pairing Hardware Requirement

Your RealPresence Group Series system must be hardware version 20 or later to use Polycom Trio Mode.

Procedure

1. Do one of the following to verify that your system has the correct hardware:
   ▪ Check that your model has the right part number.
   ▪ Locate the sticker on the system with the hardware version label (e.g., HV20). (The same sticker is also near the shipping label on the box.)
   ▪ In the system web interface, go to the System page to find the hardware version.
   ▪ In the local interface, go to Settings > System Information to find the hardware version.

Note: In the system web interface, you won’t see the option for configuring to Polycom Trio Mode if your hardware version isn’t supported.

Configure the RealPresence Group Series to Prioritize Voice VLAN

To successfully pair with a Polycom Trio system, you must configure your RealPresence Group Series system to prioritize voice VLANs.
By default, the RealPresence Group Series system prioritizes a data VLAN before a voice VLAN. Unless you enable LLDP, you won’t be able to pair your devices.

Procedure

1. In the system web interface, go to Admin Settings > Network > LAN Properties > LAN Options.
2. Select Enable LLDP.
3. Select Save and Restart.

When your RealPresence Group Series system reboots, it automatically chooses the same VLAN as the Polycom Trio system so the devices can pair.

Related Links
- Manually Pair with Polycom Trio Systems on page 9
- Status Indicators on page 24

Switch to Polycom Trio Mode

Before you can pair devices, you must configure your RealPresence Group Series system to Polycom Trio Mode.

Make sure your RealPresence Group Series system is hardware version 20 or later and that you have enabled LLDP in the LAN options.

Procedure

1. In the system web interface, go to Admin Settings > General Settings.
2. Go to System Settings > System Mode.
3. Select Polycom Trio Mode then Save and Restart.

After your RealPresence Group Series system restarts, you should see instructions on the local interface for pairing it with your Polycom Trio system.

Related Links
- Verify the RealPresence Group Series Meets the Pairing Hardware Requirement on page 5

Switch to RealPresence Group Series Mode

Configure your RealPresence Group Series system back to a standalone endpoint.

Procedure

1. In the system web interface, go to Admin Settings > General Settings.
2. Go to System Settings > System Mode.
3. Select RealPresence Group Series Mode then Save and Restart.

Your RealPresence Group Series system restarts as a standalone endpoint.
Security

Topics:

- TLS Between Paired Systems
- Deploying in an 802.1X Environment

TLS Between Paired Systems

TLS communication between your paired Polycom Trio and RealPresence Group Series systems is enabled by default. You can choose how strict you want that communication to be.

Related Links
Pairing the RealPresence Group Series with Polycom Trio Systems on page 9

Connect Systems without TLS

Though TLS is enabled by default, you can configure your Polycom Trio and RealPresence Group Series systems to connect without it.

Procedure

1. In the RealPresence Group Series system web interface, go to Admin Settings > Security.
2. Go to Global Security.
3. Go to Polycom Trio Mode (TLS Connections).
   This page is only available when your RealPresence Group Series system is in Polycom Trio Mode.
4. Select Allow Non-TLS Connections then Save and Restart.
5. After your RealPresence Group Series system restarts, log in to your Polycom Trio system Web Configuration Utility as an Admin (default password 456).
6. Go to Settings > Networked Devices.
7. Select Other Settings.
8. For Networked Device TLS, select Disable.
   After your Polycom Trio system restarts, it should pair with your RealPresence Group Series system without TLS.

Don’t Allow Expired Certificates

Your paired systems by default communicate over TLS even if a certificate has expired, but you can configure your RealPresence Group Series system to deny these types of connections.

Procedure

1. In the system web interface, go to Admin Settings > Security.
2. Go to Global Security.
3. Go to Polycom Trio Mode (TLS Connections).
   This page is only available when your RealPresence Group Series system is in Polycom Trio Mode.
4. Deselect Allow Expired Certificates then Save and Restart.

Deploying in an 802.1X Environment

If you use 802.1X, Polycom recommends configuring your Polycom Trio and RealPresence Group Series systems for that type of authentication in a staging environment before deploying the systems to your network. Otherwise, you may experience issues that are difficult to troubleshoot.

For example, you can’t change settings in the web interface if the RealPresence Group Series system isn’t assigned an IP address (due to failed authentication). The local interface is already unavailable when the system is paired.
Pairing the Systems

Topics:

• Pairing the RealPresence Group Series with Polycom Trio Systems

You can pair your systems after each has been correctly configured.

Pairing the RealPresence Group Series with Polycom Trio Systems

Pair the RealPresence Group Series system with a Polycom Trio system so users can place video calls and share content.

You can pair only one RealPresence Group Series system to a Polycom Trio system. Polycom recommends you plug your systems into a local gigabit switch.

You can pair the RealPresence Group Series system using configuration files or from the Polycom Trio system menu. To pair, the systems must be connected to the same subnet and the following network components must be unblocked:

• Multicast address 224.0.0.200
• Port 2000

Note: You cannot use the RealPresence Group Series for video calls when you connect the Polycom Trio system to your network using Wi-Fi. The systems only pair when the Polycom Trio system is connected over Ethernet.

Related Links
TLS Between Paired Systems on page 7

Manually Pair with Polycom Trio Systems

You can manually pair a RealPresence Group Series system from the Polycom Trio 8500 or 8800 system menu.

Procedure

1. Set up the system you plan to pair with the Polycom Trio system.
   For instructions, refer to that system’s Setup Sheet.
   The Welcome screen displays on your monitor and indicates steps to pair with a Polycom Trio system.

2. On the phone menu, go to Settings > Advanced > Networked Devices and make sure Notification of New Devices is On.

3. Choose one of the following:
• If you have not paired the device before, tap **Pair with New Device**, tap the device you want to pair from the Discovered Devices list, and in the Details screen, tap **Pair**. All currently paired devices display under Paired Devices.

• If the device has been paired before, select the device from the **Available Devices** list and tap **Pair**.

4. Tap **Complete** when you see the message prompting you to complete the pairing.

If paired, a success message displays on the monitor(s) along with a self-view window. The LED light on the device paired with your phone is also continuously blue, and a paired icon displays on the phone. If pairing is unsuccessful, you see a message that the devices could not pair. After successful pairing, if your devices disconnect for 60 seconds, a message displays that the devices have temporarily lost connection.

**Related Links**
- [Configure the RealPresence Group Series to Prioritize Voice VLAN](#) on page 5
- [Status Indicators](#) on page 24

### RealPresence Group Series Pairing Parameters

You can pair your systems with the `mr.pair.uid.1` Polycom Trio system parameter. Once paired, you can configure some RealPresence Group Series system settings (including how its software updates) with the following parameters.

#### Pairing Parameters

| Template | Parameter | Permitted Values | Change Causes
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>site.cfg</td>
<td>mr.pair.uid.1</td>
<td>(Enter the MAC address of the Polycom Trio Visual+ you want to pair with. Null (default) String (maximum of 64 characters))</td>
<td>No</td>
</tr>
<tr>
<td>site.cfg</td>
<td>mr.pair.tls.enabled</td>
<td>1 (default) - Enable TLS to encrypt communication between the Polycom Trio and Polycom Trio Visual+ systems. 0 - Disable TLS for communication between Polycom Trio systems and Polycom Trio Visual+ systems.</td>
<td>Yes</td>
</tr>
<tr>
<td>site.cfg</td>
<td>mr.deviceMgmt.vc2.param.softwareUpdateUri</td>
<td>Identifies the URI where the paired peripheral gets its software updates. String</td>
<td>No</td>
</tr>
<tr>
<td>site.cfg</td>
<td>mr.deviceMgmt.vc2.param.softwareUpdateProxyServer</td>
<td>Identifies the proxy server where the paired peripheral gets its software updates. String</td>
<td>No</td>
</tr>
<tr>
<td>Template</td>
<td>Parameter</td>
<td>Permitted Values</td>
<td>Change Causes</td>
</tr>
<tr>
<td>------------</td>
<td>---------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>-------------------------------</td>
</tr>
<tr>
<td>site.cfg</td>
<td>mr.deviceMgmt.v</td>
<td>1 (default) - Enables the maintenance window for updating the paired peripheral’s software. 0 - Disables the maintenance window for updating the paired peripheral’s software.</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>c2.param.softup dateMaintenanceWindowEnabled</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 (default) - Enables the maintenance window for updating the paired peripheral’s software. 0 - Disables the maintenance window for updating the paired peripheral’s software.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>site.cfg</td>
<td>mr.deviceMgmt.v</td>
<td>Specifies when the paired peripheral's maintenance window begins in 24-hour clock format (e.g., “10:30” or “15:00”).</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>c2.param.softup dateMaintenanceWindowStart</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Specifies when the paired peripheral's maintenance window begins in 24-hour clock format (e.g., “10:30” or “15:00”).</td>
<td></td>
</tr>
<tr>
<td>site.cfg</td>
<td>mr.deviceMgmt.v</td>
<td>Specifies how long the paired peripheral’s maintenance window lasts.</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>c2.param.softup dateMaintenanceWindowDuration</td>
<td>Range is 1-6 hours; default is 3.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Specifies how long the paired peripheral’s maintenance window lasts.</td>
<td></td>
</tr>
<tr>
<td>site.cfg</td>
<td>mr.deviceMgmt.v</td>
<td>Sets the paired peripheral’s system name.</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>c2.param.displayName</td>
<td></td>
<td></td>
</tr>
<tr>
<td>site.cfg</td>
<td>mr.deviceMgmt.v</td>
<td>Sets the paired peripheral’s host name.</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>c2.param.hostName</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Related Links**

*Updating Software of Paired RealPresence Group Series System* on page 22

**Identify Paired Devices**

If you're using multiple Polycom Trio systems, you can verify which one is paired with a specific RealPresence Group Series system.

**Procedure**

1. On the phone menu, go to Settings > Advanced > Networked Devices, and ensure that Notification of New Devices is On.
2. Select a device that displays under Paired Devices or Available Devices.
3. Tap Identify.
   - The LED of the device you selected flashes to indicate it is paired.
Camera Options for Polycom Trio

Topics:

- Camera Parameters for the Paired RealPresence Group Series

You can control your camera from the Polycom Trio system menu (available controls depend on the camera model connected to your paired RealPresence Group Series system).

For example, you can change your auto tracking preferences for a Polycom® EagleEye™ Producer camera on the phone menu.

Camera Parameters for the Paired RealPresence Group Series

You can use configuration parameters to configure the video and camera options for supported cameras.

Using the parameter `video.camera.x.type`, you can configure parameters differently for the following cameras supported with Polycom Trio 8500 and 8800 systems paired with RealPresence Group Series:

- Polycom® EagleEye™ IV camera
- Polycom® EagleEye™ Director II camera
- Polycom® EagleEye™ Producer camera
- Polycom® EagleEye™ Acoustic camera

Note: The following parameters apply only to EagleEye Director II and EagleEye Producer cameras. For more camera parameters, see the Polycom Trio Administrator Guide.

Camera Parameters for the Paired RealPresence Group Series

| Template   | Parameter            | Permitted Values                                                                 | Change Causes
|------------|----------------------|----------------------------------------------------------------------------------|-----------------|
| `video.cfg` | `video.camera.x.trackingEnabled` | For the EagleEye Director II or EagleEye Producer camera:
  1 (default) - Enables automatic camera tracking. You can then set the tracking type, speed, and size.
  0 - Disables camera tracking. | No |

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<table>
<thead>
<tr>
<th>Template</th>
<th>Parameter</th>
<th>Permitted Values</th>
<th>Change Causes Restarts or Reboots</th>
</tr>
</thead>
<tbody>
<tr>
<td>video.cf</td>
<td>video.camera.x. trackingFraming Mode</td>
<td>For the EagleEye Director II or EagleEye Producer camera:&lt;br&gt;0 (default) - Frame Speaker: Frames the active speaker.&lt;br&gt;1 - Frame Group: Frames the participants in the room (camera movement is seen on the far end).&lt;br&gt;2 - Frame Group with Transition (EagleEye Producer only): Frames the participants in the room (camera movement is seen on the far end).</td>
<td>No</td>
</tr>
<tr>
<td>video.cf</td>
<td>video.camera.x. trackingSpeed</td>
<td>For the EagleEye Director II or EagleEye Producer camera:&lt;br&gt;1 (default) - Normal: Tracks transitions at a medium rate.&lt;br&gt;0 - Slow: Tracks transitions slowly.&lt;br&gt;2 - Fast: Tracks transitions quickly.</td>
<td>No</td>
</tr>
<tr>
<td>video.cf</td>
<td>video.camera.x. trackingFraming Size</td>
<td>For the EagleEye Director II or EagleEye Producer camera:&lt;br&gt;1 - Medium (default): Average-sized frame.&lt;br&gt;0 - Wide: Most expansive frame.&lt;br&gt;2 - Tight: Close-up frame.</td>
<td>No</td>
</tr>
<tr>
<td>video.cf</td>
<td>video.camera.x. trackingPipEnabled</td>
<td>For the EagleEye Director II or EagleEye Producer camera:&lt;br&gt;1 (default) - Enables People in Picture (PIP), which displays a group or room view to far-end participants.&lt;br&gt;0 - Disables PIP.</td>
<td>No</td>
</tr>
</tbody>
</table>
Video and Displays

Topics:

- RealPresence Group Series Video Layouts
- RealPresence Group Series Display

RealPresence Group Series Video Layouts

When a RealPresence Group Series system is paired with a Polycom Trio system, you can set how participants and content display during video calls.

Gallery View layout is supported for video and content during video calls in standard H.264 video meetings or point-to-point calls.

RealPresence Group Series Video Layout Parameters

The following parameters configure video layouts when using a paired RealPresence Group Series system.

<table>
<thead>
<tr>
<th>Template</th>
<th>Parameter</th>
<th>Permitted Values</th>
<th>Change Causes Restart or Reboot</th>
</tr>
</thead>
<tbody>
<tr>
<td>video.cfg</td>
<td>video.conf.displayLayout.PIP.peopleMode</td>
<td>Choose what the PIP screen displays.</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>selfView (default) - Display your own video.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>recentTalker - Display video from the current or most recent talker.</td>
<td></td>
</tr>
<tr>
<td>video.cfg</td>
<td>video.conf.displayLayout.gallery.allowContent</td>
<td>1 (default) - Enable Gallery View layout for video and content.</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Content is scaled to fit into the 720p window of a gallery window.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0 - Disable Galley View layout. Content displays in a full screen window.</td>
<td></td>
</tr>
<tr>
<td>video.cfg</td>
<td>video.conf.displayLayout.autoPreference</td>
<td>The system automatically chooses the best layout mode for video call.</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Gallery (default)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>PIP</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>FullScreen</td>
<td></td>
</tr>
</tbody>
</table>
**RealPresence Group Series Display**

When using the Polycom Trio system with the RealPresence Group Series system, you can configure system information to display on the connected monitor(s).

**RealPresence Group Series Display Parameters**

The following table lists parameters you can use to hide or display icons and features on the RealPresence Group Series monitor(s) when paired with a Polycom Trio 8500 or 8800 system.

### Polycom Trio User Interface Parameters

<table>
<thead>
<tr>
<th>Template</th>
<th>Parameter</th>
<th>Permitted Values</th>
<th>Change Causes Restart or Reboot</th>
</tr>
</thead>
<tbody>
<tr>
<td>features.cf</td>
<td>mr.bg.selection</td>
<td>Sets a background image for the connected monitor(s).</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>g</td>
<td>HallstatterSeeLake (default)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Auto - Automatically cycles through HallstatterSeeLake, BavarianAlps, and ForgetMeNotPond. The background image changes each time a video call ends.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>BlueGradient</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>BavarianAlps</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>ForgetMeNotPond</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Custom - Use a custom background specified by mr.bg.url.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>A custom background image must be a JPEG with 1920x1080 resolution and a maximum size of 2.9 MB for it to display correctly on the paired RealPresence Group Series system monitor(s). (PNG images, which typically are supported on Polycom Trio, are not supported in this setup.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>mr.bg.showPlcmLogo</td>
<td>1 (default) - The Polycom logo shows on the connected monitor(s).</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>g</td>
<td>0 - Hides the Polycom logo.</td>
<td></td>
</tr>
<tr>
<td>Template</td>
<td>Parameter</td>
<td>Permitted Values</td>
<td>Change Causes</td>
</tr>
<tr>
<td>----------</td>
<td>---------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>---------------</td>
</tr>
</tbody>
</table>
| features.cf | mr.bg.showWelcomeInstructions | All (default) - Display the content-sharing graphic and welcome message on the connected monitor(s).  
TextOnly - Hide the content-sharing graphic.  
None - Hide both the content-sharing graphic and welcome message. | No            |
| features.cf | mr.bg.url                  | Specify an HTTP URL location of a background image to use on the connected monitor(s).  
A custom background image must be a JPEG with 1920x1080 resolution and a maximum size of 2.9 MB for it to display correctly on the paired RealPresence Group Series system monitor(s). (PNG images, which typically are supported on Polycom Trio, are not supported in this setup.)  
This background image is used only if mr.bg.selection= "Custom"  
Null (default)  
String (maximum 256 characters) | No            |
<table>
<thead>
<tr>
<th>Template</th>
<th>Parameter</th>
<th>Permitted Values</th>
<th>Change Causes</th>
</tr>
</thead>
<tbody>
<tr>
<td>features.cf</td>
<td>up.hideSystemIpAddr</td>
<td>Specify where the IP address of the Polycom Trio system and RealPresence Group Series system are hidden from view.</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>ess</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>You can access the IP address from the phone Advanced menu if you set this parameter to ‘Menus’ or ‘Everywhere’.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Nowhere (default) - The IP addresses display on all user interfaces.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• TV - IP addresses are hidden from the monitor.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• HomeScreen - IP addresses are hidden from the monitor and phone menu.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Menus - IP addresses are hidden from the monitor, phone Home screen, and menu.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Everywhere - IP addresses are hidden from the monitor, phone Home screen, and menu.</td>
<td></td>
</tr>
</tbody>
</table>
Audio

Topics:

▪ Choose System for Audio Output and Input
▪ Audio Parameters

When paired, you must choose whether audio is sent and received from the Polycom Trio or RealPresence Group Series system.

For example, if you select Phone speakers on the Polycom Trio system menu, only the phone’s speakers and microphone are used (while RealPresence Group Series system audio is disabled).

Choose System for Audio Output and Input

Identify how you want to send and hear audio in and out of calls.

Note: If you have an EagleEye Acoustic camera connected to your RealPresence Group Series system, Polycom recommends using your Polycom Trio system for audio.

Procedure

1. On the phone menu, go to Settings > Basic > Preferences > Audio Output.
2. Select one of the following:
   ▪ **Phone speakers** to use only your Polycom Trio system speakers and microphone.
   ▪ **TV speakers** to use only your RealPresence Group Series system speakers and microphones.
   ▪ **Automatic - based on call type** to use Polycom Trio system speakers and microphone for audio calls and RealPresence Group Series system speakers and microphones for video calls.

You can toggle this setting while in a call.

Audio Parameters

The following table includes the Polycom Trio system parameter for setting your audio output and input.
## Audio Parameters

<table>
<thead>
<tr>
<th>Template</th>
<th>Parameter</th>
<th>Permitted Values</th>
<th>Change Causes Restart or Reboot</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>features.cfg</code></td>
<td><code>up.audio.networkedDevicePlayout</code></td>
<td>PhoneOnly (default) - Use the Polycom Trio system speakers and microphone.</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TvOnly - Use the monitor speakers, external speakers (if present), and microphones connected to the paired RealPresence Group Series system.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Auto - Audio-only calls use the Polycom Trio system speakers and microphone. Video calls use the monitor speakers, external speakers (if present), and microphones connected to the paired RealPresence Group Series system.</td>
<td></td>
</tr>
</tbody>
</table>
## Content

**Topics:**

- Content Sharing with Paired RealPresence Group Series
- Content Sharing with Polycom Pano

### Content Sharing with the Paired RealPresence Group Series

You can show content from a computer during in-person meetings, video conference calls, and point-to-point video calls on the paired RealPresence Group Series system monitor(s).

To share content, your computer must be plugged into the HDMI or VGA input port on the RealPresence Group Series system.

### HDMI and VGA Content with the Paired RealPresence Group Series Parameters

The parameters in the following table configure HDMI and VGA content sharing with the paired RealPresence Group Series system.

#### HDMI and VGA Content Parameters

<table>
<thead>
<tr>
<th>Template</th>
<th>Parameter</th>
<th>Permitted Values</th>
<th>Change Causes</th>
</tr>
</thead>
<tbody>
<tr>
<td>site.cfg</td>
<td>mr.contentStreamPortStart</td>
<td>Sets where the IP port range begins for content input streams from a network device.</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4300 (default)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1024 - 65436</td>
<td></td>
</tr>
<tr>
<td>site.cfg</td>
<td>mr.contentStreamPortEnd</td>
<td>Sets where the IP port range ends for content input streams from a network device.</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4320 (default)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1024 - 65436</td>
<td></td>
</tr>
</tbody>
</table>

### Sending Content with Video-based Screen Sharing (VbSS)

If your Polycom Trio system is registered to Skype for Business, you can send content from the computer connected to your paired RealPresence Group Series system using Video-based Screen Sharing (VbSS).
VbSS Send Parameters

The parameters in the following table configure the ability to send content using VbSS in Skype for Business calls.

### VbSS Send Parameters

<table>
<thead>
<tr>
<th>Template</th>
<th>Parameter</th>
<th>Permitted Values</th>
<th>Change Causes</th>
<th>Restarts or Reboot</th>
</tr>
</thead>
<tbody>
<tr>
<td>features</td>
<td>content.vbssPush</td>
<td>1 (default) - VbSS content from the paired system is sent in Skype for Business conference and point-to-point calls. 0 - VbSS content from the paired system is not sent in Skype for Business conference and point-to-point calls.</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>h.enable</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>features</td>
<td>content.vbssPush</td>
<td>1 (default) - VbSS content from the paired system is sent in Skype for Business point-to-point calls. 0 - VbSS content from the paired system is not sent in Skype for Business point-to-point calls.</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>hP2P.enable</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Content Sharing with Polycom Pano**

Using the Polycom® Pano™ device as an HDMI content source is supported when your RealPresence Group Series system is paired with a Polycom Trio system.

**Note:** The expected behavior of integrating a Pano device with a standalone Polycom video system is not fully supported when your RealPresence Group Series system is in Polycom Trio Mode.
System Maintenance

Topics:

- Updating Software of Paired RealPresence Group Series System
- Power-Saving Parameters

Updating Software of Paired RealPresence Group Series System

You can update your RealPresence Group Series system software using one of the following methods when it’s paired to a Polycom Trio system:

- Provisioning service (e.g., Polycom® RealPresence® Resource Manager): Polycom Trio system parameters set how your paired RealPresence Group Series system updates its software.
- RealPresence Group Series system web interface: Lets you manually or automatically update the system’s software (you can find the IP address to access the interface on the Polycom Trio system Networked Devices menu). For more information, see the Polycom RealPresence Group Series Administrator Guide.

Related Links
RealPresence Group Series Pairing Parameters on page 10

Power-Saving Parameters

Use the following Polycom Trio system parameters to configure power-saving options for your paired RealPresence Group Series system.

<table>
<thead>
<tr>
<th>Template</th>
<th>Parameter</th>
<th>Permitted Values</th>
<th>Change Causes Restart or Reboot</th>
</tr>
</thead>
<tbody>
<tr>
<td>site.</td>
<td>powerSaving.cecE</td>
<td>0 (default) - The paired device display behavior is controlled only by the value set for powerSaving.tvStandbyMode. 1 - When the Polycom Trio system enters power-saving mode, the paired device display switches to standby mode and powers up when the system exits power-saving mode.</td>
<td>No</td>
</tr>
<tr>
<td>cfg</td>
<td>nable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Template</td>
<td>Parameter</td>
<td>Permitted Values</td>
<td>Change Causes Restart or Reboot</td>
</tr>
<tr>
<td>----------</td>
<td>-----------</td>
<td>-----------------</td>
<td>--------------------------------</td>
</tr>
<tr>
<td>site.</td>
<td>powerSaving.tvStandbyMode</td>
<td><strong>black</strong> (default) - The paired device displays a black screen after entering power-saving mode. <strong>noSignal</strong> - Power-saving mode turns off the HDMI signal going to the paired device monitor(s).</td>
<td>No</td>
</tr>
</tbody>
</table>
Diagnostics and Status

Topics:

- Status Indicators

Status Indicators

The Polycom Trio 8500 and 8800 systems and paired RealPresence Group Series system and its microphones use LED lights to indicate status.

### Polycom Trio Status Indicators

<table>
<thead>
<tr>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>Device is in an idle state or powered off.</td>
</tr>
<tr>
<td>Green</td>
<td>In a call with audio unmuted.</td>
</tr>
<tr>
<td>Red</td>
<td>Microphones are muted. Device is in a call or in idle state.</td>
</tr>
<tr>
<td>Yellow</td>
<td>Power on LED diagnostic.</td>
</tr>
</tbody>
</table>

### RealPresence Group Series Status Indicators

<table>
<thead>
<tr>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steady blue</td>
<td>Device is powered on and paired with a Polycom Trio system.</td>
</tr>
<tr>
<td></td>
<td>Device is in an idle state or powered off.</td>
</tr>
<tr>
<td>Flashing blue</td>
<td>Device is not paired.</td>
</tr>
<tr>
<td></td>
<td>Device is powering on.</td>
</tr>
<tr>
<td>Amber</td>
<td>Device is in a low-power, standby state.</td>
</tr>
<tr>
<td>Green</td>
<td>In a call with audio muted or unmuted.</td>
</tr>
<tr>
<td>Alternating red and green flashes</td>
<td>Device is indicating it is paired.</td>
</tr>
</tbody>
</table>

### RealPresence Group Series Microphone Status Indicators

<table>
<thead>
<tr>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>Device is in an idle state or powered off.</td>
</tr>
</tbody>
</table>
## Status and Description

<table>
<thead>
<tr>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green</td>
<td>Microphones are unmuted.</td>
</tr>
<tr>
<td>Red</td>
<td>Microphones are muted. Device is in a call or in idle state.</td>
</tr>
</tbody>
</table>

## Related Links

- [Manually Pair with Polycom Trio Systems](#) on page 9
- [Configure the RealPresence Group Series to Prioritize Voice VLAN](#) on page 5