Group Page with VVX600 and Algo 8301 Paging Adapter
Application Note
Group Page with VVX600 and Algo 8301 Paging Adapter

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Conventions Used in Polycom Guides

Polycom guides contain graphical elements and a few typographic conventions. Familiarizing yourself with these elements and conventions will help you successfully perform tasks.

Information Elements

Polycom guides may include any of the following icons to alert you to important information.

Icons Used in Polycom Guides

<table>
<thead>
<tr>
<th>Name</th>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Note</td>
<td><img src="image" alt="Note Icon" /></td>
<td>The Note icon highlights information of interest or important information needed to be successful in accomplishing a procedure or to understand a concept.</td>
</tr>
<tr>
<td>User Tip</td>
<td><img src="image" alt="User Tip Icon" /></td>
<td>The User Tip icon highlights techniques, shortcuts, or productivity related tips for users.</td>
</tr>
<tr>
<td>Administrator Tip</td>
<td><img src="image" alt="Administrator Tip Icon" /></td>
<td>The Administrator Tip icon highlights techniques, shortcuts, or productivity related tips.</td>
</tr>
<tr>
<td>Caution</td>
<td><img src="image" alt="Caution Icon" /></td>
<td>The Caution icon highlights information you need to know to avoid a hazard that could potentially impact device performance, application functionality, or successful feature configuration.</td>
</tr>
<tr>
<td>Warning</td>
<td><img src="image" alt="Warning Icon" /></td>
<td>The Warning icon highlights an action you must perform (or avoid) to prevent issues that may cause you to lose information or your configuration setup, and/or affect phone, video, or network performance.</td>
</tr>
<tr>
<td>Web Info</td>
<td><img src="image" alt="Web Info Icon" /></td>
<td>The Web Info icon highlights supplementary information available online such as documents or downloads on support.polycom.com or other locations.</td>
</tr>
<tr>
<td>Timesaver</td>
<td><img src="image" alt="Timesaver Icon" /></td>
<td>The Timesaver icon highlights a faster or alternative method for accomplishing a method or operation.</td>
</tr>
<tr>
<td>Power Tip</td>
<td><img src="image" alt="Power Tip Icon" /></td>
<td>The Power Tip icon highlights faster, alternative procedures for advanced administrators already familiar with the techniques being discussed.</td>
</tr>
<tr>
<td>Troubleshooting</td>
<td><img src="image" alt="Troubleshooting Icon" /></td>
<td>The Troubleshooting icon highlights information that may help you solve a relevant problem or to refer you to other relevant troubleshooting resources.</td>
</tr>
<tr>
<td>Settings</td>
<td><img src="image" alt="Settings Icon" /></td>
<td>The Settings icon highlights settings you may need to choose for a specific behavior, to enable a specific feature, or to access customization options.</td>
</tr>
</tbody>
</table>
Typographic Conventions

A few typographic conventions, listed next, are used in Polycom guides to distinguish types of in-text information.

Typographic Conventions

<table>
<thead>
<tr>
<th>Convention</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bold</strong></td>
<td>Highlights interface items such as menus, menu selections, window and dialog names, soft keys, file names, and directory names when they are involved in a procedure or user action. Also used to highlight text to be entered or typed.</td>
</tr>
<tr>
<td><strong>Italics</strong></td>
<td>Used to emphasize text, to show example values or inputs (in this form: <code>&lt;example&gt;</code>), and to show titles of reference documents available from the Polycom Support Web site and other reference sites.</td>
</tr>
<tr>
<td><strong>Blue Text</strong></td>
<td>Used for cross references to other sections within this document and for hyperlinks to non-Polycom web sites and documents such as third-party web sites and documentation.</td>
</tr>
<tr>
<td><strong>Blue Text in italics</strong></td>
<td>Used for hyperlinks to Polycom resources outside of this document such as the Polycom Support web site, Polycom product web pages, or Polycom documentation.</td>
</tr>
<tr>
<td><strong>Courier</strong></td>
<td>Used for code fragments and parameter names.</td>
</tr>
</tbody>
</table>
Before You Begin

This guide covers the steps for using the Algo 8301 Paging Adapter to page existing amplifiers from Polycom VVX600 phone. Neither SIP registration nor SIP licensing will be required for this setup.

Polycom Group Page
Simultaneously page Polycom phones, Algo IP speakers, and legacy paging systems in this example for education.

Web Info: An Online Version of this Document is Available
Note that if you are reading this document in PDF format, an online version is available on the Polycom Technet web site.
Audience, Purpose, and Required Skills

Readers of this guide are assumed to have a basic understanding of legacy paging amplifier and the Polycom infrastructure. Users should have functional knowledge of the following third-party products:

- Algo 8301 Paging Adapter
- Legacy paging amplifier with speakers

Frequently Asked Questions

Refer to the frequently asked questions (FAQs) to help answer questions you may have about the solution before you begin.

Why do I need an Algo 8301 Paging Adapter?

The Algo 8301 Paging Adapter enables users to connect and page legacy paging amplifiers from a Polycom VVX600 phone.

Required Solution Hardware

The hardware needed for group paging is an Algo 8301 Paging Adapter, a Polycom VVX600 phone, and a paging amplifier with speakers.

Get Help

For more information about installing, configuring, and administering Polycom products, refer to Documents and Downloads at Polycom Support. For technical questions about the Algo 8301 Paging Adapter contact Algo support: at 604-454-3792 or support@algosolutions.com.

Polycom and Partner Resources

To find all Polycom partner solutions, see Strategic Global Partner Solutions.

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.
Setting up Group Paging

The primary Polycom Group Paging settings can be setup either directly on a Polycom phone or via the web. To setup the configurations on directly on the phone, refer to the Polycom’s *Broadcasting Audio Messages with Group Paging and Push-to-Talk* user guide. For detailed information on configuring Polycom phones online, refer to *Polycom Web Configuration Utility User Guide*. For further information about the Polycom VVX600 phone and other Group Paging settings, refer to *Polycom VVX 500 and Polycom VVX 600 Business Media Phones User Guide*.

The following section will give a quick outline of the Polycom Group Paging setup via the web interface.

**Configuring Polycom VVX600**

Once the IP address of the target VVX600 is known, the device configurations can be accessed via the web configuration utility.

1. To obtain the phone’s IP address, press the **Menu** button on the phone, then **Settings > Status > Platform > Phone**. Scroll down to view the IP address.
2. Enter the Polycom phone’s IP address in an empty browser, press **Enter**
3. Log into the interface, the default password is **456**.
4. In the drop-down menu, go to **Settings** and **Paging/PTT Configurations**.
5. On the **Paging/PTT Configuration**, in **Settings**, note the **Multicast IP Address** and **Port** number. The same Multicast IP address and port number will be used when configuring the 8301 Paging Adapter.

6. **Disable** the **Compatibility** settings. This is required in order for the Codec settings to be applied.

7. In **Group Paging Configuration**, make sure **Enable** is chosen in the **Group Paging Configuration**.

8. If you need specific group settings, in **Group Type** configuration area choose a **Group No.** and **Label** of choice for **Default Group**, **Priority Group**, and **Emergency Group**. The same Group No. settings should be used when configuring the 8301 Paging Adapter.

9. Set the **Codec** to be either G.711 or G.722.

10. Click **Save** at the bottom right corner of the page and click **yes** to save the settings.
Connecting the 8301 Paging Adapter

Front Panel: Connecting to the Network

Connect the 8301 to the network via an Ethernet cable at the front of the device. Ensure that a PoE port is used to provide power and that the 8301 is connected to the same subnet and VLAN as the VVX600 phone.

Back Panel: Connecting to the Amplifier

Using the provided audio cables, connect the 8301 to the amplifier via the XLR balanced audio cable, RCA cable, or screw input connector. A relay output terminal is also provided if required by an amplifier. The diagram below illustrates the sockets on the back panel of the 8301 device:
Configuring Algo 8301 Paging Adapter

Once the IP address of the target 8301 is known, the device can be configured from the web interface. The IP address can be found via the Algo Device Locator application.

1. To access the 8301 web interface, enter the device’s IP address in an empty browser and log in (the default password is alg0).
2. In the Basic Settings > Multicast tab, select Slave/Receive for the Multicast Mode, if you want the 8301 to listen to pages on the network.

Note: It is possible to use the 8301 in Master/Sender mode to originate voice pages to the Polycom phones, as opposed to being a receiving device. For this application, configure the 8301 with a SIP account in the Basic Settings > SIP tab (Page Extension field), and then place a phone call to the 8301. It will automatically answer and broadcast the audio to the Polycom phones (as well as any other Algo devices configured in Slave Mode). For configuration details, see Algo 8301 Paging Adapter & Scheduler User Guide.

3. For Multicast Type, select Polycom Group Page.
4. In the Polycom Zone field, enter the Multicast IP address of the Polycom VVX600 phone, followed by a colon and the port number. (The configuration settings must match those of the Polycom phone).
5. Make sure the Polycom Default, Priority, and Emergency Channel match those of the VVX600.
6. Click Save at the bottom right corner.
Setting 8301 Audio Delay

By default the Polycom phones have about 250 to 300 millisecond audio delay. To match the delay during a Polycom Group Page, the Algo devices can be configured via the web interface.

1. Click on the Advanced Settings and then Advanced Multicast tab.
2. In the Audio Sync field, enter a delay of around 300 milliseconds. The exact delay settings will require some testing, as the delay depends on the Polycom phone used and the overall setup.
3. Click Save at the bottom right corner.
Troubleshoot Issues

Use the following list as a guide to resolving issues, problems, or common difficulties you may encounter while deploying this solution.

**The speakers are not receiving a page.**
Double check that the Multicast settings in the web configurations are the same for the phone as well as the speakers.
Check that the **Compatibility** setting is disabled in the Polycom web interface, as the Codec settings will not work otherwise.

**There is a discrepancy in the sounds that come from the speakers.**
By default the Polycom phones have a 250 to 350 millisecond audio delay. The audio delay can be adjusted in the 8301 web configurations. Some delay testing (around 300 milliseconds) may be required.

**The 8301 does not power on.**
When connecting the Ethernet cable, make sure that a PoE port is used to provide power.
References

To setup the configurations on directly on the phone, refer to the Polycom's *Broadcasting Audio Messages with Group Paging and Push-to-Talk* user guide. For detailed information on configuring Polycom phones online, refer to *Polycom Web Configuration Utility User Guide*. For further information about the Polycom VVX600 phone and other Group Paging settings, refer to *Polycom VVX 500 and Polycom VVX 600 Business Media Phones User Guide*. 