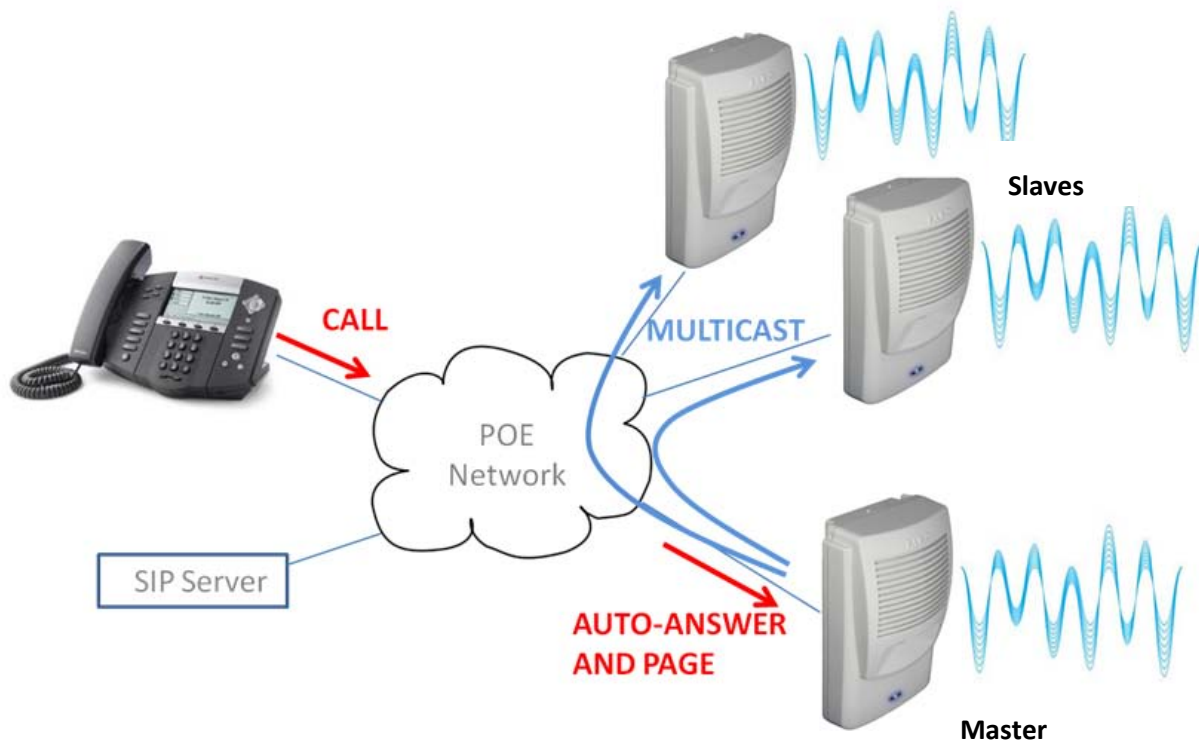


Key Product:	8180 SIP Audio Alerter
Application:	Voice Paging Multiple Locations using Multicast
Summary:	An 8180 can auto-answer and broadcast page audio through its internal speaker AND simultaneously multicast to other 8180 speakers on the network. This allows voice paging in multiple locations or to otherwise cover large areas. Only the auto-answering 8180 need be registered with the SIP server.



Overview

Each 8180 may be configured to broadcast or receive multicast audio. Multicasting must be enabled using the 8180 web interface (“Control Panel”).

If set to broadcast, the 8180 will send its page audio over the network to a multicast IP address instead of, or in addition to, the speaker. If set to receive multicast, the 8180 will watch for audio sent to the multicast IP address and play the audio over its speaker.





One use for multicasting is where SIP licenses are required for each endpoint. By having one 8180 multicast to others, only a single license is required.

To set up multicasting, first determine which 8180 you want to auto-answer, play, and transmit page audio. This will then be configured as the Master unit. Then set up one or more other 8180s to receive and play the page audio (called “Slaves”).

Requirements/Prerequisites

1. At least one 8180 that is registered with the SIP server and has a page extension set up and available to use.
2. One or more additional 8180s that are attached to the network (but not necessarily registered with the SIP server).
3. For setup, you’ll need to know your SIP Server Name (or IP address) as well as information related to the page extension referred to above: Extension name, Auth ID, and password. You should be able to get this information from whoever is administering your SIP Server.

Using the 8180 Control Panel

When an 8180 is connected to the PoE network it will automatically obtain an IP address during initialization. The IP address can be determined by pressing the Menu  key on the back of the 8180 until you hear the words “Device Information”. Then press the Select  key to have the 8180 speak the IP address.

1. Alternatively, you can search the network with the [Network Device Locator](#) tool which will list all Algo SIP devices it sees on the network, complete with IP addresses, Product Names, and Device Names.
2. Enter the 8180’s IP address in your internet browser to bring up the Control Panel. Note that the default password is “algo” (all lowercase and without quotation marks).



It's a good idea to provide descriptive Device Names for each 8180 that you have on a network. That will make them easy to locate and test later, particularly if you have a number of 8180s spread throughout a facility. You can do this in the Control Panel by using the Admin>Device Name field.

Configuring the Master 8180

1. Using the IP address of the 8180 that you want to use as your Master unit, open the Control Panel.
2. In the SIP tab, make sure that you have entered your information on the Page Audio Extension, as well as the address for the SIP Server (example below).

SIP configuration interface showing the following fields:

- SIP Domain/Proxy: XXX.XXX.XXX.XXX
- Outbound Proxy (optional):
- STUN Server (optional):
- Registrar (optional):
- Register Period (seconds): 3600
- Different Ports for Extensions: On Off
- Keep-alive Method: None Double CRLF
- Keep-alive Period (seconds): 30
- Ring Detect Extension: 1502
- Auth ID: VHL8012
- Password: [Masked]
- Page Audio Extension: 1503
- Auth ID: VHL8013
- Password: [Masked]

3. Test the page extension setup by clicking “Save Settings”, then dialling the extension above from any other phone on the system (note the calling phone does not need to be SIP). The 8180 should auto-answer, play a pre-announce tone, and allow you to talk over the speaker.
4. Under Config>Features, set the Multicast Mode to Master and leave Multicast Zone in the default setting (224.0.2.60:50000). Note that the 8180 will still auto-answer and page over its speaker as before. Enabling the master multicast feature does not in any way alter the other functionality of the 8180.

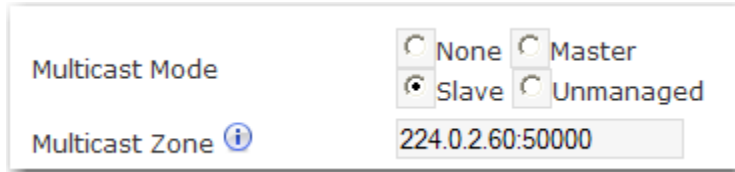
Multicast Mode configuration interface showing the following fields:

- Multicast Mode: None Master Slave Unmanaged
- Multicast Zone: 224.0.2.60:50000

5. Click “Save Settings” and close the web interface.

Configure Multicast Slave 8180s

1. Enter the IP address for each slave 8180 using your internet browser to bring up that device's Control Panel. Under Config>Features, set the Multicast Mode to Slave and leave Multicast Zone in the default setting (224.0.2.60:50000).



The screenshot shows a configuration panel with two rows. The first row is labeled 'Multicast Mode' and has four radio button options: 'None', 'Master', 'Slave', and 'Unmanaged'. The 'Slave' option is selected. The second row is labeled 'Multicast Zone' with an information icon and a text input field containing the value '224.0.2.60:50000'.

2. Click "Save Settings" and close the web interface.

Test

You should now be able to test the Multicast functionality by calling the SIP extension of the master 8180 and page over all 8180s (Master and Slaves) simultaneously.

For More Information

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