

*Regroup Configuration Guide: SIP Paging Server*

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**CyberData Corporation**  
3 Justin Court  
Monterey, CA 93940  
(831) 373-2601

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## Revision Information

7/29/2022 – Initial Release

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## 1.0 Supported CyberData Products

This section describes the products used for interoperability testing with Regroup notification platform.

**Table 1-1: Supported CyberData Products**

EQUIPMENT	MODEL or PART NUMBER	FIRMWARE VERSION
CYBERDATA SIP PAGING SERVER	011146	20.1.0 or later

## 2.0 Before You Start

### Phone System Advisory

Since Regroup is not a phone system but rather an Emergency Notification system the SIP Paging Server must be registered with a phone system. After registering the SIP Paging Server to the phone system of user's choice, it must be dialable from outside the main phone system. For example, if the paging server can only be called by extension number the solution will not work as described. For the solution outlined in the guide the SIP Paging Server is configured with a DID, which allows the Regroup system to dial the paging server directly.

### Product Documentation and Utilities

Before you start, download the Operation and Quick Start guides from the device's product webpage:

SIP Paging Server:

<https://www.cyberdata.net/collections/sip/products/011146>

Please follow the relevant documentation for configuring the SIP Paging Server on the platform of your choice. Configuration guides can be found on the CyberData website:

<https://www.cyberdata.net/pages/connecting-to-ip-pbx-servers>

The CyberData Discovery Utility can be used to locate CyberData devices on your network. You may download it from the following web address:

<https://www.cyberdata.net/pages/discovery>

**Note:** DHCP addressing mode is enabled on default on all noted firmware levels.

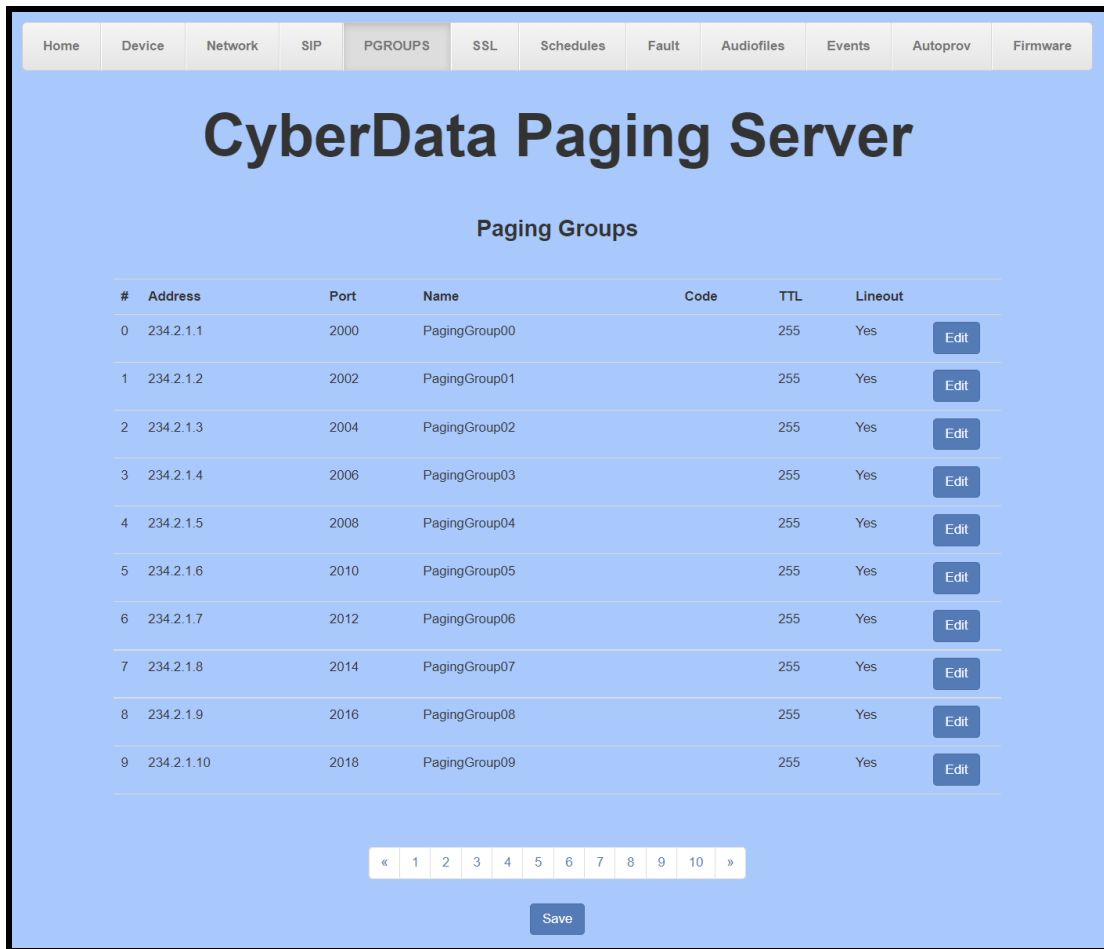
### 3.0 SIP Paging Server Multicast Configuration

#### 3.1 Setting up a PGroup.

Once the SIP Paging Server is registered with the platform, use the PGroups tab to configure the Paging Group.

1. After Logging into the Paging Server go to the **PGroups** Tab.
2. On the PGroups Tab press **edit** on the group to be configured, for the purpose of this document group 0 will be edited.

**Figure 6-1: PGroups Tab**



3. Adjust the Multicast Address if necessary.
4. Adjust the Multicast Port if necessary.
5. Name the PGroup.
6. If required set a security code for the group.

**Note:** Since this configuration is using a DID CyberData recommends using a security code for paging groups to prevent un-intended announcements or spam calls. A DTMF pattern must be entered on the Regroup system to navigate the PGroup Selection and the security code entry.

7. Press **OK** to finish editing.

**Figure 6-2:** Edit PGroup

The screenshot shows a 'Configure PGROUP' dialog box with the following fields and values:

PGROUP	0
Address	234.2.1.1
Port	2000
Name	Regroup Messages
Security Code	***
TTL	255
Line-out	<input checked="" type="checkbox"/>
Play Stored Message	<input type="checkbox"/>
Audio File	▼
Times to Play	1

Buttons at the bottom right: Toggle Help, Cancel, Ok

8. Save the changes.



### 3.2 Setting up the Receiving devices

CyberData devices support multicast that works in a priority system, where a higher priority will always supersede a lower priority. For example, a multicast page to priority 4 would play over a background music stream at priority 0. SIP Calls are treated as priority 4.5.

Most CyberData products have two settings that can be enabled with each Multicast Priority: **Buffer** and **Beep**. When **Buffer** is enabled it will have the device record the multicast stream and play the recording once the multicast audio has stopped. This is used to prevent a feedback look from the speaker. **Beep** will play a pre-page tone when a multicast stream is received at the address and port combination when a message is received.

CyberData devices also have an Emergency Multicast Priority, priority 9, which will always play at max volume regardless of setting, by design.

Figure 5-1: Multicast Tab

Home Device Network SIP SSL Multicast Audiofiles Events Autoprov Firmware

# CyberData VoIP Speaker

## Multicast Settings

Enable Multicast Operation:

Priority	Address	Port	Name	Buffer	Beep
0	239.168.3.1	2000	Background Music	<input type="checkbox"/>	<input type="checkbox"/>
1	239.168.3.2	3000	MG1	<input type="checkbox"/>	<input type="checkbox"/>
2	239.168.3.3	4000	MG2	<input type="checkbox"/>	<input type="checkbox"/>
3	239.168.3.4	5000	MG3	<input type="checkbox"/>	<input type="checkbox"/>
4	234.2.1.1	2000	Regroup Messages	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5	239.168.3.6	7000	MG5	<input type="checkbox"/>	<input type="checkbox"/>
6	239.168.3.7	8000	MG6	<input type="checkbox"/>	<input type="checkbox"/>
7	239.168.3.8	9000	MG7	<input type="checkbox"/>	<input type="checkbox"/>
8	239.168.3.9	10000	MG8	<input type="checkbox"/>	<input type="checkbox"/>
9	239.168.3.10	11000	Emergency	<input type="checkbox"/>	<input type="checkbox"/>

Polycom Default Channel: 1  
 Polycom Priority Channel: 24  
 Polycom Emergency Channel: 25

*SIP calls are considered priority 4.5*  
*Port range can be from 2000-65535*  
*Priority 9 is the highest and 0 is the lowest*  
*A higher priority audio stream will always supersede a lower one*  
*Priority 9 streams will play at maximum volume*

Save Reboot

### **3.3 Regroup Setup**

With the SIP Paging Server and receiving devices configured to send and receive multicast respectively the final adjustments need to be made to the Regroup platform.

1. Setup the DID for the SIP Paging Server as a number to be dialed from an event in the Regroup system.
2. Set the group to play a pre-recorded message or use text to speech and set the desired message.
3. Configure the group to dial the number and enter a DTMF pattern once the call has been received. For the example configuration, after dialing the SIP Paging Server the Regroup system must dial 00,123. Where "00" is the PGroup and "123" is the security code for the page group.
4. Save all changes.
5. Run a test to ensure the call is received and the audio is played via multicast.
6. Adjust volume on receiving devices as necessary.

## 4.0 Contact CyberData Corporation

### Sales

For sales-related questions, please visit our [Contact CyberData Sales](#) web page for more information.

### Technical Support

For CyberData Technical Support, please submit a [Contact CyberData VoIP Technical Support](#) form on our website.

The CyberData VoIP Technical Support Contact form initiates a troubleshooting ticket which CyberData uses for quality assurance purposes.

Additionally, the Contact VoIP Tech Support form tells us which phone system you are using, the make and model of the network switch, and other essential troubleshooting information we need to efficiently assist with a resolution. Please also include as much detail as possible in the Describe Problem section of the form. Your installation is extremely important to us.

### Documentation Feedback

We realize changes to the software or hardware of the solution may render this document obsolete. We welcome and encourage documentation feedback to ensure continued applicability.