



# *CyberData Paging Server Configuration Guide for TalkSwitch*

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# Setup Procedure

This guide outlines the basic configuration required to place pages between a TalkSwitch and a CyberData Paging Server device. In order to configure the CyberData paging server, you must first have an available IP extension that is enabled and configured with a phone type of Other. See the TalkSwitch Configuration Guide for directions on setting up an IP extension.

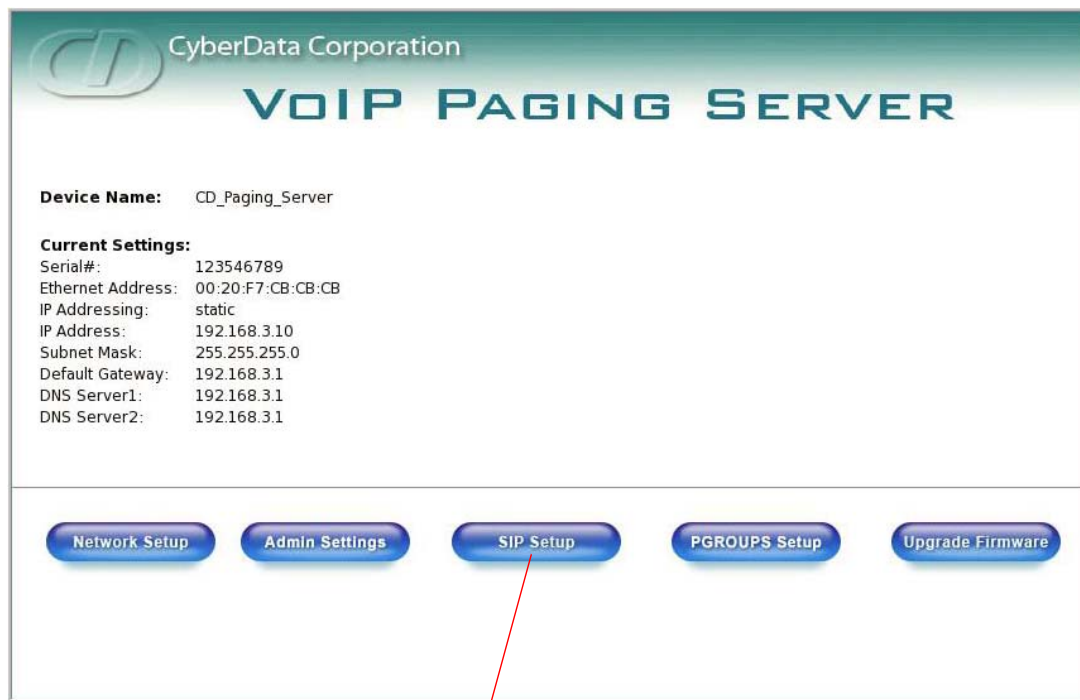
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## Configuring Paging Server as a Local SIP Extension

The Paging Server can be set up to connect to the TalkSwitch as a IP extension. In the TalkSwitch Management software, configure the extension as an IP extension and the phone type as Other. Open a web browser and enter the IP address of the paging server. For username, enter in admin, and for the password, enter admin.

1. On the **Home** page, click on the **SIP Setup** button.

**Figure 4-1. CyberData Configuration Home Page**



SIP Setup

2. On the **SIP Setup** page (Figure 5), enter the information from Table 1 , and then click **Save Settings**. The server will reboot when done.

**Table 1. SIP Configuration Parameters**

Web Page Item	Description
SIP Server	<b>SIP Server</b> is the Private IP Address of TalkSwitch.
SIP User ID	<b>SIP User ID</b> is the extension number configured in TalkSwitch.
Authenticate ID	<b>Authenticate ID</b> is the Username field within the TalkSwitch software.
Authenticate Password	<b>Authenticate Password</b> is the Password field within the TalkSwitch software.

**Figure 5. CyberData SIP Setup Page**

**SIP Setup**

SIP Server : 192.168.1.200 \*

Remote SIP Port: 5060 \*

Local SIP Port: 5060 \*

SIP User ID: 158 \*

Authenticate ID: user158 \*

Authenticate Password: pass158 \*

SIP Registration:  Yes  No \*

Unregister on Reboot:  Yes  No \*

Register Expiration (minutes): 60 \*

*\* changing this parameter causes system reboot when saved*

**Save Settings**

Save Settings

3. Click **PGroups Setup** at the bottom of the **Home** page. Activate each paging zone that you wish to use by doing the following:
  - Check the **Enable** box.
  - Specify a unique IP address in the **Multicast IP Address** box
  - Specify a unique port in the **Port 2000-65535** box.
  - As an option, you can type a name for the zones in the **PGROUP Name** box.

**Figure 6. CyberData PGROUPS Setup Page**

## PGROUPS Setup

Device Name: CD\_Paging\_Server

Multicast TTL:

Bypass DTMF:

*Bypassing DTMF will cause the paging server to forward to PG00 after answering a call.*

	Enable	Multicast IP Address	Port: 2000-65535	PGROUP Name
00	<input checked="" type="checkbox"/>	<input type="text" value="224.224.224.224"/>	<input type="text" value="9876"/>	<input type="text" value="Zone 00"/>
01	<input checked="" type="checkbox"/>	<input type="text" value="224.224.224.225"/>	<input type="text" value="9877"/>	<input type="text" value="Zone 01"/>
02	<input checked="" type="checkbox"/>	<input type="text" value="224.224.224.226"/>	<input type="text" value="9878"/>	<input type="text" value="Zone 02"/>
03	<input type="checkbox"/>	<input type="text" value="224.224.224.224"/>	<input type="text" value="9876"/>	<input type="text" value="Zone 03"/>
04	<input type="checkbox"/>	<input type="text" value="224.224.224.224"/>	<input type="text" value="9876"/>	<input type="text" value="Zone 04"/>
05	<input type="checkbox"/>	<input type="text" value="224.224.224.224"/>	<input type="text" value="9876"/>	<input type="text" value="Zone 05"/>
06	<input type="checkbox"/>	<input type="text" value="224.224.224.224"/>	<input type="text" value="9876"/>	<input type="text" value="Zone 06"/>
07	<input type="checkbox"/>	<input type="text" value="224.224.224.224"/>	<input type="text" value="9876"/>	<input type="text" value="Zone 07"/>
08	<input type="checkbox"/>	<input type="text" value="224.224.224.224"/>	<input type="text" value="9876"/>	<input type="text" value="Zone 08"/>
09	<input type="checkbox"/>	<input type="text" value="224.224.224.224"/>	<input type="text" value="9876"/>	<input type="text" value="Zone 09"/>

Enable box
Multicast IP Address box
Port 2000-65535 box
PGROUP Name box

**Note** If using multiple zones when making a page, you will be required to enter a zone when calling the server. The group names can be such as front lobby, warehouse, where you may have pages out to particular speakers only.

4. Click **Save Settings**, and then click **Reboot**.

## Configuring the CyberData Speaker

1. Open a web browser and enter the IP address of the paging speaker.
2. For the **username** box, enter **admin**, and for the **password** box, enter **admin**.
3. On the **Home** page, click the **Multicast Config** button.
4. Check the **Enable Multicast operation** box, and then enter the **Address** and **port** information for each multicast group that you want the speaker to be a part of.

**Note** The addresses and ports are the values configured on the paging server. If you are creating zones, only enter the addresses that you want the speaker to place audio for, such as **front lobby**, versus **warehouse**.

3. Click **Save**, and then click **Reboot** for the changes to take effect.

**Figure 7. CyberData Multicast Configuration Page**

### Multicast Configuration

Enable Multicast operation:

Device Settings

priority	Address	port	Multicast Group Name
9	239.168.3.10	11000	Emergency
8	224.224.224.224	9876	MG8
7	224.224.224.225	9877	MG7
6	239.168.3.7	8000	MG6
5	239.168.3.6	7000	MG5
SIP calls are considered priority 4.5			
4	239.168.3.5	6000	MG4
3	239.168.3.4	5000	MG3
2	239.168.3.3	4000	MG2
1	239.168.3.2	3000	MG1
0	239.168.3.1	2000	Background Music

*Port range can be from 2000-65535*

*Priority 9 is the highest and 0 is the lowest*

*A higher priority audio stream will always supercede a lower one*

*Priority 9 streams will play at maximum volume*