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## CyberData SIP Intercom Integration with Zultys MX – Serial Numbers starting 2140

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This document covers the integration of CyberData's SIP Intercom with the Zultys MX. This document was written for MX Version 11.0 and the following CyberData Products

- 011214a v3 intercom w/keypad poe V9.3.0
- Serial Numbers starting with 2140

All support and supporting documentation for CyberData should be obtained from CyberData itself. This document assumes the reader is at least a Zultys Certified Systems Expert (ZCSE), and is familiar with creating Users and Devices in general. This document also assumes the reader is familiar with setting up CyberData equipment and/or has access to the Manuals for the CyberData equipment, as several sections are left out of this manual such as setting up the network configuration of the CyberData Equipment and pin outs for relay usage.

For more information on the integration process see integration section.

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## 2 Integration

CyberData SIP Intercom can be integrated with the Zultys MX, as a “Generic SIP Device” to provide an intercom door box service including relay functions for door strikes/locks.

Zultys highly recommends using the speed dial functions of the CyberData SIP Intercom for placing the intercom calls inside the building, vs. allowing the party to dial direct extensions. This could leave an opening for toll fraud, unless proper toll restrictions are implemented.

This document will concentrate on using the speed dial integration method.

### 3 Creating a Generic SIP Device on the MX for night ring capabilities

If using the night ring capabilities of the SIP Intercom, a generic SIP device and a user is required to be created on the MX. For basic operation a Generic SIP device is created on the MX and assigned to a user. The CyberData equipment will register as this Generic SIP Device, this device is then invited by the MX when the extension is rang triggering the night ring capabilities of the CyberData equipment. If not using the Night Ring capabilities of the CyberData equipment this section can be skipped.

To answer the night ring call, press the “call” button on the device.

#### 3.1 Create Generic SIP Profile

In order to create a Generic SIP Device, it is recommended to create a unique Generic SIP Device Profile to control the codecs, functions and number of lines used by CyberData Equipment, this device profile should be the same profile used with the paging device.

Make sure that the following options are selected.

**Sends SIP Register:**  
Checked.

**Supports SIP based configuration:** Checked.

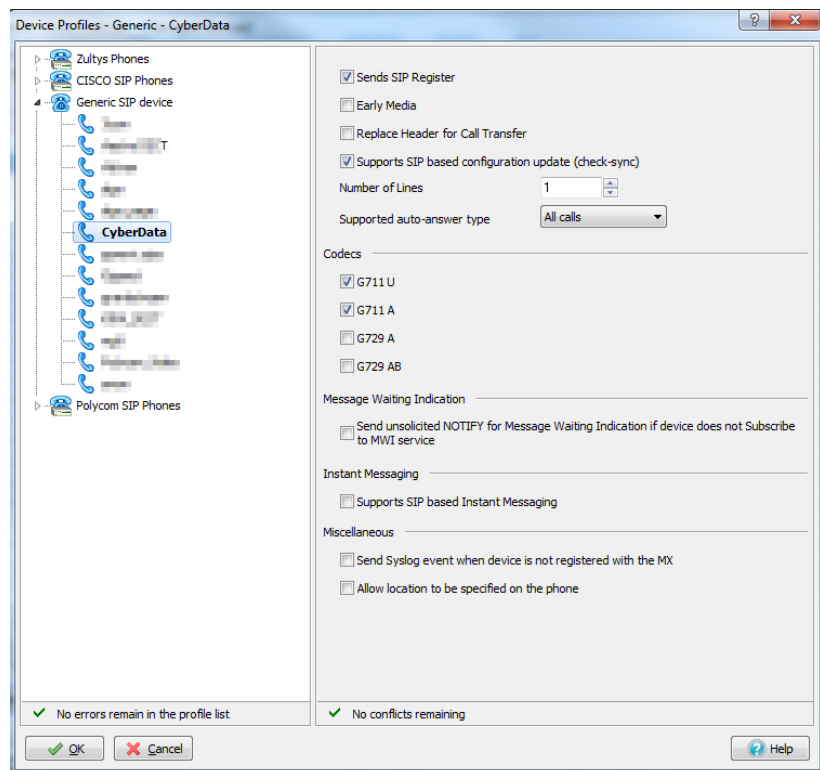
**Number of Lines:** 1.

**Supported auto-answer type:** All Calls.

**Codecs:** G711U and G711A.

**Send unsolicited NOTIFY for messages:**  
Unchecked.

**Send Syslog event when device is not registered..:** This is an optional selection that is recommended to allow the MX to generate a syslog notification if the device is off line



The remaining options are unchecked.

### 3.2 Create Generic SIP Device

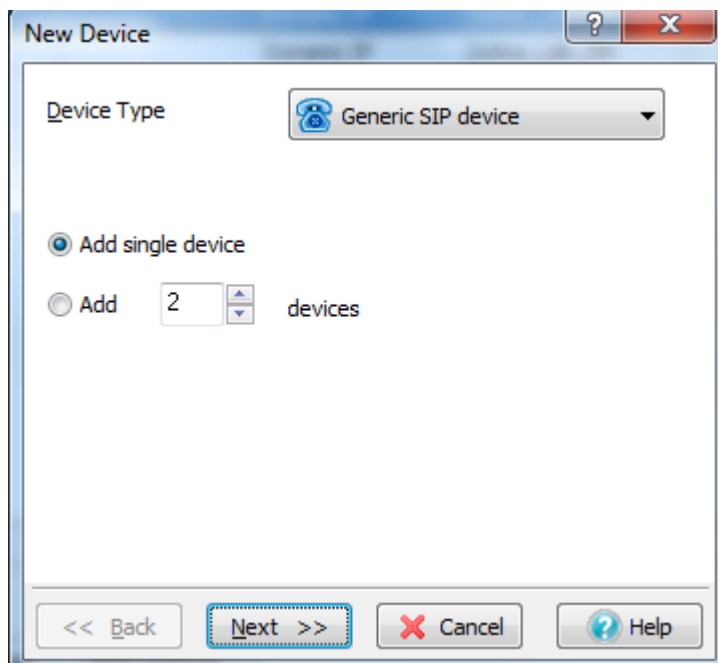
Create a generic SIP device on the MX for the MX to integrate with CyberData Equipment. The CyberData equipment will register with the MX using this Generic SIP Device.

Make sure that the following options are selected.

**Device Type:** Generic SIP device.

**Add Single Device:** Selected.

Click *Next* to proceed to the next screen.



The screenshot shows a 'New Device' window with the following configuration:

- Device Type:** A dropdown menu showing 'Generic SIP device' with a telephone icon.
- Add single device:** A radio button that is selected.
- Add:** A radio button that is unselected, followed by a text box containing the number '2' and the word 'devices'.
- Navigation:** At the bottom, there are four buttons: '<< Back', 'Next >>' (which is highlighted with a dashed border), 'Cancel', and 'Help'.

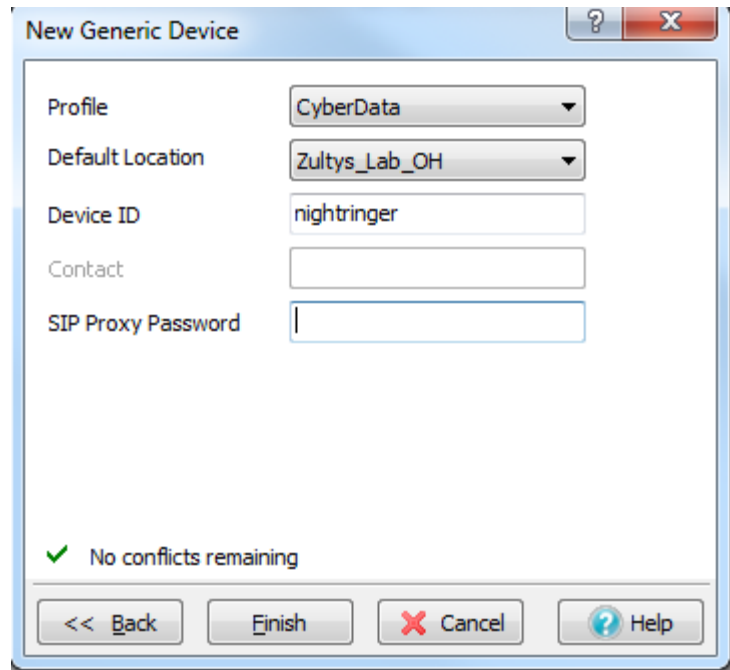
**Profile:** Select the Generic SIP Device Profile created in section 3.1.

**Default Location:** Select the proper location from the drop-down.

**Device ID:** Type the ID to register CyberData Equipment Ringing extension.

**Contact:** Not used.

**SIP Proxy Password:** Type the password if required.



### 3.3 Create User and Assign User to the Device

After creating the device that will interface with CyberData Equipment, create a user and assign the user to this device. This document assumes the reader is a ZCSE trained and a certified technician. Since this process is covered by ZCSE training, it is considered to be outside the scope of this document.

## 4 Creating a Generic SIP Device on the MX for intercom capabilities

When using the CyberData SIP Intercom for intercom/door box capabilities, Zultys recommends creating a Generic SIP Device and a user for the CyberData equipment. Only a single device and User is required for intercom/door box purposes only, the Night Ringer will require its own user and device. The intercom/door box features of the CyberData Equipment interfaces with the MX system through a preconfigured MX user.

### 4.1 Create Generic SIP Profile

In order to create a Generic SIP Device, it is recommended to create a unique Generic SIP Device Profile to control the codecs, functions and number of lines used by CyberData Equipment, this device profile should be the same profile used with the night ring device.

Make sure that the following options are selected.

**Sends SIP Register:**  
Checked.

**Supports SIP based configuration:** Checked.

**Number of Lines:** 1.

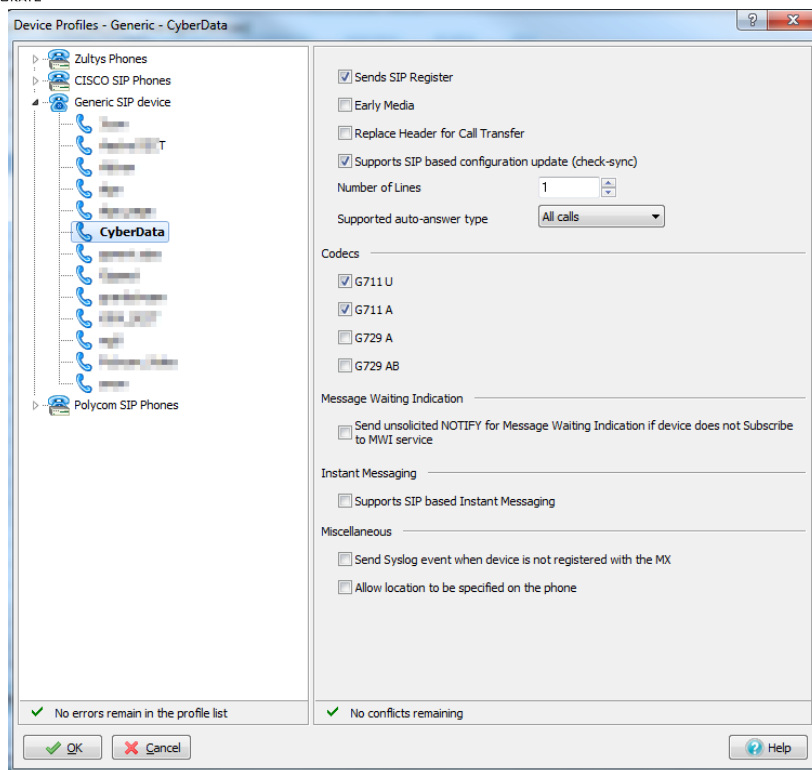
**Supported auto-answer type:** All Calls.

**Codecs:** G711U and G711A.

**Send unsolicited NOTIFY for messages:**  
Checked.

**Send Syslog event when device is not registered...:** This is an optional selection that is recommended to allow the MX to generate a syslog notification if the device is off line

The remaining options are unchecked.



## 4.2 Create Generic SIP Device

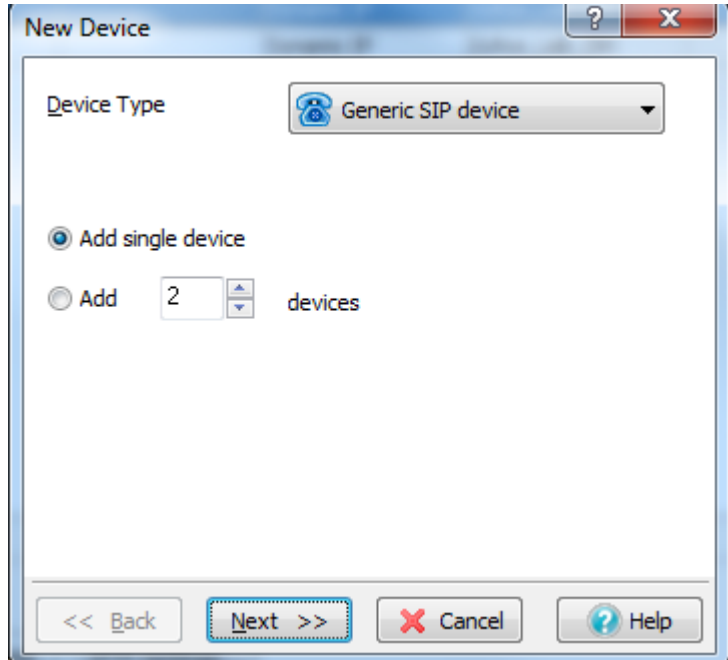
Create a generic SIP device on the MX for the MX to integrate with CyberData Equipment.

Make sure that the following options are selected.

**Device Type:** Generic SIP device.

**Add Single Device:** Selected.

Click *Next* to proceed to the next screen.



**New Device**

Device Type: Generic SIP device

☒ Add single device

☐ Add 2 devices

<< Back Next >> Cancel Help

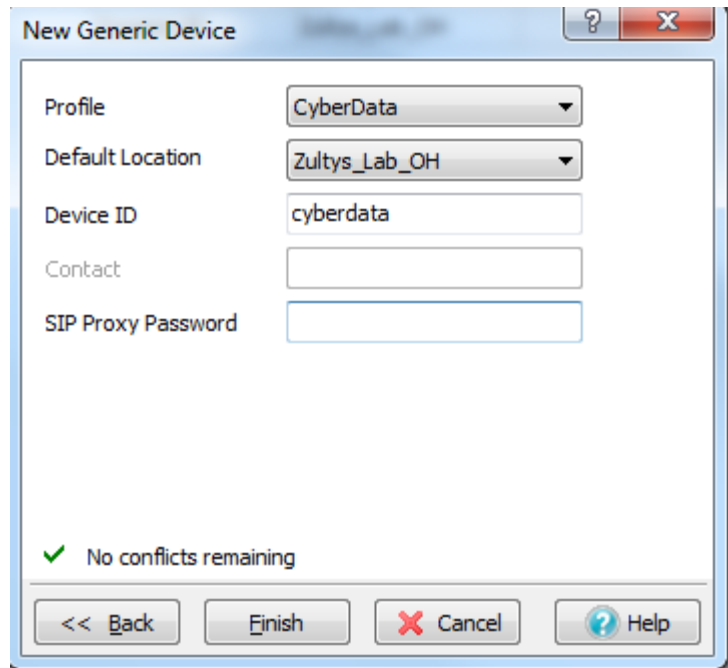
**Profile:** Select the Generic SIP Device Profile created in section 4.1.

**Default Location:** Select the proper location from the drop-down.

**Device ID:** Type the ID to register CyberData intercom extension.

**Contact:** Not used.

**SIP Proxy Password:** Type the password if required.



**New Generic Device**

Profile: CyberData

Default Location: Zultys\_Lab\_OH

Device ID: cyberdata

Contact:

SIP Proxy Password:

✓ No conflicts remaining

<< Back Finish Cancel Help

### 4.3 Create User and Assign User to the Device

After creating the device that will interface with CyberData Equipment, create a user and assign the user to this device. This document assumes the reader is a ZCSE trained and a certified technician. Since this process is covered by ZCSE training, it is

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considered to be outside the scope of this document. Note that you need to create and assign a paging profile to the user if they will be using SIP paging.

## **5 MX User Configuration**

This section covers the basics of the creation of a MX User account to be used for the door box integration. A user is required in most cases, especially if you plan on being able to call the device, or if you implement any toll restriction at all in the MX.

Zultys recommends creating a new user profile that has most if not all features and functions disabled, most importantly Voce Mail, can return calls from voicemail, and register unmanaged accounts. MXIE should also be disabled. These recommendations are made to protect against toll fraud from this account.

This document assumes the reader is a Zultys Certified Systems Expert (ZCSE), and is familiar with creating Users and user profiles in general, so the details are not included in this document for creating users and user profiles.

## **6 CyberData SIP Intercom Setup**

When deploying the CyberData SIP Intercom it is recommended to use DHCP. CyberData provides a "Discovery Utility" that can be downloaded from their website ([http://www.cyberdata.net/support/voip/discovery\\_utility.html](http://www.cyberdata.net/support/voip/discovery_utility.html)) to initially discover the IP address of the SIP Intercom, once configured to register with the Zultys MX, the IP address can be found using the MX's device status screen in the MXAdministrator UI. Using the CyberData Discovery Utility to obtain the current IP address of the CyberData equipment login using a web browser using the default username of "**admin**" and the default of "**admin**". For more information on using the discovery utility and basic setup of the CyberData equipment, please refer to the operating manuals from CyberData.

### **6.1 Home Screen**

After logging into the CyberData SIP Intercom using your favorite browser you are immediately taken to the Home Screen which will display the following information



On the Left side you will find your navigation options,

**Device Name:** Shows the device name (25 character limit). If using multiple paging servers, please provide a unique name for each server.

**Change Username:** Type in this field to change the username (25 character limit).

- Default: **admin**

**Change Password:** Type in this field to change the password (19 character limit).

- Default: **admin**

**Re-enter Password:** Type the password again in this field to confirm the new password (19 character limit).


### Current Settings:

Provides you with the current IP addressing of the device, Mac address and serial number.

The home screen will also show the current registration status, and features enabled on the CyberData SIP Intercom.

### Import/Export Settings

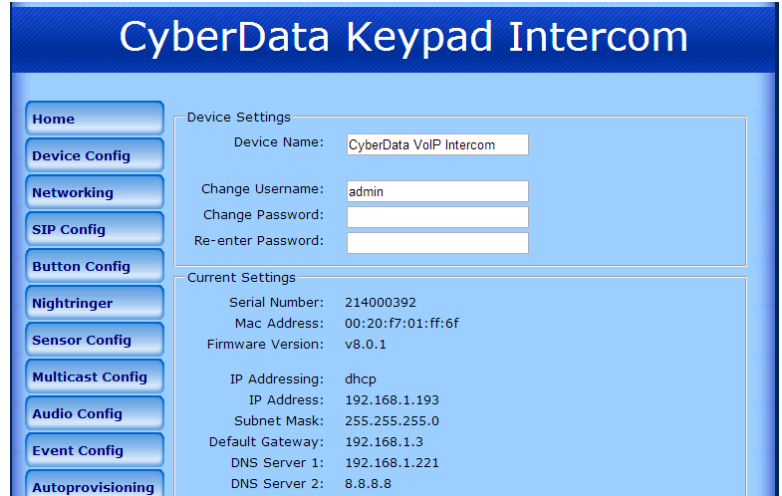
Allows for Importing and Exporting settings of the CyberData Intercom

 Click on the Save button to save your configuration settings.



**Note:** You need to reboot for changes to take effect.

 Click on the Reboot button to reboot the system.



**CyberData Keypad Intercom**

**Device Settings**

Device Name:

Change Username:

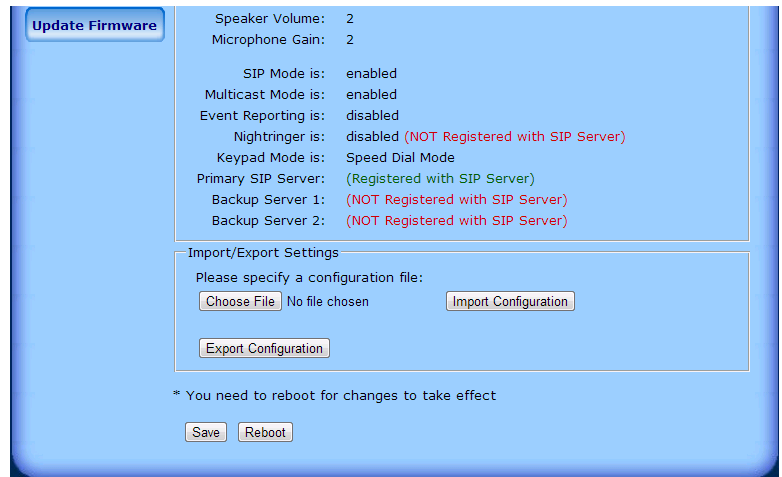
Change Password:

Re-enter Password:

**Current Settings**

Serial Number: 214000392  
 Mac Address: 00:20:f7:01:ff:6f  
 Firmware Version: v8.0.1

IP Addressing: dhcp  
 IP Address: 192.168.1.193  
 Subnet Mask: 255.255.255.0  
 Default Gateway: 192.168.1.3  
 DNS Server 1: 192.168.1.221  
 DNS Server 2: 8.8.8.8



**Update Firmware**

Speaker Volume: 2  
 Microphone Gain: 2

SIP Mode is: enabled  
 Multicast Mode is: enabled  
 Event Reporting is: disabled  
 Nightringer is: disabled (NOT Registered with SIP Server)  
 Keypad Mode is: Speed Dial Mode  
 Primary SIP Server: (Registered with SIP Server)  
 Backup Server 1: (NOT Registered with SIP Server)  
 Backup Server 2: (NOT Registered with SIP Server)

**Import/Export Settings**

Please specify a configuration file:

No file chosen

\* You need to reboot for changes to take effect

## 6.2 Device Configuration

On the device configuration screen you can configure several default options for the CyberData Intercom, and perform basic operation tests.

### Speaker Volume: 2

This will depend on your environment

### Microphone Gain: 2

This will depend on your environment

**Activate Relay with DTMF code:** Relay can be activated via DTMF Code when checked

**DTMF Activation Code:** Code used to activate relay

**DTMF Activation Duration (in seconds):** Duration the relay is activated after the proper code is entered. 0-99 seconds. If 0 is entered the relay is indefinitely activated until the DTMF code is entered a second time.

**Activate Relay During Ring:** When enabled the relay is activated while the device is ringing. If Auto answer is enabled, this feature is disabled.

**Activate Relay While Call Active:** When enabled the relay is activated for the duration of the call automatically.

**Activate Relay on Button Press:** When enabled, the relay is activated for the duration specified in "Relay on Button Press Timeout" when the call button is pressed.

**Relay on Button Press Timeout (in seconds):** Duration the relay is activated after the call button is pressed 1-9 seconds

**Auto-Answer Incoming Calls:** When enabled, the intercom will auto answer all incoming calls

Device Configuration

Volume Settings

Speaker Volume: 2
Microphone Gain: 2

Relay Settings

Activate Relay with DTMF code: ☐
DTMF Activation Code: 321
DTMF Activation Duration (in seconds): 2

Activate Relay During Ring: ☐
Activate Relay During Night Ring: ☐
Activate Relay While Call Active: ☐

Activate Relay on Button Press: ☐
Relay on Button Press Timeout (in seconds): 3

Miscellaneous Settings

Auto-Answer Incoming Calls: ☒
Button Lit when Idle: ☒
Turn on keypad backlight: ☐
Play Ringback Tone: ☒

\* You need to reboot for changes to take effect

Save Reboot
Test Audio Test Microphone Test Relay Start Button Test

**Button Lit when Idle:** When enabled, the call button is lit when there is no active call.

**Turn on Keypad backlight:** When enabled, the keypad is backlit.

**Play Ringback Tone:** When enabled ringback tone is heard when making a call.

**Save** Click on the Save button to save your configuration settings.



**Note:** You need to reboot for changes to take effect.

**Test Audio** When the Test Audio button is pressed, you will hear a voice message for testing the device audio quality and volume.

**Test Microphone** When the Test microphone button is pressed, the Intercom will record 3 seconds of audio, then beep to indicate the end of recording, and play back the recording.

**Start Button Test** When pressed, the button text will change to Stop Button Test and in this mode, pressing the button will play test audio. Also, pressing this button puts the device into a mode where it will play audio as the buttons are pressed.

For buttons 0 through 9 it will play the audio file for that number. For buttons \*, #, and the Call Button, it will play the appropriate DTMF tones.

**Test Relay** Click on the Test Relay button to do a relay test.

**Reboot** Click on the Reboot button to reboot the system.

### 6.3 SIP Configuration

SIP configuration screen is used to configure the SIP registration parameters used by the CyberData SIP Page Server to register with the MX for paging purposes. The SIP User ID and Authentication ID are the same values which is the Device ID created in the

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MX in section 6 and assigned to the user created in section 6. Authentication Password is only used if a SIP Proxy Password is required by the Generic SIP Device created in the MX.

If using MXNetwork with Redundancy it is suggested to add the redundant node to the backup SIP server of the CyberData Paging Server, this way in a failover situation the paging equipment will continue to function with no intervention.

The IP addresses and Port Numbers used in this document are example IP and port number, you may select the appropriate multicast IP address range and ports for your deployment.

**Enable SIP Operation:** Checked

**SIP Server:** IP or FQDN of the MX

**Backup SIP Server 1:** Only Used if using MXNetwork with failover, then will be the IP address or FQDN of the failover node. Will dual register with the MXNetwork Node

**Backup SIP Server 2:** Not Used

**Use Cisco SRST:** Unchecked

**Remote SIP Port:** 5060

**Local SIP Port:** 5060

**Outbound Proxy:** must be left blank

**Outbound Proxy Port:** 0

**SIP User ID:** the Device ID created on the MX in Section 4

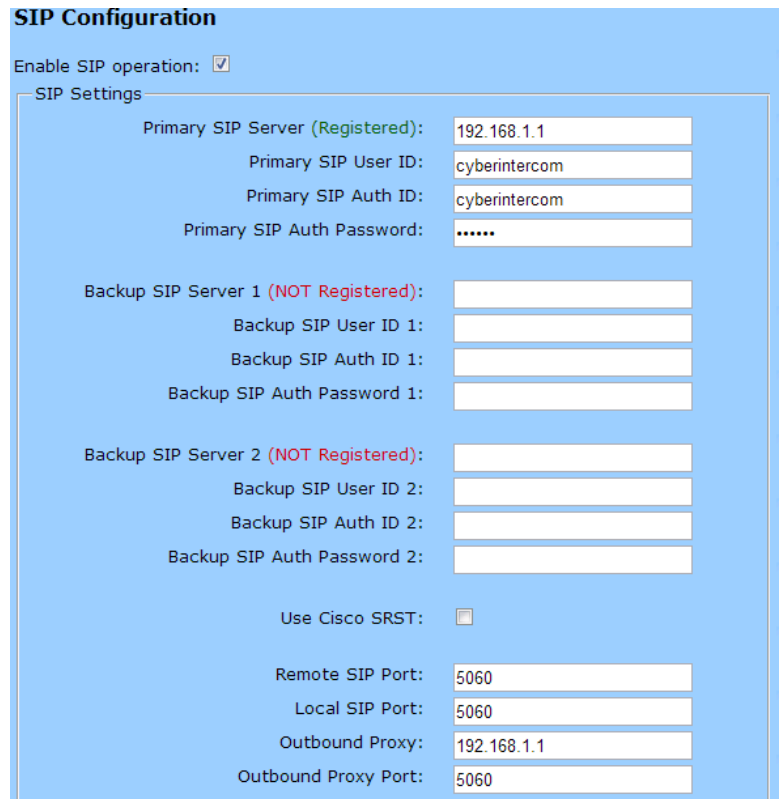
**Authentication ID:** Same as User ID

**Authentication Password:** the SIP Proxy Password for the Device ID created in section 4 (if required)

**Register with a SIP Server:** Checked

**Re-registration Interval:** 3600

**Terminate call after delay (in seconds):**  
Type the desired number of seconds that you want to last before a call is terminated.



**SIP Configuration**

Enable SIP operation: ☒

**SIP Settings**

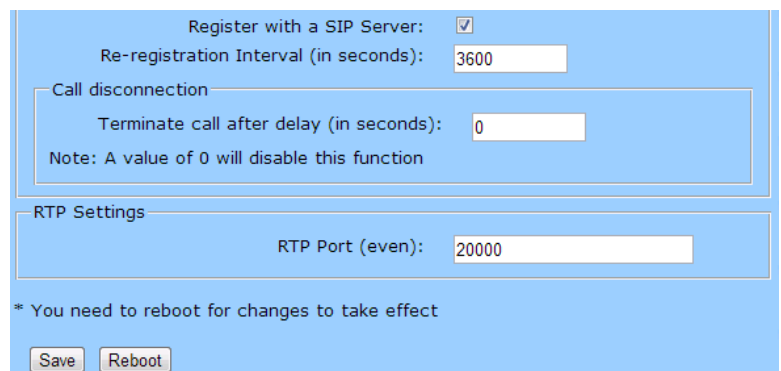
Primary SIP Server (**Registered**): 192.168.1.1  
 Primary SIP User ID: cyberintercom  
 Primary SIP Auth ID: cyberintercom  
 Primary SIP Auth Password: .....

Backup SIP Server 1 (**NOT Registered**):  
 Backup SIP User ID 1:  
 Backup SIP Auth ID 1:  
 Backup SIP Auth Password 1:

Backup SIP Server 2 (**NOT Registered**):  
 Backup SIP User ID 2:  
 Backup SIP Auth ID 2:  
 Backup SIP Auth Password 2:

Use Cisco SRST: ☐

Remote SIP Port: 5060  
 Local SIP Port: 5060  
 Outbound Proxy: 192.168.1.1  
 Outbound Proxy Port: 5060



Register with a SIP Server: ☒  
 Re-registration Interval (in seconds): 3600

**Call disconnection**  
 Terminate call after delay (in seconds): 0  
 Note: A value of 0 will disable this function

**RTP Settings**  
 RTP Port (even): 20000

\* You need to reboot for changes to take effect

Save Reboot

Note: A value of 0 will disable this function

**RTP Port (even):** 20000

## 6.4 Button Configuration

Button configuration screen is used to configure what happens when the buttons (the Call Button or keys on the key pad) are pressed.

**Enable Telephone Operation:** Select Enable Telephone Operation to put the Intercom into Telephone Dial Mode. In Telephone Dial Mode, the Intercom will operate like a telephone:

- To make a call in this mode, press the Call Button to go 'off-hook'. The unit will begin playing a dial tone and will wait for keypad input.
- Dial the extension you want to reach and wait.
- Pressing the Call Button at any time in this process will hang up the call (put it back 'on-hook').
- During a call, you can use the keypad to send DTMF tones to the remote extension

**Enable Cellphone Operation:** Select Enable Cellphone Operation to put the Intercom into Cellphone Dial Mode. In Cellphone Dial Mode, the Intercom will operate like a cellular phone:

- This mode is similar to the telephone operation but you dial in an extension differently.
- To make a call in this mode, dial the extension and then press the call button to 'send' or initiate the call.

Telephone Dial Mode

Enable Telephone Operation: ☐

Cellphone Dial Mode

Enable Cellphone Operation: ☐

Speed Dial Mode

Enable Speed Dial: ☒

Speed Dial Timeout (in seconds):

Keypad 1:	<input type="text" value="5316"/>	ID: <input type="text" value="5069"/>
Keypad 2:	<input type="text" value="5417"/>	ID: <input type="text" value="5069"/>
Keypad 3:	<input type="text"/>	ID: <input type="text" value="5069"/>
Keypad 4:	<input type="text"/>	ID: <input type="text" value="5069"/>
Keypad 5:	<input type="text"/>	ID: <input type="text" value="5069"/>
Keypad 6:	<input type="text"/>	ID: <input type="text" value="5069"/>
Keypad 7:	<input type="text"/>	ID: <input type="text" value="5069"/>
Keypad 8:	<input type="text"/>	ID: <input type="text" value="5069"/>
Keypad 9:	<input type="text"/>	ID: <input type="text" value="5069"/>
Keypad 0:	<input type="text"/>	ID: <input type="text" value="5069"/>
Keypad *:	<input type="text"/>	ID: <input type="text" value="5069"/>
Keypad #:	<input type="text"/>	ID: <input type="text" value="5069"/>
Call Button:	<input type="text" value="5043"/>	ID: <input type="text" value="5069"/>

- Pressing the call button at any time in this process will hang up the call (put it back 'on-hook').
- During a call you can use the keypad to send DTMF tones to the remote extension

**Enable Speed Dial:** Select Enable Speed Dial to put the Intercom into Speed Dial Mode. In this mode the user sets up extensions to dial when a button is pressed.

**Speed Dial Timeout (in seconds):** The Speed Dial Timeout (in seconds) setting is the number of seconds you need to hold the button before it will place a call. If this value is 0, it will place a call as soon as the button is released.

**Keypad (0-9, \*, #):** Number to be called when this button is pressed (max of 64 characters)

**Call Button:** Number to be called when this button is pressed (max of 64 characters)

**ID:** Enter the Extension number associated with the Intercom User (64 character limit)

**Enable Security Keypad Operation:** Select Enable Security Keypad Operation to put the Intercom into Security Dial Mode. In Security Dial Mode, the Intercom will act like a normal, one-button Intercom by calling the extension specified in the Call Button field.

When a security code is entered on the keypad that matches one of the seven-digit fields specified on the page, the relay will be activated.

- This mode is meant for installation with security doors. In Security Dial Mode, the Intercom will act like a normal, one-button Intercom by calling the extension specified in the Call Button field.

- Up to 10 (7-digit maximum) security codes can be registered with the device. Enter a security code by pressing the # key before entering the code. When one of these codes is typed on the keypad, it will activate the relay for the Relay Activation Timeout (in seconds) setting.

- It is possible to enter a security code both inside and out of calls.

- In this mode normal relay operation is suspended and the following settings are non-operational:

Relay On Button Press, Relay During Call Active, Relay During Ring, Relay During Night-ring

- In this mode, you can't send dtmf to a remote extension using the keypad. You can however setup delayed dtmf tones in the dial out string.

### **Relay Activation Timeout (in seconds):**

Type the desired length of time (in seconds) that you want the relay to remain activated after a security code is entered.

Security Dial Mode

Enable Security Keypad Operation:
☐

Relay Activation Timeout (in seconds):

Play Tone while Relay is Active:
☐

Allow Telephone dialout:
☒

Call Button:
ID:

Security Code 0:

Security Code 1:

Security Code 2:

Security Code 3:

Security Code 4:

Security Code 5:

Security Code 6:

Security Code 7:

Security Code 8:

Security Code 9:

Security Codes are limited to 7 characters and start with the # key



**Play Time While Relay is Active:** Check this box to play an audible tone while the relay is activated

**Allow Telephone Dialout:** When the Allow Telephone Dialout option is enabled, you can use the keypad to place calls to a dialed extension. To call an extension, dial the number and wait. You can still enter security codes with the Allow Telephone Dialout option enabled by pressing the # key before entering the code. With the Allow Telephone Dialout option disabled, all keypad input will be treated as security input. You can still use the # key but it is not necessary.

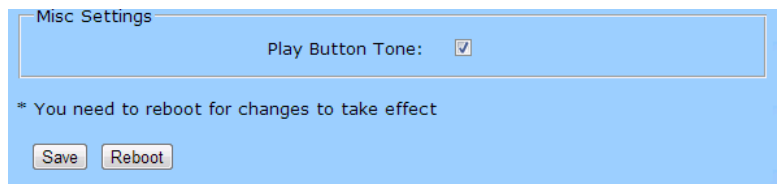
**Call Button:** Enter the desired dial-out extension number (64 character limit). Security codes are limited to seven characters and are activated with the # key

**ID:** Enter the Extension number associated with the Intercom User (64 character limit)

**Security Code (0-9):** Enter the desired security code number (7 character limit). When a security code is entered on the keypad that matches one of the seven-digit fields specified on the page, the relay will be activated.

**Play Button Tone:** Check this box to hear a tone when a keypad button is pushed. This setting applies to all modes and determines whether the device will play an audible sound out of the speaker when doing any of the following:

- Entering a security code
- Initiating a speed dial
- Pressing the keys in cellphone and telephone modes




Misc Settings


Play Button Tone: ☒


\* You need to reboot for changes to take effect

Save Reboot



 Click on the Save button to save your configuration settings.

 **Note:** You need to reboot for changes to take effect.

 Click on the Reboot button to reboot the system.

## 6.5 Nightringer Configuration

Nightringer configuration screen is used to configure the SIP registration parameters used by the CyberData SIP Intercom to register with the MX for Night Bell or Nightringer purposes. The SIP User ID and Authentication ID are the same values which is the Device ID created in the MX in section 3 and assigned to the user created in section 3. Authentication Password is only used if a SIP Proxy Password is required by the Generic SIP Device created in the MX.

**Enable Nightringer:** Checked

**SIP Server:** IP or FQDN of the MX


**Remote SIP Port:** 5060


**Local SIP Port:** 5061, must be Port 5061


**User ID:** the Device ID created on the MX in Section 3

**Authentication ID:** Same as User ID

**Authentication Password:** the SIP Proxy Password for the Device ID created in section 3 (if required)

 Click on the Save button to save your configuration settings.

 **Note:** You need to reboot for changes to take effect.

 Click on the Reboot button to reboot the system.

**Nightringer Configuration**

Enable Nightringer: ☐ (NOT Registered with SIP Server)

**Nightringer Settings**

SIP Server:	<input type="text" value="10.0.0.253"/>
Remote SIP Port:	<input type="text" value="5060"/>
Local SIP Port:	<input type="text" value="5061"/>
User ID:	<input type="text" value="241"/>
Authenticate ID:	<input type="text" value="241"/>
Authenticate Password:	<input type="password" value="....."/>
Re-registration Interval (in seconds):	<input type="text" value="360"/>

\* You need to reboot for changes to take effect

## 6.6 Sensor Configuration

The door sensor (pins 5 and 6) on the header can be used to monitor a door's open or closed state. There is an option on the Sensor Configuration page to trigger on an open or short condition on these pins. The door sensor alarm will be activated when the Door Open Timeout parameter has been met.

The intrusion sensor is an optical sensor installed on the Intercom board and will be activated when the Intercom is removed from the case. Zultys Highly recommends implementing the Intrusion Sensor Settings.

For each sensor there are four actions the Intercom can take:

- Flash the LED until the sensor is deactivated (roughly 10 times/second)
- Activate the relay until the sensor is deactivated
- Loop an audio file out of the Intercom speaker until the sensor is deactivated
- Call a preset extension and play a pre-recorded audio file (once)

**Door Sensor Normally Closed:** Select the inactive state of the door sensors.

**Door Open Timeout (in seconds):** Select the number of seconds that you want to pass before the door sensor is activated

**Flash Button LED:** Check this box to flash the LED until the sensor is deactivated (roughly 10 times/second).

**Activate Relay:** Check this box to activate the relay until the sensor is deactivated.

**Play Audio Locally:** Check this box to loop an audio file out of the Intercom speaker until the sensor is deactivated.

**Make Call to Extension:** Check this box to call a preset extension (one time).

**Play recorded audio:** Check this box to play a pre-recorded audio file (one time).

**Dial Out Extension:** Enter the desired dial-out extension number

### Sensor Configuration

#### Door Sensor Settings

Door Sensor Normally Closed: ☐ Yes ☒ No

Door Open Timeout (in seconds):

Flash Button LED: ☐

Activate Relay: ☐

Play Audio Locally: ☐

Make call to extension: ☐

Play recorded audio: ☐

Dial Out Extension:

Dial Out ID:

[Test Door Sensor](#)

#### Intrusion Sensor Settings

Flash Button LED: ☒

Activate Relay: ☐

Play Audio Locally: ☒

Make call to extension: ☒

Play recorded audio: ☒

Dial Out Extension:

Dial Out ID:

[Test Intrusion Sensor](#)

**Dial Out ID:** Enter in the Extension number associated with the MX Intercom User (64 character limit).

**Test Door Sensor:** Use this button to test the door sensor.

**Flash Button LED\*:** Check this box to flash the LED until the sensor is deactivated (roughly 10 times/second).

**Activate Relay:** Check this box to activate the relay until the sensor is deactivated.

**Play Audio Locally:** Check this box to loop an audio file out of the Intercom speaker until the sensor is deactivated.

**Make call to extension:** Check this box to call a preset extension (once).

**Play recorded audio:** Check this box to play a pre-recorded audio file (once).

**Dial Out Extension:** Enter the desired dial-out extension number.


**Dial Out ID:** Enter in the Extension number associated with the MX Intercom User (64 character limit).

**Test Door Sensor** Test door sensor

**Save** Click on the Save button to save your configuration settings.

\* You need to reboot for changes to take effect

**Save** **Reboot**

 **Note:** You need to reboot for changes to take effect.

**Reboot** Click on the Reboot button to reboot the system.

### 6.7 Multicast Configuration

Multicast Configuration is used to create multiple zones that the CyberData SIP Intercom will listen to and relay pages that are received, configure each multicast zone to match the multicast Zone. If you are not using Multicast Paging, or do not want to include the Intercom in the paging zone this section can be skipped.

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When playing multicast streams, audio on different streams will preempt each other according to their priority in the list. An audio stream with a higher priority will interrupt a stream with a lower priority.

If both SIP and Multicast is enabled, SIP audio streams are considered priority 4.5. SIP audio will interrupt multicast streams with priority 0 through 4 and will be interrupted by multicast streams with priority 5 through 9.

During priority 9 multicast streams, the analog volume control is bypassed and the volume level is set to maximum.

Ringtones all play at the same priority level. This means that it is possible to have a nightring tone and a normal ringtone playing at the same time.

Priority 9 will play the announcement at maximum volume.

**Enable Multicast operation:** Checked

**Address:** Enter the IP address of the Multicast Group.

- **Note:** To disable a relay on a group, use an IP address of 0.0.0.0.

**Port:** Enter the port number of the Multicast Group.

- **Note:** The port range can be from 2000 to 65534 and must be even.

**Name:** Enter a name for the Multicast Group.

### Multicast Configuration

Enable Multicast operation: ☒

#### Device Settings

priority	Address	port	Multicast Group Name
9	239.168.3.9	10002	Emergency
8	234.2.1.1	10002	Office
7	239.168.3.8	9000	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*

*Ports must be even numbers*

*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*

\* You need to reboot for changes to take effect

Click on the Save button to save your configuration settings.



**Note:** You need to reboot for changes to take effect.

Click on the Reboot button to reboot the system.

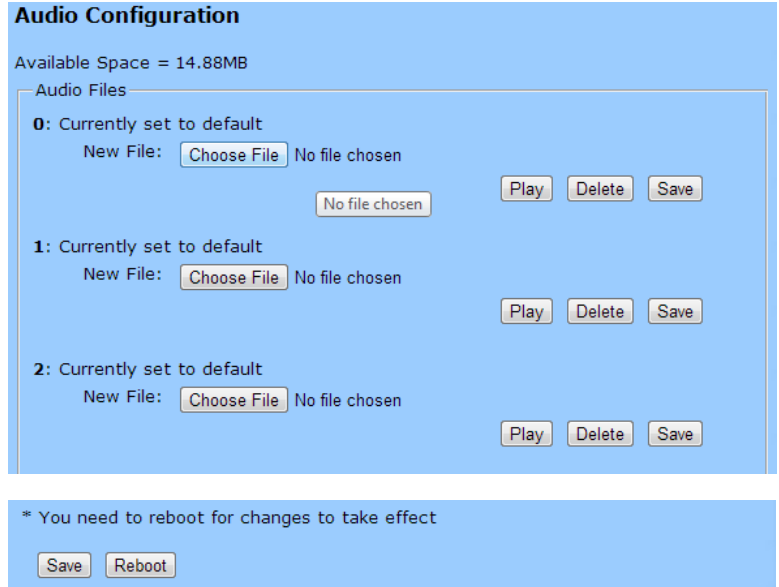
## 6.8 Audio Configuration


CyberData SIP-enabled Outdoor Keypad Intercom allows you replace all the prompts used by the intercom with your own custom paging prompts. Custom prompts must be saved as


WAVE audio, Microsoft PCM, 16 bit, mono 8000 Hz


Zultys Technical Support can provide prompts matching the Zultys voice prompts upon request.

Custom files may be uploaded for all prompts played by the CyberData SIP-enabled Outdoor Keypad Intercom



 Click on the Save button to save your configuration settings.

 **Note:** You need to reboot for changes to take effect.

 Click on the Reboot button to reboot the system.

## 7 Known Issues

### 7.1 Call Groups

It is recommended to be running MX firmware version 10.0.5 or higher and Cyber Data SIP-enabled Outdoor Keypad Intercom firmware version 9.3.0 or higher to avoid any issues.

### 7.2 Auto Attendants

Due to known issues in the operation /functionality of the echo canceller in the Cyber Data SIP-enabled Outdoor Keypad Intercom when the intercom is programed to call an MX AutoAttendant/IVR there will be no audio for the first 15-20 seconds. As a workaround disable “*Device Config | Miscellaneous Settings | Play Ringback Tone*” or

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contact technical support for additional options if you require ringback tone to be played when calling an extension.