

# BellCommander Configuration Guide –Epygi QX IP PBX

**Overview:** BellCommander works with Epygi QX IP PBXs to provide a complete scheduled audio, paging, and emergency notification solution. Audio can be sent via a multicast or SIP configuration. This guide covers making calls/pages via SIP through QX IP PBXs to page to phones and other endpoints. Our CyberData and Valcom guides can be referenced for sending audio via multicast (<http://www.acrovista.com/bellcommander/sip-version.html>)

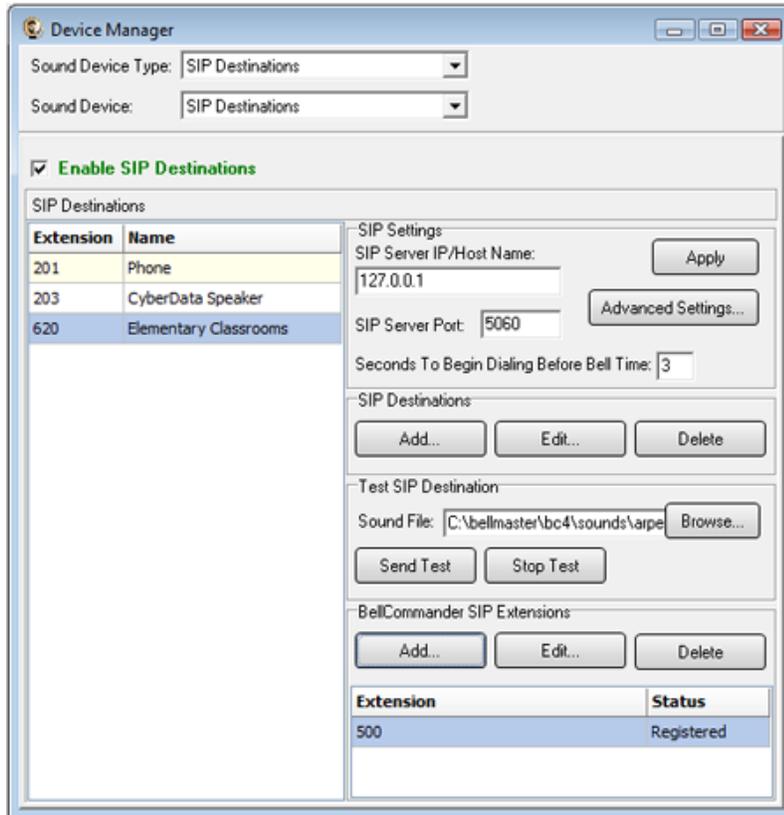
## SIP Setup Guide

BellCommander can interface to QX IP PBX for paging as one or more SIP endpoints. BellCommander will communicate over the network and will register with QX IP PBX as a generic SIP endpoint, like a SIP phone. At scheduled times, BellCommander would make calls to paging extensions, which would broadcast audio to phones, IP speakers, and other endpoints assigned to the paging group.

For the SIP configuration of BellCommander, an extension will need to be added to QX IP PBX and to BellCommander. This extension will allow BellCommander to make outgoing calls through QX IP PBX to CyberData speakers and IP phones. To add the extension:

1. Open the QX IP PBX dashboard (admin login is required).
2. Click "Extensions" on the left panel.
3. Click "Extensions" on the horizontal menu bar. The Extensions Management configuration page will open.
4. Click "Add Extension" button.
5. On "Extensions Management - Add Entry" page add the new extension number and select the "User Extension" extension type. Pressing "Save" button will open "Extensions Management - Edit Entry" page.
6. On that page enter the "Display Name" and "Password" and then press "Save" button.
7. Add the new extension to BellCommander:
  - a. Open the BellCommander Device Manager and select SIP Destinations from the Sound Device Type drop-down.
  - b. Enter the SIP Server IP. This should be the IP of the system running QX IP PBX. Enter the corresponding SIP port. This should normally be 5060. Click the Apply button.
  - c. Click the Add... button under BellCommander SIP Extensions to add the extension that BellCommander will register. Enter the extension number, password, and a local port number. Typically, the default local port number can be used. After adding the extension, the extension should appear in the list with a status of "Registered"
  - d. Click the Add... button under SIP Destinations and add the QX IP PBX extensions that BellCommander will call.

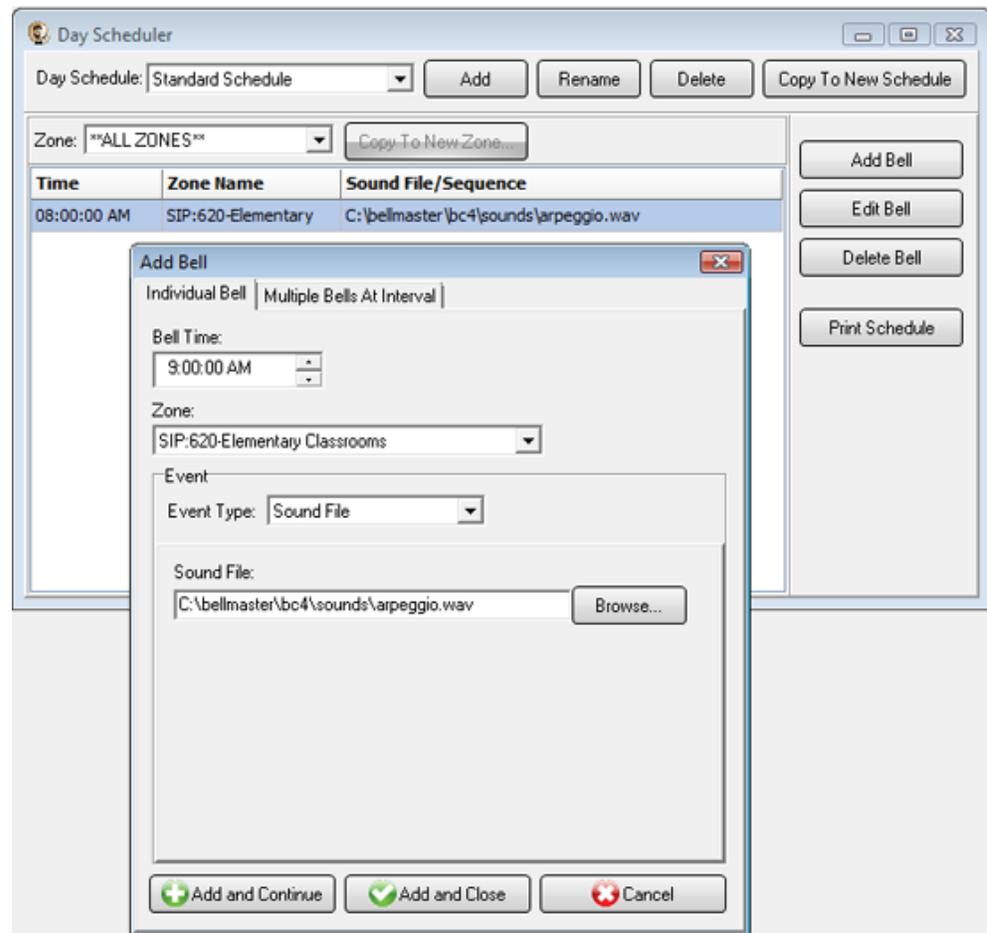
- e. Test each SIP destination, by selecting a SIP destination from the SIP Destinations list. Then, click the Browse... button to locate a WAV file and click the Play Audio File button to play the WAV file. BellCommander will then call the extension through QX IP PBX and play the WAV file.



## Scheduling for SIP Extensions:

BellCommander automatically creates a zone for each SIP destination that allows different schedules to be sent to different extensions. To create a schedule, follow the steps below:

1. Create a day schedule. A day schedule represents a single day's 24 hour schedule that can be applied to dates on the BellCommander calendar. To create a Day Schedule:
  - a. Click the Day Scheduler button.
  - b. Click the top Add button to add a new day schedule. Enter a name to identify the schedule, ex. Standard Schedule
  - c. Click the Add Bell button to add a new bell to the schedule. In the Add Bell window,
    - i. Select the time for the bell.
    - ii. Select the zone that the bell should play to. SIP zones will have a name of "SIP:" followed by the extension number and name.
    - iii. For a single sound file select, select "Sound File" for the event type and select a WAV audio file.



2. Assign the day schedule(s) to the Calendar Scheduler. To assign schedules to the Calendar Scheduler:
  - a. Click the Calendar button to view the Calendar Scheduler window.
  - b. Click the Set Default Weekly schedule button to set the default schedule and set the following values:

**Weeks in the schedule:**

If schedule is the same every week, select “Same schedule every week”.

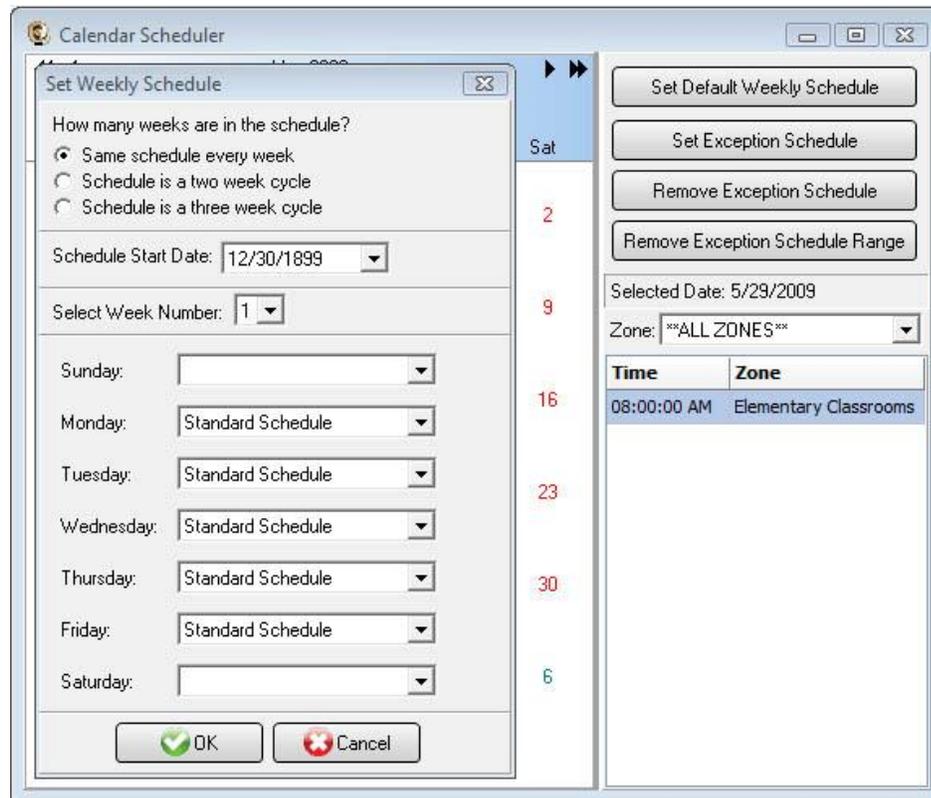
If schedule repeats bi-weekly, select “Schedule is a two week cycle”.

If schedule repeats tri-weekly, select “Schedule is a three week cycle”.

**Schedule Start Date** – If schedule starts in the future select a future date; otherwise, the default value (12/30/1899) will start the schedule immediately.

**Select Week Number** – If using a bi-weekly or tri-weekly schedule, this allows the first, second, or third week to be selected for the days of the week listed. Select 1 to program the first week, 2 to program the second week, 3 to program the third week.

**Days of the week** – Use the drop-down for each day of the to select a schedule. If no audio should be scheduled for the day of the week, leave the day name blank.



- c. To set different schedules by date, add additional schedules in the Day Scheduler and select dates on the calendar and click the Set Exception Schedule button to set different schedules by date.

**Special Considerations for SIP Scheduling:**

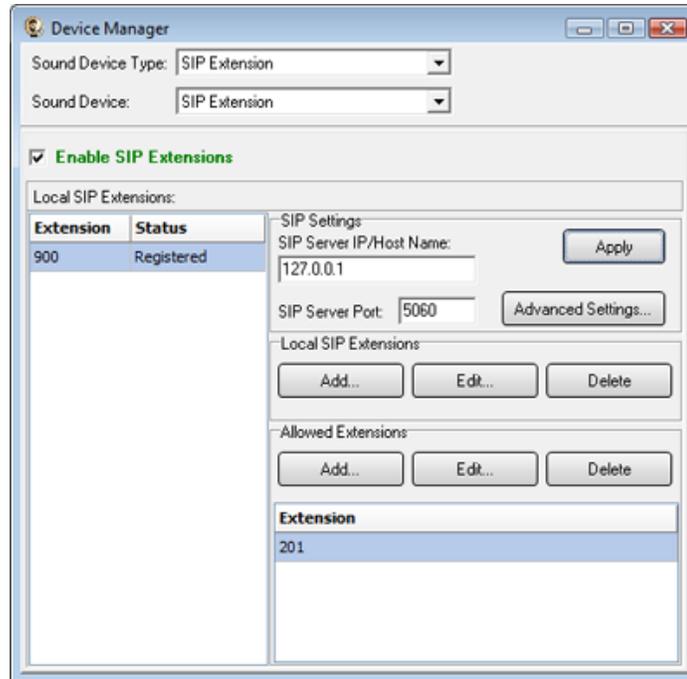
If two or more audio events will be scheduled at the same time, then additional SIP extensions will need to be registered by BellCommander. This will require adding the additional extensions in QX IP PBX and having BellCommander register the SIP extensions.

## SIP Extensions for Emergency Notification

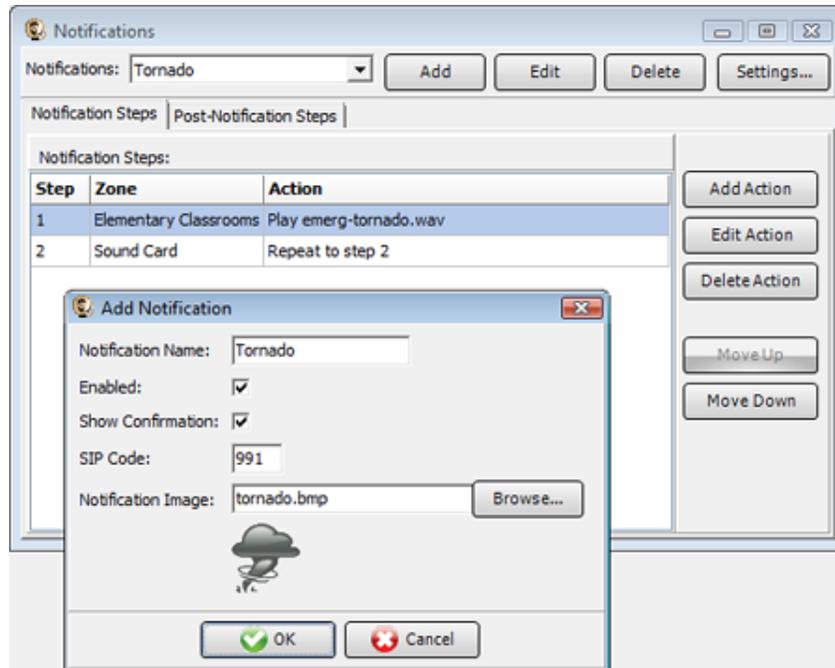
SIP Extensions for Emergency Notification allows QX IP PBX phones to dial BellCommander for emergency notifications. Emergency notifications loop audio alerts for several weather, school lockdowns, and other emergencies. Emergency notifications can be triggered by clicking emergency buttons in the BellCommander interface or by dialing emergency codes.

To setup emergency notifications:

1. Open the QX IP PBX dashboard (admin login is required).
2. Click “Extensions” on the left panel.
3. Click “Extensions” horizontal menu bar. The "Extensions Management" configuration page will open.
4. Press “Add Extension” button.
5. In “Extensions Management - Add Entry” page add the new extension number and select “User Extension” for extension type. Pressing “Save” button will open the “Extensions Management - Edit Entry” page.
6. On that page enter the “Display Name” and “Password” and then press “Save” button.
  
7. Add SIP extension to BellCommander:
  - a. Open the BellCommander Device Manager by clicking the Devices button.
  - b. In the Sound Device Type drop-down select “SIP Extension”
  - c. Check “Enable SIP Extensions”
  - d. Enter the QX IP PBX IP and port number. Port number should normally by 5060.
  - e. Click the Apply button.
  - f. Add a SIP extension for BellCommander to register:
    - i. Click the Add... button under Local SIP Extensions.  
SIP Extension - Extension that was added to QX IP PBX.  
Extension Password – Password for the extension that was added to QX IP PBX.  
Local Port Number – Can typically use the default value  
Map To Zone – Leave this blank for emergency notification.  
SIP Server Options – Select “Connect to default SIP server”
    - ii. After adding the extension, the extension should appear in the Local SIP Extension list with a status of “Registered”
  - g. Add the extensions that are allowed to call BellCommander for emergency notification.
    - i. Click the Add... button under Allowed Extensions.
    - ii. Enter a QX IP PBX extension that will be allowed to call BellCommander.
    - iii. Repeat for additional extensions. BellCommander is licensed by the number for allowed extensions, so the number of allowed extensions may be restricted by the license.



2. Define emergency notifications in BellCommander:
  - a. Click the Notifications button to view the Notifications window.
  - b. Click the top Add or Edit button to add or edit a notification. For the example, we'll edit the tornado notification.
  - c. In the edit window, note the SIP code. This is the code that the phone user should dial to trigger the emergency notification. The Show Confirmation option is for clicking notifications in the BellCommander interface. If Show Confirmation is checked, a message will popup to request confirmation of an emergency alert.
  - d. Assign actions to the emergency notification. Use the Add Action and Edit Action to add and edit actions in the alert scripts. Typically, a sound file would be played and looped. In the action, the zone should be set to a zone that broadcasts to all areas that should receive the notification.



3. To trigger an emergency notification by phone, first call the BellCommander extension, in the example above this would be 900. Wait for BellCommander to answer, then dial the emergency code followed by the # key. In the example above 991#. To stop the alert, dial 999# while connected to BellCommander. The alert can also be stopped by dialing the BellCommander extension again and entering 999#.

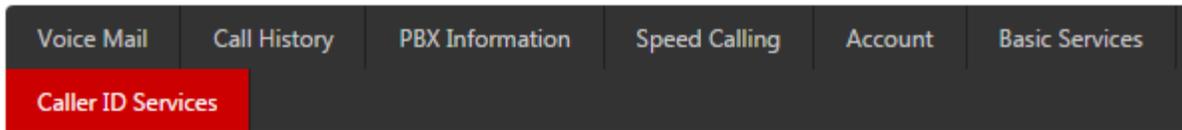
### **“Emergency interrupt” feature on QX IP PBX**

QX IP PBX supports the “Emergency Interrupt” feature. If this feature is enabled for an extension then new call arriving from a preconfigured “emergency” number will immediately connect to extension, if it is not in the call. If extension is in the call then that call will be terminated and the call from emergency number will be connected to extension.

To activate the “Emergency interrupt” for some extension do the following:

1. Select the extension from Extensions Management page by clicking on extension's link.
2. Click on “Caller ID Services” on the horizontal menu bar.
1. Push “Add” button to open "Caller ID Based Services - Add Entry" page.
2. Enter the BellCommander's extension number as the “emergency” number in “Address” field, select the "PBX" call type and press “Save” button.
3. The list of Caller ID Based Services will open again with the new (BellCommander) entry at the bottom. Click on that entry link to open the supplementary services page related to BellCommander's number.

4. Click on the "Emergency Interrupt" link on the right panel and enable the "Emergency Interrupt" feature (see the picture below). Press "Save" button to apply the changes.



## Caller ID Based Services for Auto-111

Help ▾

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Extension: 104

<ul style="list-style-type: none"><li><a href="#">Hiding Caller Information</a></li><li><a href="#">Incoming Call Blocking</a></li><li><a href="#">Outgoing Call Blocking</a></li><li><a href="#">Distinctive Ringing</a></li><li><a href="#">Call Hunting</a></li><li><a href="#">Many Extension Ringing</a></li><li><a href="#">Unconditional Call Forwarding</a></li><li><a href="#">Busy Call Forwarding</a></li><li><a href="#">No Answer Call Forwarding</a></li><li><a href="#">Unregistered/Inaccessible Call Forwarding</a></li><li><a href="#">Find Me / Follow Me</a></li><li><b><a href="#">Emergency Interrupt</a></b></li><li><a href="#">Intercom</a></li><li><a href="#">Voice Mail Profile</a></li></ul>	<p>Emergency Interrupt: <input type="button" value="Disabled"/> ▾</p> <p><input checked="" type="button" value="Enabled"/></p> <p><input type="button" value="Disabled"/></p> <p><input type="button" value="Save"/></p>
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