LRAD Streamer Software

Quick Start Guide

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1.0 Introduction

The LRAD Streamer software is a tool for remotely managing LRAD mass notification devices. It enables users to digitally stream or upload audio, organize devices into groups, and schedule automated alerts—making it easy to control and monitor emergency communication systems from a central location.

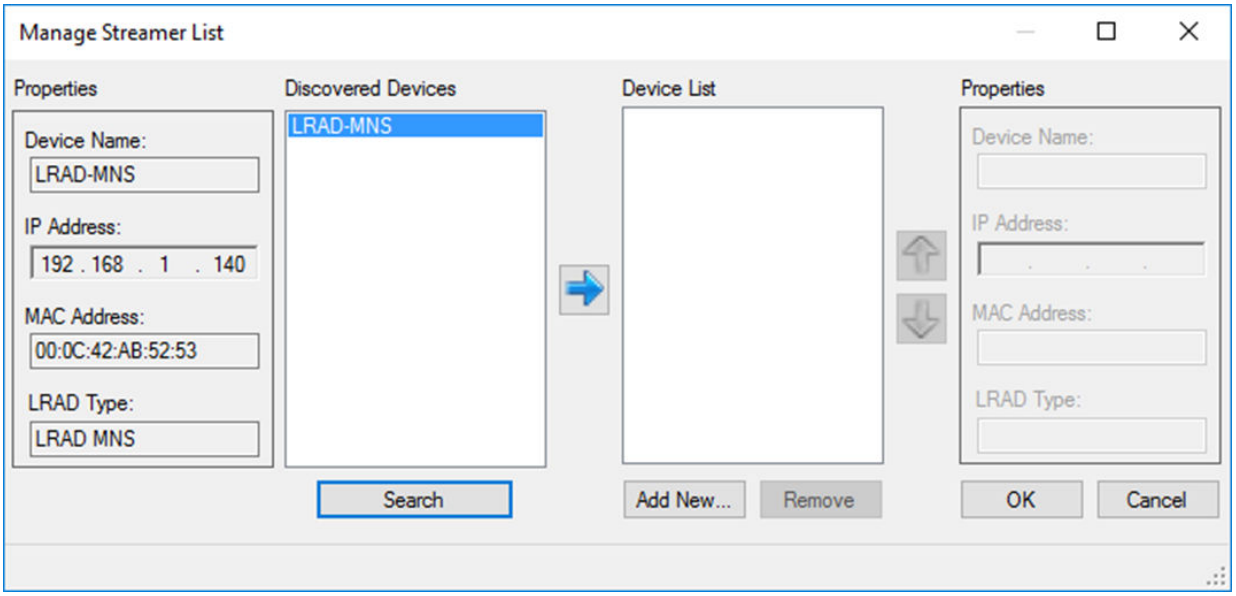
To access the most up-to-date version of the software, visit the Downloads page on the website or use the SharePoint link provided below:

Website: https://genasys.com/lrad/downloads/

2.0 Manage Device List

The "Manage Streamer List" dialog will appear after the first launch. This dialog allows you to find LRAD devices on your network and add them to your device list.

Select the device(s) in the "Discovered Devices" list and add them to the "Device List" by clicking on the right arrow. Note: if your device does not show up in the "Discovered Devices" list, verify that your device is turned on and is connected to the same network as the computer that is running the software. If your device still does not show up in the "Discovered Devices" list, click the "Add New…" button to manually add the device.



Select the mass notification device type and the speaker type of the LRAD mass notification device you are adding to the device list and click OK.

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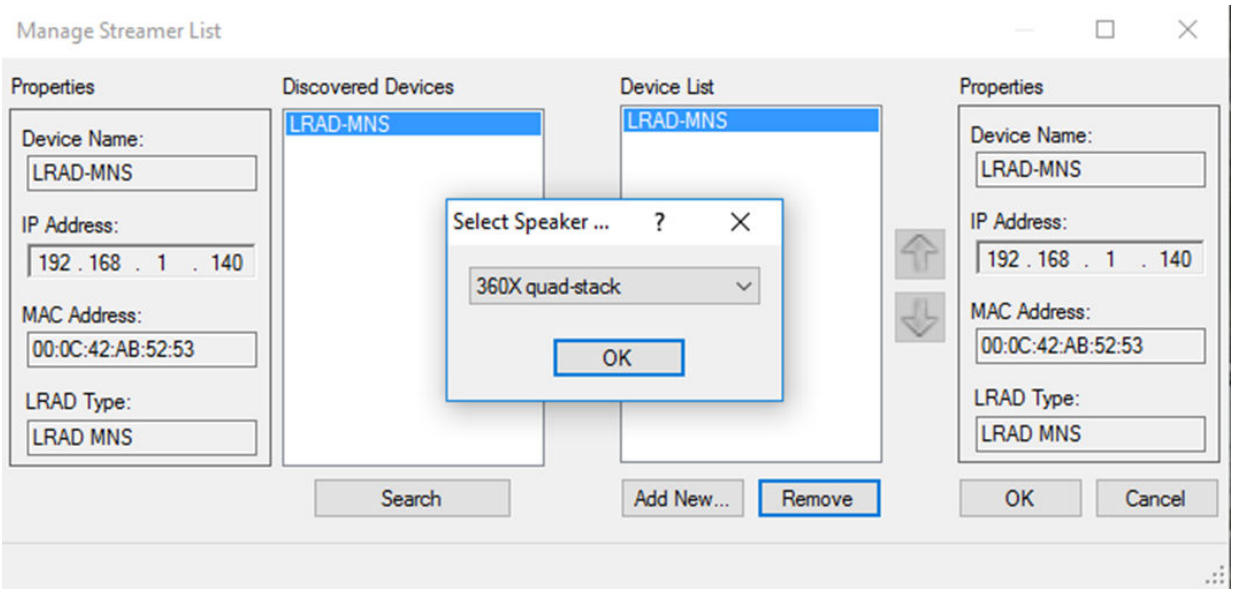
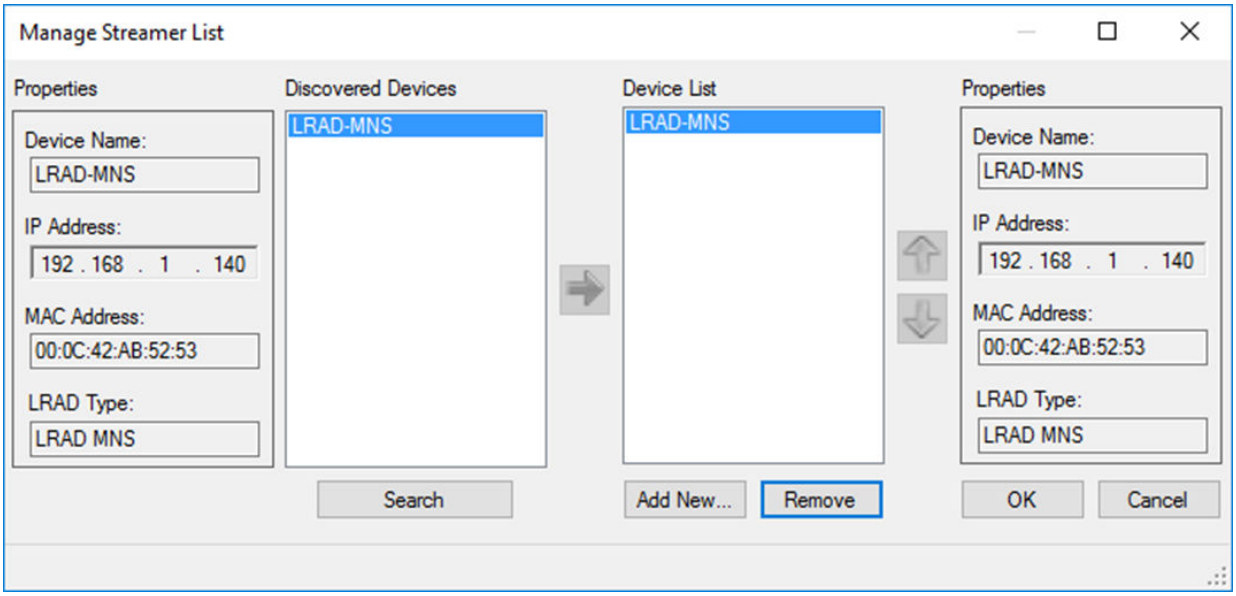


Click “OK” when you have finished adding LRAD mass notification devices to the device list.



Devices can be manually added to the device list if they are not discoverable. Click on the “Add New...” button, enter the IP address of the new LRAD device, select the LRAD type and speaker type.

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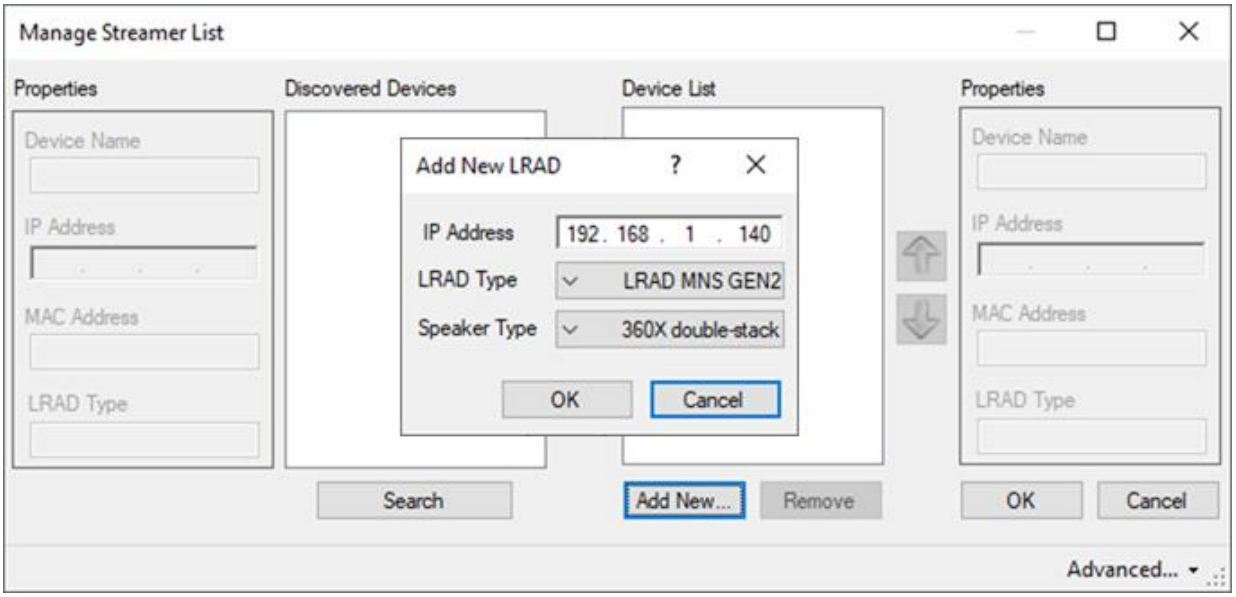
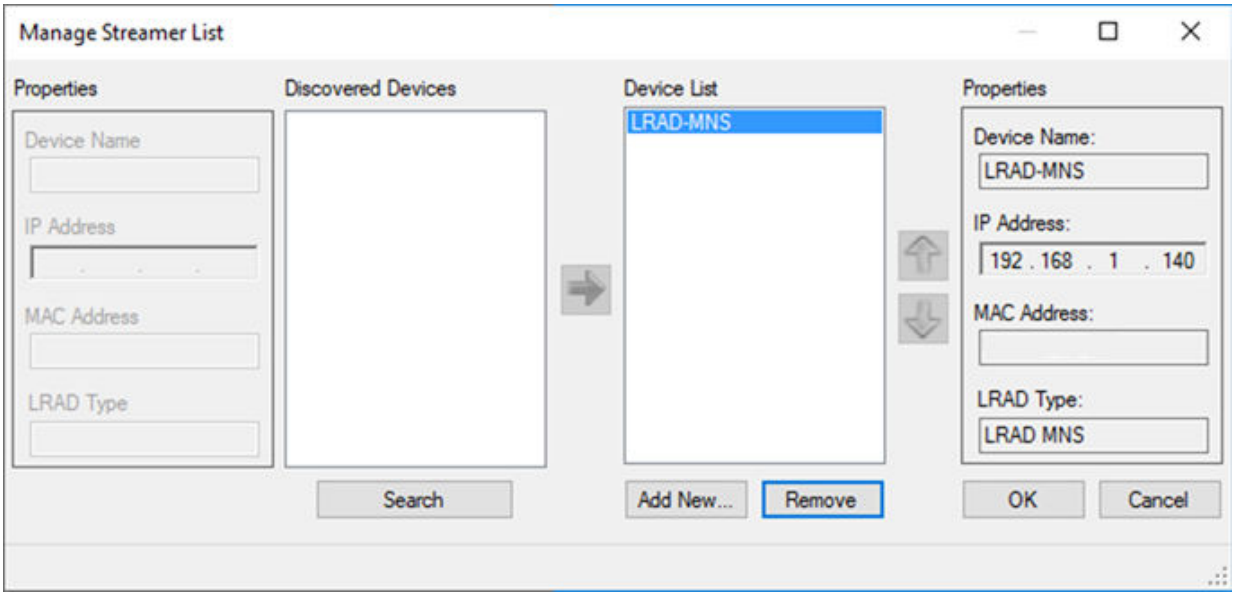


Click OK to manually add a device to the device list.



Click OK.

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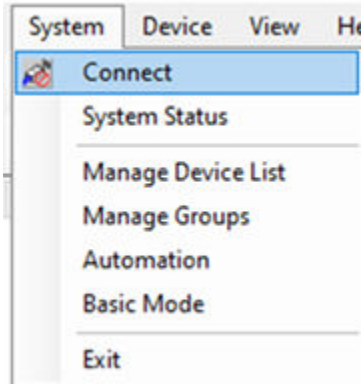
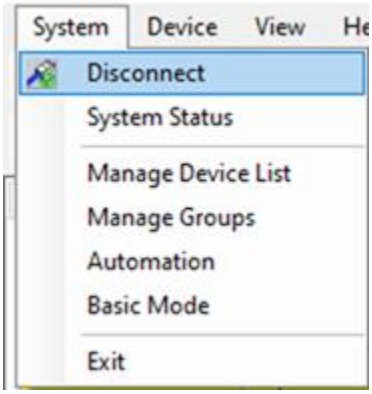
3.0 System Connect

• Connect to all LRAD devices in the device list by clicking on the System menu and selecting Connect.



• Disconnect from all LRAD devices in the device list by clicking on the System menu and selecting Disconnect.



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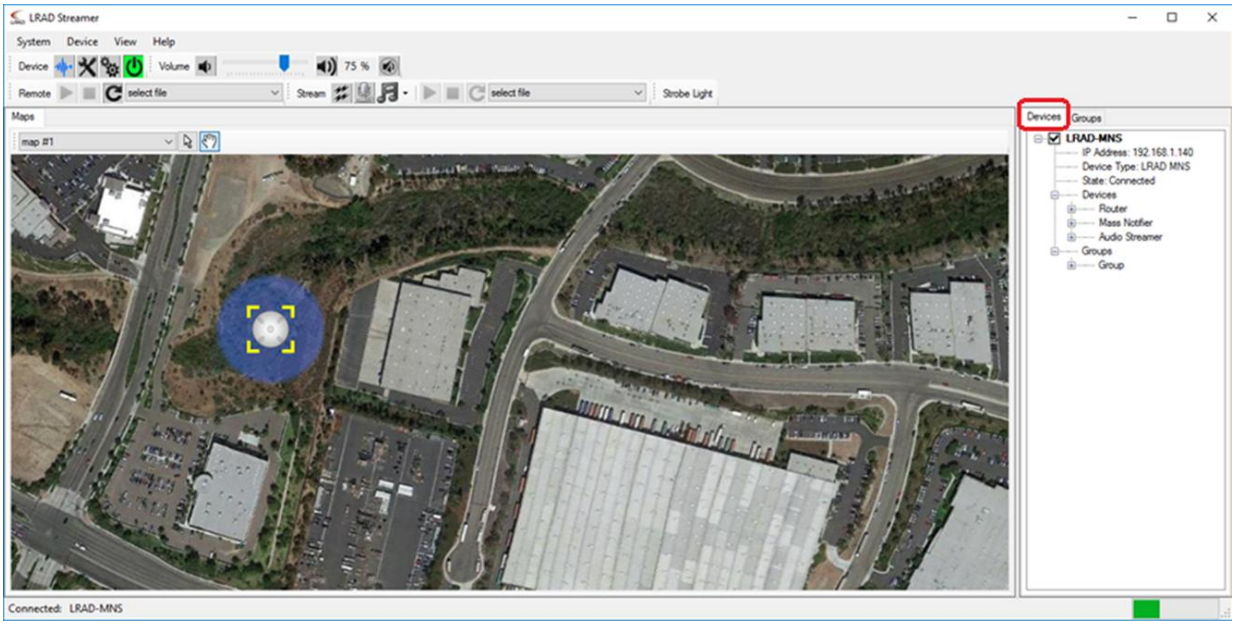
4.0 Device Tree

- Select the “Devices” tree to control individual LRAD mass notification devices.
  - The yellow brackets surrounding the device icon on the map indicate that the device is selected (see the map section later in this guide for more information).
  - Change the volume level of an individual LRAD mass notification device with the Volume toolstrip when on the “Devices” tab.



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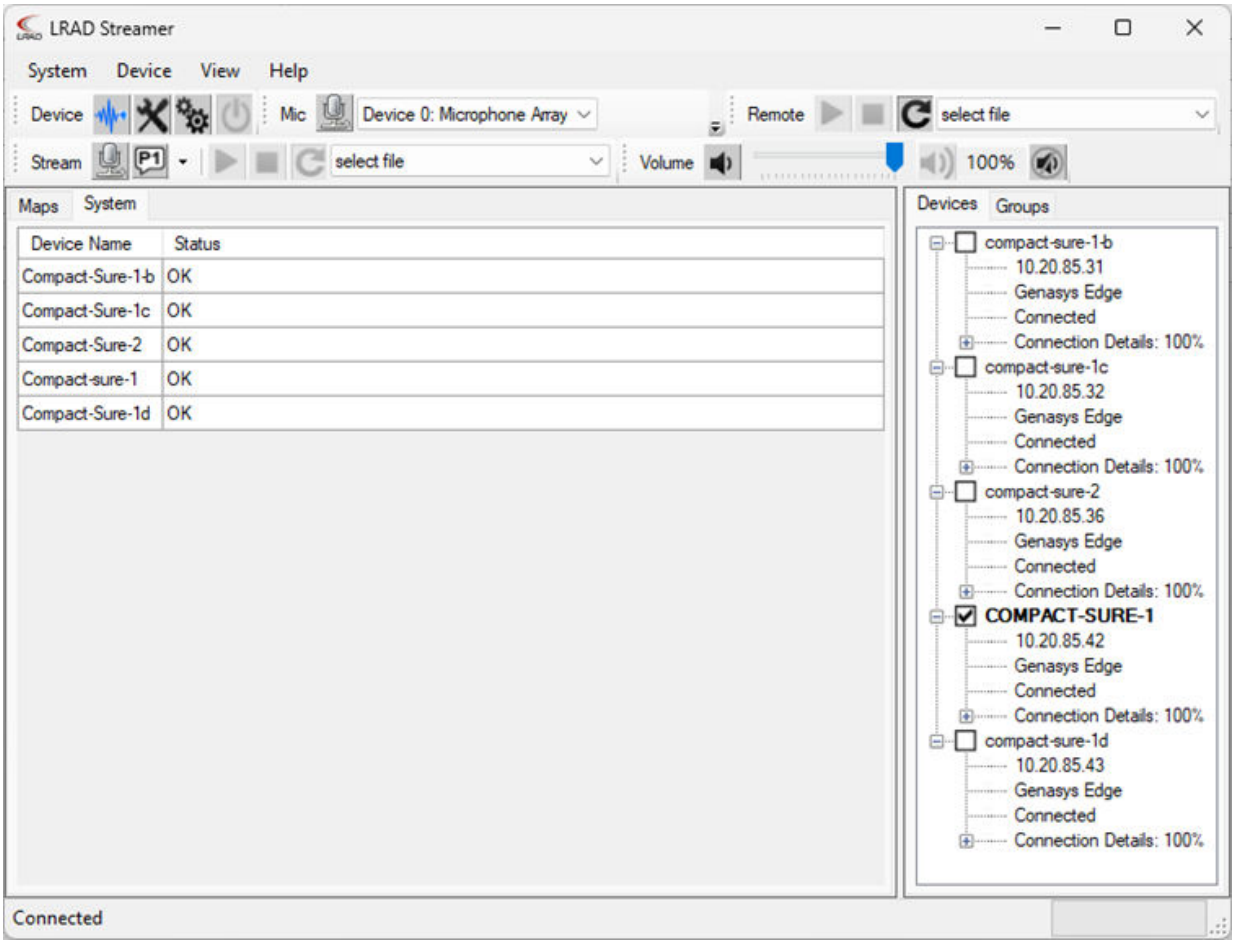
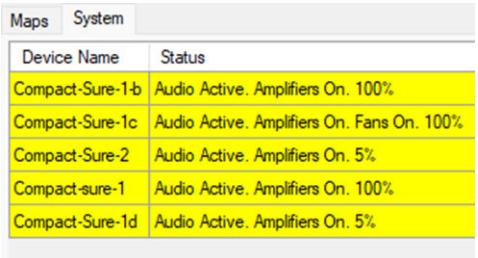
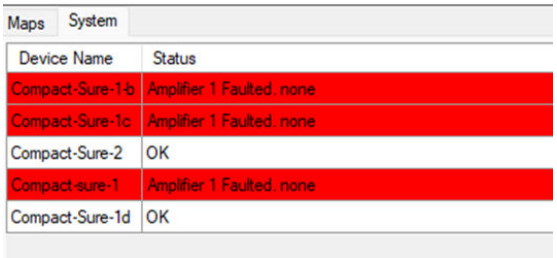
5.0 System Status

- The System Status control shows the overall status of all the devices in the device list.



- The color of the system status will change depending on the state of the speakers:
  - White: normal idle state
  - Yellow: audio playing and/or amplifiers on
  - Red: speaker has a fault
  - Check the status text for more information about the speaker status.





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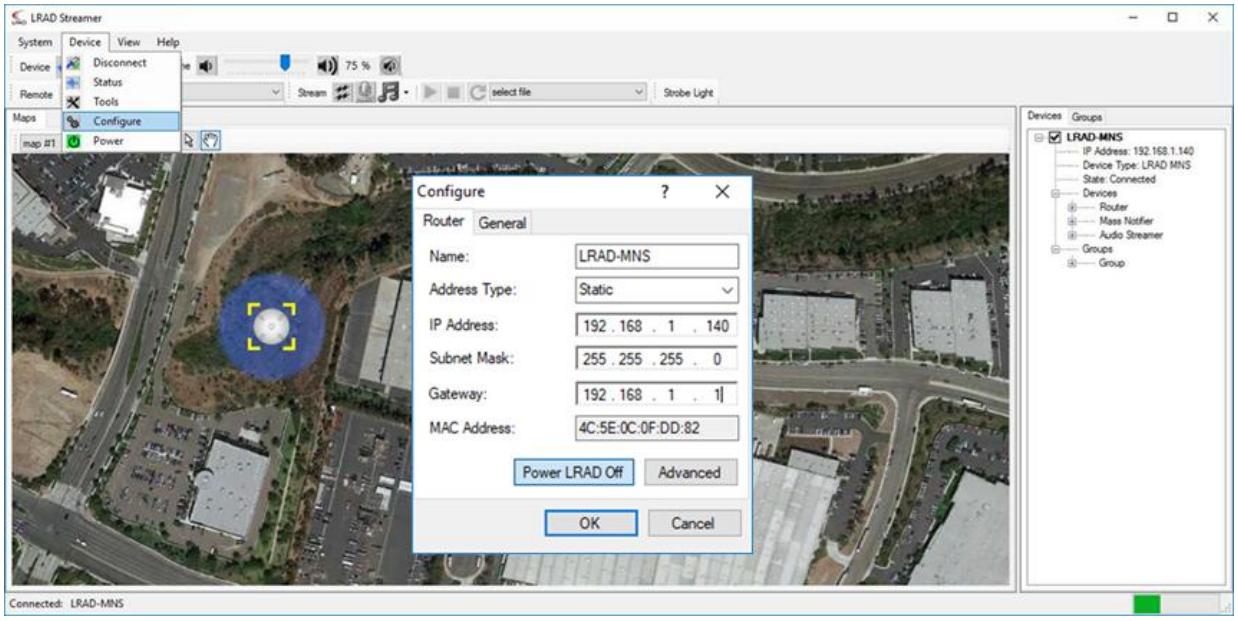
6.0 Device Configuration

- Click on the check box next to the device on the “Devices” tree to configure.
- Click on the “Device” drop down menu and click on “Configure” to open the device configuration dialog.
- The network name, IP address, subnet mask, and IP gateway of the device can be changed. Click OK to write your changes to the device or Cancel to discard.



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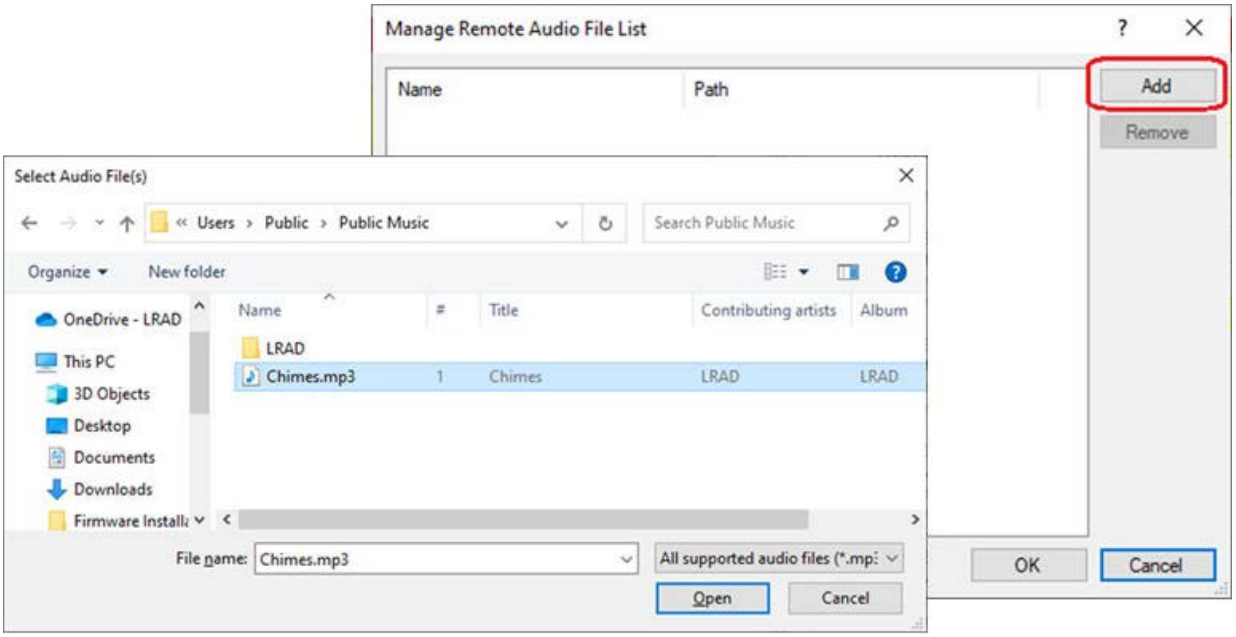
7.0 Remote Audio Files

The Remote toolbar controls audio files that are stored on the selected LRAD mass notification device or group. Click on the Remote tool bar combo-box and click on “edit file list…” to open the Manage Remote Audio File List dialog.

Click on the Add button and select a supported audio file (MP3 and specific WAV formats).



Click on the Open button to add the audio file to the list.

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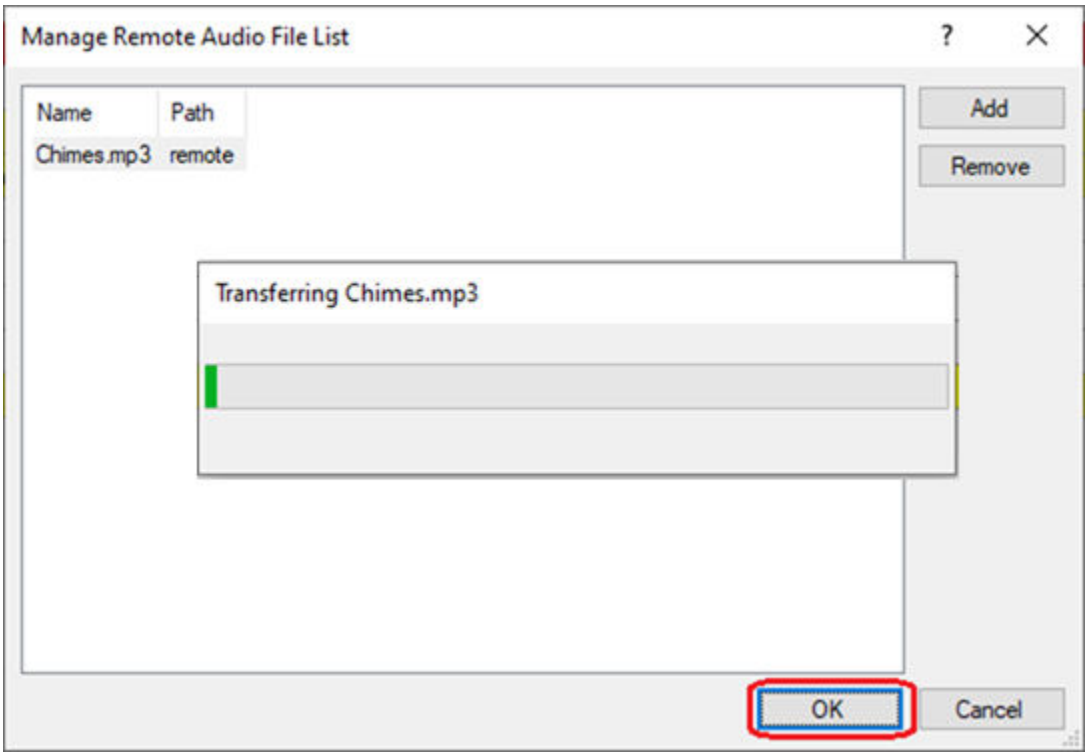
Click on the OK button to transfer the audio file(s) to the selected LRAD mass notification device(s).



The audio file(s) should now be available for playback.

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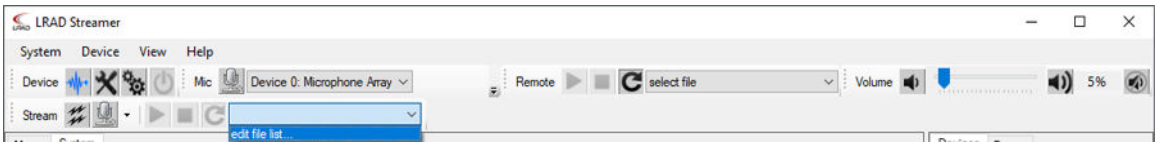
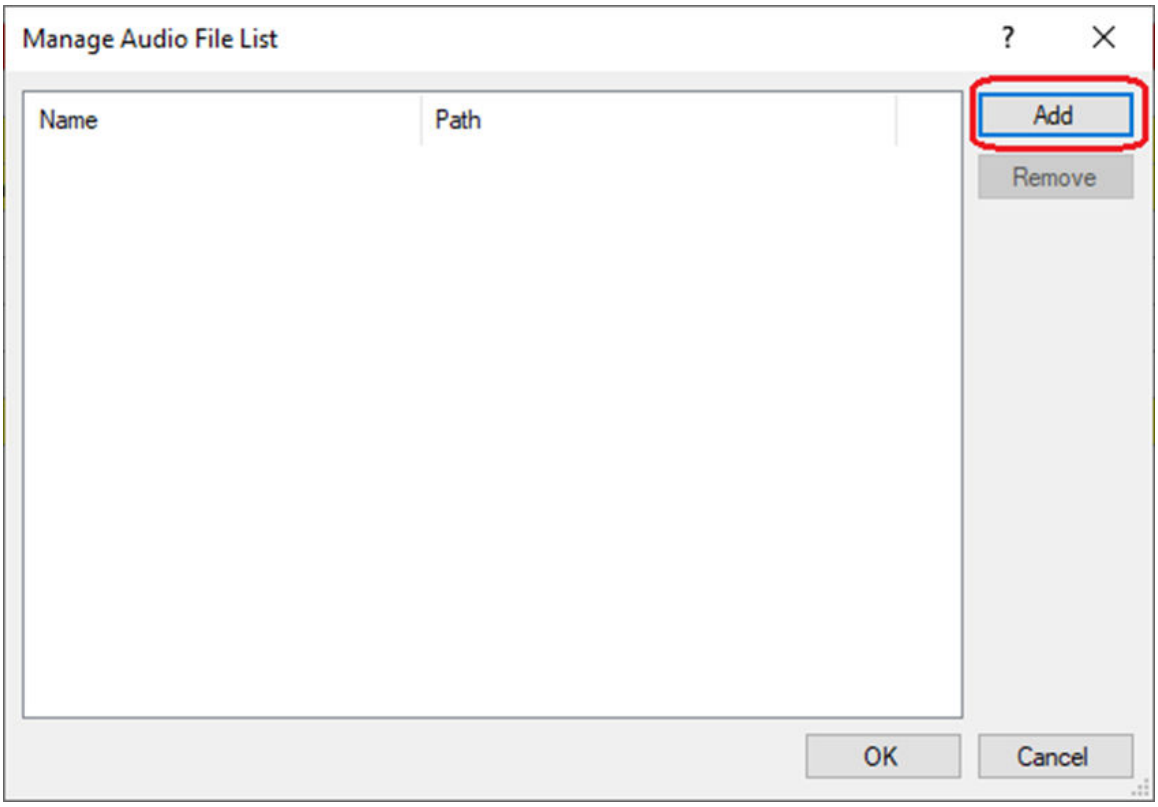
8.0 Stream Audio Files

The Stream toolbar controls audio files that are stored on the local PC and streamed to the selected LRAD mass notification device(s) or group. Click on the Stream tool bar combo-box and click on “edit file list…” to open the Manage Audio File List dialog.



Click on the Add button and select a supported audio file (MP3 and specific WAV formats).



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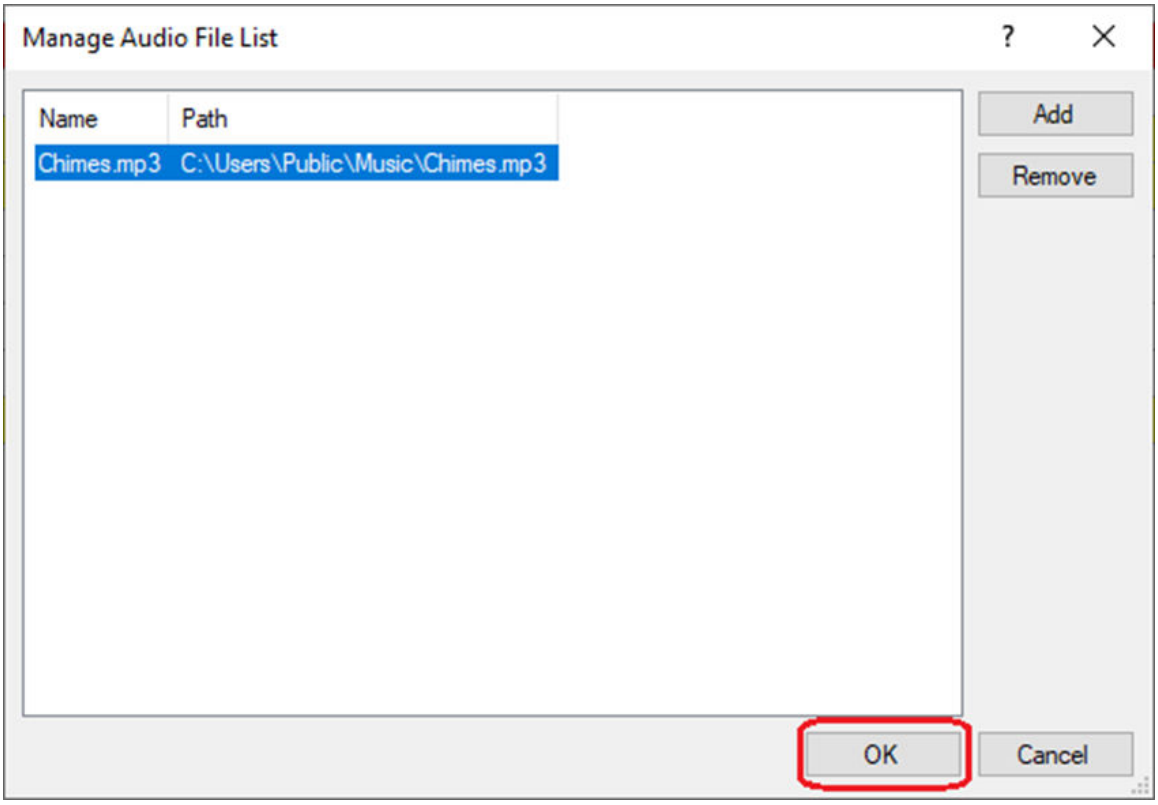
Click on the OK button to add the audio file(s) to the stream list.



The audio file(s) should now be available for playback.

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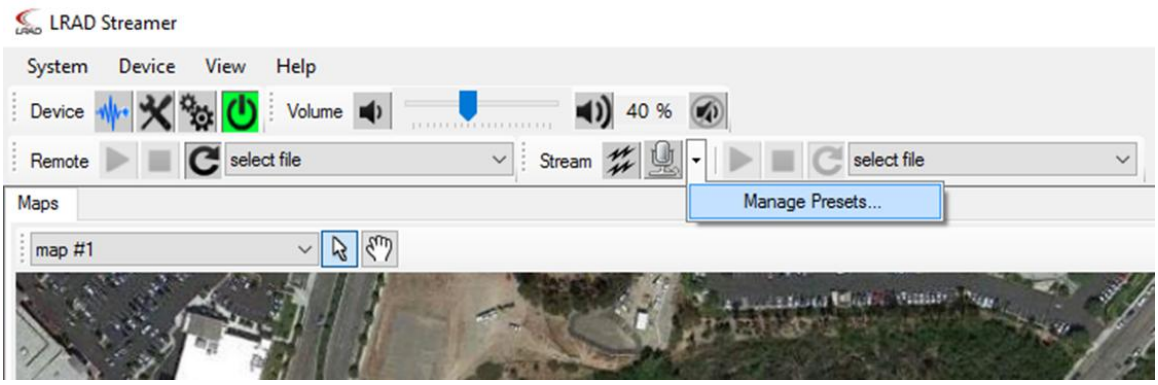
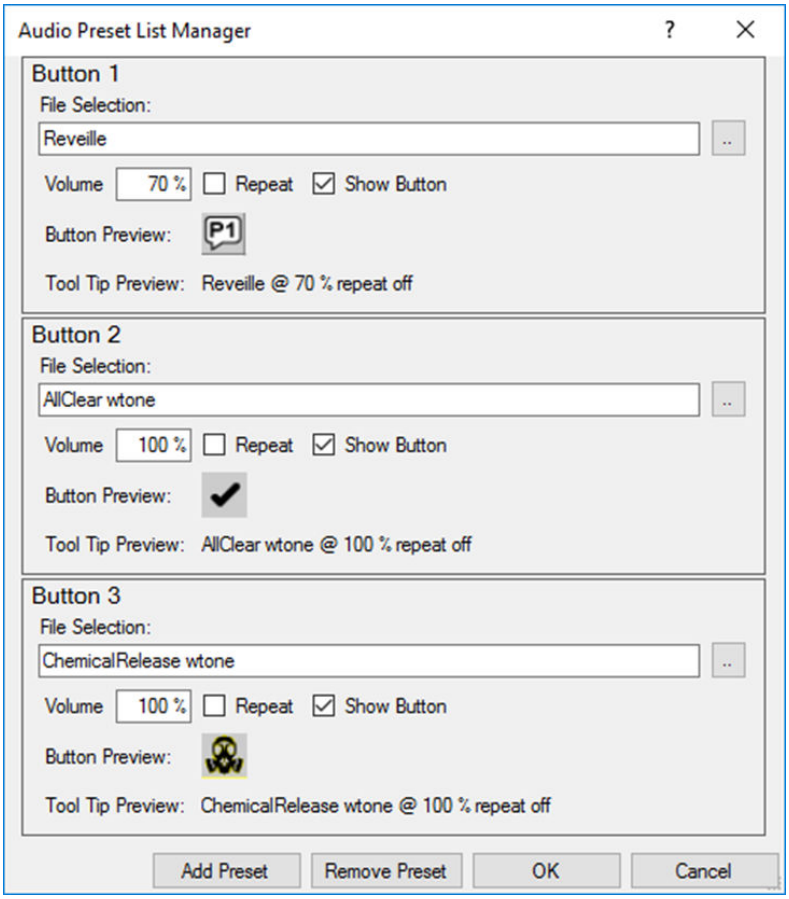
9.0 Audio Stream Presets

Click on the down arrow on the Stream tool bar and click on “Manage Presets…” to open the audio preset list manager dialog.



The Audio Preset List Manager dialog allows you to select the audio file to use for each preset, enter the volume level at which the preset will be played, select the preset button image (by clicking on the preset button image), show or hide each preset, and add or remove preset. Click the OK button to save the changes.



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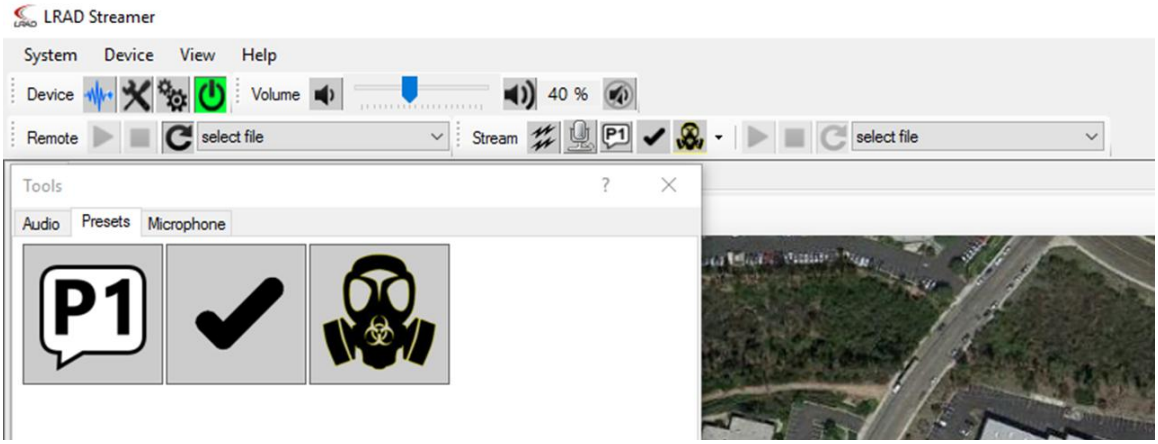
The preset buttons are accessible from the Stream tool bar, the Presets tab in the Tools dialog, and the Basic Mode interface. Click on a preset but to initiate audio playback and click on it again to stop playback.



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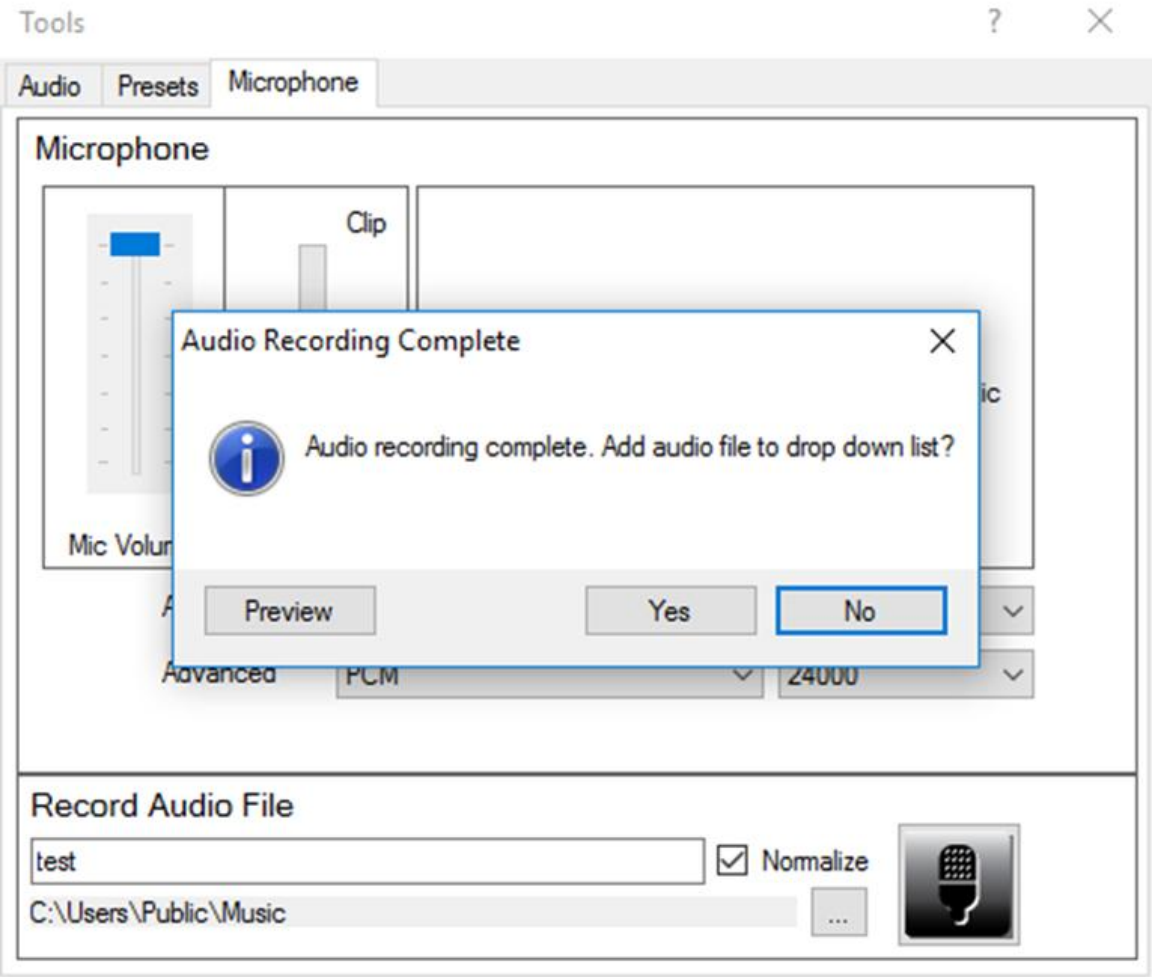
10.0 Record Audio Files

Microphone audio recordings can be made in the Tools dialog on the Microphone tab. Enter a file name, select the recording path, and click on the microphone button to create a recorded message.



Click Yes to add the newly made recording to the drop-down list.

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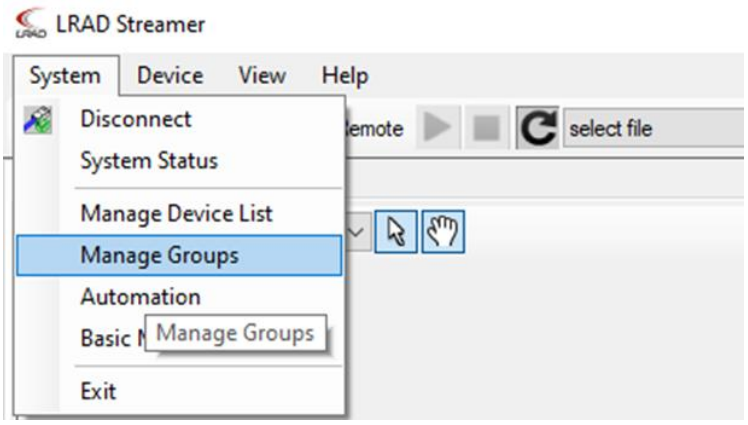
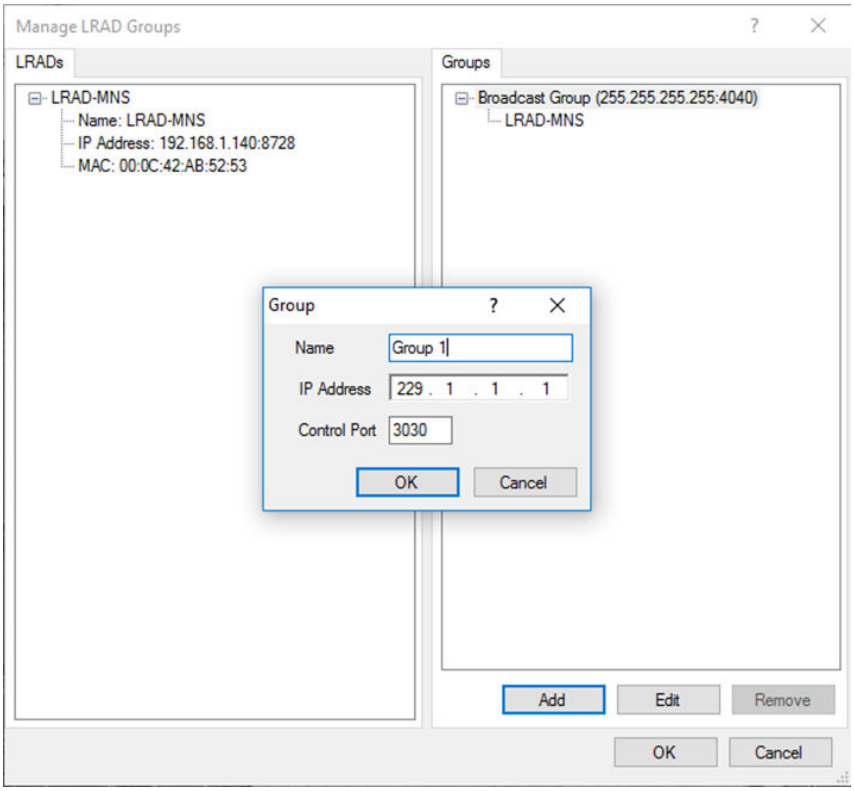
11.0 Manage Groups

Manage the groups that your devices belong to by clicking “System” then “Manage Groups”. Note: make sure all devices are connected before entering the group management dialog by clicking “System” then “Connect”.



Add new groups by clicking the “Add” button and setting the group name, IP address, and control port. Note: the multicast IP address range is from 224.0.0.0 to 239.255.255.255. Use different name, IP address, and port for each group.

Click “OK” to add the new group.



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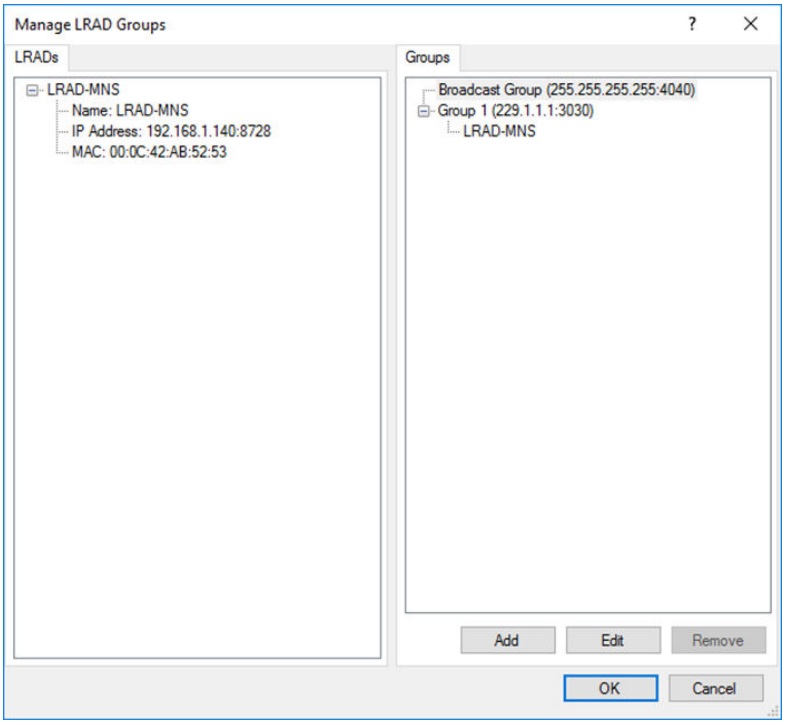
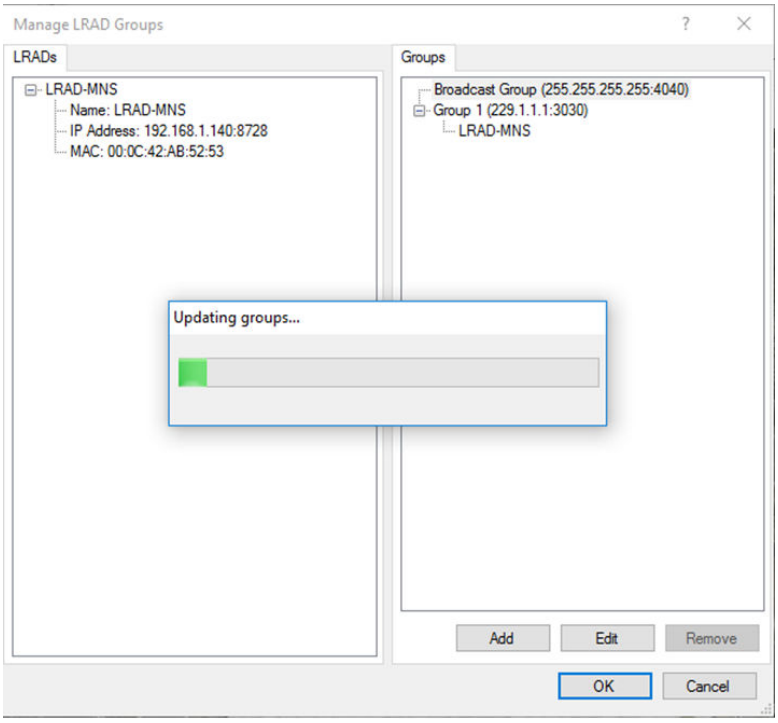
Drag devices from the “LRADs” tab to the “Groups” to assign a device to a specific group. Note: A device can only belong to two groups (excluding the Broadcast Group if not modified).
Click “OK” to store the group information.



Wait for the group information to update and the devices to reset.



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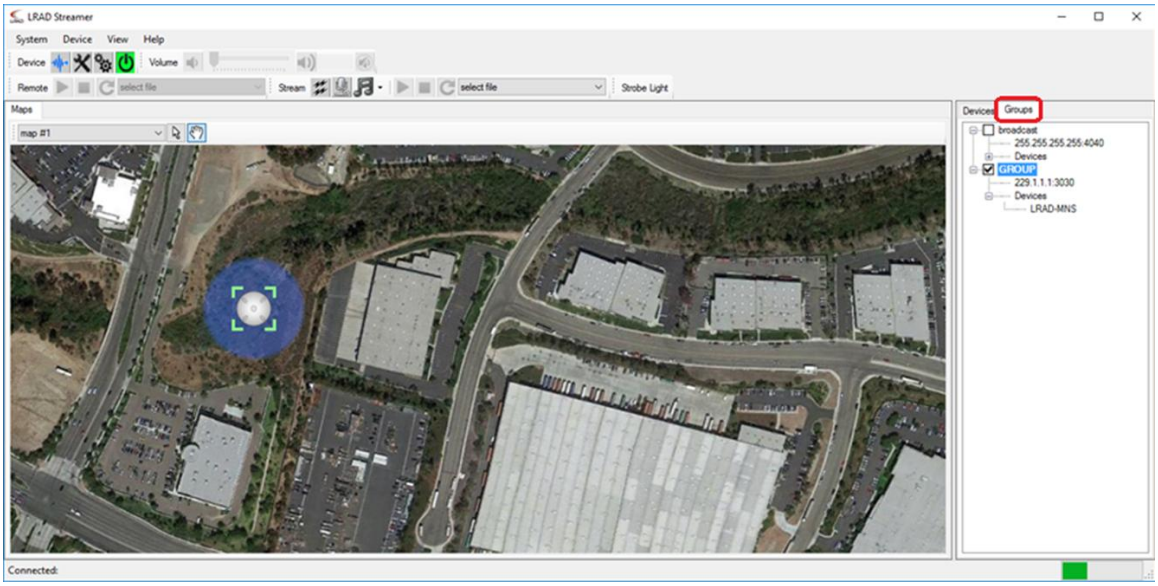
12.0 Groups Tree

- Select the “Groups” tree to send audio to groups.
- Use Ctrl-left click to select multiple groups.
- The green brackets surrounding the device icon on the map indicate that the device is in the selected group.
- Group audio can be sent via multicast or unicast routing. This feature can be changed in the Options and Settings with the Devices -> Audio Streamer -> Unicast Group Audio check box.



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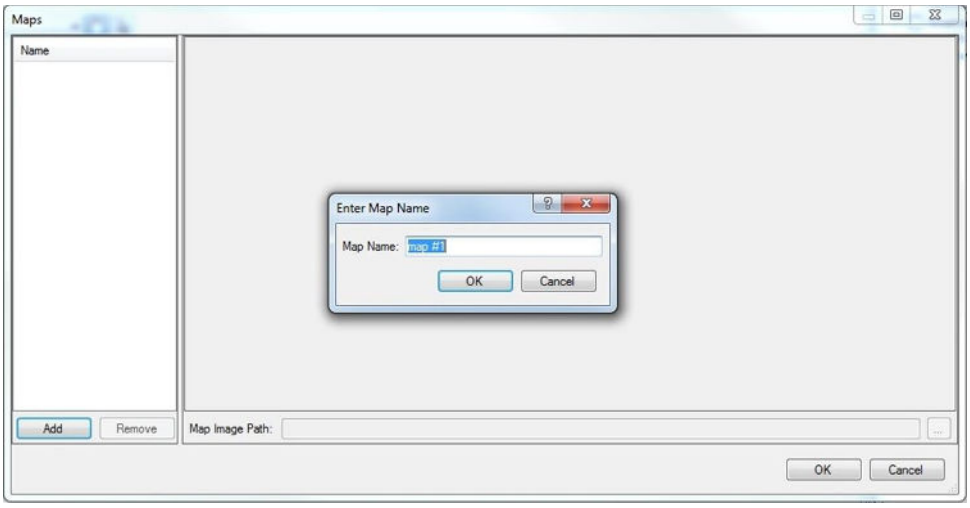
13.0 Maps

Click on the drop-down box in the “Maps” tab and select “Edit Maps…” to add maps to the software.

Click on “Add” to add a new map.

Enter the map name and click “OK”.



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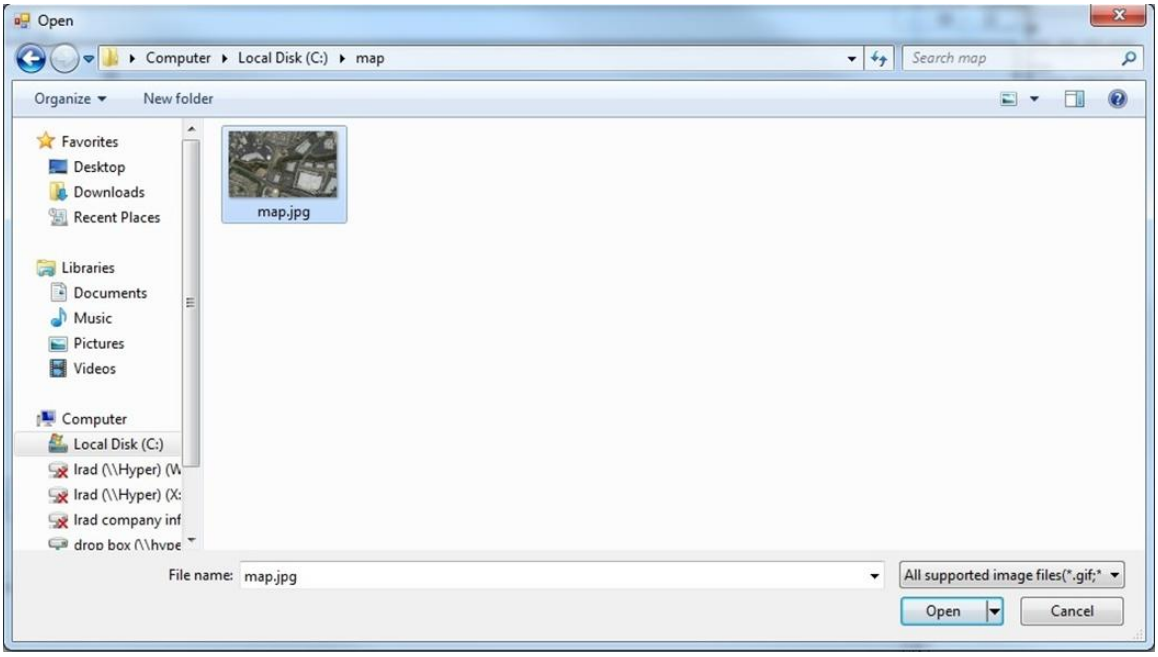
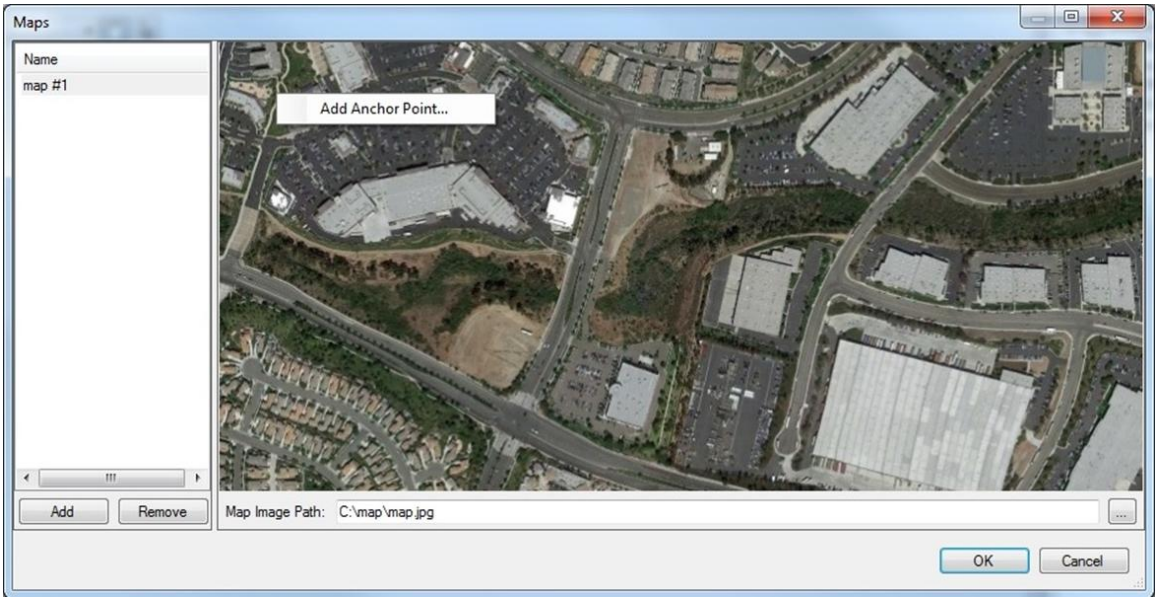
Select the map image.



Add the first anchor point by right-clicking on a map image point and selecting “Add Anchor Point…”. Note: The two anchor points should be located in opposite corners of the map for better accuracy.



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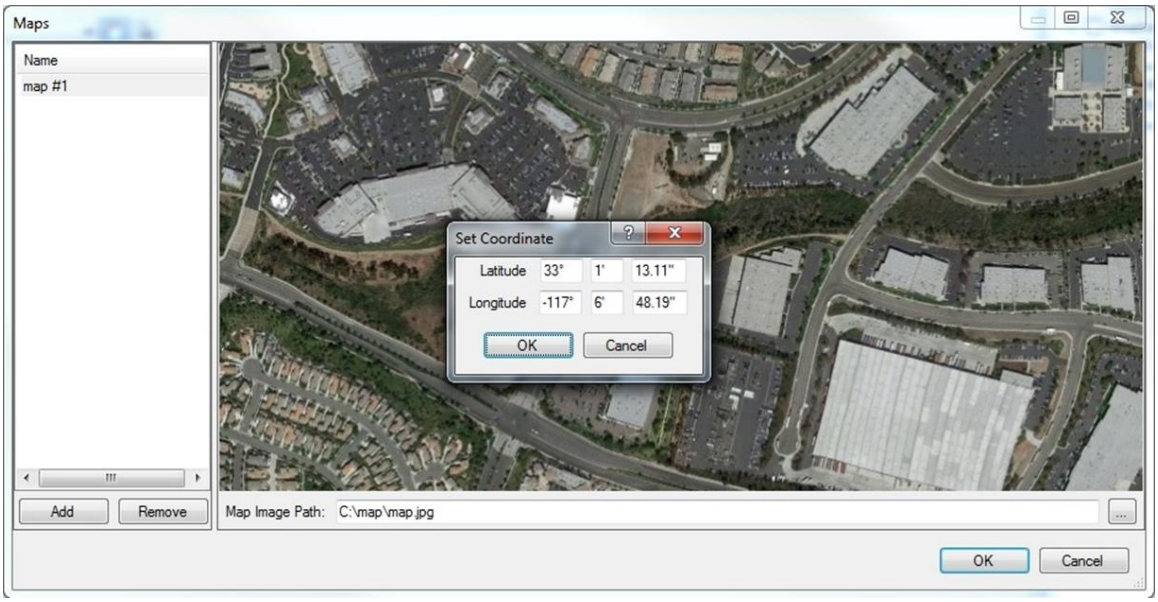
Set the coordinate for the anchor point and click “OK”. Note: Use negative latitude for south and negative longitude for west.

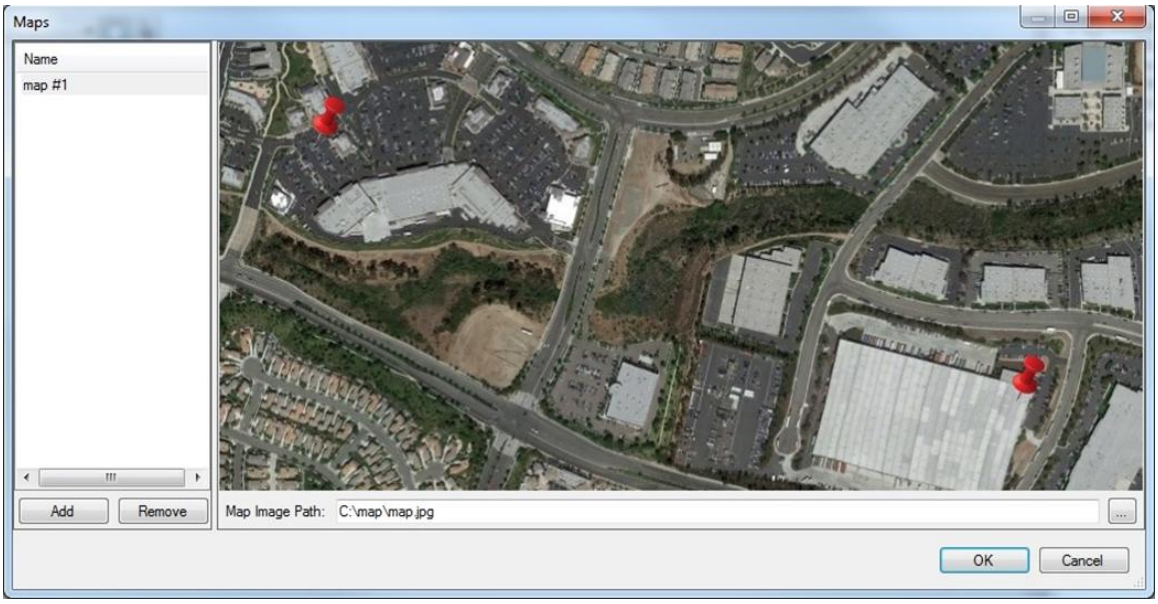


Add the second of two anchor points by right-clicking on a different map image point and selecting “Add Anchor Point…”. Set the coordinate value and click “OK”.

You should see two push-pins on your map image when you are done.

Add more maps by clicking the “Add” button and repeating the process.

Click “OK” when finished.



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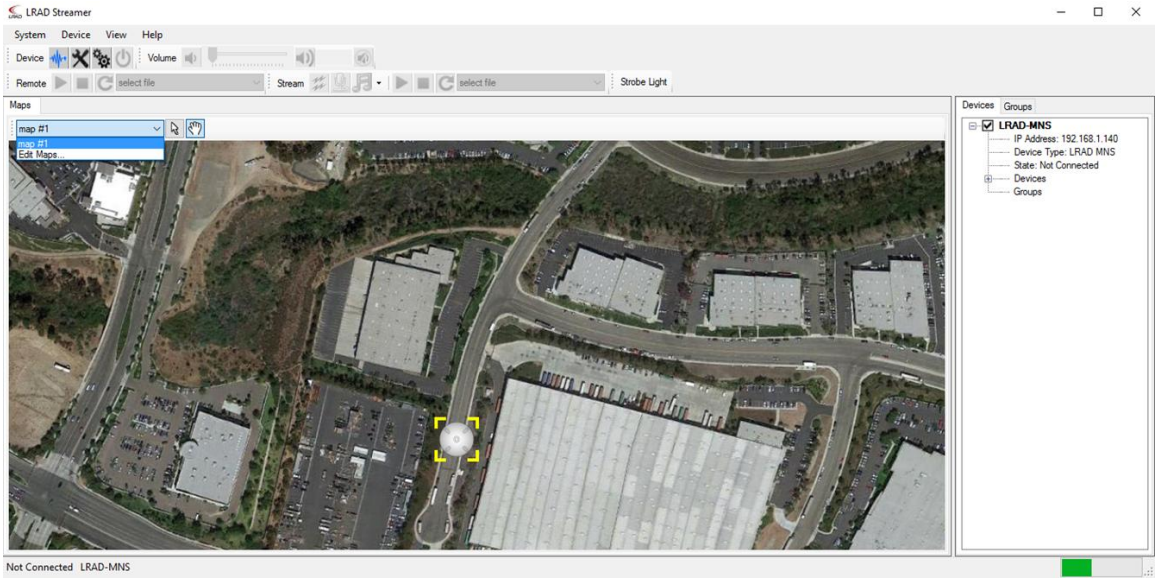
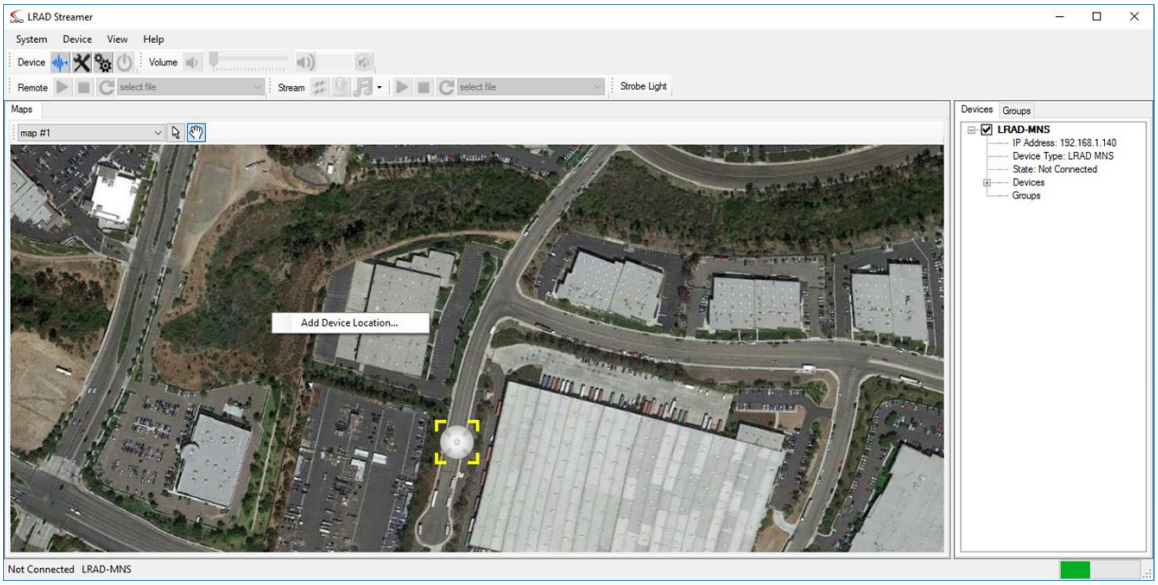
Select the map by clicking on the drop-down box in the “Maps” tab and selecting the map name.

Zoom in and out using the mouse wheel.



Set your device locations on the map by right-clicking on the map and selecting “Add Device Location…”.



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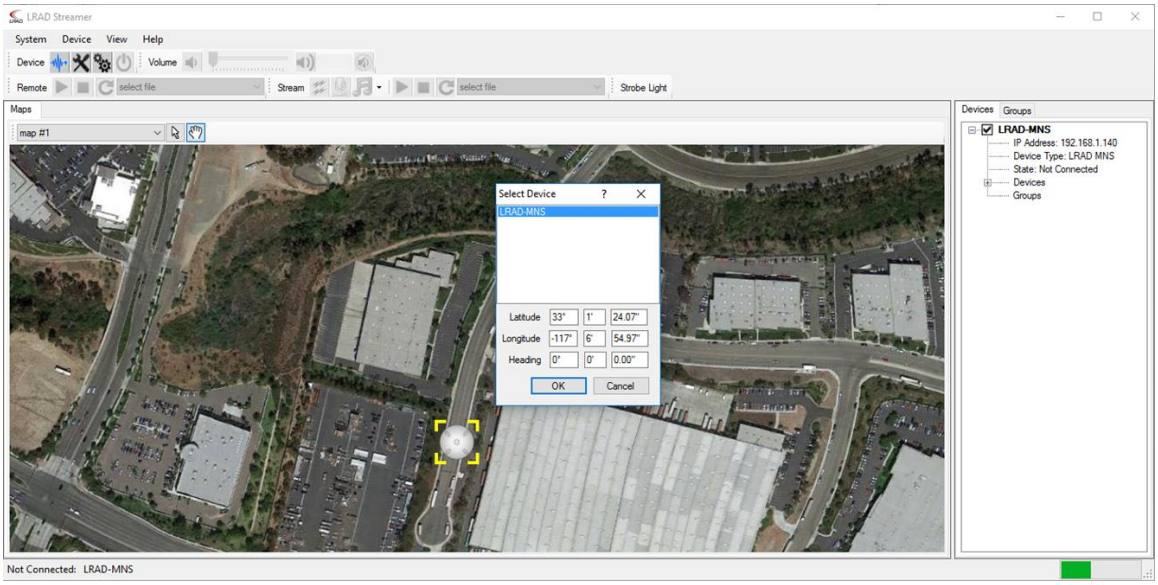
Select the device you are adding to the map and click “OK”.



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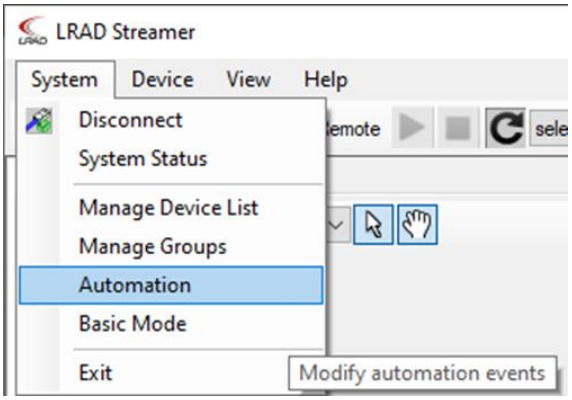
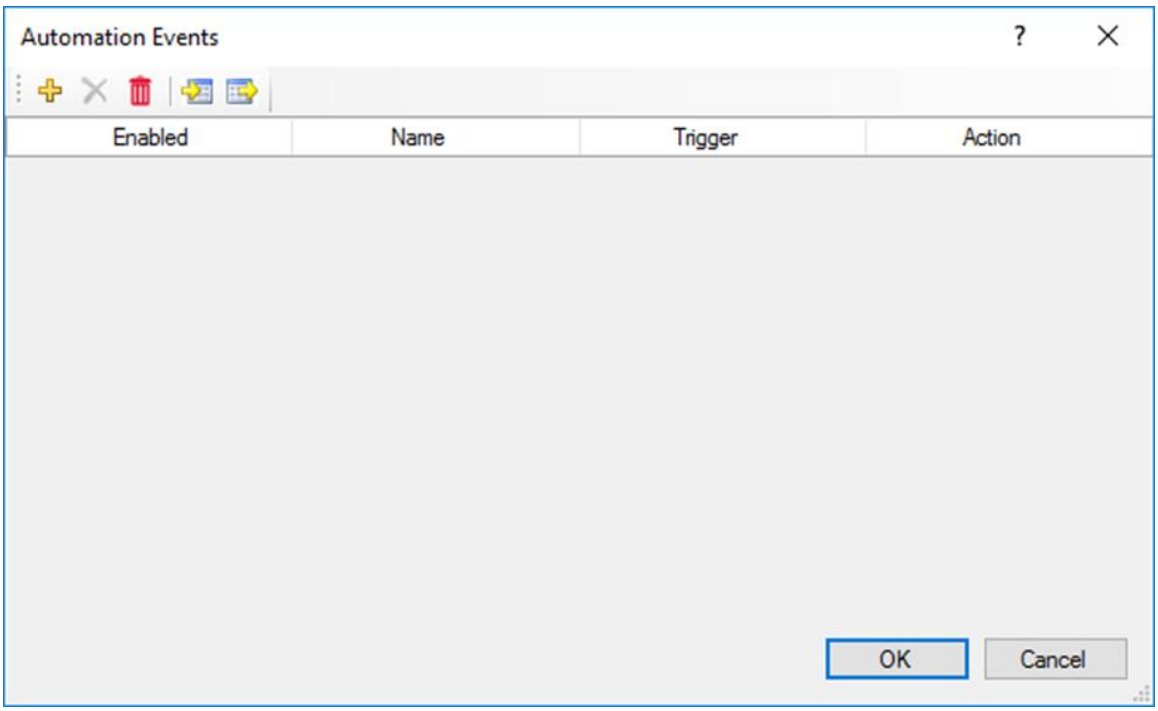
14.0 Automation

Create and manage automation actions by clicking “System” then “Automation”.
Note: make sure all devices are connected before entering the automation dialog by clicking “System” then “Connect”.



Add a new automation event by clicking the plus button.



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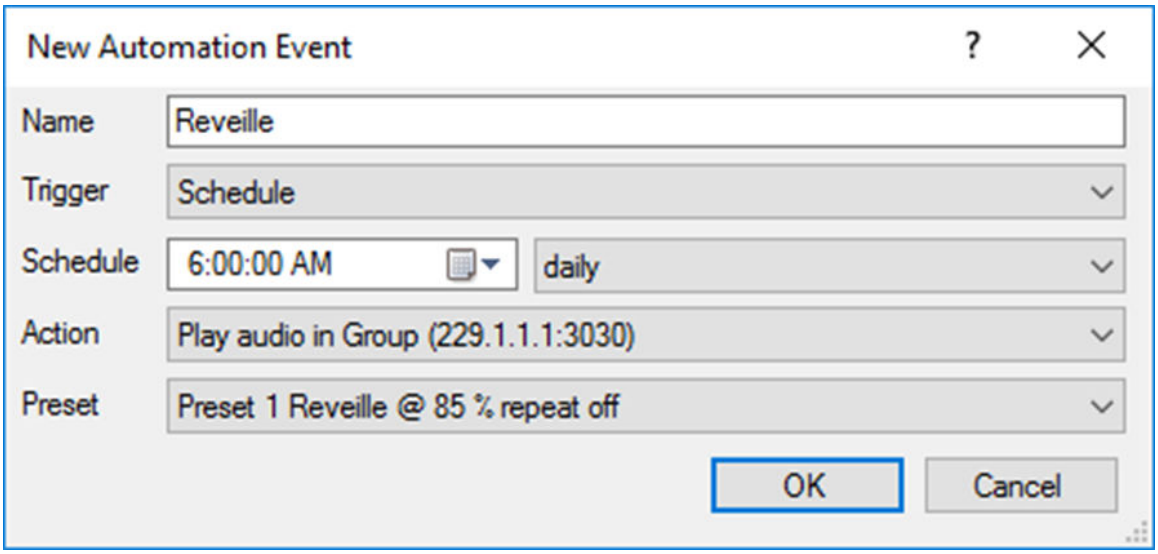
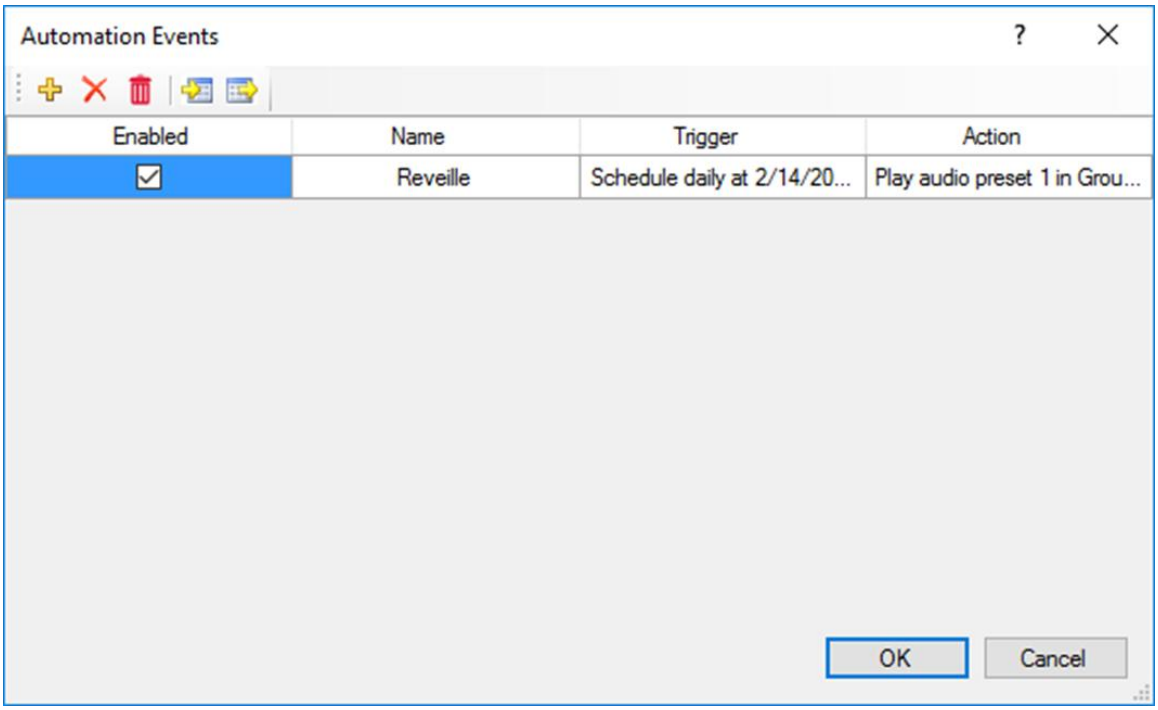
Enter the event specific information. The image below creates an event that plays preset 1 in group 229.1.1.1:3030 every day at 6:00 am. Note: device groups and audio presets must be created, and all devices must be connected prior to creating automation events.
Click OK to create the event.



Click OK to save the automation events.



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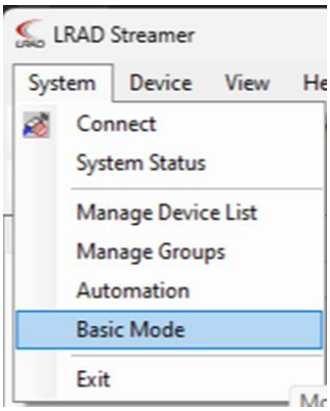
15.0 Basic Mode

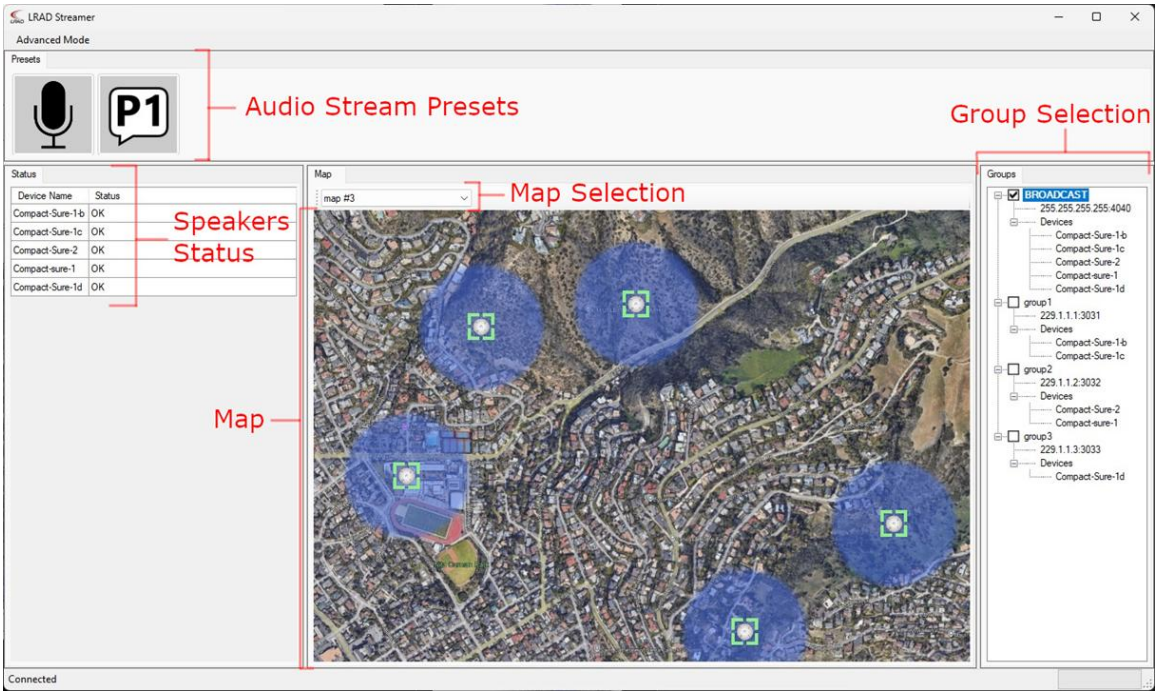
Basic Mode provides a read-only interface for standard Windows users to activate groups of speakers. Only Windows administrators can switch between LRAD Streamer advanced mode and basic mode.

Speaker groups, audio stream presets, maps, and speaker locations should be configured from the advanced mode interface before entering basic mode.

Click on System -> Basic Mode to enter basic mode.



To stream audio, select a speaker group on the Group Selection tree control and click on an audio stream preset button in the Audio Stream Presets control. The speaker status will update with the real time speaker status.



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- Group Selection: click on a group checkbox to select the speaker group on which you want to play audio.

- Audio Stream Presets: Click on an audio file preset button to start streaming audio to the selected speaker group. Click on the button again to stop streaming audio to the selected speaker group. The audio stream preset button can change the speaker volume and may repeat. Click on the microphone button (if enabled) to stream live voice from the PC to the speaker group. Click on the other buttons to stream pre-recorded messages to the speaker group.

- Speakers Status: Shows the current status of all the individual speakers. The speaker status control will change depending on what the speakers are doing.

- Map: Shows the speaker's approximate location and volume. The speakers in the selected group are indicated with square brackets around the speaker icon. Use the mouse wheel to zoom in/out on the map.

- Map Selection: Changes the map that is displayed if the LRAD Streamer is configured with multiple maps

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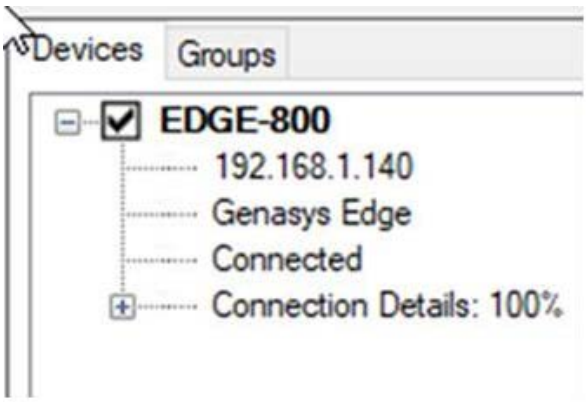
16.0 Firmware Update

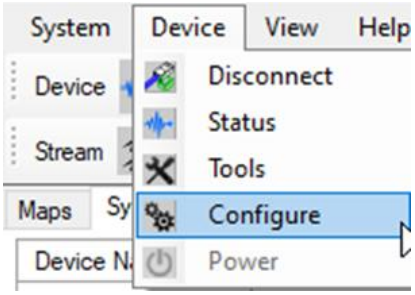
- It is highly recommended that you connect your computer directly to the LRAD before performing the firmware update (that is, performing the firmware update over a remote network is not recommended).
- Do not remove power from the LRAD during the firmware update process.
- Do not close the software during the firmware update process.
- Select the device you want to update the firmware in the devices list.



LRAD Streamer

LRAD Controller

- Click on the “Device” menu item and select “Configure”.



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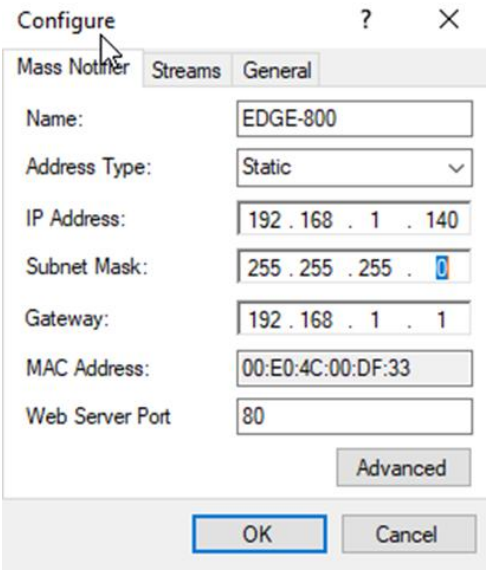
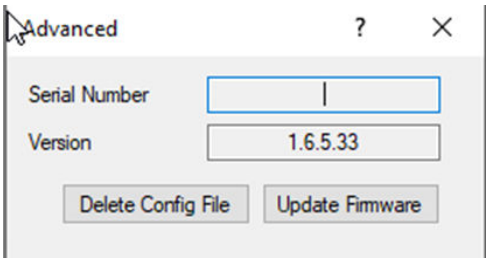
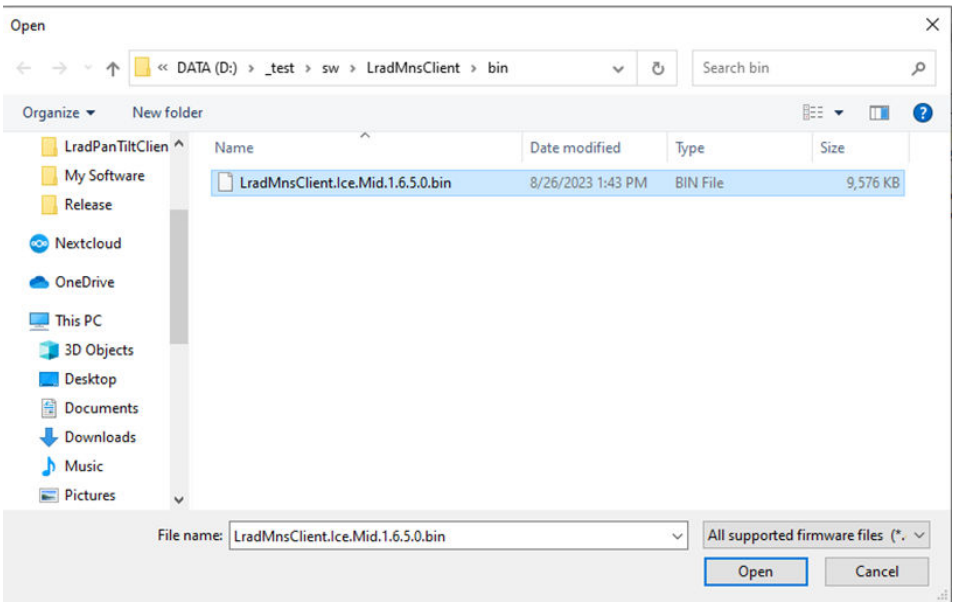
- Click on the “Advanced” button.



- Click on the “Update Firmware” button.



- Browse for the new firmware and click the “Open” button.



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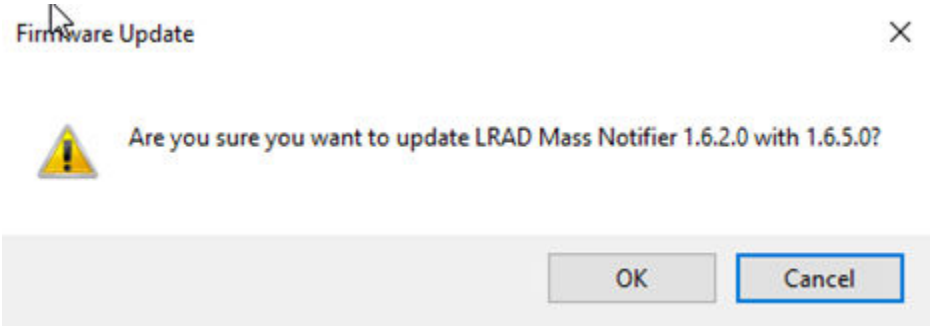
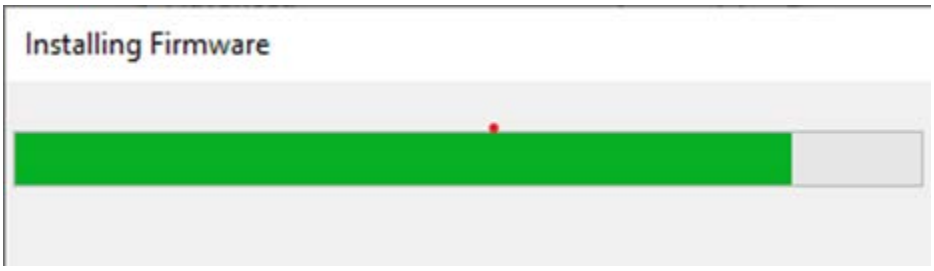
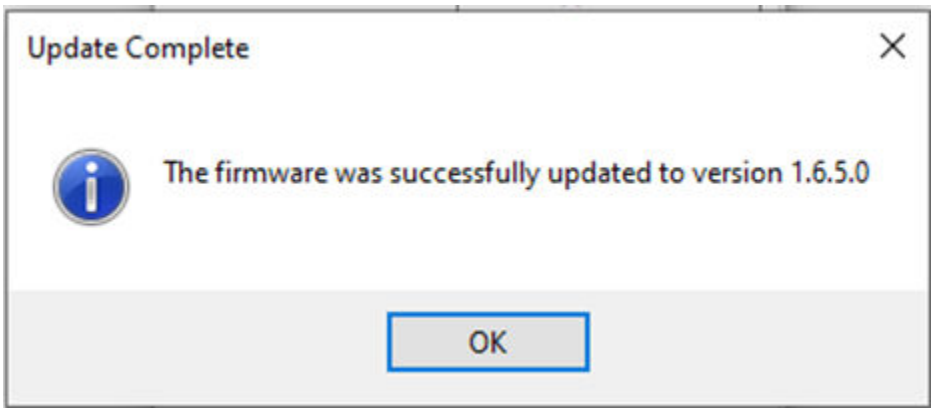
- Click “OK” to start the firmware update.



- Wait for the update to complete.



Click “OK” when the update is complete.



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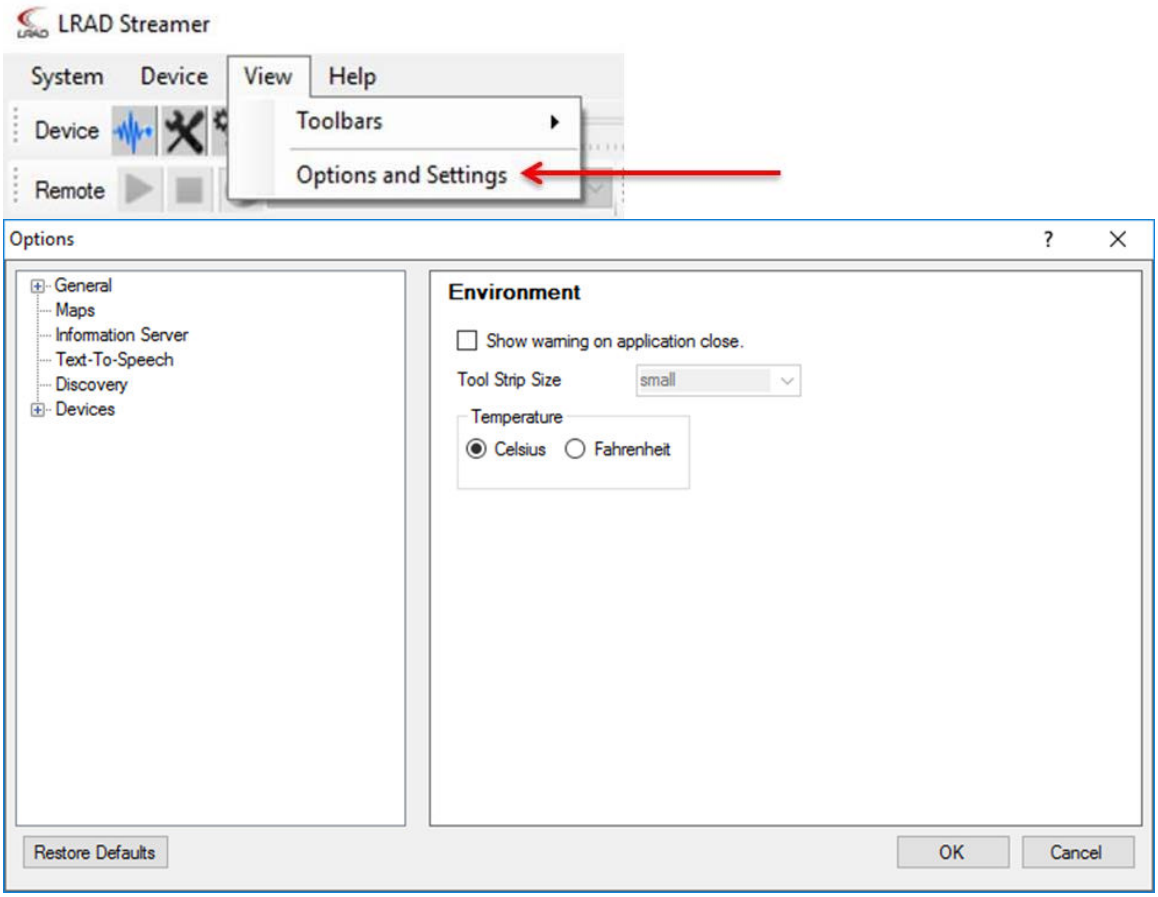
17.0 Options and Settings

To access the LRAD Streamer options and settings, from the main menu, click on View and then 'Options and Settings'.



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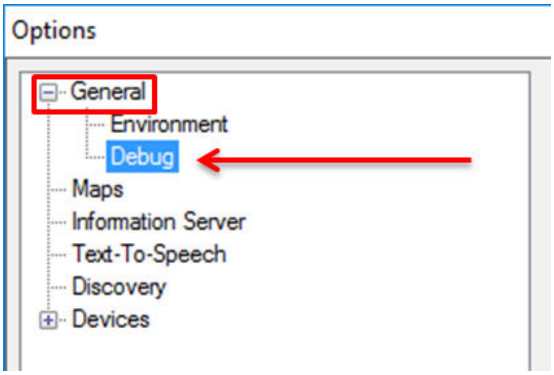
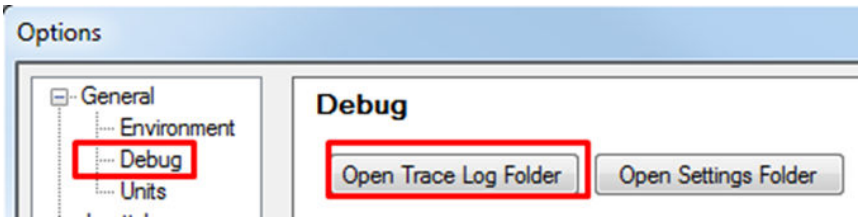
17.1 TraceLogLocal.txt File

The TraceLogLocal.txt file contains debug information that is useful for LRAD support. Here's how to locate the file:

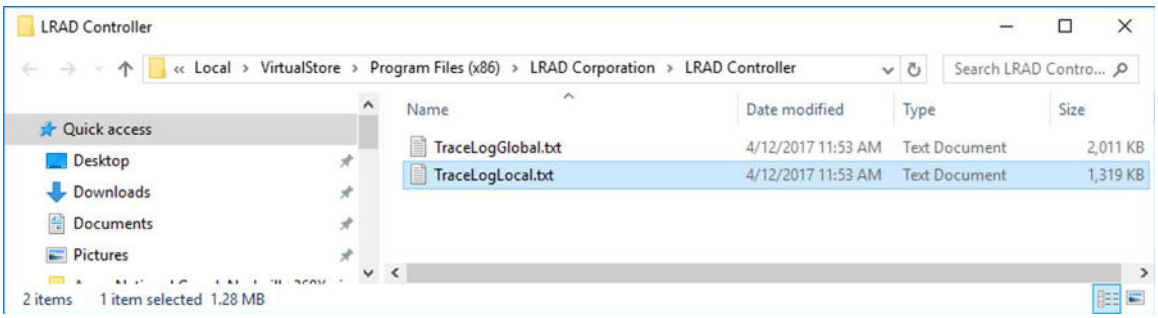
- Expand the General tree node and click on Debug in the Options dialog.



- Click on the Open Trace Log Folder button.



- A Windows File Explorer window should appear containing the TraceLogLocal.txt file



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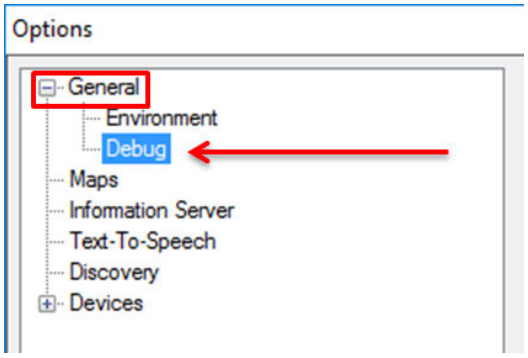
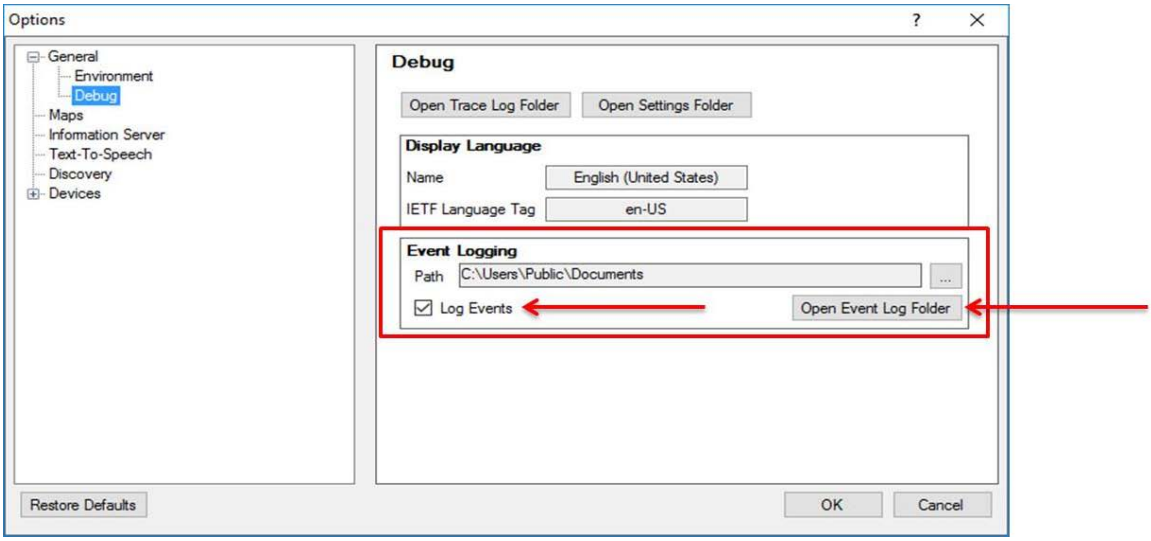
17.2 Event Logging

- Expand the General tree node and click on Debug in the Options dialog.



- Click on the Log Events check box to enable event logging.
- Click on the Open Event Log Folder to view the folder where the event logs are stored.



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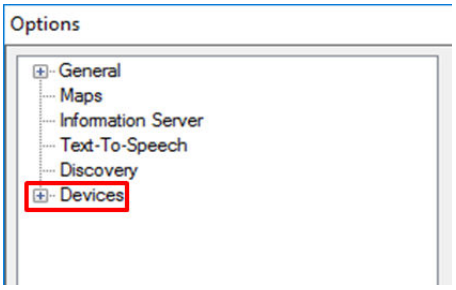
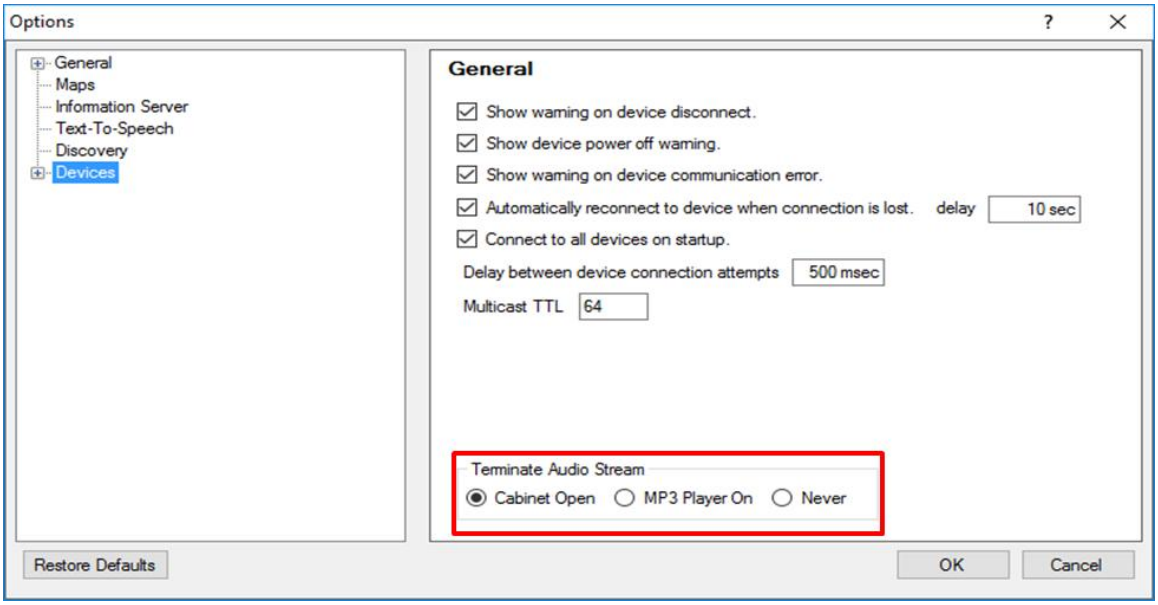
17.3 Maintenance Lockout

- Click on the Devices tree node in the Options dialog.



- Change the Terminate Audio Stream option:
  - Cabinet Open: stops audio playback when the cabinet door is open.
  - MP3 Player On: stops audio playback when the MP3 player is on.
  - Never: does not stop audio playback.



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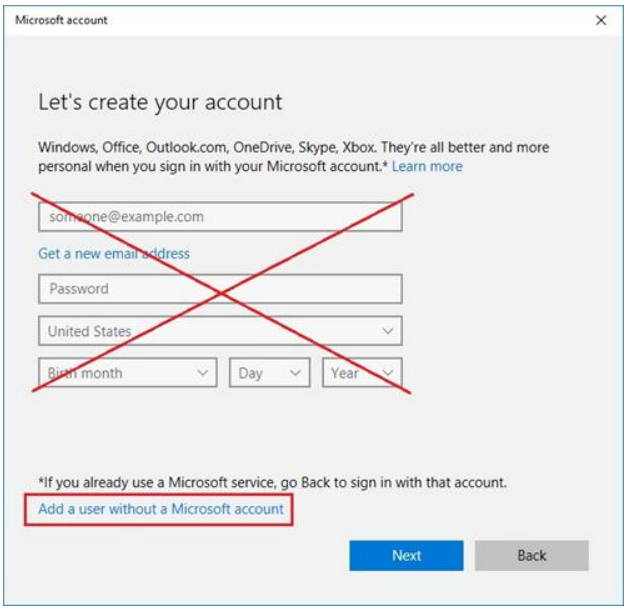
18.0 Multi-user Interface

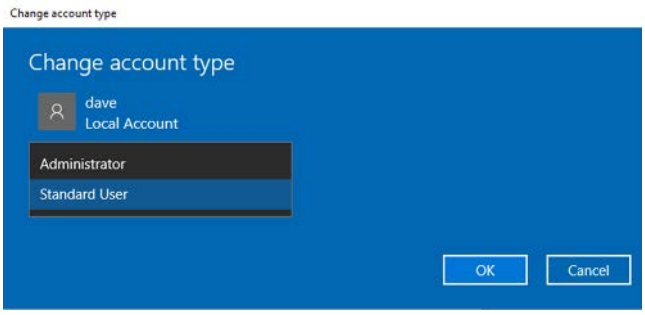
18.1 Windows 10:

Access to LRAD Streamer features can be restricted on standard Windows users if the multi-user interface is enabled in the LRAD Streamer software.
Users can be added to Windows 10 as follows:

- Open the Settings Windows store app.
- Click on “Add someone else to this PC”.
- Click on “I don’t have this person’s sign-in information”.
- Click on “Add a user without a Microsoft account”.
- Enter the user information and click “Next” to finish creating the new user.



- Select the user and click “Changed account type” to modify the user access.
- Select the level of access to grant the user and click OK.



18.2 Windows 7

Access to LRAD Streamer features can be restricted on standard Windows users if the multi-user interface is enabled in the LRAD Streamer software.

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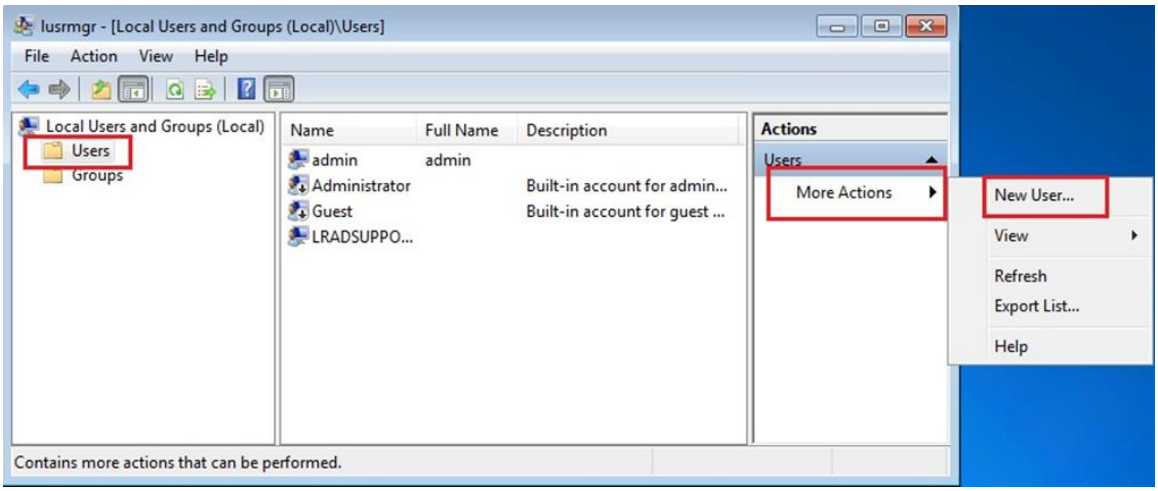
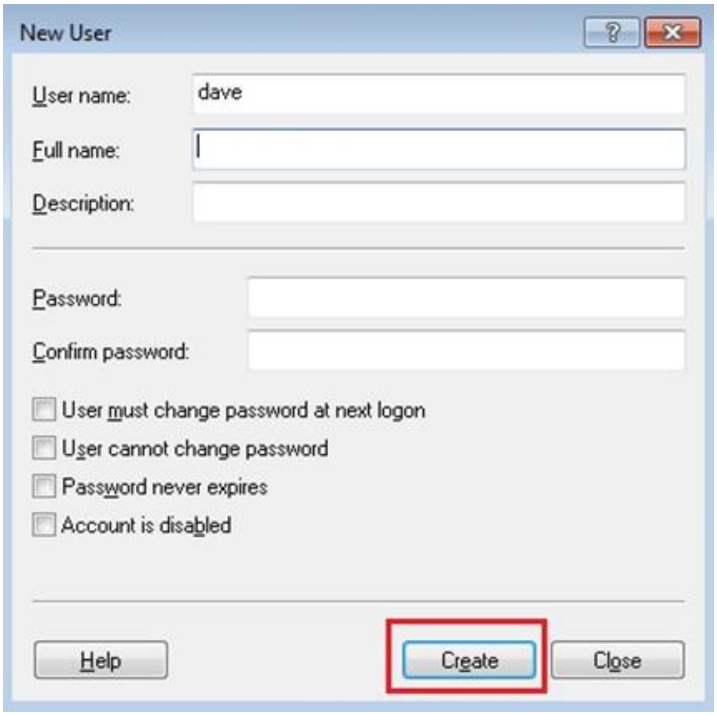
Users can be added to Windows 7 as follows:

- Type “Edit local users and groups” in the Windows Start menu search bar.
- Select the “Users” folder.
- Select “New User…” in the “More Actions” section.



- Enter the user information and click “Create”.



Windows 7 user access can be modified as follows:

- Launch Windows “Control Panel”.
- Click on “User Accounts”.
- Click on “Manager User Accounts”.
- Click on the account whose access you want to modify.

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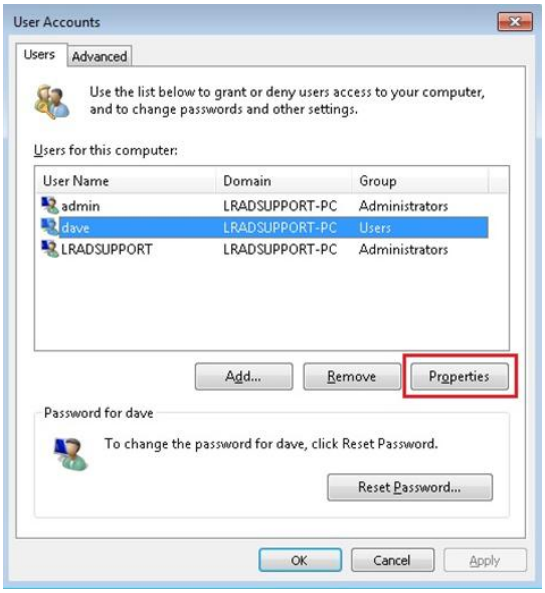
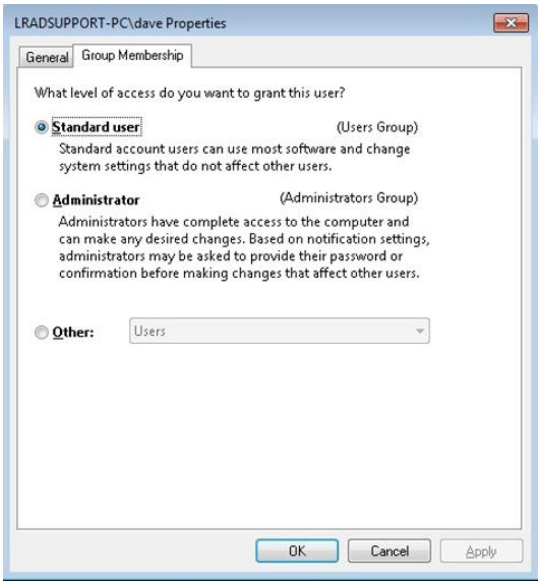
- Click on the “Properties” button.



- Click on the “Group Membership” tab.
- Select the level of access to grant the user and click OK.



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