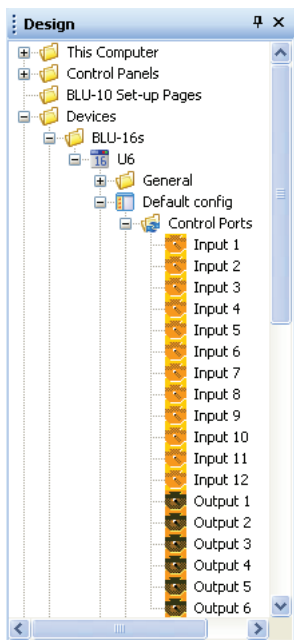
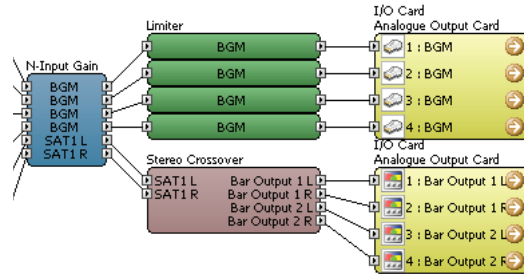


How do I create a Fire Alarm Mute?

Interfacing Soundweb London with a fire alarm system is a common application. This is typically achieved by connecting a dry normally closed relay from the fire alarm system to a Control Input on a Soundweb London device. If the connection fails or the fire alarm system is triggered, the Control Input to the Soundweb London will change state. Programming the desired functionality can be achieved by several different methods. These methods generally fall into two categories - System Mute or Alternate Audio Source. Which method you use is at the discretion of the local fire authority, but usually it is the System Mute variation.

System Mute

In this example we have placed an N-Input Gain at the output of the signal chain. The Master Mute in this object will be used to mute all the audio in this device. If you have multiple outputs on multiple devices, make sure to link all the Master Mutes to create a Fire Mute Link Group. For more information on creating Link Groups, view the guide on the BSS Audio User Groups or download from the BSS Audio web site.



Remember: When using controls in a Link Group, any one of the controls can be attached to a port in order to control the entire Link Group.

Open the default control panel for the N-Input Gain.

Open and expand the Design Tree to show the control ports of the device we are connecting to. Note: This does not have to be the device containing the N-Input Gain; it can be any device on your network.

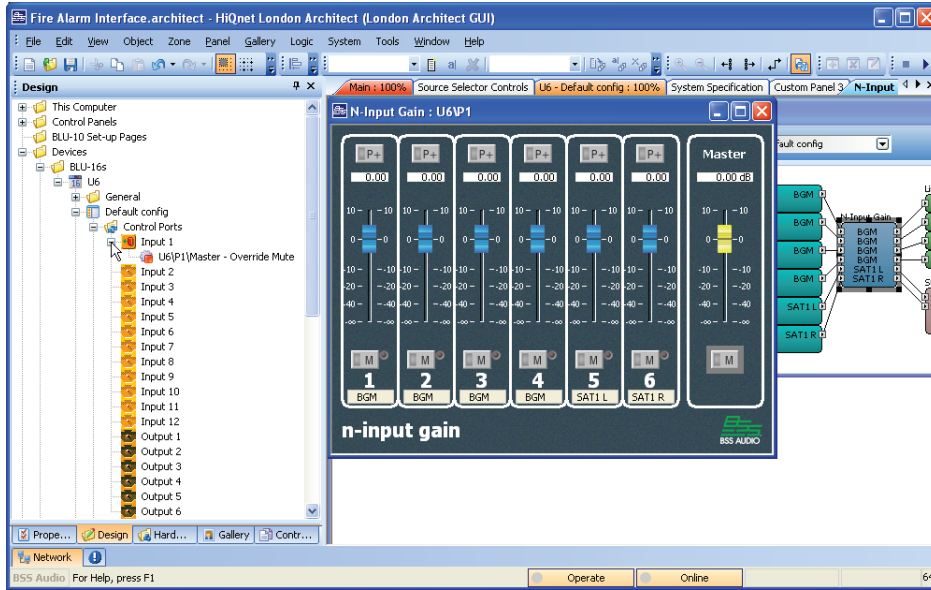
Once the Design Tree is expanded to the correct location, pin it open so that it will remain on the desktop.



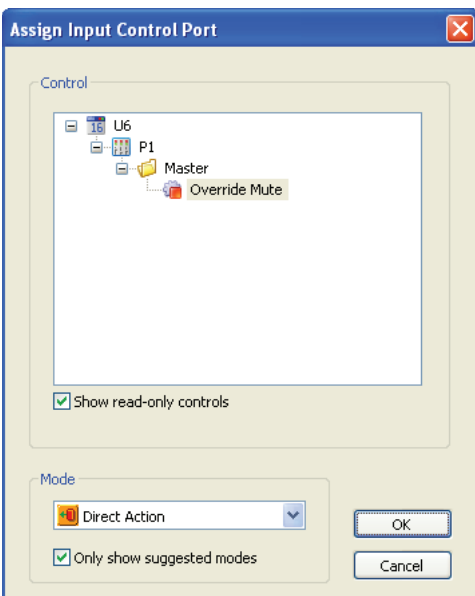


How do I create a Fire Alarm Mute?

Navigate back to the N-Gain default control panel. Click and drag the master mute from the control panel over to the Design Tree and drop it on the Control Input that we are connecting to the Fire Alarm system.



This will open a dialog box for configuring how this control will be attached to the port. There are three options - Direct Action, Inverted Direct Action and Toggle Action. You will use Direct Action or Inverted Direct Action depending on whether the closure from the Fire Alarm system is normally open or normally closed.



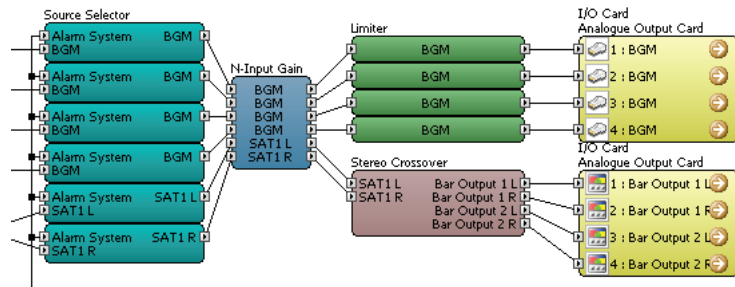
Ideally in this type of application the Fire Alarm system would be providing a dry contact in the closed condition that would fault to the open state during alarm. If this is the case, you will choose Inverted Direct Action when attaching the mute button to the port. If the system goes into alarm, the cable comes unplugged or the wire is cut, the system will mute, indicating a problem or alarm.

How do I create a Fire Alarm Mute?



Alternate Source Selection

In the example file, we have placed 2x1 Source Selectors on each output signal chain. These need to have only two states (the two states



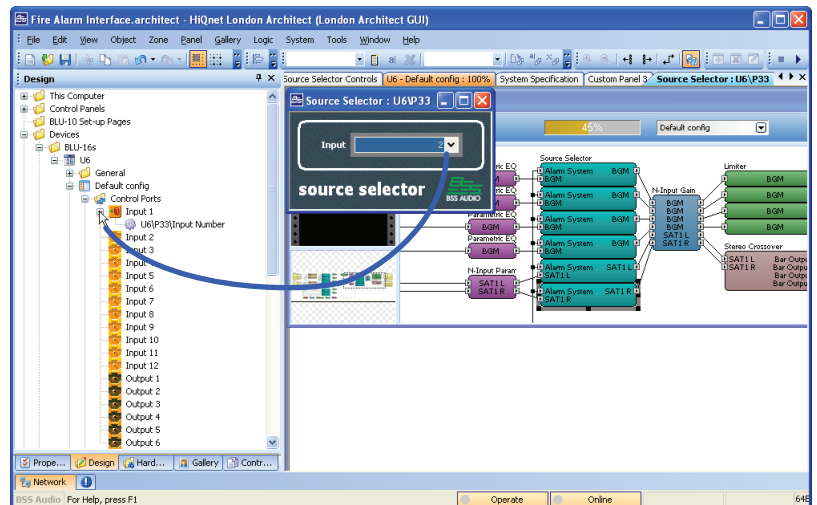
of the control port), so make sure the "Allow None" property of the Source Selectors are set to "No". The first input on this Source Selector is the audio signal from the Fire Alarm system. The second input of each Source Selector is the audio signal for each zone.

All of these source selectors need to be part of the same Link Group so they function as one control. Create a Link Group containing all of the Source Selectors.

Open and expand the Design Tree to show the control ports of the device connected to the Life Safety system. Once the Design Tree is expanded to the correct location, pin it open so that it will remain on the desktop.

Open the default control panel of one of the Source Selectors.

Click and drag the selection box over to the Control Input in the Design Tree that the Fire Alarm system is connected to.



Note: You can also click and drag the Control Input from the Design Tree and drop it on a control in a panel to make the assignment.

This will open the Control Port Assignment dialog box. For this control, there are two options for attaching to the control port - Analog or Multi-State. Analog uses a single Control Input, while Multi-State spans the control across multiple Control Inputs. For this application, choose Analog. You may have to swap the inputs on the source selector, depending on whether the fire alarm system is providing a normally open or normally closed contact.



How do I create a Fire Alarm Mute?

This page intentionally blank