EASTERN ACOUSTIC WORKS

UX/UXA Quickstart Guide

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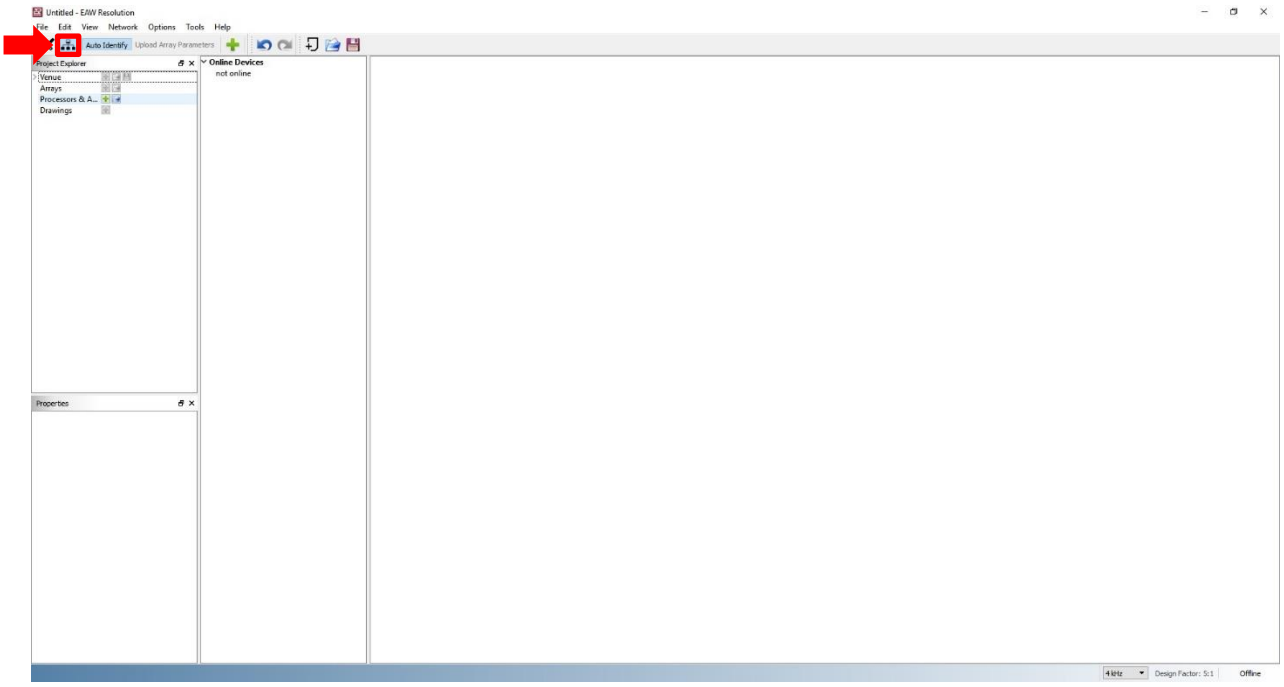
Going Online (UX/UXA Processors & Amplifiers)

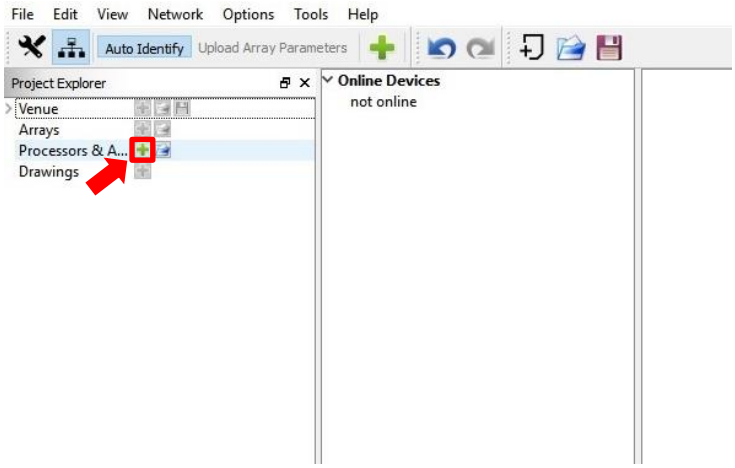
Before going online, assure the computer being used is connected to the same Ethernet network as the UX/UXA units. Two network cables will need to be connected to the processors/amplifiers for Control and DSP (one to the ETHNET port, the other to one of the DANTE ports).

NOTE: If processors/amplifiers are on a DANTE Network consisting of more than 2 multicast flows, communication issues may occur. As such, the UX/UXA products are only supported on DANTE networks with 2 or less multicast flows. Also important, is though these products may receive DANTE input signal, they do not support DANTE output (i.e. cannot be used as an onramp).

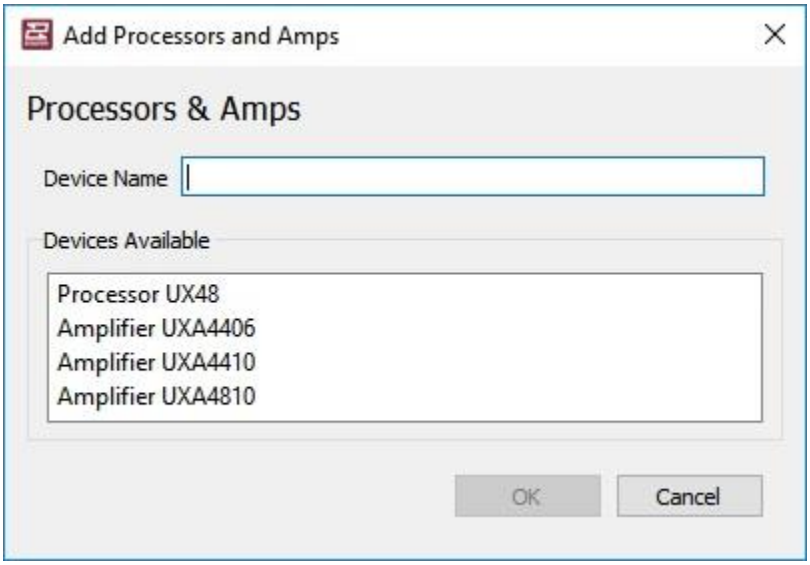
When first opening Resolution, start by switching to **Network Configuration View**.



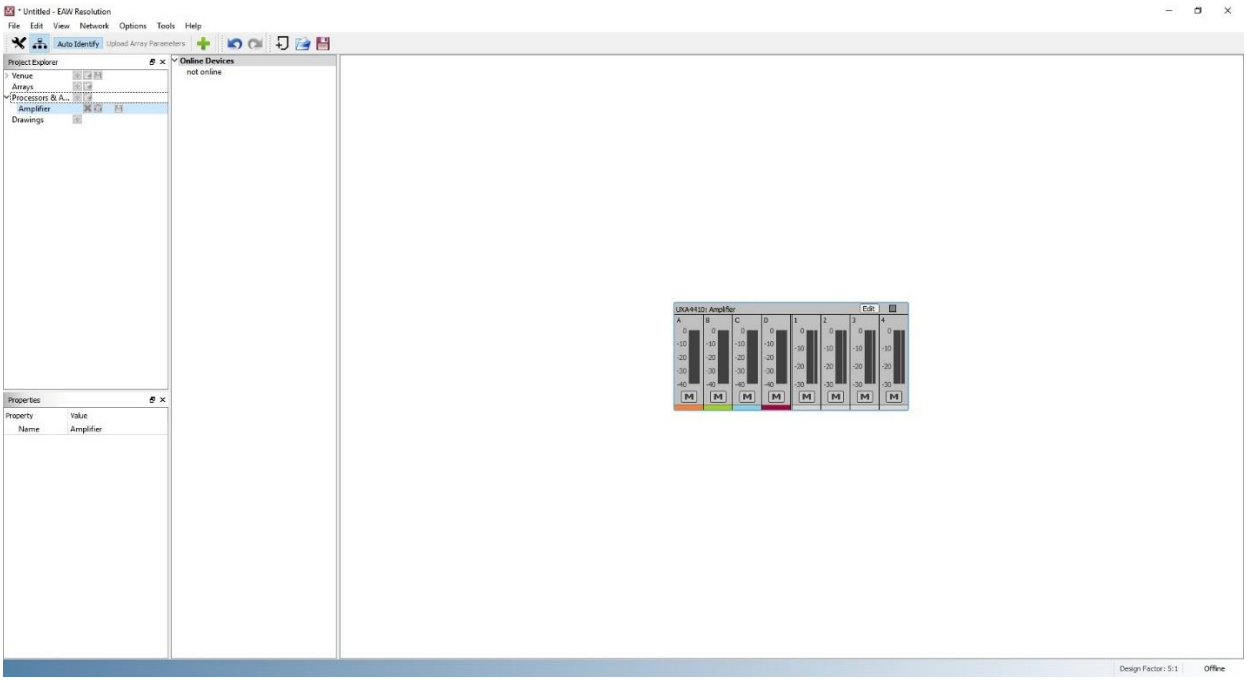
To add a processor or amplifier to the system, click on the “+” symbol next to **Processors & Amplifiers** in the Project Explorer window.



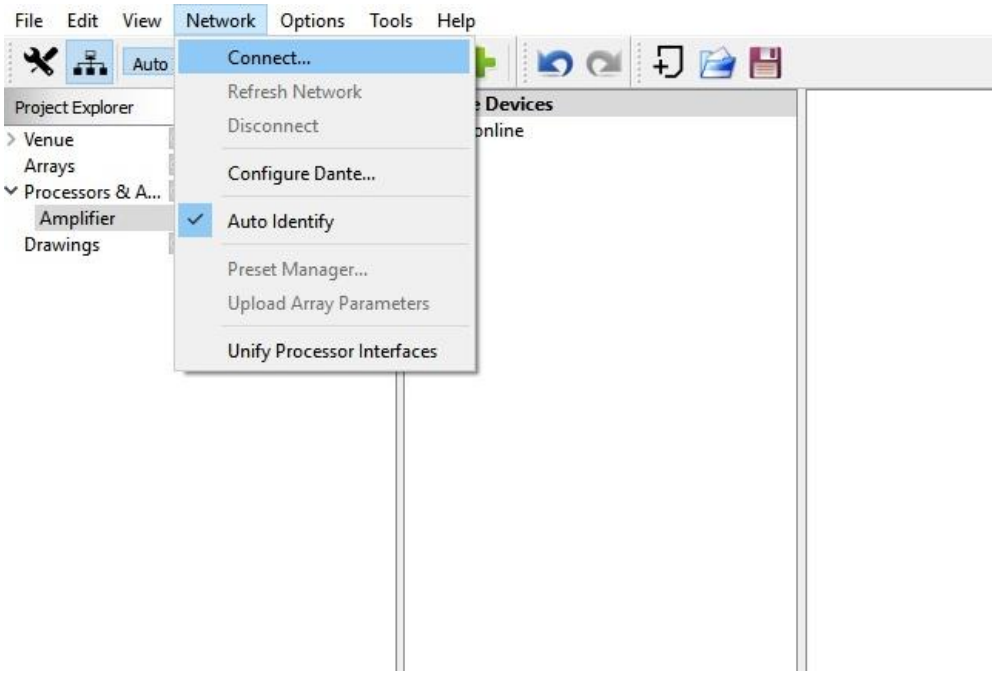
Upon being prompted, choose a name and a product from the devices available. Click “OK” once complete.



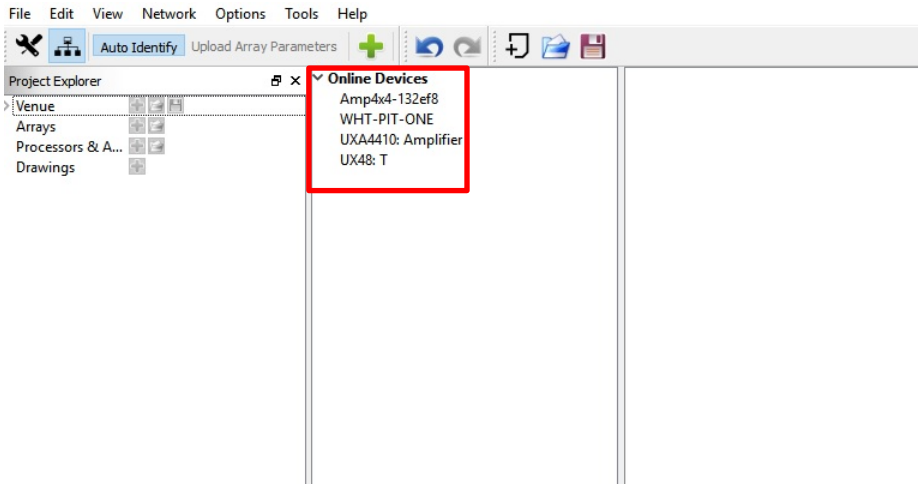
The selected device will now be loaded into the system. In this case, as offline.



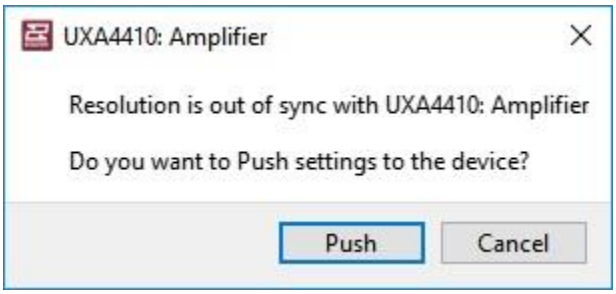
To connect the processor or amplifier to the system, start by clicking **Network** > **Connect**.



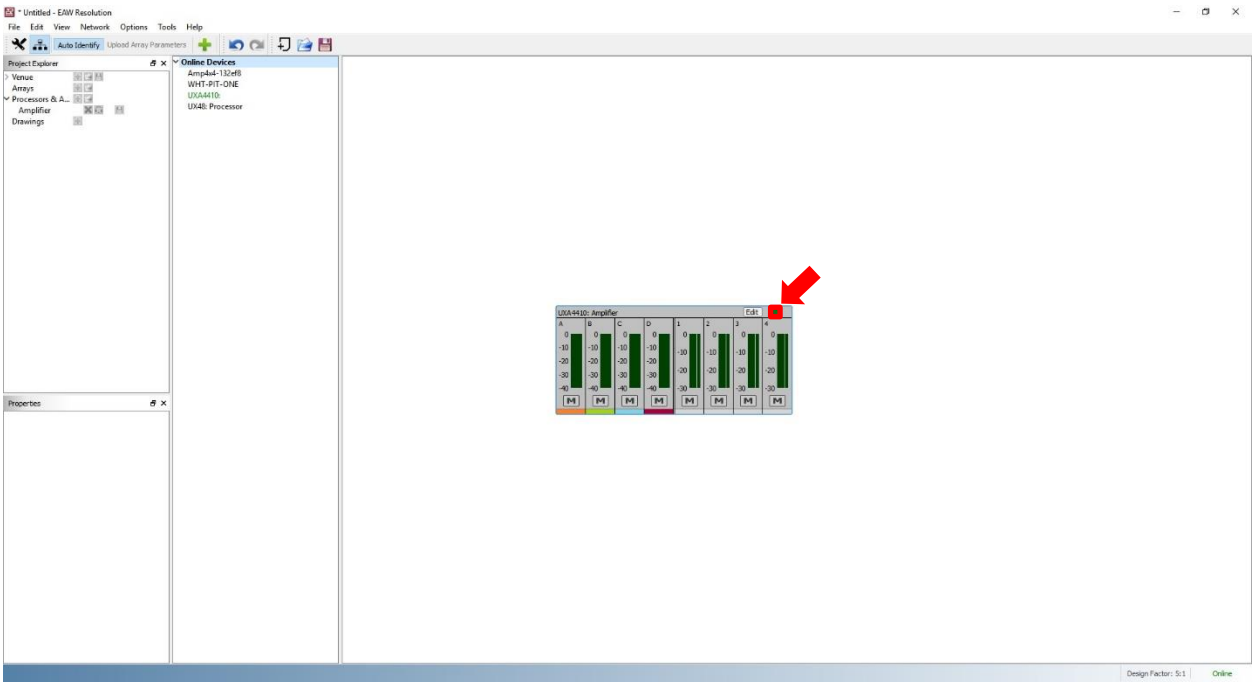
After a quick scan, all available products will now appear listed under **Online Devices.** Click and drag each detected device, and drop it over the top of previously set up offline devices.



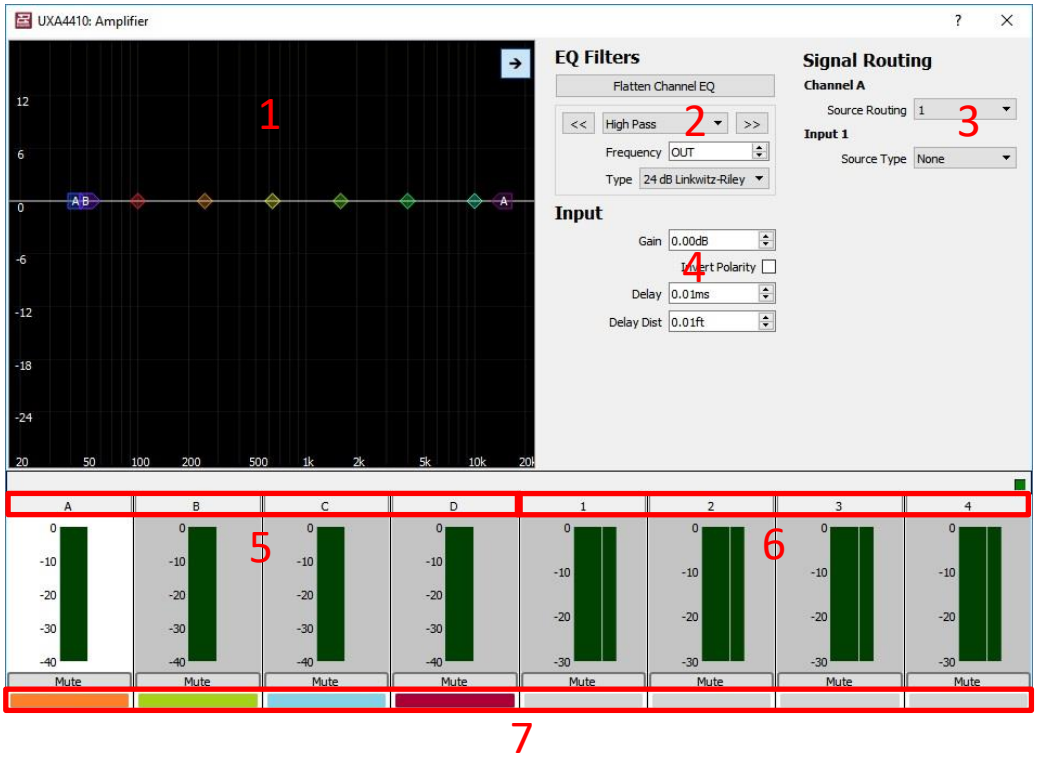
A prompt may appear if Resolution is not in sync with the device. Choose whether to push the Resolution settings to the device, or cancel to use the last known settings.



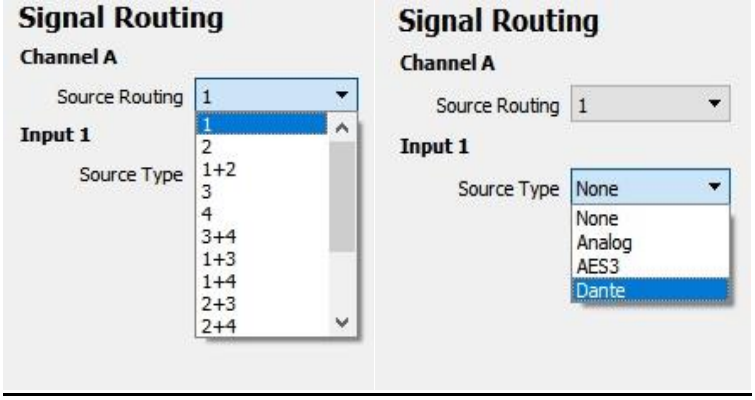
At this point, the device is online and ready to use in the system (as indicated by the green light).



UX/UXA Input Section

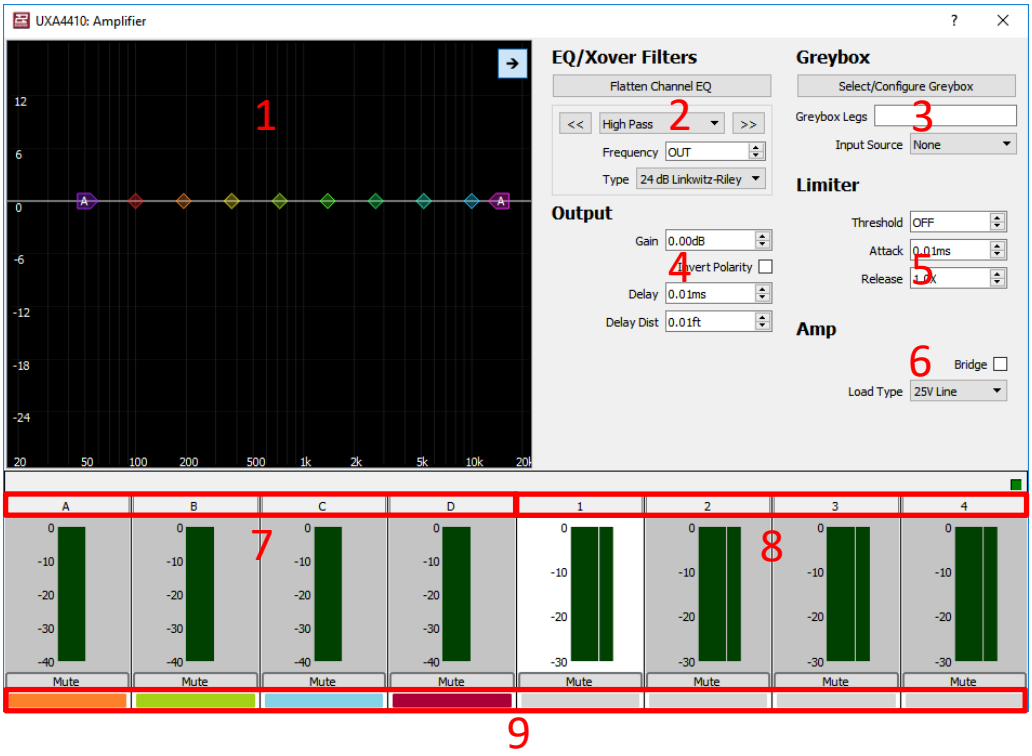


1. **<u>EQ/Filter Graphic Window:</u>** Click and drag functionality to control Low Shelf Filters, (5) PEQ Filters, and an FIR Hi Shelf Filter. Clicking the right facing arrow at the top corner expands and hides the detail pane.
2. **<u>EQ/Filters Section:</u>** Manually adjust settings for all Filters. Use << >> buttons to navigate from one band to the next. There is an additional pull-down menu to choose type of filter, with an option to disable the FIR High Shelf to reduce latency (this filter is disabled by default).
3. **<u>Signal Routing:</u>** Assign input sources to input channels, or combine input sources to a single input channel. Select an input source type between Analog, AES3, and Dante *(See both pull-down menus below).*

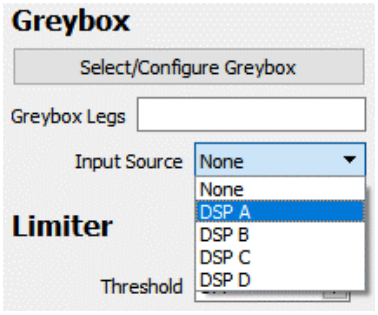


4. **<u>Input Section:</u>** Adjust gain, invert polarity, and set delay or delay distance.
5. **<u>Input Channels:</u>** Signal meters and channel labels. To change a channel label, double click on the default letter/number and type in a friendly name.
6. **<u>Output Channels:</u>** Signal meters and channel labels. To change a channel label, double click on the default letter/number and type in a friendly name.
7. **<u>Input/Output Color Indicators:</u>** An easy method to distinguish which outputs are utilizing which input source (Assigned output channels will match the color of input channels).

UX/UXA Output Section



1. **<u>EQ/Filter Graphic Window:</u>** Click and drag functionality to control a Low/High Pass Filters, Low/High Shelf EQs, and (6) PEQ Filters. Clicking the right facing arrow at the top corner expands and hides the detail pane. Once a Greybox is loaded, only the HPF may be modified.
2. **<u>EQ/Filters Section:</u>** Manually adjust settings for all EQ/Filter bands. Use << >> buttons to navigate from one band to the next. There is an additional pull-down menu to choose type of filter. Once a Greybox is loaded, only the HPF may be modified.
3. **<u>Greybox:</u>** Load EAW Greyboxes and set Input source *(See pull down menu below).*

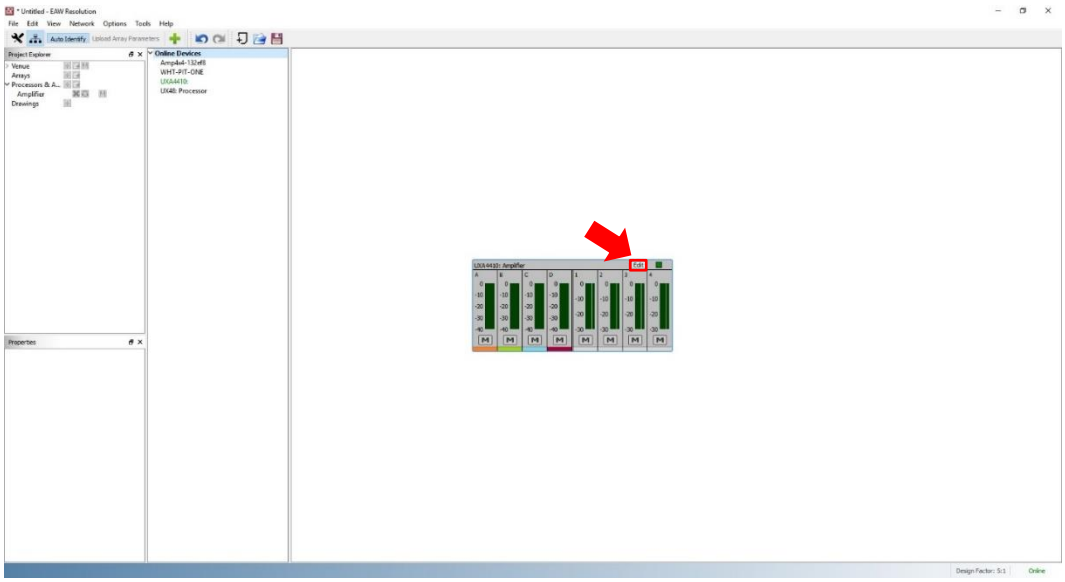


4. **<u>Output Section:</u>** Adjust gain, invert polarity, and set delay or delay distance. Unity Gain and Invert Polarity is disabled once a Greybox is loaded.
5. **<u>Limiter:</u>** Set Voltage Threshold, as well as Attack and Release times.

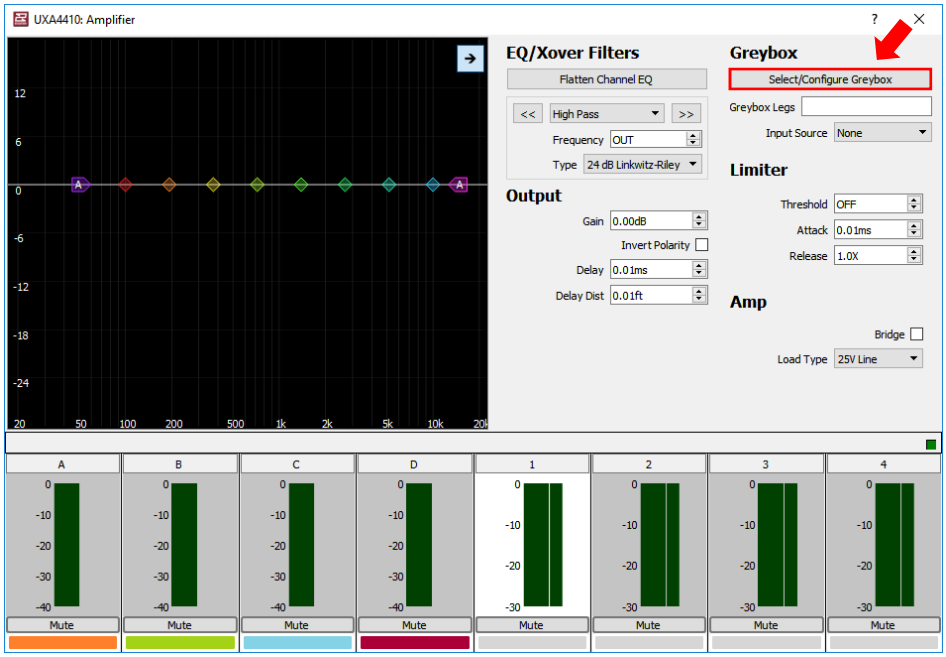
6. **Amp:** Bridge amplifier output channels and select the load type in either voltage or ohms (an *auto* option is also available).
7. **Input Channels:** Signal meters and channel labels. To change a channel label, double click on the default letter/number and type in a friendly name.
8. **Output Channels:** Signal meters and channel labels. To change a channel label, double click on the default letter/number and type in a friendly name.
9. **Input/Output Color Indicators:** An easy method to distinguish which outputs are utilizing which input source (Assigned output channels will match the color of input channels).

Loading Greyboxes (UX/UXA Processors & Amplifiers)

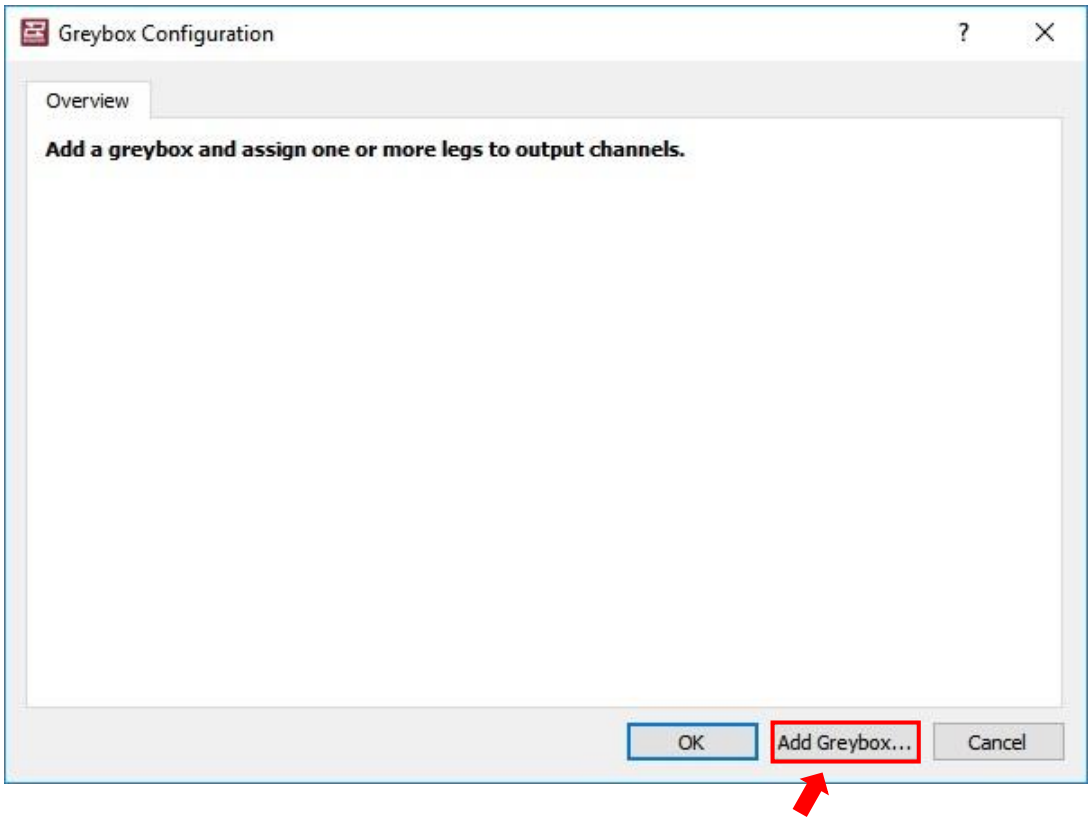
To load a Greybox onto one of the UX/UXA devices, click the **Edit** button to open the edit window.



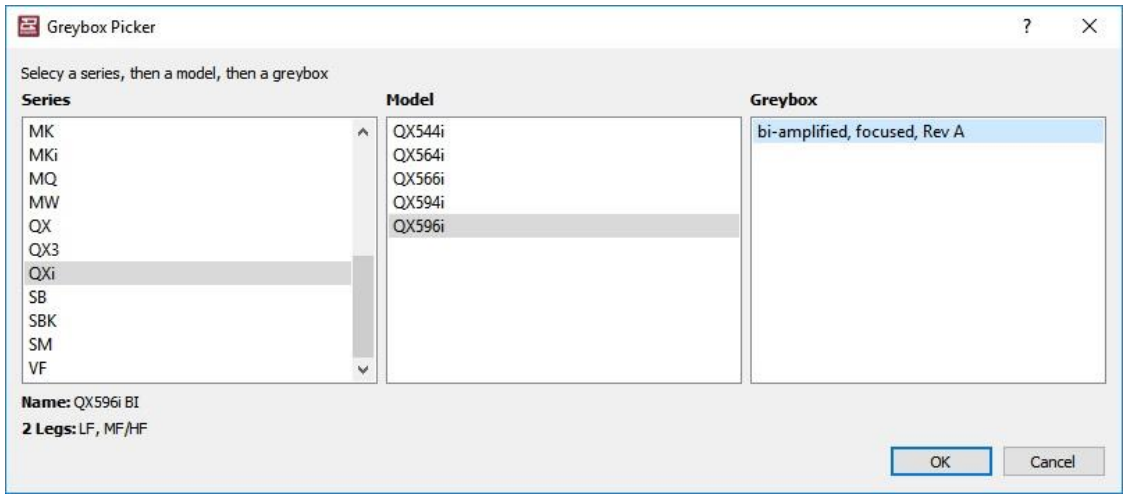
Click any output channel, then click on **Select/Configure Greybox.**



On the main Greybox Configuration window, click **Add Greybox…**

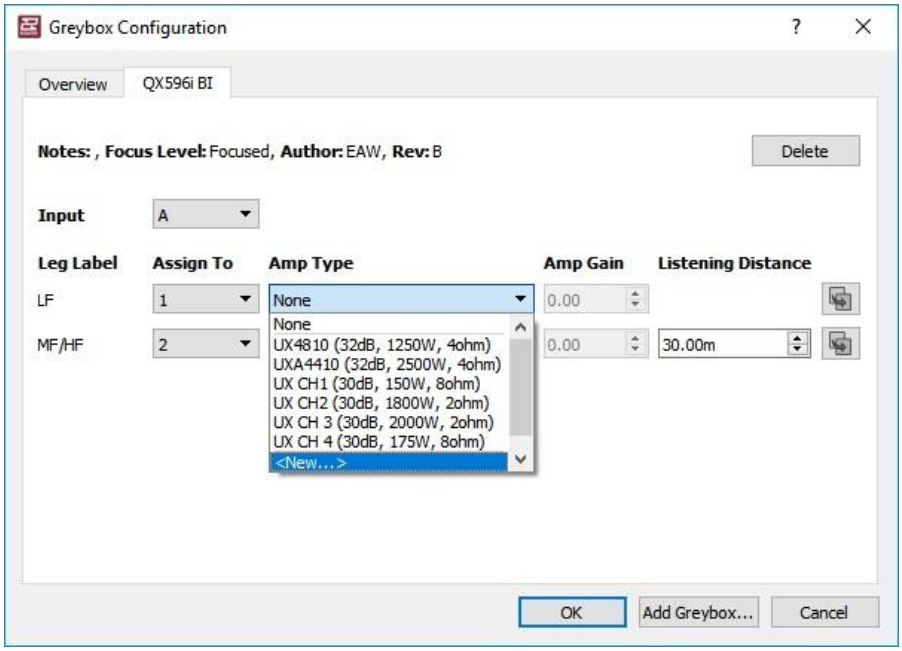


In the Greybox Picker window, choose the Series, Model, and exact Greybox configuration of the Loudspeaker. Click “OK” to proceed.

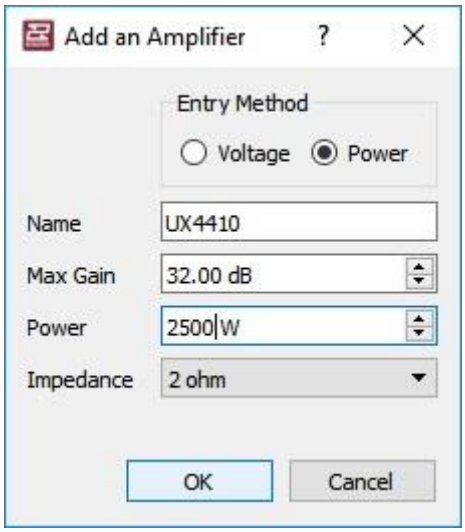


The Greybox Configuration window should now be populated with set up options. Here, assign an input, an output channel for each Leg, Amp Type, Amp Gain, and Listener Distance.

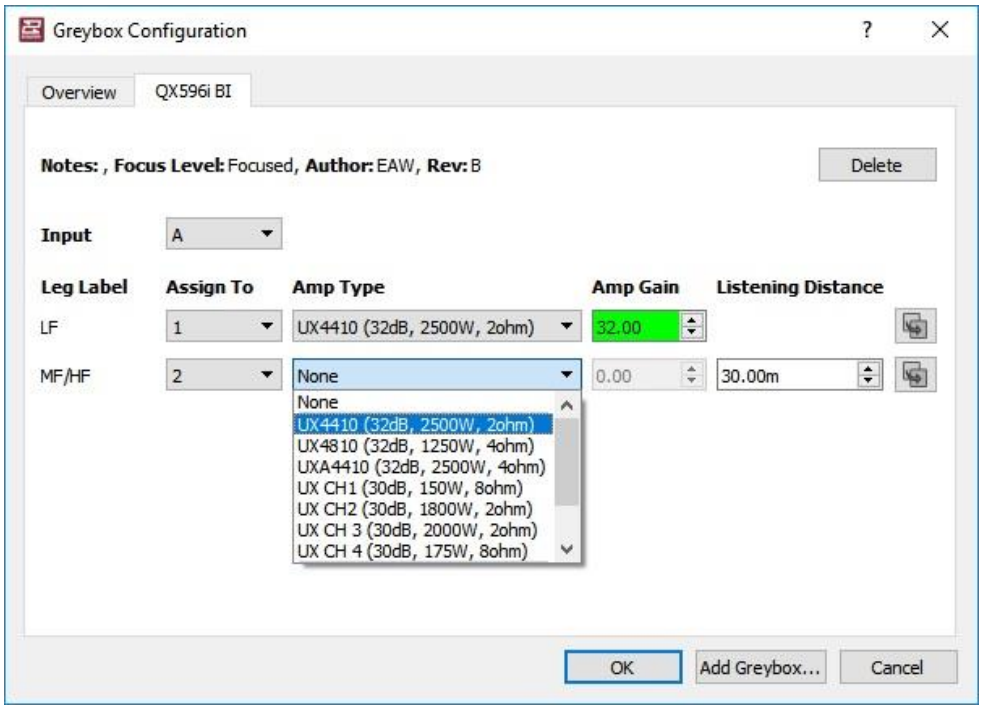
Either choose an available Amp Type or create one new by clicking on **<New…>** under the pull-down menu.



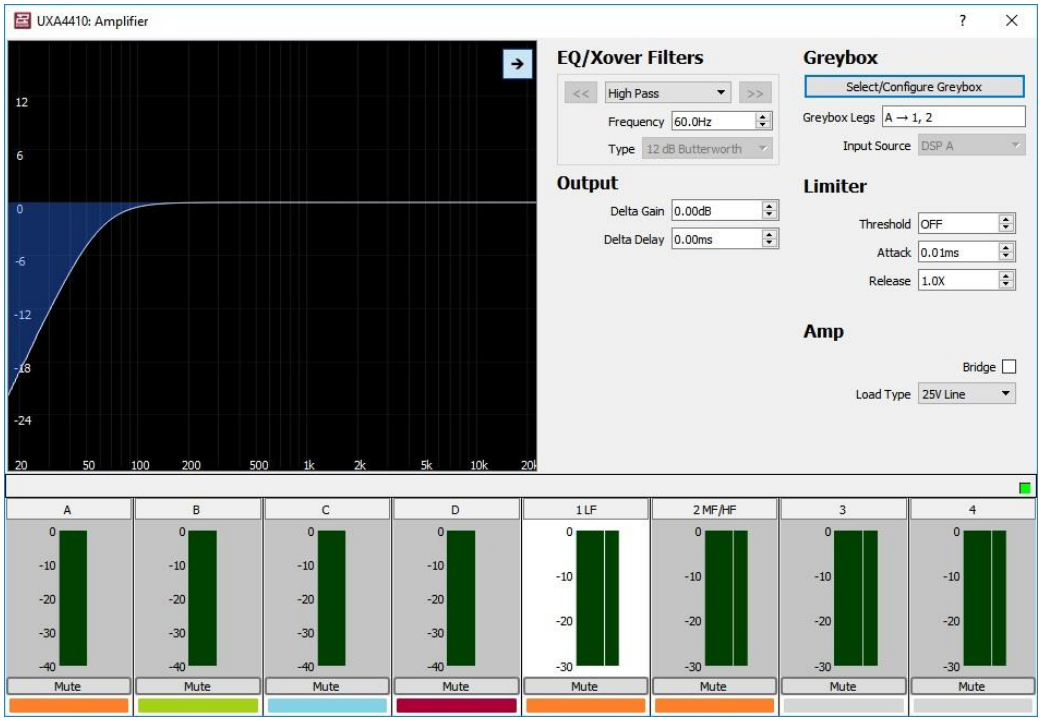
When the **Add an Amplifier** window appears, fill in each setting as specified by the Amplifier spec/cut sheet. Entry Method may either be by Voltage or Power.



Back to the Greybox configuration window, the newly created amplifier will now be available on all channels under Amp Type. Click “OK” once complete.



The Greybox is now loaded, as shown below in the Edit Window. **NOTE**: The output channels should be color coded to match the assigned input channel (i.e. orange in this example).



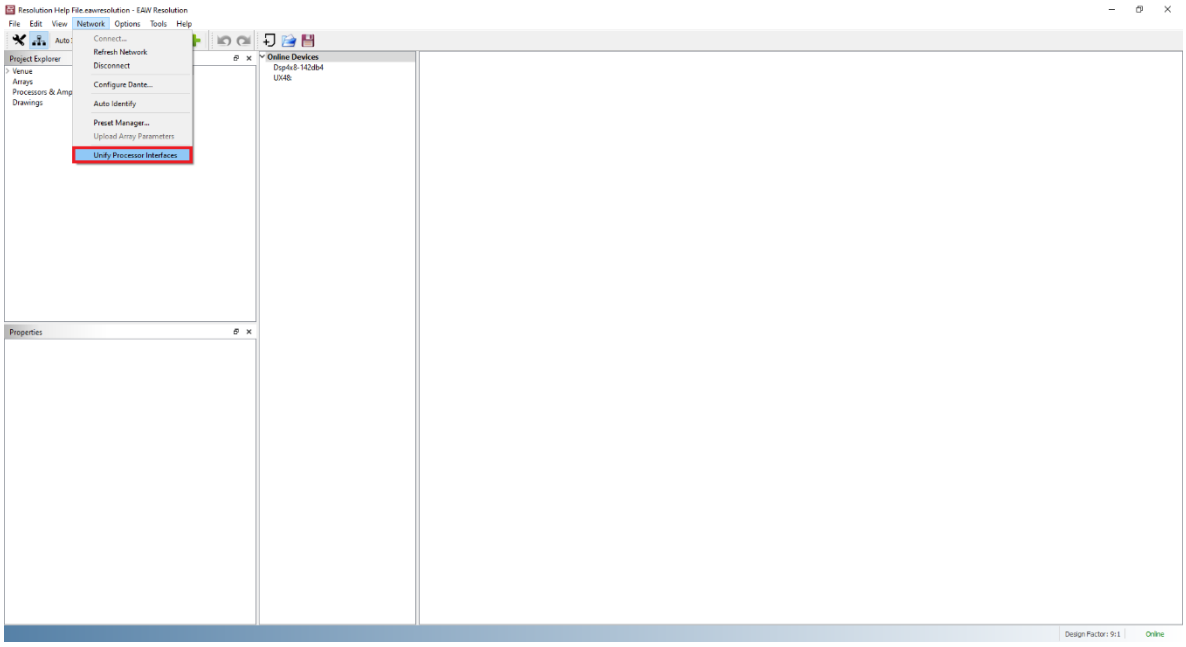
Unify Processor Interfaces

CRITICAL SETUP NOTE:

It is necessary to “teach” each amplifier which Dante card is installed internally. If more than one Processor and Dante Interface is seen in the list, it is suggested to turn off all amplifiers except one. Refresh the network, then Unify the processor to the Dante card. Repeat this for each amplifier. This will ensure that you are connecting the correct Amplifier Processor to the Correct Dante Card in that amplifier.

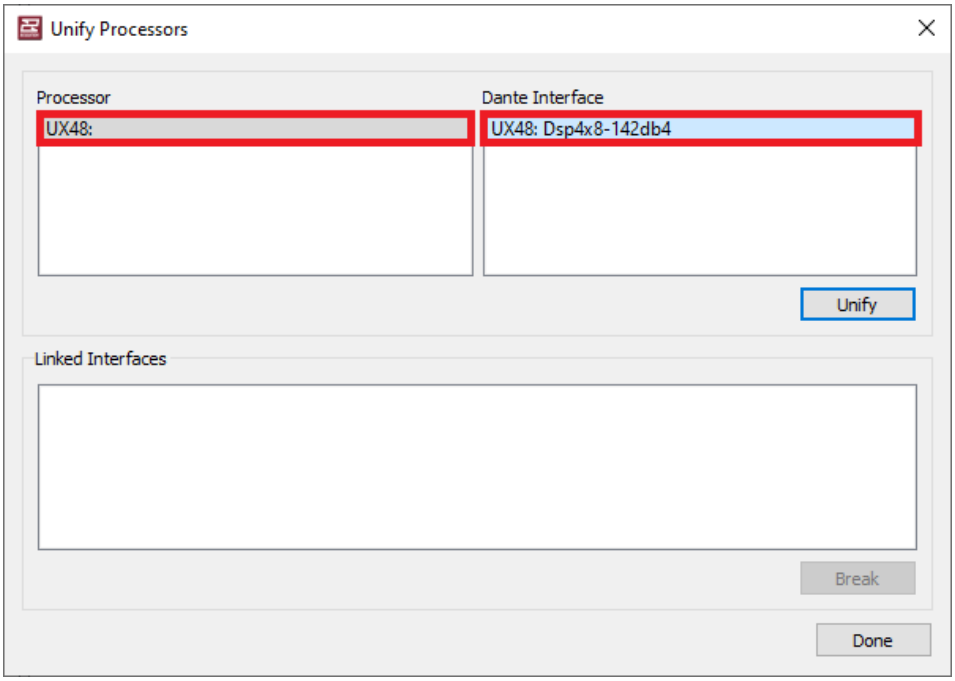
This will not be necessary in a future firmware build, but for now it is highly suggest doing this step to ensure network control stability.

This function is to assist in determining the network address of the primary and secondary Dante card when Resolution is connected to the Ethernet port of a UX processor or UXA amplifier. The IP address of the Dante card is stored in the internal memory. This is only required once unless the internal Dante card is replaced.

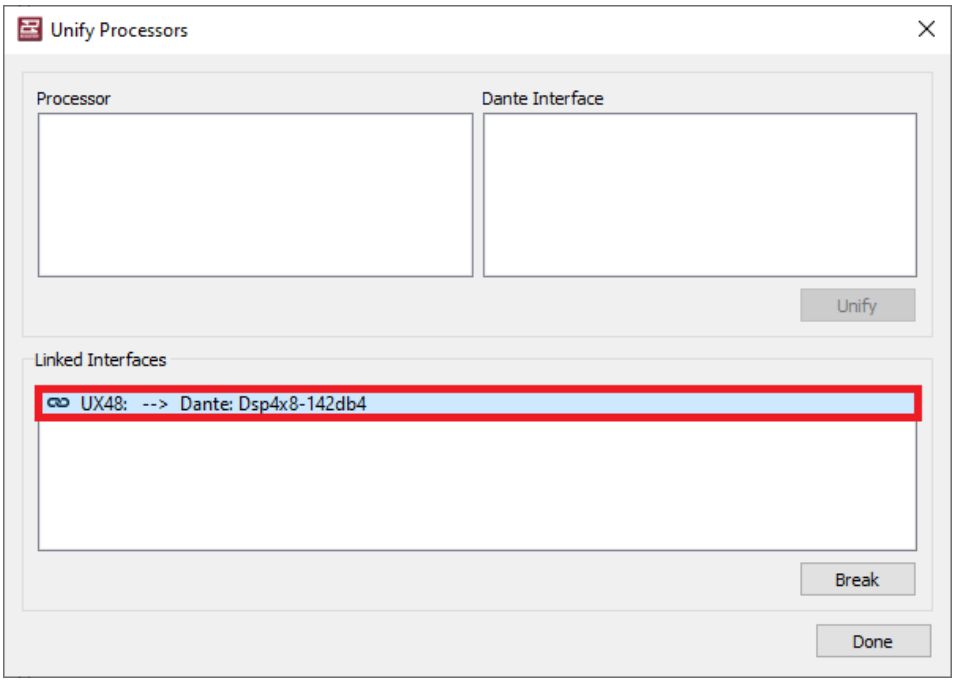


Resolution needs to know the Dante address so routing can be done between devices in Resolution. *NOTE: Processor or Amplifier control will work fine without a unified Dante port.*

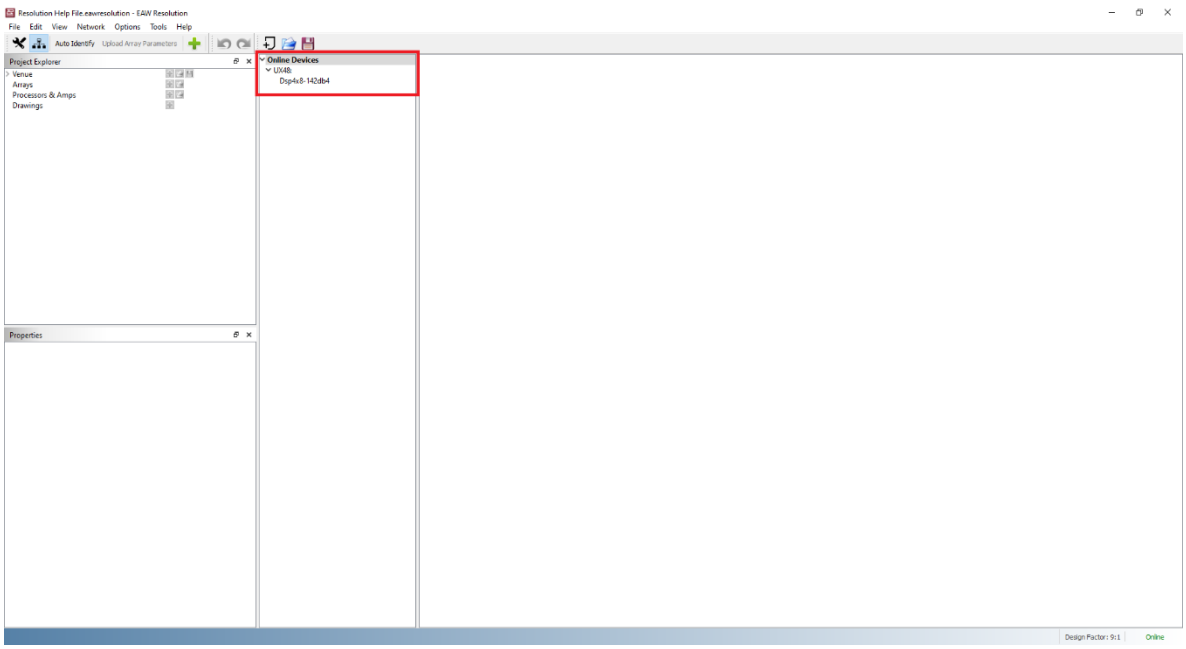
With the Unify Processors window open, select the processor and Dante interface that needs to connect. Click Unify to complete.



After the function is complete, the linked interface may be viewed in the bottom pane as illustrated below. Click Done to accept or Break to undo and reverse the action.



Under Online Devices, Resolution now associates the Dante card with the processor or amplifier.



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