How to set up the Crestron sample program with MMS5e, M801e, and MSB20e

horizontal line

## \*This document is written with the assumption that the user has already seen the Crestron sample setup video. If the user has not seen the video, please advise that they do so using this link: [Crestron sample setup video](https://www.dropbox.com/s/dflcmwn7q2b1lw2/VID%20-%20Crestron%20Sample%20Setup%20-%20eMMS%20and%20eAmp.mp4?dl=0)

# Purpose:

The purpose of this document is to show the user how to set up the Crestron sample program with a MMS5e, M801e, and MSB20e.

# Equipment Used:

## \*The sample program is not limited to this equipment. Some programming changes may be needed to improve the user's experience\*

* MMS5e
* M801e
* MSB20e
* Processor: Pro3
* Panel: Xpanel

# Firmware Requirements

* Server Version: TBD
* Amplifier Verion: TBD

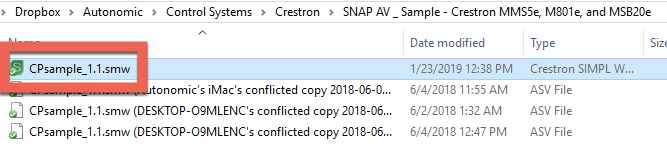
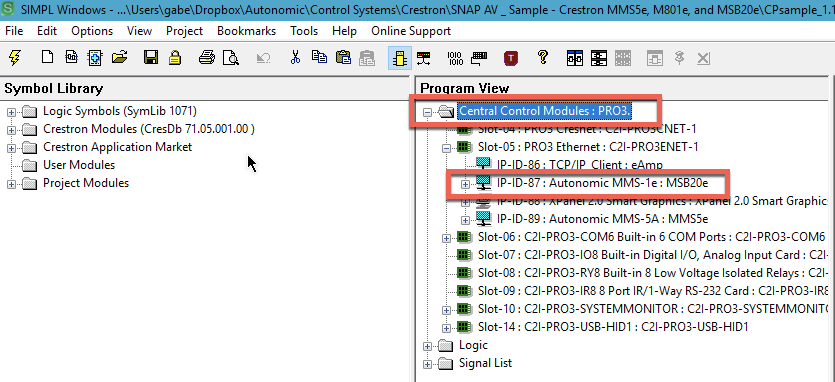
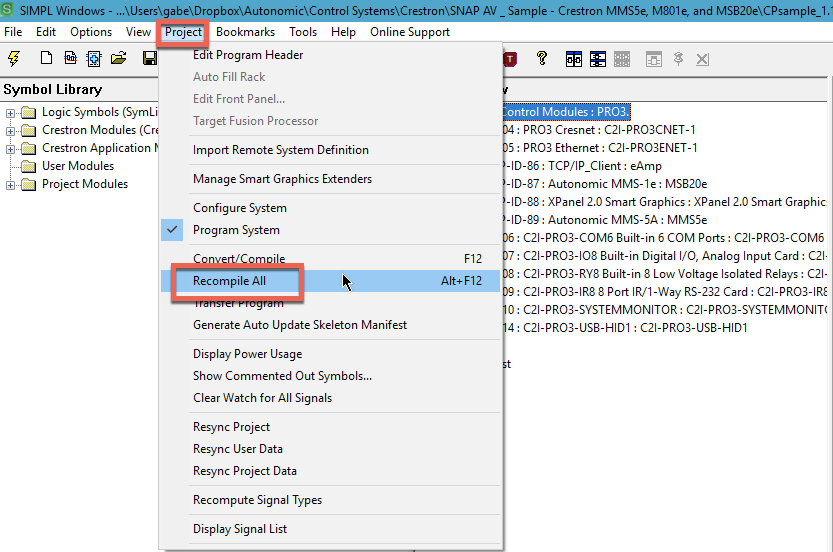
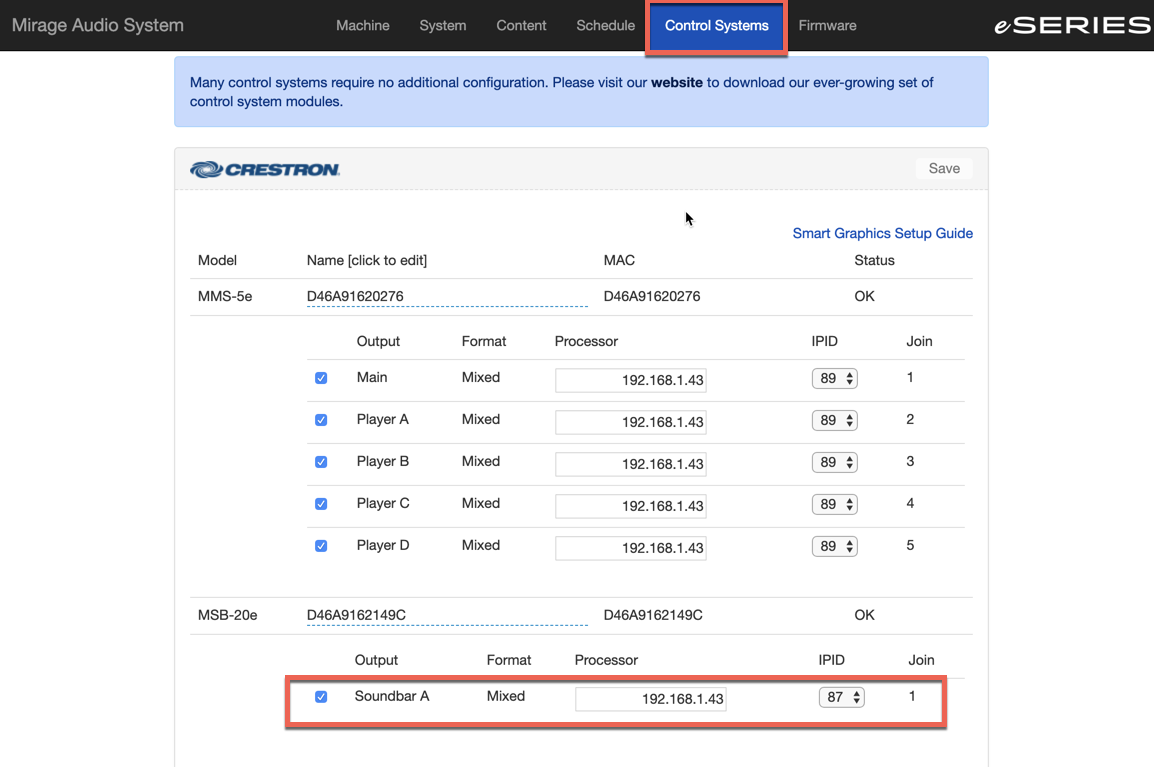
# Limitations:

* In order to select an external audio source (COAX, TOSLINK, Analog, Bluetooth) on the MSB20e, the MSB20e zone must first select it before any other amp can select it.
  + Example: Zone 2 on the M801e wants to use the Bluetooth audio source.
  + The process to do this:
    - Set the MSB20e zone to Bluetooth. Next, select Zone 2 on the M801e and select the Bluetooth source
* Audio will always be desynchronized between the MSB20e and all e-series amplifier zones unless it’s a streaming Mirage instance (Main, Player\_A, Player\_B, etc)
  + Example: “Bluetooth audio between my M801e and soundbar is off by like a second”

# Crestron Program Logic:

* Due to the limitation on the MSB20e when using one of its external audio sources (COAX, TOS, Analog, Bluetooth) from another amp on the stack, logic has been added to the sample program to handle this the best way it can. Whenever the Crestron program senses that the external sources are being used from a device other than the MSB20e, it will automatically power on the MSB20e zone and set the zone to the selected external source. The Panel will also display a message about what has just occurred.
  + EX: User wishes to select Bluetooth on Zone of their M801e. Once selected, Crestron will first power on the MSB20e (if it isn’t already) and set the source to Bluetooth, then it will set zone 2 of the M801e to the Bluetooth source.

# Setting up MAS in Crestron:

1. Make sure all the equipment is on the same System ID (eMMS, eSndBar, eAmp)
2. Start by opening up the SMW file in the Crestron sample program.
   1. 
3. Once the file opens up in SIMPL Windows, under the Program View, collapse the Central Control Modules and then collapse Slot 5 to see all the devices in the project. Write down the IPID for the device labeled “Autonomic MMS-1e: MSB20e”
   1. 
4. Next, Click the Projects tab on the toolbar and select Recompile All. This will compile the project and transfer it to your processor.
   1. 
5. At this point, you can close SIMPL windows and go to the MSB20e config page. On the config page, select the control systems tab and looks for the MSB20e. Click the checkbox next to the MSB20e to let Crestron control it. To the right of that, enter the Crestron processor IP and select the IPID for the MSB20e (Gathered from step 3). Save the changes.
   1. 
6. The system is now configured and to use it, go back to the Crestron sample program folder and enter the folder labels “Autonomic Xpanel For SnapAV\_2.1.c3prj” ( Always choose the SnapAV\_2.1.c3prj with the highest version number. Currently it’s 2.1). Once in the folder select the “Autonomic Xpanel For SnapAV\_2.1” to open up the panel.
   1. Note: If the XPanel states that it’s “Disconnected”, on the toolbar click Options then select Host Settings. When the pop-up window opens, enter the processor IP and the IPID for the Xpanel (step 3 can assist you in finding the IPID for the XPanel)
   2. 