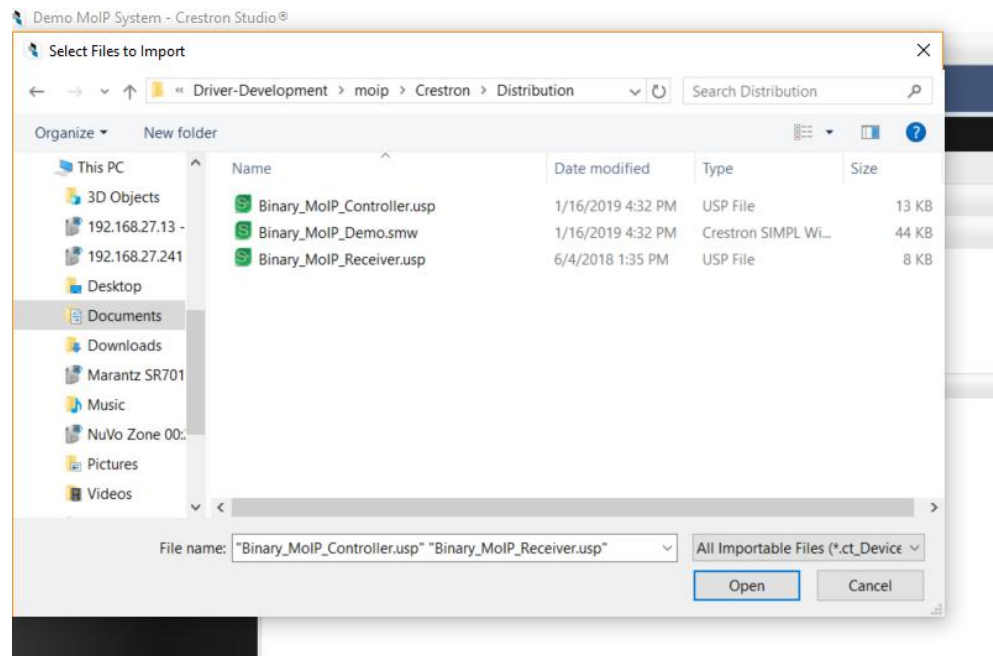


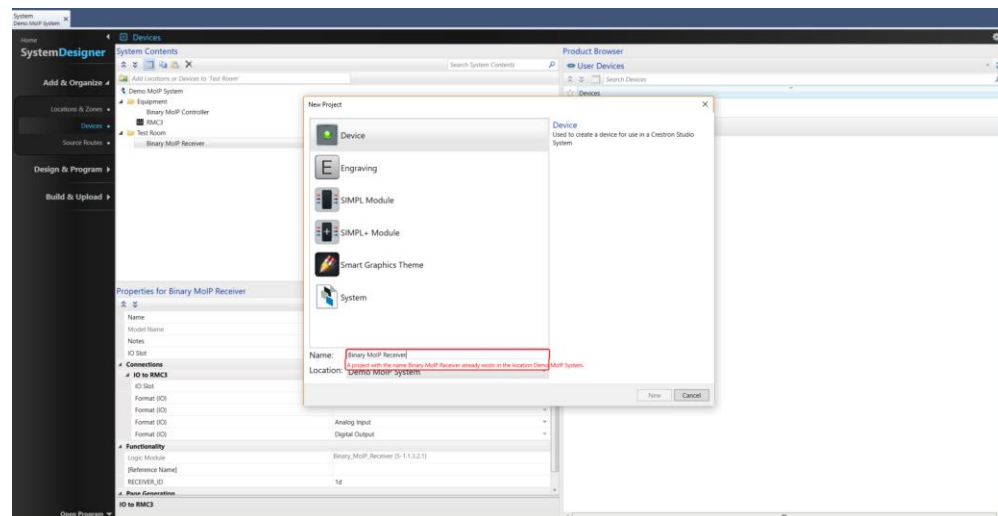
## Binary MoIP Controller Demo System Crestron Studio

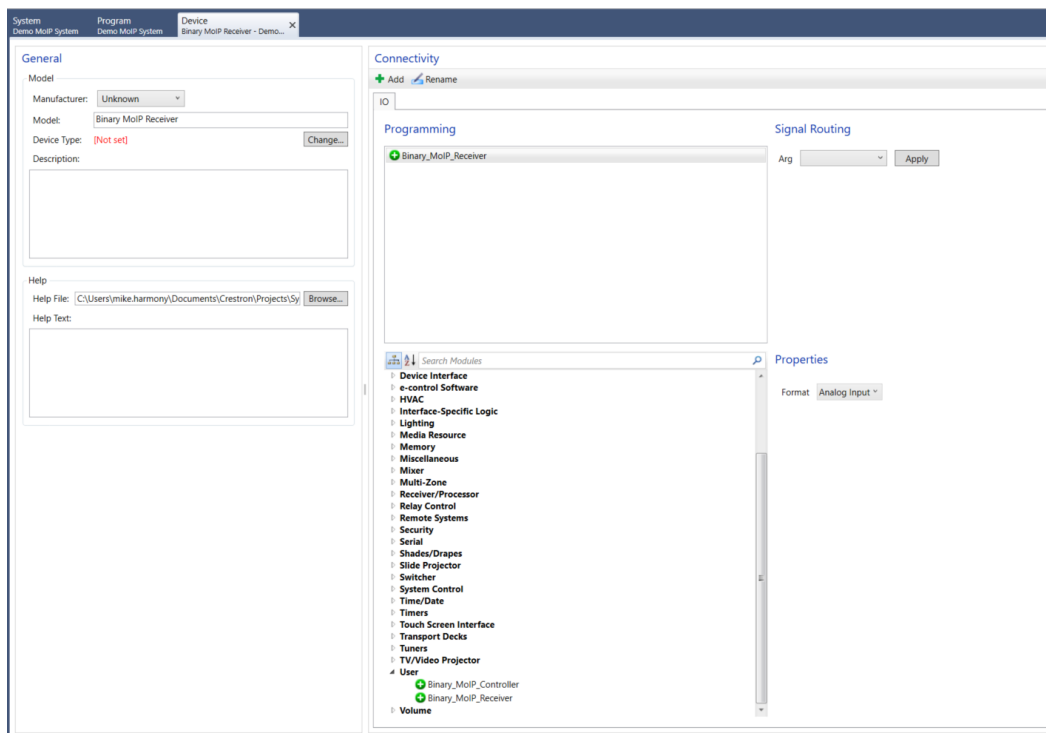
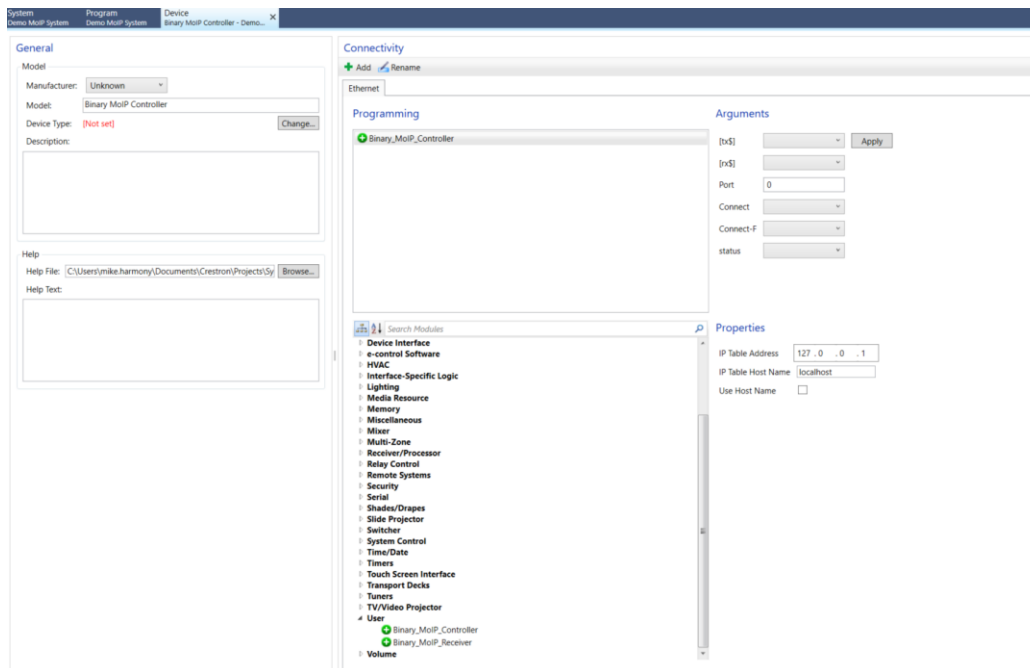
### Setup

1. Import “Binary\_MoIP\_Controller.usp” and “Binary\_MoIP\_Receiver.usp” Crestron SIMPL+ Modules into Crestron Studios.

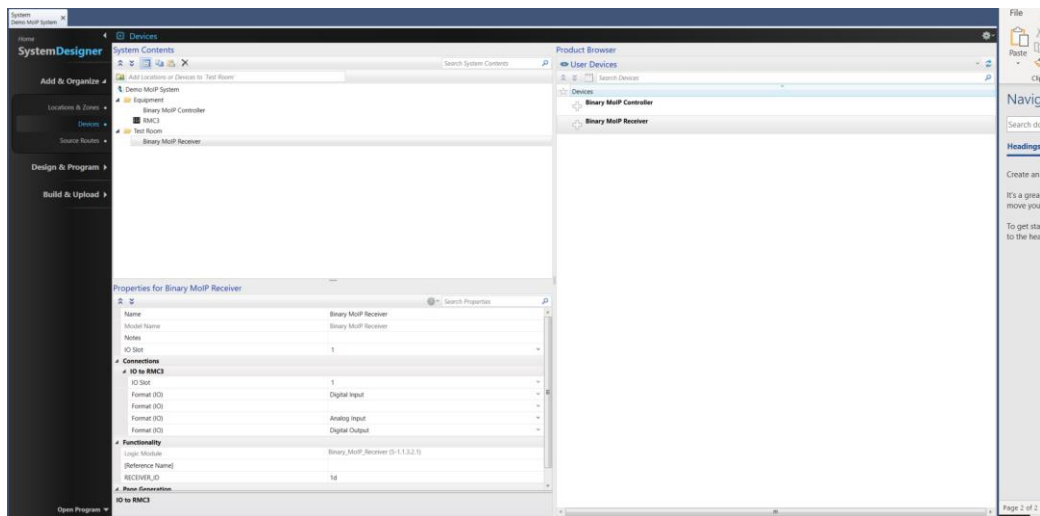


2. Encapsulate imported SMPL+ modules in “Devices” by going to File->New Project and selecting “Device”. Create a Device called “Binary MoIP Controller” and another called “Binary MoIP Receiver”. In order to link the imported SMPL+ module to the device, add “Binary\_MoIP\_Controller” for the Controller Device and “Binary\_MoIP\_Receiver” for the Receiver Device.

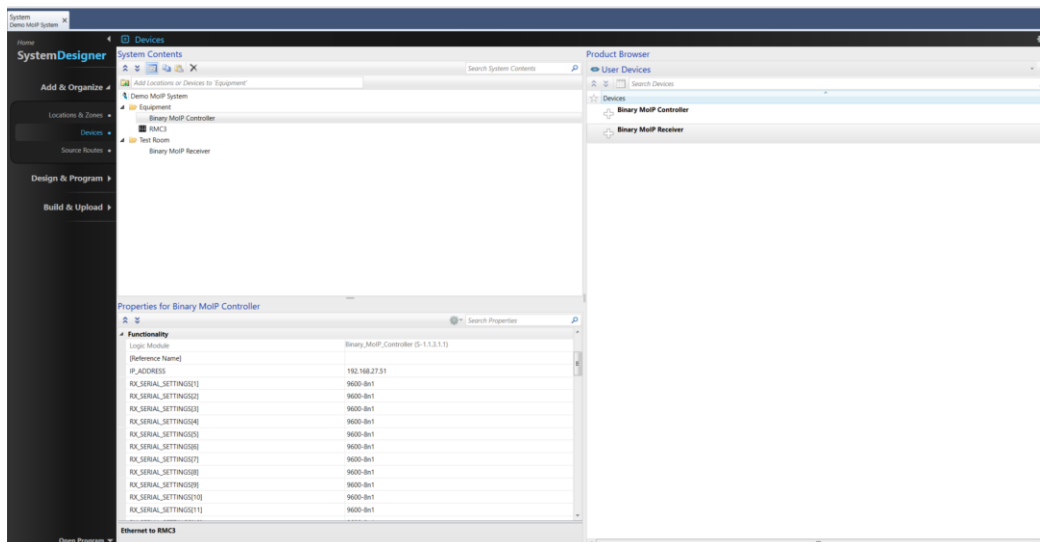




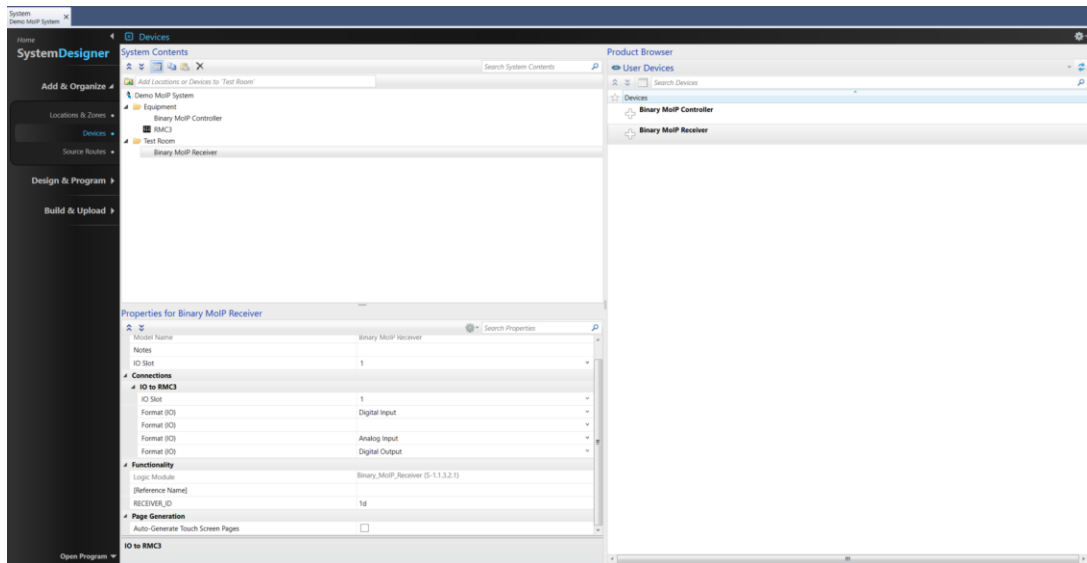
3. Once these devices are created, they will be accessible via the Add & Organize under the Devices submenu. Filter by User Devices in the Product Browser and add an instance of the Controller Device and another instance of the Receiver Device.



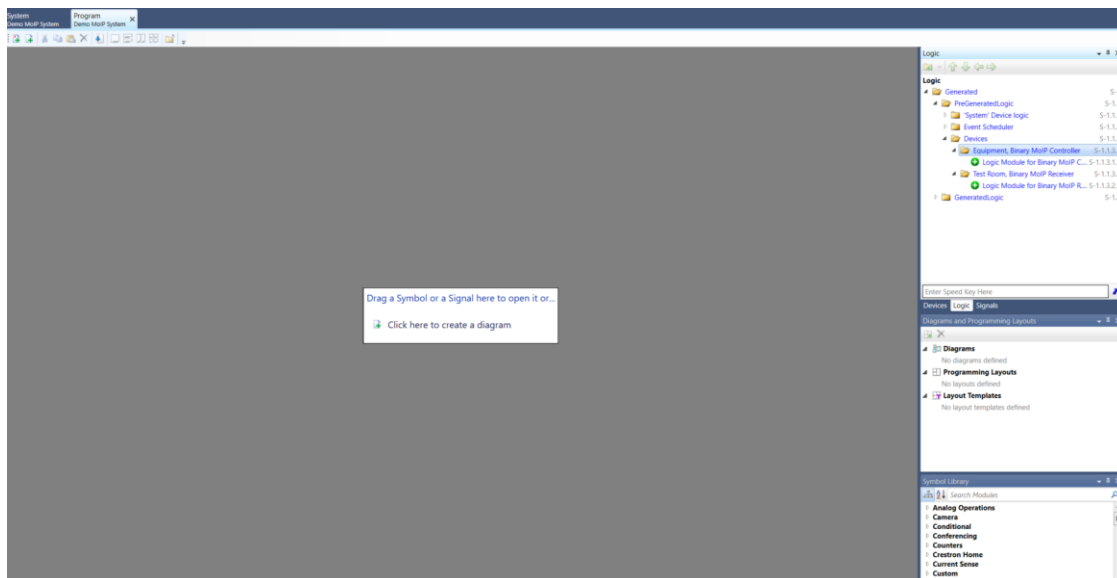
4. On the Controller Device, under functionality, enter the devices IP\_ADDRESS and other properties appropriate for the install.



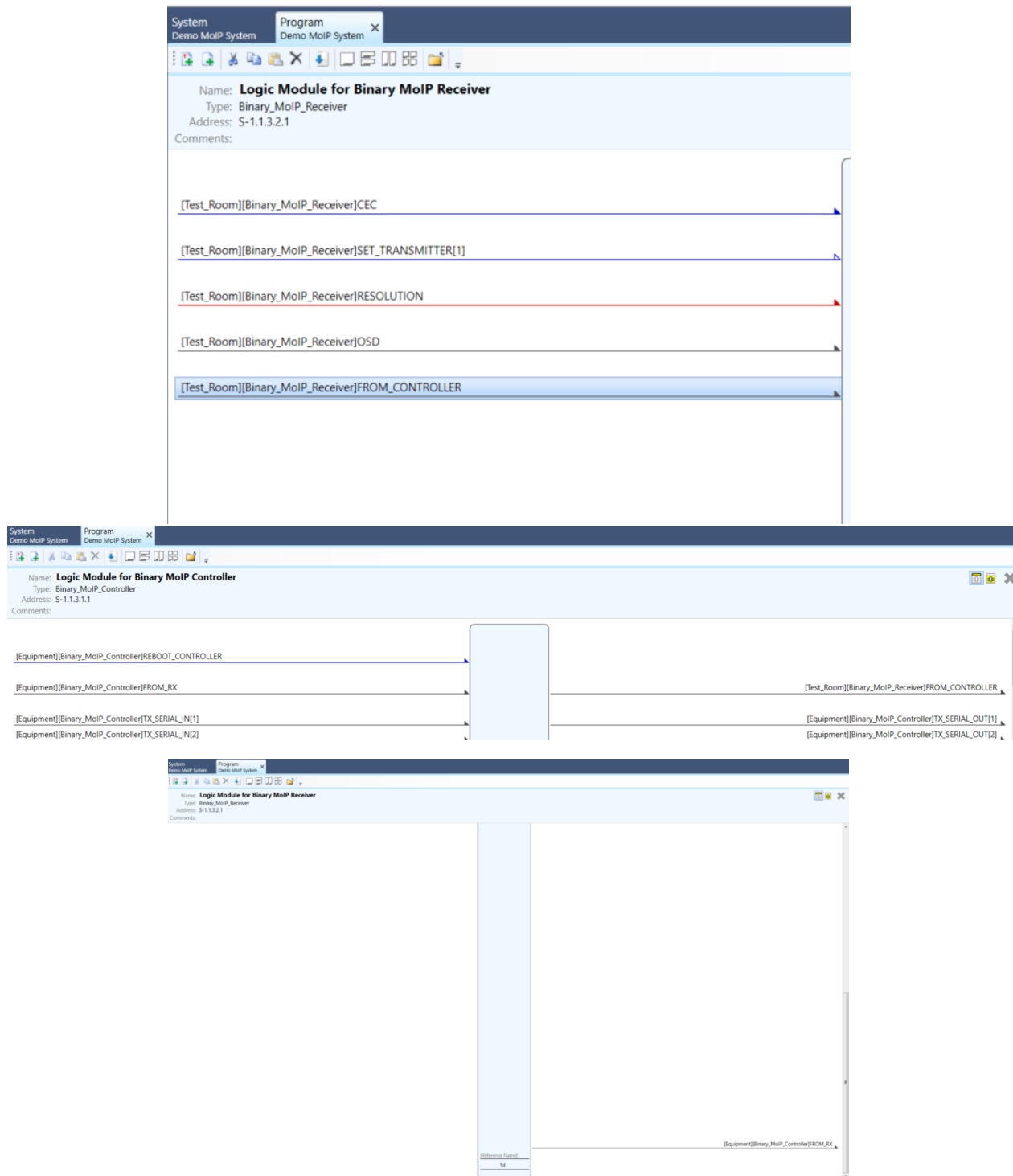
5. On the Receiver Device, under functionality, enter the devices RECEIVER\_ID and other properties appropriate for the install.



6. In the MoIP system, the Receiver Device must be able to communicate to the Controller Device, so next we will enter Program Designer. Right Click the Crestron Controller and click “Open Program Designer”



7. Under the logic tab on the right hand side, navigate to the devices by going to Generated->PreGeneratedLogic->Devices. Starting with the Controller Device, copy and paste the FROM\_CONTROLLER output signal name, or enter a custom one, and match this signal name to the Receivers FROM\_CONTROLLER input. Do the same with the FROM\_RX signal name.



8. Build and Upload the project. With toolbox open, ensure the modules are communicating with each other by pulsing the SET\_TRANSMITTER[1] input. You should see "Switch=1,1" debug message. The demo Receiver Device ID is set to 1 and the command is trying to set the current source to 1, so the following command illustrates the Receiver Device communicating this request to the Controller Device. The Controller Device is assembling and sending the command out to the Controller.

Stimulus: [Test\_Room][Binary\_MolP\_Receiver]SET\_TRANSMITTER[1]

Insert Timestamp 1 (Alt-T) Clear Trace (Alt-C) Items to Trace... Resume Scroll

Signal Change Reporting Rate: 5.0 Changes per Second

Signal

[(Time\_Of\_Day\$)]

[System]Time\_of\_Day\$

Time\_Of\_Day\_Pulse

Time\_Of\_Day\_Pulse

User set [Test\_Room][Binary\_MolP\_Receiver]SET\_TRANSMITTER[1] to Pulse High

[Test\_Room][Binary\_MolP\_Receiver]SET\_TRANSMITTER[1]

[Equipment][Binary\_MolP\_Controller]FROM\_RX

[Equipment][Binary\_MolP\_Receiver]TRANSMITTER

(PUSH SET\_TRANSMITTER) TRANSMITTER(1)

(SendCmd): Sending Command: !Switch=1,1

[(Time\_Of\_Day\$)]

[System]Time\_of\_Day\$

Time\_Of\_Day\_Pulse

Time\_Of\_Day\_Pulse

[Equipment][Binary\_MolP\_Controller]R (98 / 98)

[Equipment][Binary\_MolP\_Controller]T (96 / 96)

[Equipment][Binary\_MolP\_R (1 / 1)]

[Equipment][Binary\_MolP\_Receiver]TRANSMITTER = 1d

[Equipment][R (5 / 5)]

[Equipment][RMC3]EquipmentID = 51001d

[Equipment][RMC3]IsOffline

[Equipment][RMC3]Name = <empty>

[Equipment][RMC3]offline

[Equipment][RMC3]Room = <empty>

[S (372 / 372)]

[Scheduler] (362 / 362)

[Sy (10 / 10)]

[T (10 / 10)]

[Test\_Room][Binary\_MolP\_Receiver]CEC

[Test\_Room][Binary\_MolP\_Receiver]EquipmentID = 51005d

9. For advanced setup and programming, please contact Crestron directly for further support.