

Entry Device Test Plans

Generic SIMPL Test Plan

1. Create a SIMPL program, and then define the wrapper module for the device type you are testing. Test all inputs and outputs of the SIMPL wrapper module and verify that they work with your driver.

Crestron Home Verification Points

Configuration

1. Load the driver onto the CP4-R or MC4-R, then navigate to **Third Party Devices** in the **Pair Devices** page and wait for the list to update. Verify the manufacturer shows under the device type, and all supported models from the driver show under the manufacturer without any typos.
2. Add the driver to a room, and verify the **Add Device** dialog box appears with the appropriate connection fields (IP/Hostname field).
3. Verify any additional attributes on the driver show in subsequent dialogs with the appropriate descriptions and fields.
4. Verify the driver is successfully added to the room.

Settings

1. Select **Settings**. Verify that **About**, **Control**, and **Advanced** menu options are available
2. Select **About**. Verify that the device name, room name, type, manufacturer, model, version, and control type are displayed. Verify that device status is displayed and is reporting as online when the device is connected and offline when the device is disconnected.
3. Select **Control**. Verify that the IP address and IP port are displayed.
4. Select **Advanced**. Verify that an **Enable Logging** check box is displayed. Verify that the driver logs to the Crestron console when the check box is selected and stops logging when deselected.

Entry Functions

1. In the **Access** section of the run time app, select **Open All**. Verify that the state changes to **OPENING...** and then **OPEN** once the action has completed.
2. Select **Open All** several times quickly. Verify that the feedback occurs on the first button selection. Verify that the feedback is not extended or does not toggle.
3. Select **Close All**. Verify that the state changes to **CLOSING...** and then **CLOSED** once the action has completed.
4. Select **Close All** several times quickly. Verify that the feedback occurs on the first button selection. Verify that the feedback is not extended or does not toggle.
5. In the **Controls** section, turn the **Garage Door** toggle on or off from its current state. Verify that the state changes to the opposite of the previous state once the action has completed. For example, turning the toggle on should change the state from **CLOSED** to **OPEN**.
6. Turn the **Garage Door** toggle on or off again to return it to its original state. Verify that the state changes back to the original state the action has completed.
7. Place the driver in a jammed state (if possible). Verify that the driver reports a **JAMMED** error.
8. Place the driver in an object in path state (if possible). Verify that the driver reports an **OBJECT IN PATH** error.
9. Place the driver in a manually stopped state (if possible). Verify that the driver reports a **MANUALLY STOPPED** error.
10. Clear all errors and return the driver to a normal operating state. Verify that the errors are shown as cleared and that the driver is operating normally.

System Tests

1. Simulate a power outage in the house by removing power from the processor, device, and network for at least 120 seconds, before restoring power. Verify once the program loads, the driver reconnects to the device and all functionality is restored within 60 seconds.
2. Simulate a network outage by disconnecting all network cables from the device and processor and waiting at least 120 seconds before restoring. Verify the device and driver reconnect and all functionality is restored within 60 seconds.
3. Leave the driver connected to the device for a minimum of 24 hours, periodically checking functionality. After 24 hours, the driver should still be connected, all functionality should still work, and there should be no degradation in performance (functions should continue to work immediately and feedback should remain prompt and accurate).
4. Delete the driver from the system. The driver should no longer be listed in the room. No exceptions should be thrown in the error log.

Signature:

Date: