



Custom One-Way Entertainment IP, IR, and Serial Driver Release Notes

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Last modified: 12/05/2016

Introduction

Clare Controls' Custom One-Way Entertainment IP, Serial, and IR Driver lets you customize the functions of IP, serial, and IR entertainment devices connected to your Clare Controls host controller. The driver includes a list of device functions that is triggered when a user presses a button on a hand-held remote control device. Using Fusion, you can customize the driver by entering a command for each function. Simply select the one-way IP template from Fusion's list of device templates and customize it.

When customizing an IP driver, you will need to find the device's documentation. Search for your device on the manufacturer's web site, and then look for a downloadable document describing its command protocol, such as an API document similar to the one shown in Figure 1. If you cannot find the specific device, look for a similar one and scan it for a list of device commands. Once you have the list of commands for your device, use Fusion to configure the settings.

This release note explains how to configure and customize your one-way entertainment IP, serial, or device in Fusion.

Figure 1: Sample of a manufacturer's documentation

API Document - Command Setup

COMMAND	PARAMETER	FUNCTION	EXAMPLE
MN	CHD	"Channel Down" Control	MNCHD<CR>
	CHU	"Channel Up" Control	MNCHU<CR>
	CLR	"Clear" Control	MNCLR<CR>
	CUP	"Cursor Up" Control	MNCUP<CR>
	CDN	"Cursor Down" Control	MNCDN<CR>
	CLT	"Cursor Left" Control	MNCLT<CR>
	CRT	"Cursor Right" Control	MNCRT<CR>
	ENT	"Enter" Control	MNENT<CR>
	RTN	"RETURN" Control	MNRTN<CR>
	MEN ON	"GUI Menu ON" Control	MNMEN ON<CR>
	MEN OFF	"GUI Menu OFF" Control	MNMEN OFF<CR>

Configuring in Fusion

Once you have installed your one-way IP, serial, or IR device, you must add and configure it in Fusion. Follow the steps below to configure your device in Fusion.

To add a custom IP or serial device in Fusion:

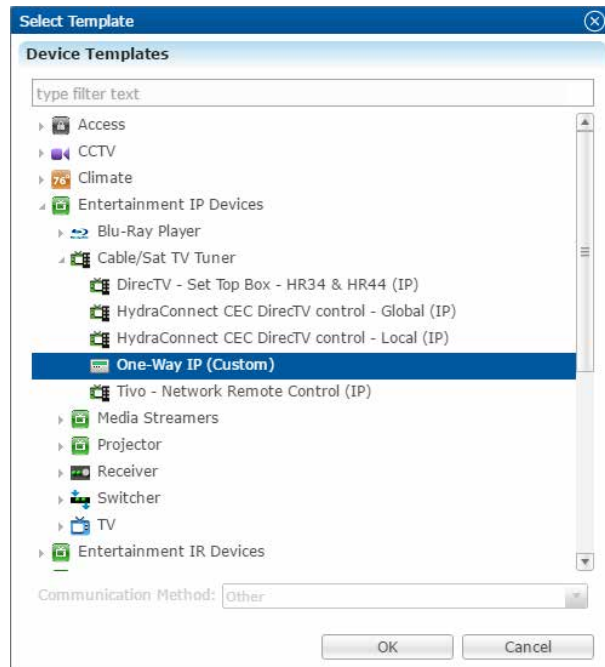
1. Click the **Devices** tab, and then click the **New Device** button .

The Select Template dialog displays.



2. To add a custom IP device, browse to **One-Way IP (Custom)**.

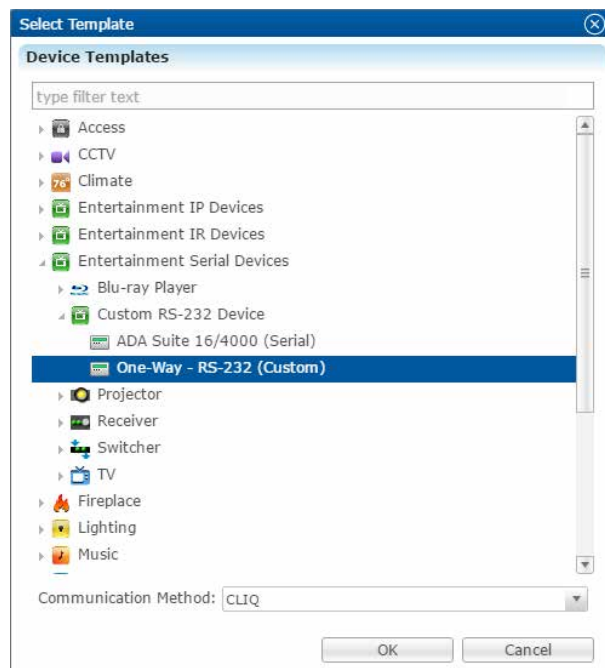
Entertainment IP Devices > Cable/Sat TV Tuner > One-Way IP (Custom)



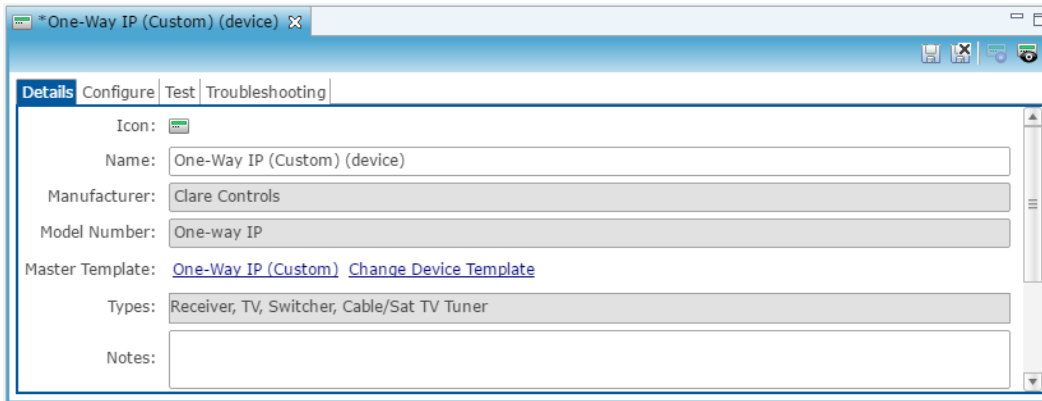
– or –

- To add a custom serial device, browse to **One-Way RS-232 (Custom)**.

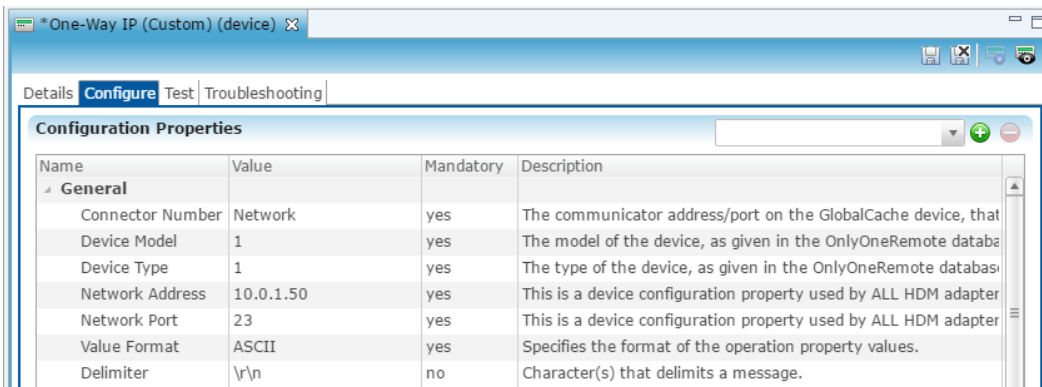
Entertainment IP Devices > Custom RS-232 Device > One-Way RS-232 (Custom)



3. Click **OK**.
4. The **Details** displays.
Enter a name for your custom device.



5. Click the **Configure** tab, and then expand the **General** drop-down.



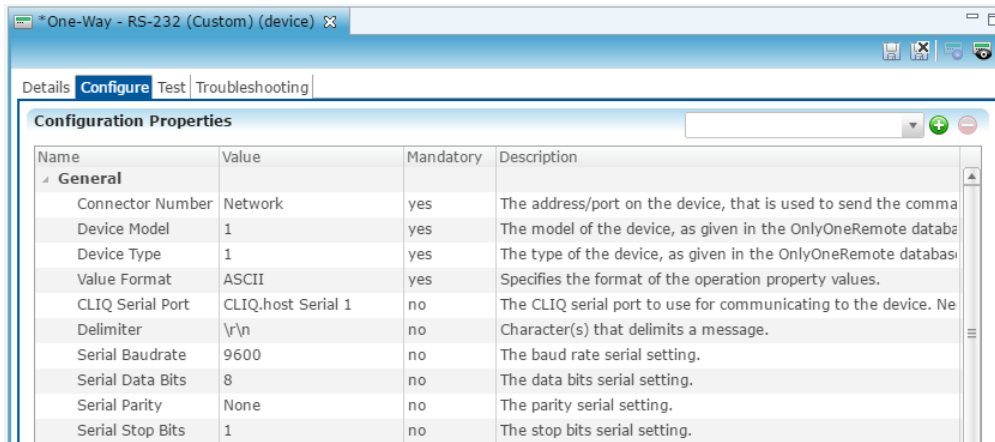
6. Under the **General** section, configure the following **Value** fields.

- **Network Address (IP device):** Enter the device's network IP address.

–or –

CLIQ Serial Port (serial device): Select the CLIQ serial port being used for communication with the device.

Note: When using a serial device, configure the Serial Baudrate, Serial Data Bits, Serial Parity, and Serial Stop bits. Refer to the device's documentation for the serial settings.

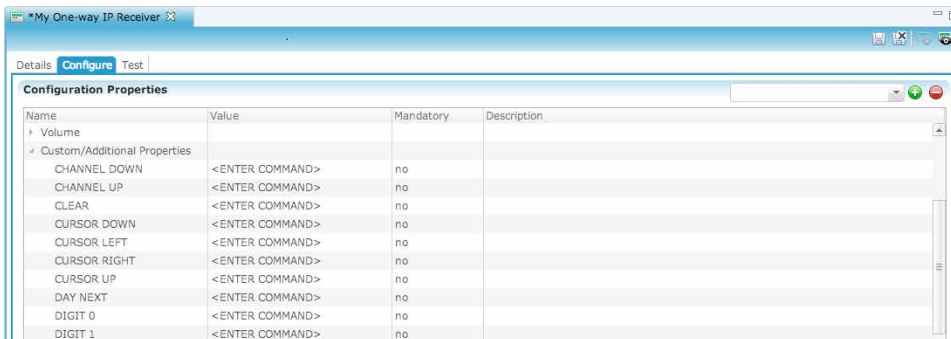


- **Value Format:** Click to display the dropdown list, and then choose **ASCII** or **HEX** from the dropdown list, as indicated in your device's documentation. The default is ASCII.

- **Delimiter:** Enter the characters that delimit commands.

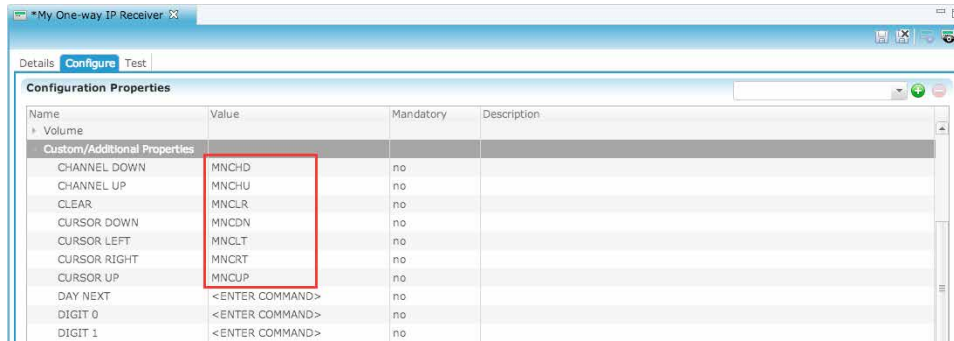
Note: The default delimiter is “\r\n” (<CR> and <LF> in ASCII). Its HEX equivalent is “0D” (<CR>) and “0A” (<LF>). In our example, the device documentation specifies only a <CR>, so we entered “\r”.


7. Scroll down to **Custom/Additional Properties**, and then click the arrow icon ► to expand its list of functions.




8. Refer to the manufacturer's documents that came with your device (such as an API document), for a list of commands and parameters for each function.

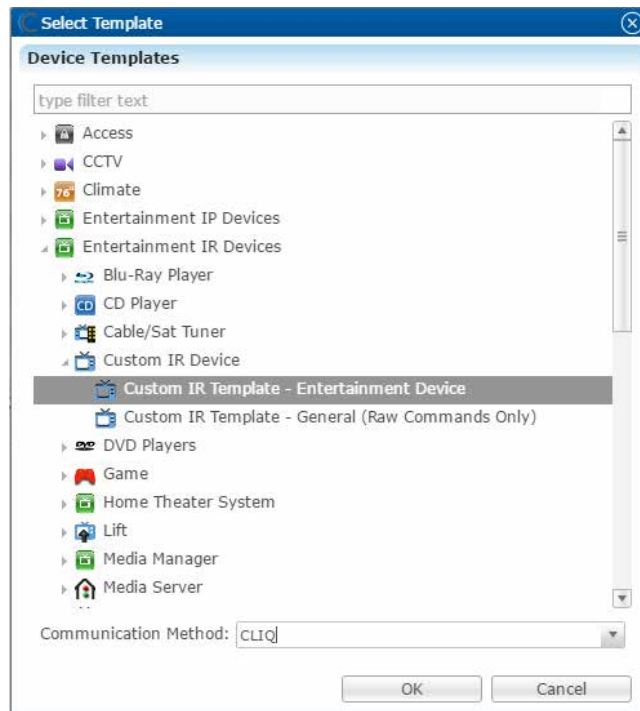
- Click the **Value** field for each function, and then enter the appropriate command and parameter.



- Repeat steps 8 through 9 for each function that you want to configure, and then click the **Save** button .

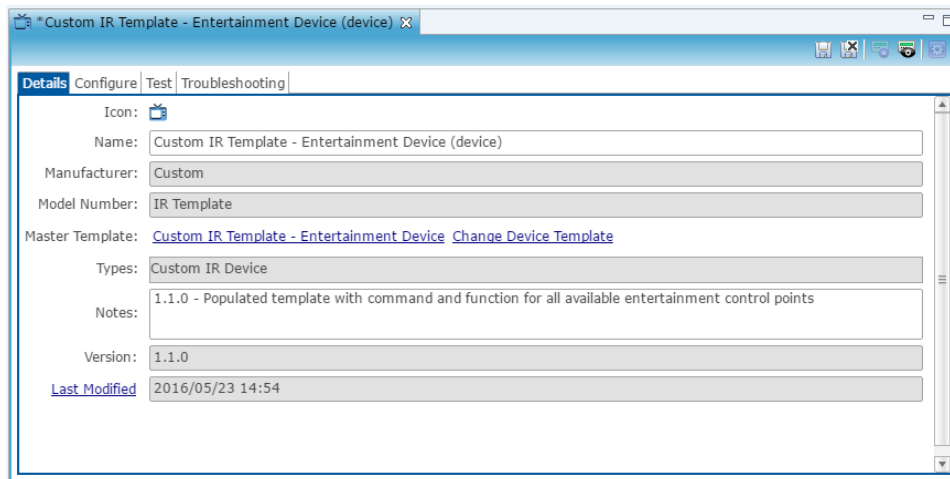
To add a custom IR device in Fusion:

- Click the **Devices** tab, and then click the **New Device** button .
The Select Template dialog displays.

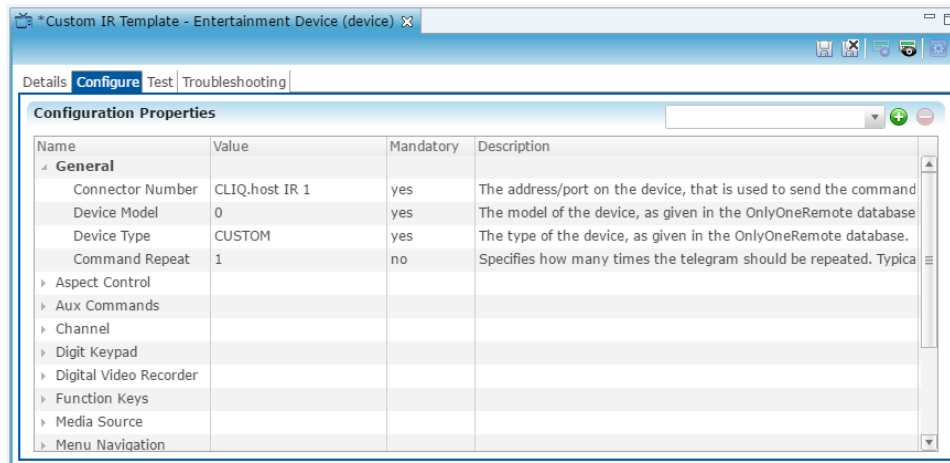


- To add a custom IR device, browse to **Custom Template – IR**.
Entertainment IR Devices > Custom IR Device > Custom Template – IR

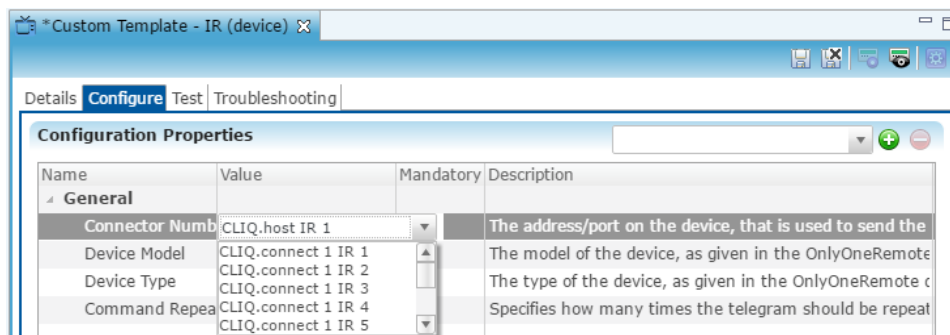
3. Click **OK**.
4. The **Details** displays.
Enter a name for your custom device.




5. Click the **Configure** tab.



6. Under the **General** section, enter the device's **Connector Number**.
Note: The Connector Number is the address/port used for communication with the CLIQ device.



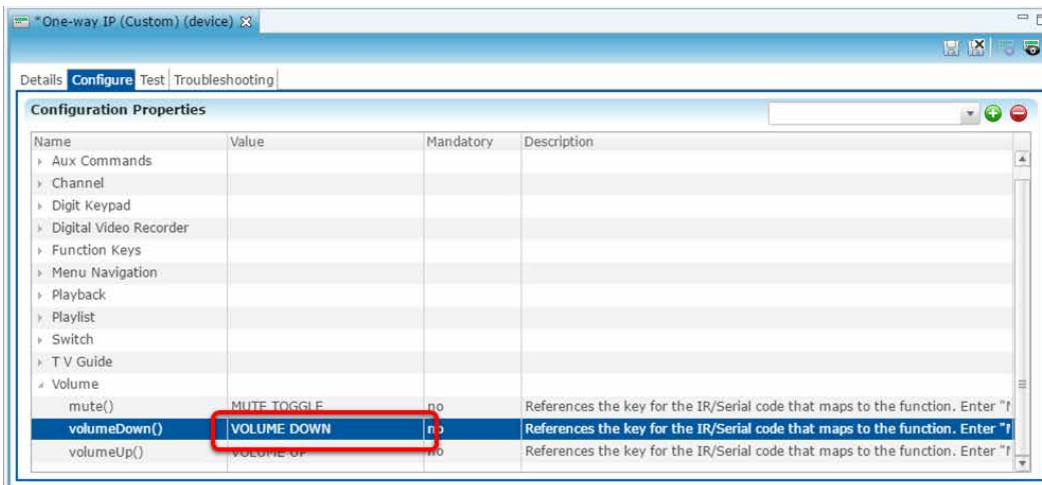
7. Click the **Save** button , and then add the desired custom properties.


Adding and removing custom properties

You can add additional properties when customizing your device. This allows you to change the button functions that the device receives from the remote control.

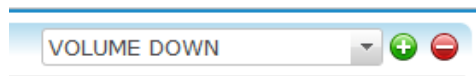
To add custom properties for IP, serial, or IR devices:

1. Determine which button on your device's remote control that you want to use. In our example, we add the **Volume Down** button.
2. Expand the function list and locate that button. Click inside the **Value** field for that button, and then enter a value name for that function. For example, next to the volumeDown() we enter the desired name for the value VOLUME DOWN.

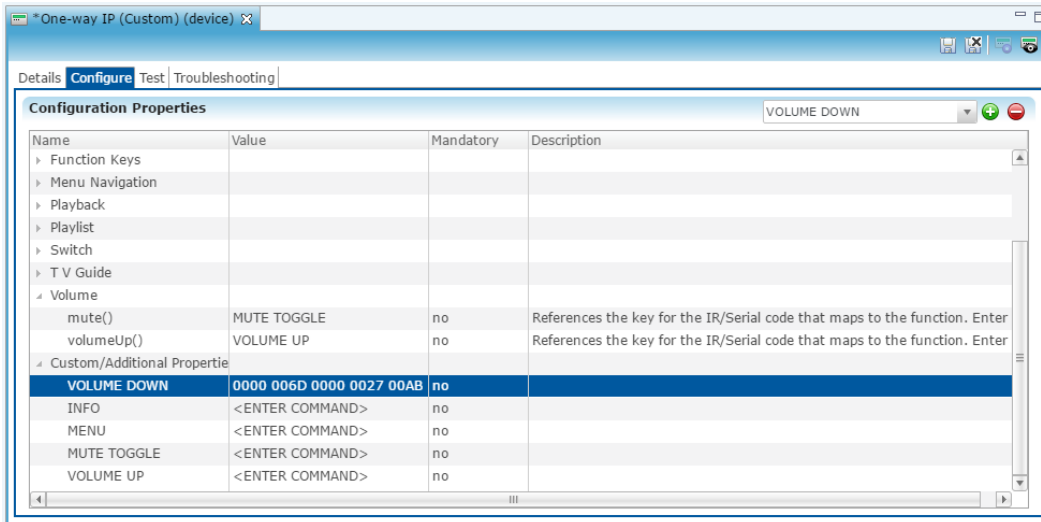


3. Next, add the new value to the **Custom/Additional Properties** list. Go to the **Add Entry** field (at the top-right corner of the **Configure** tab), enter the value, and then click the **Add** button .

Note: This is case sensitive and must match the value entered in the volumeDown() value field.



4. Click inside the **Value** field for the new entry, and then enter the command as defined in your device's documentation.




Notes

- When using an IR device, the hex codes must be learned from the remote, or found in an IR code database such as Global Caché's Command Tower.
- The long Hex format must be used for custom IR commands in Fusion
- When the long Hex format code is entered in Fusion, the entire code is not visible. See the example below.

“VOLUME DOWN” IR Hex code: 0000 006D 0000 0027 00AB 00AB 0012 0012
0012 0012 0012 0012 0012 0012 0012 0012 0012 0039 0012 0039 0012 0012 0012 0012 0012 0039
0012 0039 0012 0039 0012 0039 0012 0012 0012 0012 0012 0012 0012 0012 0012 00AB
0012 0012 0012 0012 0012 0012 0012 0012 0012 0012 0012 0012 0012 0012 0012 0039
0012 0039 0012 0039 0012 0039 0012 0012 0012 0039 0012 0039 0012 0039 0012 0012
0012 0012 0012 0012 0012 0012 0012 0039 0012 0838

Custom/Additional Propertie			
VOLUME DOWN	0000 006D 0000 0027 00AB	no	
INFO	<ENTER COMMAND>	no	
MENU	<ENTER COMMAND>	no	
MUTE TOGGLE	<ENTER COMMAND>	no	
VOLUME UP	<ENTER COMMAND>	no	

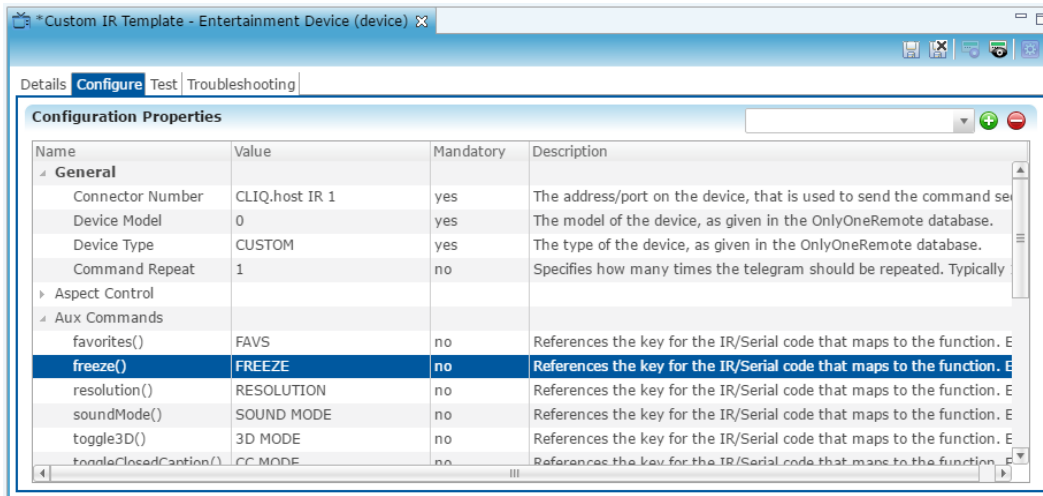
5. Repeat steps 1 through 4 for each custom button that you want to assign, and then click the **Save** button .

For a list of all properties and their corresponding button names, see Table 1 on page 11.

6. Remove all unused functions and commands from the template.

To remove unused functions and commands:

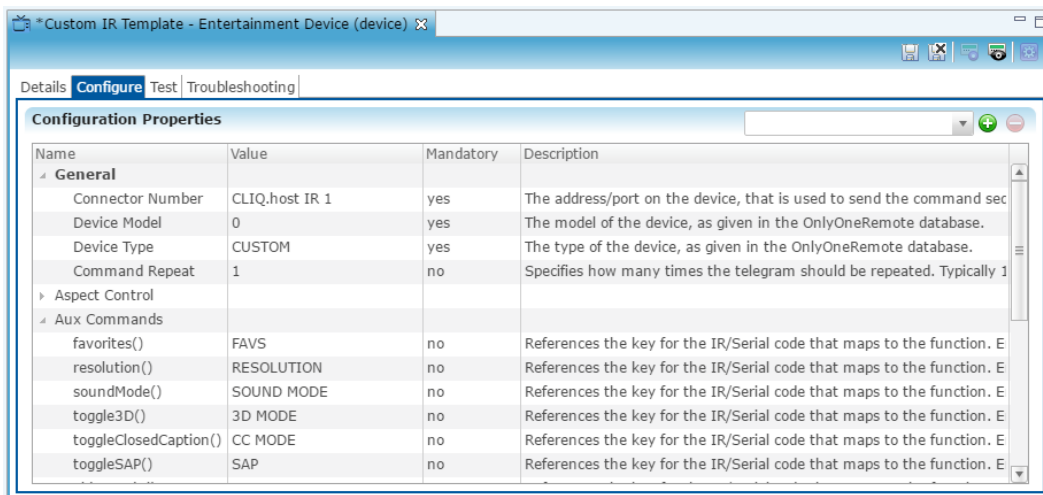
1. Select the desired function in the template.



2. In the Configuration Properties top-right corner, click the **Remove** icon .



The function is removed from the template.



3. Repeat steps 1 through 2 for each unused template.
4. Deploy your project.

Entertainment UI

The table below contains a list of all supported entertainment buttons. Use the table to create and map custom buttons. For UI images and examples, see the [Custom One-Way Entertainment IP, IR, and Serial Driver Release Notes \(DOC ID 764\)](#) in the Knowledge Base.

Table 1: Properties and their button names

Control Point Name	Button Name
audioMediaSource	nextSource()
displayAspect	listAspectModes() aspectToggle()
sourceAspect	listAspectModes() aspectToggle()
sourceAuxCommands	favorites() freeze() resolution() slink() soundMode() toggle3D() toggleClosedCaption() toggleSAP() videoMode() widgets()
sourceChannel	channelDown() channelBack() channelUp()
sourceDigitKeypad	clear() digit0() digit1() digit2() digit3() digit4() digit5() digit6() digit7() digit8() digit9()

Control Point Name	Button Name
	digitPlus10() digitPlus100() digitSeparator() digitEnter()
sourceDvr	list() live() record() replay() skip()
sourceFunctionKeys	functionA() functionB() functionBlue() functionC() functionD() functionGreen() functionRed() functionYellow()
sourceMenuNavigation	cursorDown() cursorLeft() cursorRight() cursorUp() menuExit() menu() popupMenu() menuSelect() settingsMenu() titleMenu()
sourcePlayback	forward() pause() play() reverse() stop()
sourcePlaylist	playlistNext() playlistPrevious()

Control Point Name	Button Name
sourceTVGuide	guide()
	info()
	nextDay()
	pageDown()
	pageUp()
	prevDay()
volume	mute()
	volumeDown()
	volumeUp()

Contact information

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