



TOTAL CONTROL

**SHELLY CLOUD
INTEGRATION GUIDE**

Shelly

**SHELLY CLOUD
INTEGRATION GUIDE**



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Overview

URC's **Shelly Cloud** two-way module **provides control** and **feedback** to a variety of compatible Shelly devices, including lights, sensors, relays, and more. The module also provides **custom macro integration** and **advanced automation capabilities**.

To **learn more** about Shelly, please visit their [website](#).



Requirements

- The Shelly device must be **fully configured and operational** prior to integrating with Total Control.
- Shelly recommends assigning a **static IP address** to all devices for optimum speed in communicating. Alternatively, a **DHCP/MAC Reservation** can be set within the system's local router.
- Assure that the .TCM3 module has been **downloaded and imported** onto the programming computer.

For more information on how to import a two-way module, please refer to the [Working with Two-way Modules](#) document.

- The Shelly system must adhere to the **device limitations** of the **Accelerator software** which is a **maximum of 255 devices**.

General Information

Module: Shelly Cloud

Developer: URC

File Type: *.tcm3

Communication: IP

Category: Aux / Lighting

Module Type: Core / Interface / Device

Multiple Core Support: No

Unified: Yes [Lighting only]

URC Compatibility: Flex 2 & Accelerator 3

Device Events: Yes

Two-way Module Commands: Yes

Configuring a Shelly Device

Setting up a Shelly device requires the user to connect to the device's wireless ad hoc network, then configure the device to a local wireless network.

1. Power on the Shelly device. This **enables its wireless ad hoc network** by default.

Due to the size of many Shelly devices, it is recommended to configure **one device** at a time to simplify the process.

2. Using a computer, **connect** to the Shelly access point using WiFi. The access point name is a **combination** of the **device model** and a **MAC address**.



If the device's ad hoc network is **not visible**, try **factory defaulting** the device. Refer to the device's manual for the specific process to default it.

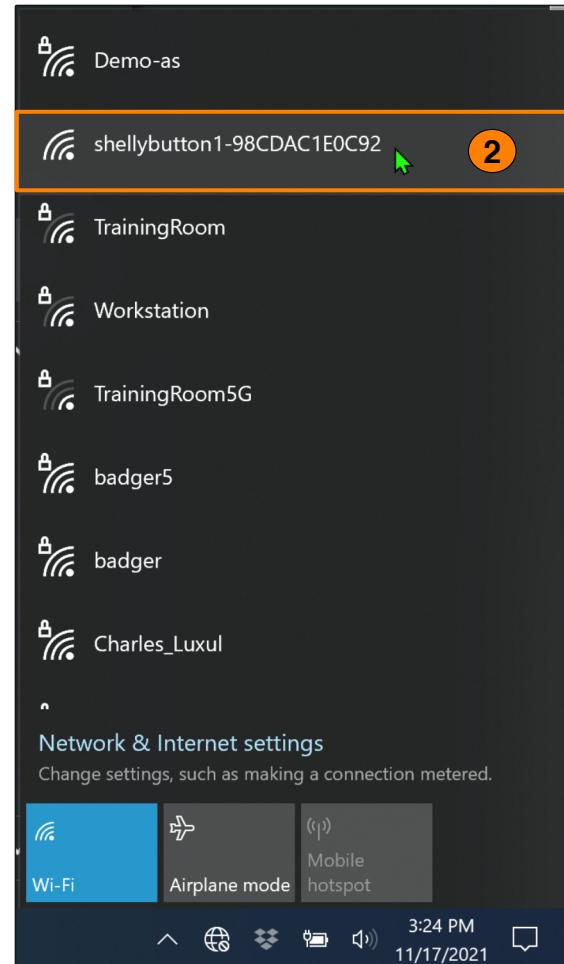


If your PC is using a **static IP address**, **VPN**, or **proxy**, it may need to be disabled if the PC is not connecting to the Shelly device.

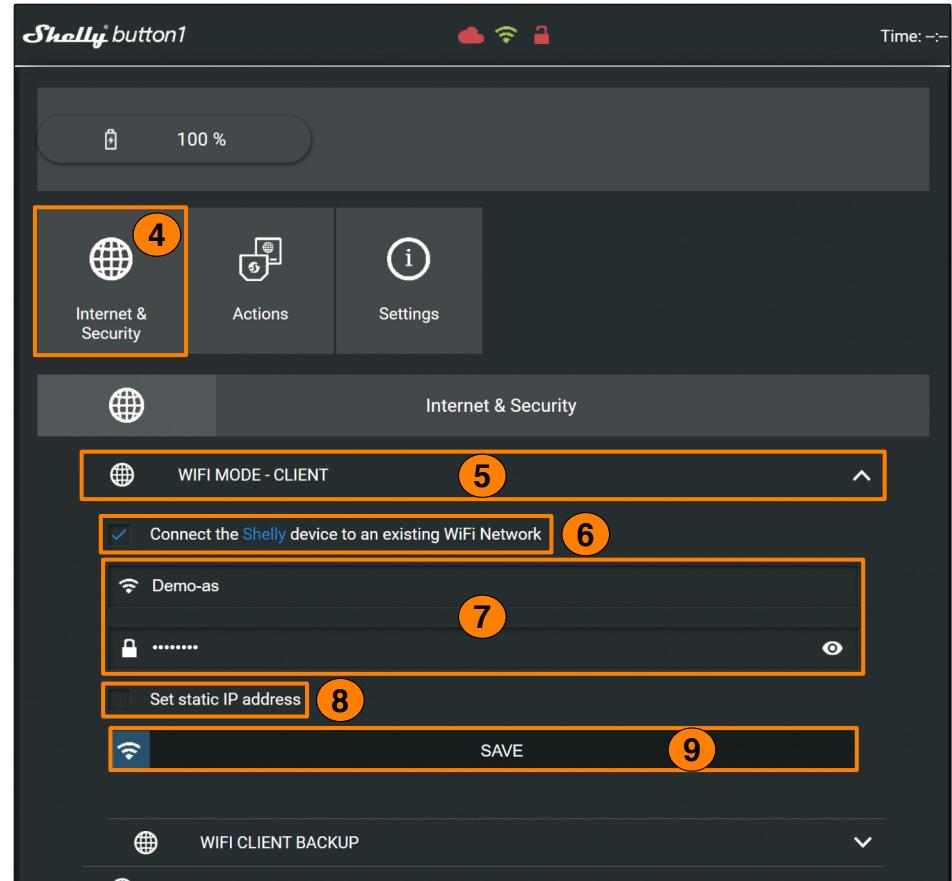


Shelly devices communicate via WiFi. If a Shelly device is **battery powered**, it is normal for the device to **fall asleep** and **disconnect** from the network to save power. When the device wakes up, it **automatically reconnects** to the network.

2



3. Open an **internet browser** and enter the **Shelly device's default IP address (192.168.33.1)** to access the device's web user interface.
4. Select the **Internet & Security** tab.
5. Select **WiFi Mode - Client**.
6. Select the **checkbox** for connecting the Shelly device to an existing network.
7. Enter the WiFi network **name** and **password**. Shelly devices currently **only** connect to **2.4Ghz WiFi networks**.
8. Select the **checkbox** for setting a **static IP address** and enter the **desired IP address** for the device.
9. Select **Save**. The Shelly device then reboots and connects to the specified network. Access your network router to **confirm the device** is on the network and has a **static IP address**.



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Adding & Configuring the Module

TCM files are found on the [URC Dealer Portal](#). Once you have downloaded and imported the file, perform the following steps to add the module to a project:

This module can be added to any new or existing Total Control system.

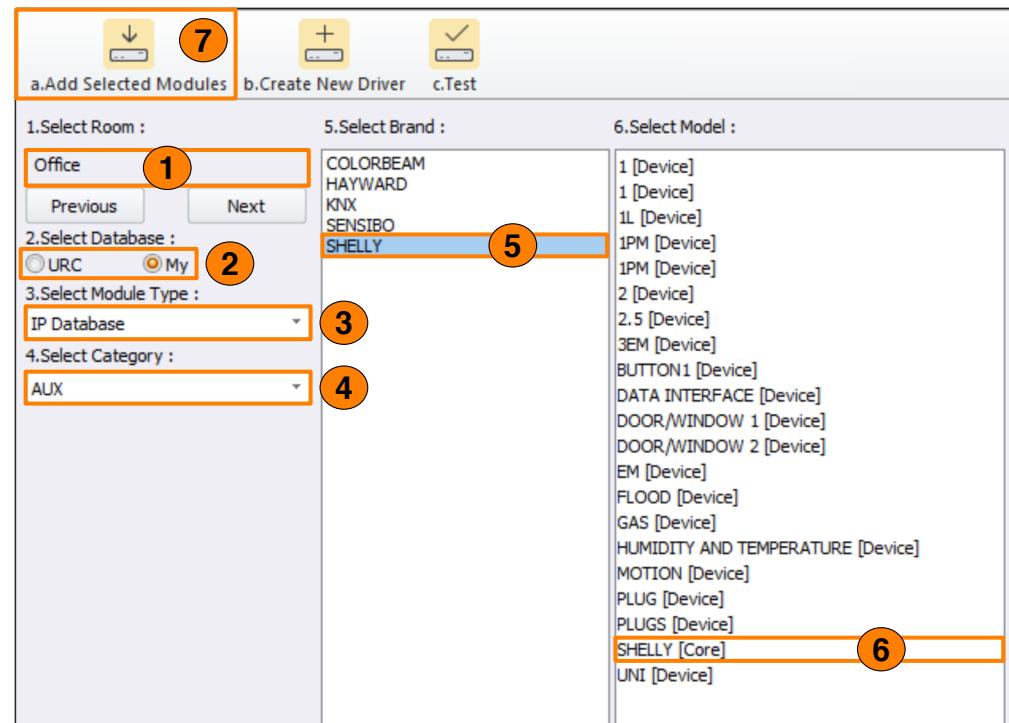
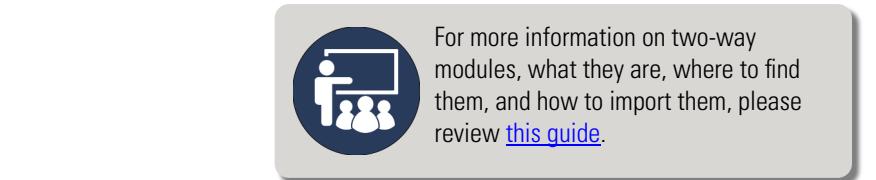
Adding the [Core]

The **[Core]** module contains all the system data that runs and operates the module. These work in conjunction with a **[Device]** module to provide simple/advanced control of supported devices. **[Core]** modules do not display on any interface.

Step 4: Add Other Devices



1. Select a **room** for the core to be added to.
2. Select **My Database**.
3. Select **IP Database**.
4. Select **Aux** category.
5. Select **Shelly** from the brand list.
6. Select **Shelly [Core]** from the model list.
7. Select **Add Selected Modules** to add it to the project.



Choose which room in the system to place the module. This two-way device **requires a single (1) Core module** in the system. It is a best practice to place the Core module into a room labeled "**Core**". This room can be hidden later from the **Room Properties** menu.

4

Adding a [Device]

Individual Shelly devices are **integrated** by adding the corresponding **[Device]** listed in either the **Aux** or **Lighting** categories. To add a **[Device]**, perform the following:

1. Select a **room** for the device to be added to.
2. Select **My Database**.
3. Select **IP Database**.
4. Select the **Aux** or **Lighting** category.
5. Select **Shelly** from the brand list.
6. Select the **applicable [Device]** from the model list.
7. Select **Add Selected Modules** to add it to the project.



Ensure devices are added to the room where the **physical device** is located.

1. Select Room :	2. Select Database :	3. Select Module Type :	4. Select Category :	5. Select Brand :	6. Select Model :
Office	<input type="radio"/> URC <input checked="" type="radio"/> My	IP Database	AUX	COLORBEAM HAYWARD KNX SENSIBO SHELLY	1 [Device] 1 [Device] 1L [Device] 1PM [Device] 1PM [Device] 2 [Device] 2.5 [Device] 3EM [Device] BUTTON1 [Device] DATA INTERFACE [Device] DOOR/WINDOW 1 [Device] DOOR/WINDOW 2 [Device] EM [Device] FLOOD [Device] GAS [Device] HUMIDITY AND TEMPERATURE [Device] MOTION [Device] PLUG [Device] PLUGS [Device] SHELLY [Core] UNI [Device]

Aux Category Shown

1. Select Room :	2. Select Database :	3. Select Module Type :	4. Select Category :	5. Select Brand :	6. Select Model :
Office	<input type="radio"/> URC <input checked="" type="radio"/> My	IP Database	Lighting	KNX LUTRON PHILIPS SHELLY	DIMMER 1/2 [Device] DUO [Device] DUO RGBW [Device] RGBW2 [Device] VINTAGE [Device]

Lighting Category Shown



While several devices are available, this guide uses **Motion** for an integration example. The steps are the same regardless of the **[Device]**.

8. The **Unified Module - Room Selection** window pops up. This window is asking what rooms to provide access to the unified module.

Only controllable devices such as **lights** appear in the **unified lighting module**. Sensors, relays, and other devices are displayed in the **Data Interface**. See [page 21](#) for more details.

9. If adding a **lighting device**, select the rooms for **Lighting Control** to be displayed in.

10. Select **Apply**.

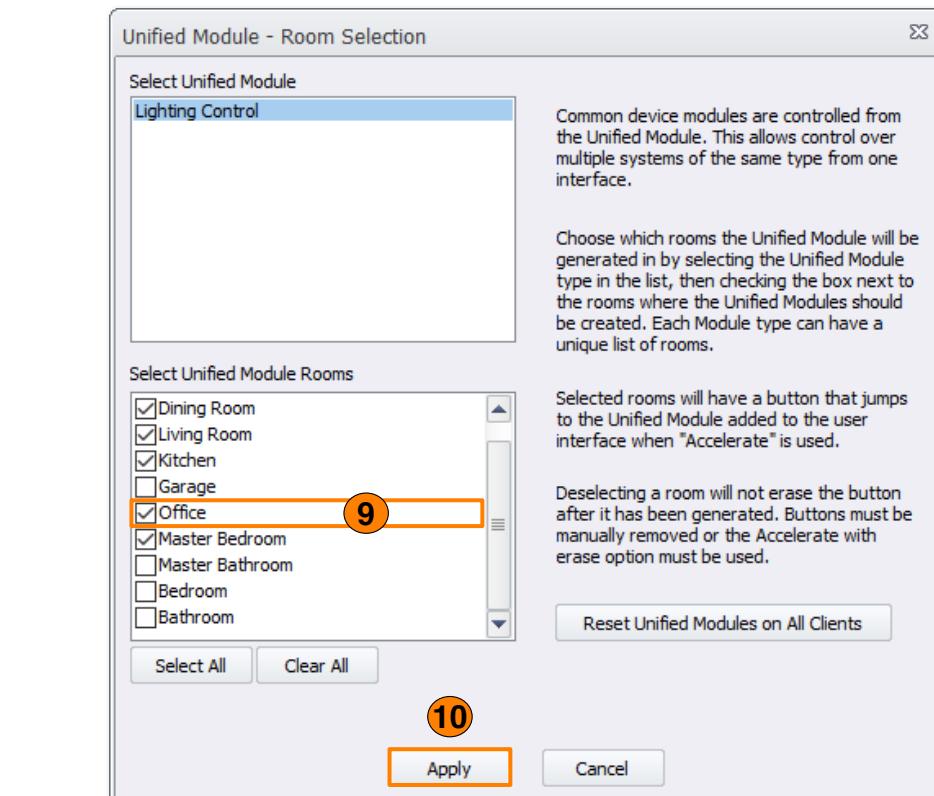
11. The **Module Properties - Device Module** window pops up. This window allows for a **custom device name** to be entered and **links the [Core] to a [Device]**.

12. Select **OK** when finished.

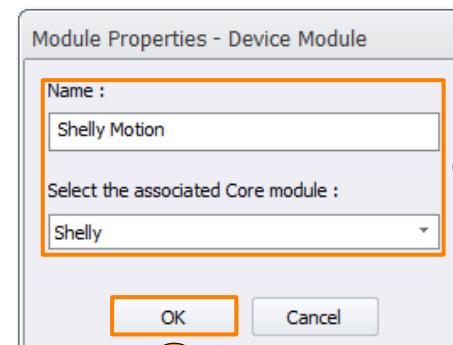
Repeat this process for **each Shelly device** in the system.

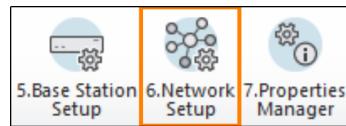


Room selections can be modified later in the **Step 7: Properties Manager**.



Please note, the **custom device name** in the **Project Tree** is the name displayed on the **module interfaces**.



Step 6: Network Setup

1. Select **Non URC Device**.
2. Enter a **dummy IP Address** for the **Shelly device**. This IP address must be **unique** for the module to function properly.
3. The **Port** can be left as is.

The screenshot shows the URC app's network setup interface. At the top, there are three categories: 'a.LAN & Wifi' (yellow icon), 'b.URC Device' (yellow icon), and 'c.Non URC Device' (orange icon, highlighted with a red circle labeled '1'). Below this is a table listing devices by room, device type, IP address, and port.

Room	Device	IP Address	Port
Control Rack	Power	192.168.18.5	80
Control Rack	NVR	192.168.18.130	80
Control Rack	AVR	192.168.18.161	23
Control Rack	Shelly	0.0.0.7	0
Office	TV	192.168.18.75	80

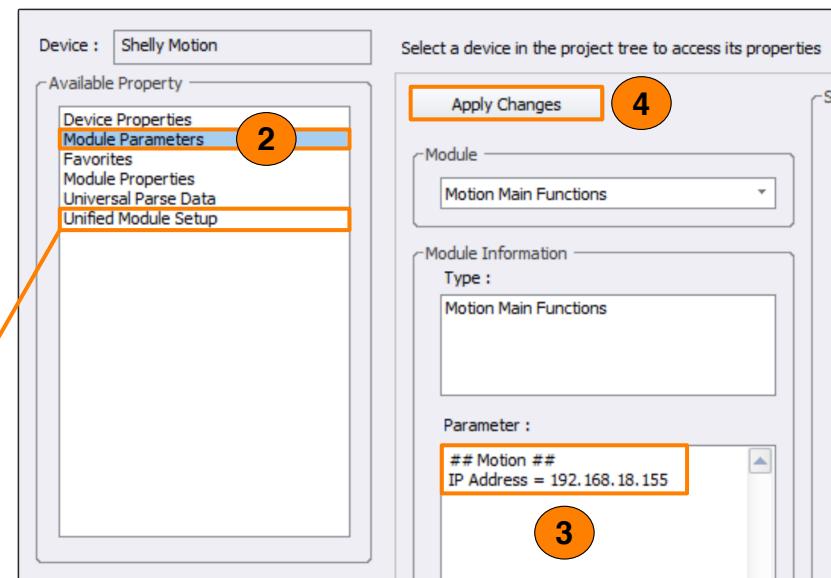
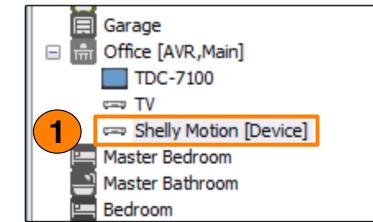
Step 7: Properties Manager

The **permanent IP address** must be entered in the **module parameters** for **each Shelly device** in the system.

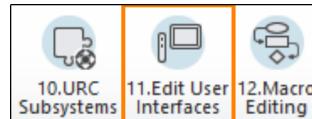
1. Select the **[Device]** from the project tree.
2. Select **Module Parameters** from the available properties list.
3. Enter the permanent **IP Address** for the [Device].
4. Select **Apply Changes**.
5. Repeat these steps for **each [Device]** in the project.



Unified Module Setup may be used to **modify room selections** for Unified modules.



Ensure that there are no additional **spaces, characters, or line carriages** when editing parameters.

Step 11: Edit User Interfaces**1. Select Accelerate!**

a. Generate Menus & Devices **b. Edit Menus by Room** **c. Edit Device Layouts**

Submenu System Options

Included Submenus

Entertainment :	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Music :	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Lights :	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Comfort :	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Security :	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Info :	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Settings :	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Multiple Displays :	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Timer :	<input type="radio"/> Yes	<input checked="" type="radio"/> No

Submenus are only created if there will be buttons present. Empty submenus are not generated.
If a submenu is set "No", any button that would normally be there will instead be generated on the main menu.

Timers Items
Select an item and a jump to it will be created in the appropriate menu for each room

- Sleep Timer
- Event Timer
- Alarm Clock
- Vacation Mode

Choose the setup options for the User Interfaces in the system. When ready press the Accelerate Button

Accelerate! **1**

Music Menu Options

Use dedicated Multi-Room Music submenu
This option will create a dedicated sub menu for the URC Audio Multi-Room Music available to a room, as well as a Music submenu for local music sources available only to that room.
Edits made to this URC Audio submenu are duplicated in every room's URC Audio submenu; this should reduce the time spent editing this unique submenu.
However it is NOT possible to remove a URC Audio source from the submenu, or add a non-URC Audio source to the submenu.

Use combined Music submenu
This option will create a single Music submenu in all applicable rooms. This submenu will contain both URC Audio sources AND local sources available to that room.
Edits must be made on a per-room basis. There are no GLOBAL changes.



By default, buttons to access the **Lighting Control** module are placed on the **Main Menu**.

This button can be relocated to a different page or sub-menu by **dragging-n-dropping** it into the desired location.

Keep in mind, if the system is Accelerated with the **ERASE** option, this button **returns to its original position** on the Main Menu.

a. Generate Menus & Devices **b. Edit Menus by Room** **c. Edit Device Layouts**

Main Menu Pages

1. Selected Room : Office **2. Select View :** TC Model

Page 1

Main Menu Buttons

- Entertainr
- Music
- Settings
- NVR
- Lighting Cr**
- Sleep Time

Hide Main Menu **Previous Page**

Step 12: Macro Editing



1. Select **Accelerate!**
2. Make additional programming changes as needed within the remaining steps. Once completed, save the project and **Download** to the system.

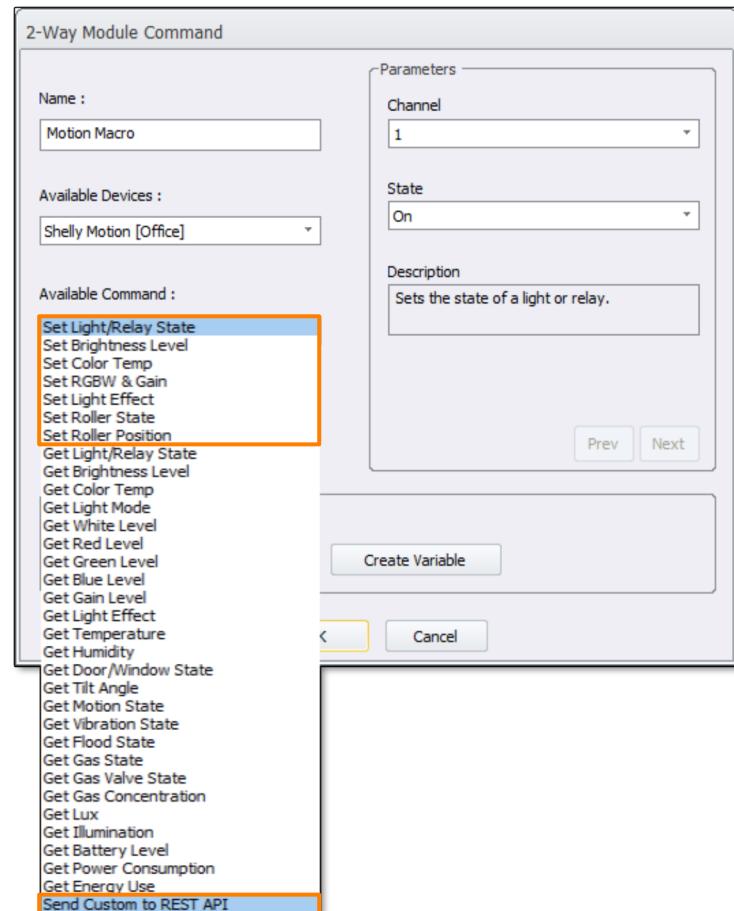
The screenshot shows the 'Macro Programming Options' dialog box. At the top, there are five tabs: a. Auto Macro Generation (selected, highlighted in yellow), b. Macro By Room, c. Special Macros, d. Automation Macros, and e. TKP-100 Macros. Below the tabs are three main sections: 'Macro Acceleration Options', 'TV Off Command', and 'Source Device Power'. In the 'Macro Acceleration Options' section, two radio button options are shown: one selected ('Preserve user edited macros while generating macros') and one unselected ('ERASE ALL existing macros and create new ones using these options'). In the 'TV Off Command' section, two radio button options are shown: one selected ('TV Device Power OFF command is generated only for the ROOM OFF macro') and one unselected ('TV Device Power OFF command is generated for ROOM OFF and MUSIC macros'). In the 'Source Device Power' section, two radio button options are shown: one selected ('Devices are turned ON when needed and turned OFF only when a ROOM OFF command is issued.') and one unselected ('Devices are turned ON as needed and turned OFF when NOT NEEDED, or a ROOM OFF commands is issued.'). A note on the right side of the dialog box reads: 'Choose the setup options for auto generation of macros in the system. When ready press the accelerate button'. At the bottom right of the dialog box is a large orange button labeled 'Accelerate!' with the number '1' in a circle.

Two-way Module Commands

Two-way module commands are special one-way functions that are derived from the two-way module, and are the only way to send discrete commands to the Shelly system.

Before creating a macro, ensure the **correct device** has been selected from the **Available Devices list**.

- **Set Light/Relay State:** Sets the light or relay to a specified **state**. [On | Off]
- **Set Brightness Level:** Sets a device's **brightness** to a specified **level**. [0 - 100]
- **Set Color Temp:** Sets a device's **light** to a specified **temp**. [2700 - 6500]
- **Set RGBW & Gain:** Sets an RGBW device to a **specific color** and specifies its **gain level**. [R, G, B, W, 0 - 100]
- **Set Light Effect:** Sets a **programmed light effect** for the device. [Off | Meteor Shower | Gradual Change | Flash]
- **Set Roller State:** Sets the roller to a specified **state**. [Open | Close | Stop]
- **Set Roller Position:** Sets the roller to a specified **position**. [0 - 100]
- **Send Custom to REST API:** Allows a custom **POST** request to be sent to a specified device.



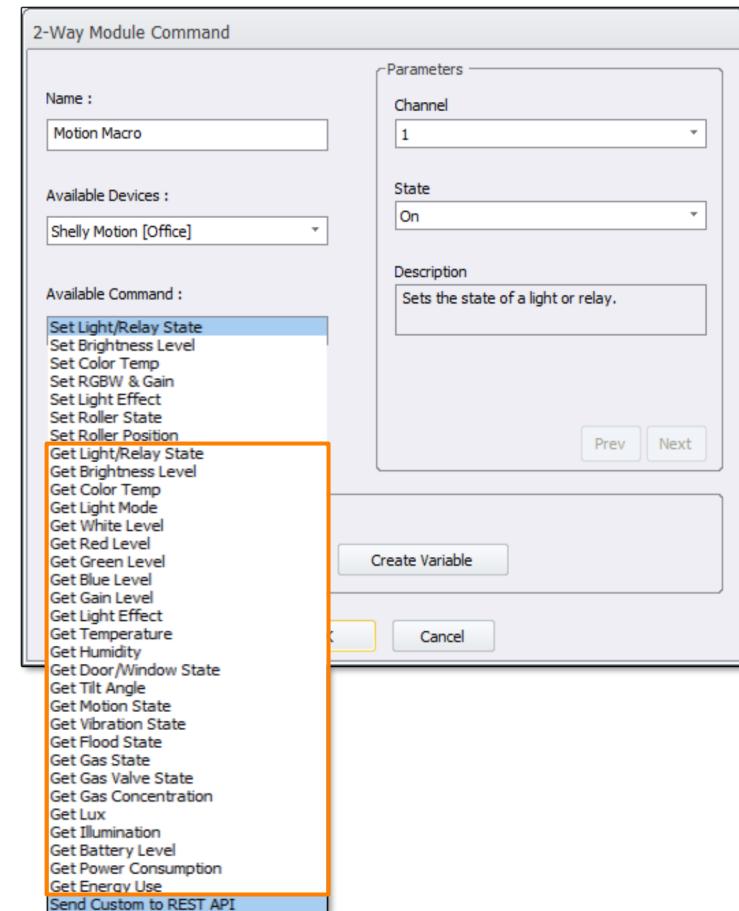
Two-way commands **only work with supported devices**. For example, a roller command will not function with a lighting device.

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Query Commands

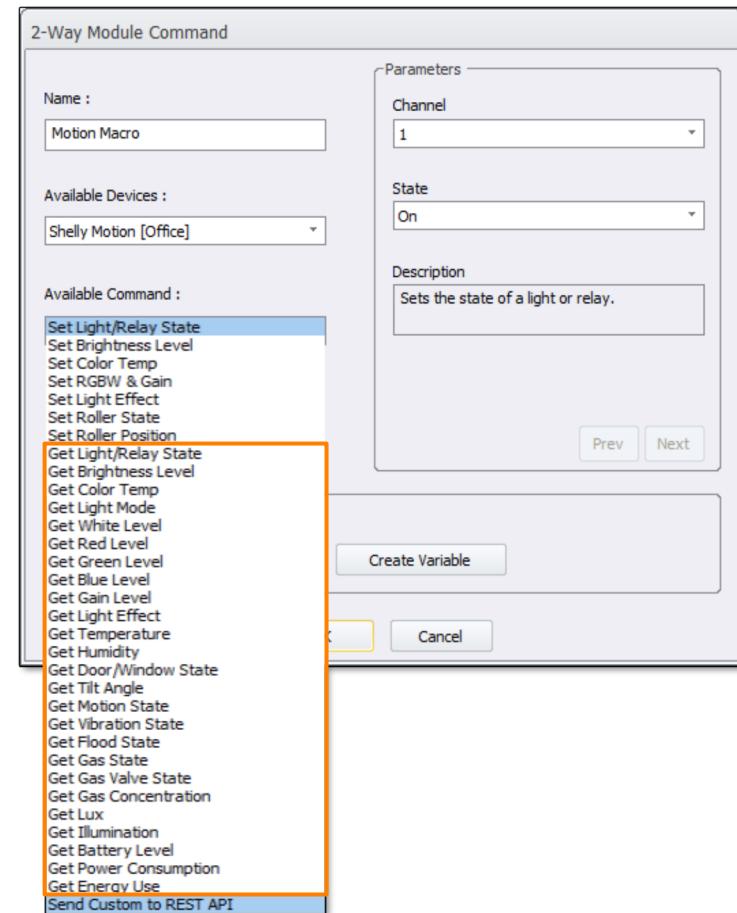
Query Commands allow the Total Control system to ask a device for information. The information can be saved as a variable and used in conjunction with conditional logic to create advanced reactive macros.

- Get Light/Relay State:** Reads the **current state** of the light or relay. [0 - Off | 1 - On]
- Get Brightness Level:** Reads the **current brightness level** of the device. [0 - 100]
- Get Color Temp:** Reads the **current color temp** of the device. [2700 - 6500]
- Get Light Mode:** Reads the **current light mode** of the device. [Color | White]
- Get White Level:** Reads the **current white level** of the device. [0 - 255]
- Get Red Level:** Reads the **current red level** of the device. [0 - 255]
- Get Green Level:** Reads the **current green level** of the device. [0 - 255]
- Get Blue Level:** Reads the **current blue level** of the device. [0 - 255]
- Get Gain Level:** Reads the **current gain level** of the device. [0 - 100]
- Get Light Effect:** Reads the **current light effect** of the device. [0 - Off | 1 - Meteor Shower | 2 - Gradual Change | 3 - Flash]
- Get Temperature:** Reads the **current temperature** and displays it in either **Celsius** or **Fahrenheit**.
- Get Humidity:** Reads the **current humidity**.
- Get Door/Window State:** Reads the **current state** of the specified door or window. [Open | Close]



Query commands, variables, conditional logic, Device Events, and more are ONLY available within the **Total Control Experience**. If this option is not available, speak with a **URC Representative** for more details.

- **Get Tilt Angle:** Reads the **current tilt angle** of the device. [0 - 180]
- **Get Motion State:** Reads the **current motion state** of the device. [0 - Off | 1 - On]
- **Get Vibration State:** Reads the **current vibration state** of the device. [0 - Off | 1 - On]
- **Get Flood State:** Reads the **current flood state** of the device. [True | False]
- **Get Gas State:** Reads the **current gas state** of the device.
[None | Mild | Heavy | Test | Unknown]
- **Get Gas Valve State:** Reads the **current gas valve state** of the device.
[Not Connected | Closed | Opened | Failure | Closing | Opening | Checking | Unknown]
- **Get Gas Concentration:** Reads the **current gas concentration (ppm)** of the device. [0 - 65535]
- **Get Lux:** Reads the **current lumens** of the device. [0 - 100000]
- **Get Illumination:** Reads the **current illumination level** of the device.
[Bright | Twilight | Dark]
- **Get Battery Level:** Reads the **current battery level** of the device. [0 - 100]
- **Get Power Consumption:** Reads and displays the **current power use** in watts.
- **Get Energy Use:** Reads and displays the **current power use per minute** in watts.
- **Send Custom to REST API:** Allows a custom **GET** request to be sent to a specified device.



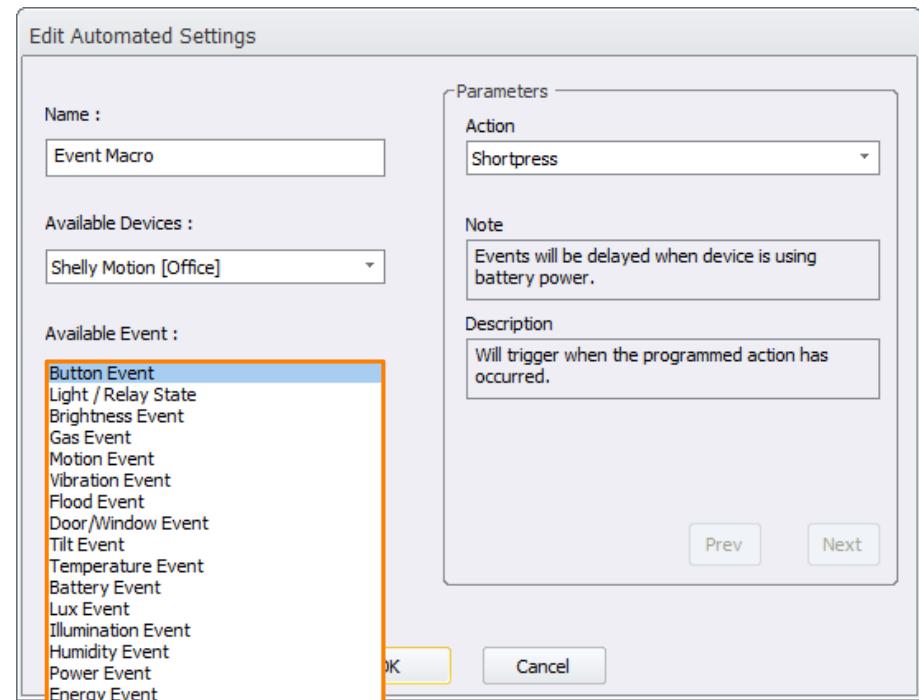
Query commands, variables, conditional logic, Device Events, and more are ONLY available within the **Total Control Experience**. If this option is not available, speak with a **URC Representative** for more details.

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Device Events

The Shelly module has the ability to trigger custom macros based on device status changes.

- **Button Event:** Triggers the macro when the **button is pressed**.
[Short-press | Long-press | Double-press | Triple-press]
- **Light/Relay State:** Triggers the macro when the specified **light or relay state changes**. [1, 2, 3, 4 | On, Off]
- **Brightness Event:** Triggers the macro when the brightness level **falls below, raises above, or becomes equal to a specified value**.
- **Gas Event:** Triggers the macro when a **specified gas state** is reached.
[None | Mild | Heavy | Test | Unknown]
- **Motion Event:** Triggers the macro based on a **specified motion state**. [On | Off]
- **Vibration Event:** Triggers the macro based on a **specified vibration state**. [On | Off]
- **Flood Event:** Triggers the macro based on the **current flood state**. [Detected | Off]
- **Door/Window Event:** Triggers the macro based on the **current door or window state**. [Open | Close]
- **Tilt Event:** Triggers the macro when the device tilt angle **falls below, raises above, or becomes equal to a specified value**.



There may be **slight latency** when triggering an event if the Shelly device is **battery powered**. Setting a **static IP address** during setup may **reduce latency**.

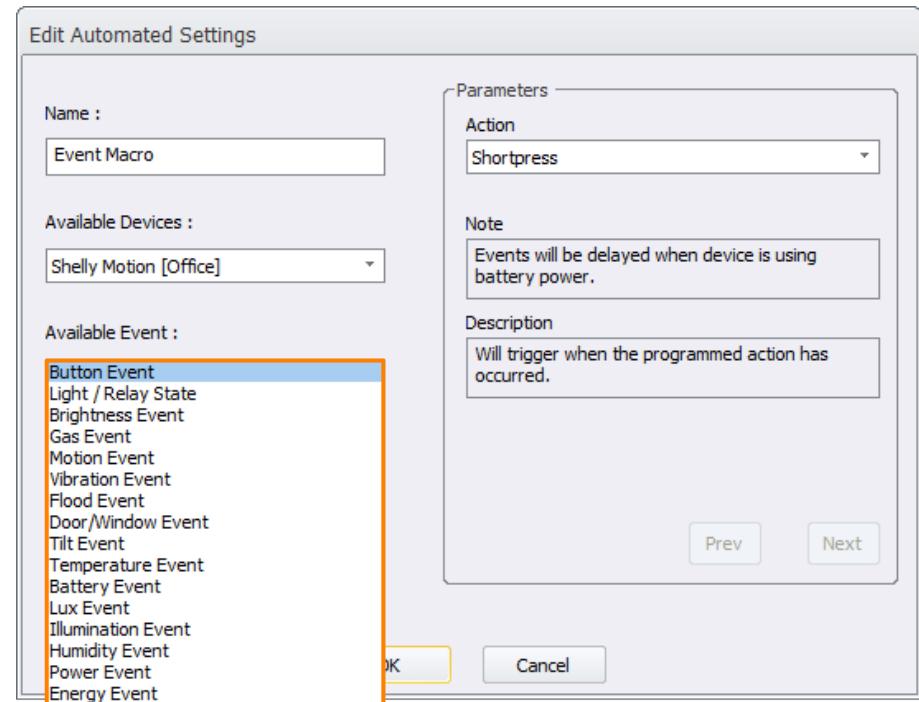
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- Temperature Event:** Triggers the macro when the temperature **falls below**, **raises above**, or **becomes equal to a specified value**.
- Battery Event:** Triggers the macro when the battery level **falls below**, **raises above**, or **becomes equal to a specified value**.
- Lux Event:** Triggers the macro when lumens **falls below**, **raises above**, or **becomes equal to a specified value**.
- Illumination Event:** Triggers the macro when a device's **illumination** changes to a **specified level**. [Bright | Twilight | Dark]
- Humidity Event:** Triggers the macro when the humidity **falls below**, **raises above**, or **becomes equal to a specified value**.
- Power Event:** Triggers the macro when the power level **falls below**, **raises above**, or **becomes equal to a specified value**.
- Energy Event:** Triggers the macro when power consumption **falls below**, **raises above**, or **becomes equal to a specified value**.

Training Resources

For additional information on using macros in automation, and macro theory, refer to the following Self-Paced Tutorials linked below:

- [Making the Most of Two-Way Modules](#)
- [Macro Theory](#)
- [Using Macros in Automation](#)



There may be **slight latency** when triggering an event if the Shelly device is **battery powered**. Setting a **static IP address** during setup may **reduce latency**.

Using the Module

This section of the document explains how to operate the lighting unified module. Disregard this section if no lighting devices were added to the project.

Launching the Module

1. Navigate to the room where the **Lighting Control** button is located and select it.
2. Select a room from the available list.



3. The UI displays controls for all available lights..



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Lighting Control

Below are descriptions of the available buttons on the **Lighting Control** window:

- A. Color Picker:** Select this button to display the color section page. This page allows the user to change the color of the selected lights. This only displays if supported by the lighting device.
- B. On/Off Toggle:** Select this button to toggle the selected lights **On** or **Off**.
- C. Brightness Slider:** Adjust the slider to left or right to adjust the light's brightness level. This only displays if supported by the lighting device.
- D. Rooms Menu:** Click on this button to return to the Rooms Menu.
- E. Options Menu:** When selected, provides the following options:
 - **Add/Remove:** Allows the end-user to add/remove additional lights to the current Room. These lights must already be programmed within the supported subsystem.
 - **Reorder:** Allows the end-user to rearrange the Lighting Control list within the current Room.
- F. Back:** Select to return to the Lighting Control - Rooms Menu.



Lighting Control - Assigning a Default Room

A **Default Room** can be assigned to make accessing specific areas more convenient. When a Default Room has been assigned, the **Lighting Control window displays the devices in the specified Room when launched.**

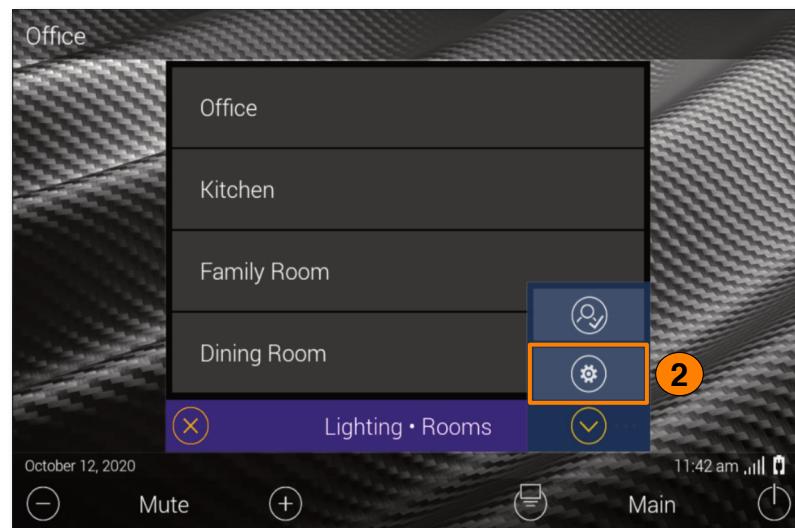
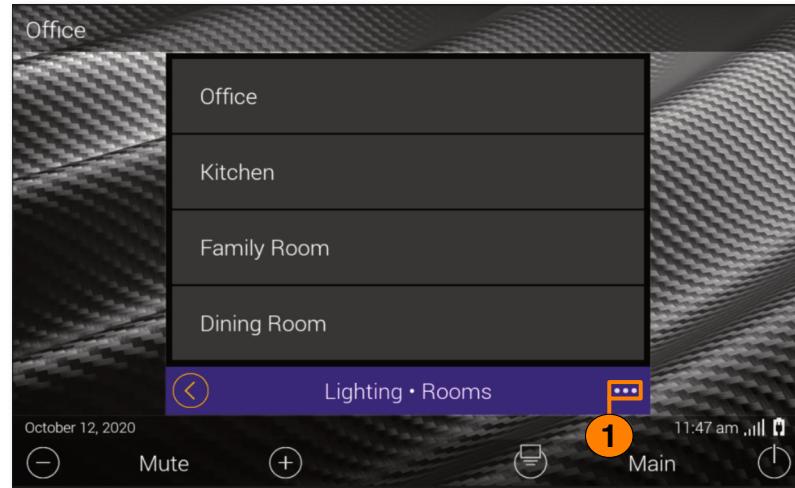
Perform the following from within the **Lighting Control - Rooms Menu** to **assign a Default Room**:

1. Select the **Options Menu**.

There are two (2) available selections:

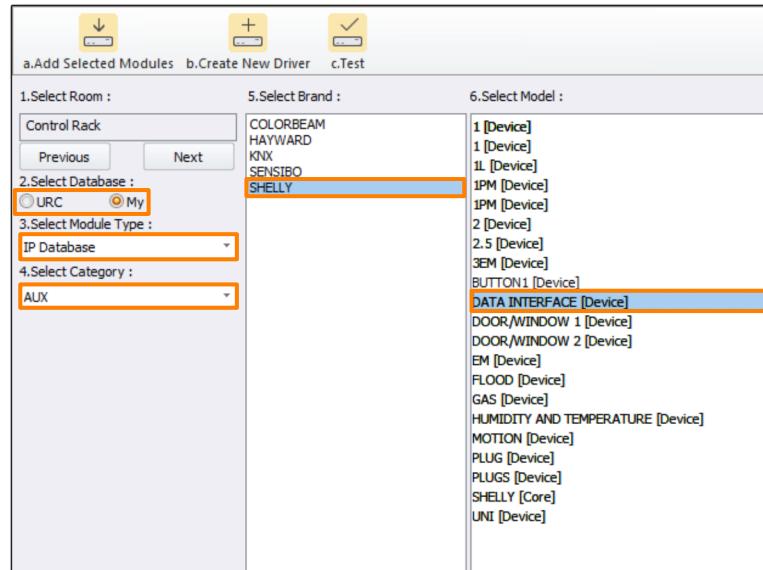
- **Authentication:** Select to complete the authentication process of an integrated subsystem. Not all subsystems require authentication. Refer to the subsystem's Parameters & Reactions document for more details.
- **Default Room Selection:** Click on this option to display the **Default Room to Display Menu**.

2. Select the **Default Room Selection** button.



3. View the **Rooms List** and **select which room to assign** as the default (i.e. Office).
4. Select the **Check Mark to confirm**.
5. When the **module is relaunched**, the end-user is **taken directly** to the **Lighting Control page of the assigned room**.



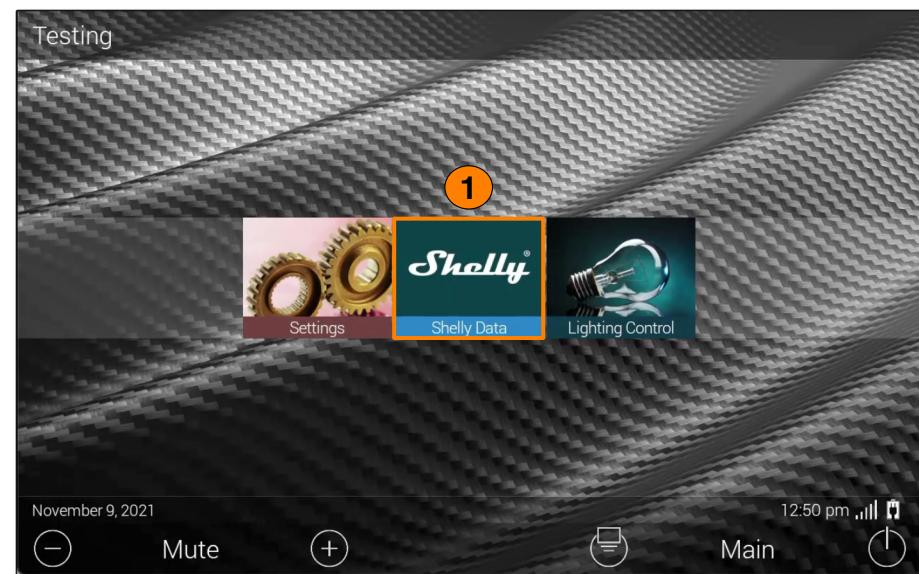


Shelly Data Interface

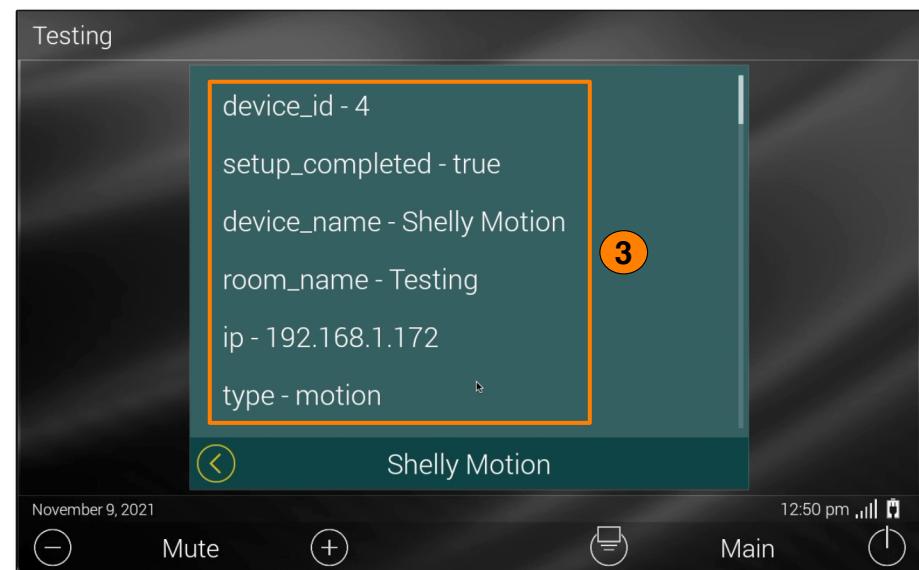
A device information menu has been included with the Shelly module to assist with device integration. Under **Aux**, there is a device labeled **Data Interface**. When added to a room, this device provides access to a **Shelly Data** interface button. Selecting the **interface button** opens a **device list**, and selecting a **device** from that list **displays** its **network information, update history, battery power**, and more.

Accessing the Interface

1. Navigate to the room where the **Shelly Data** button is located and **select it**.



2. Select a **device** from the available list.
3. A new window appears and displays **device information**.



If a device has **low battery power**, or is **offline**, a **battery icon** is displayed next to the device on the device list.

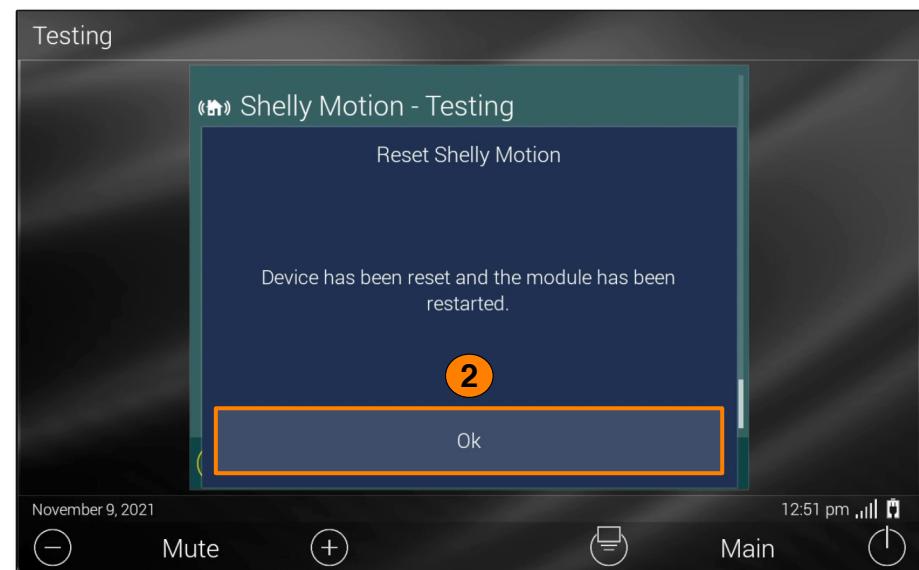


If a device has **not completed** the **setup process**, an **exclamation icon** is displayed next to the device on the device list.

Device Reset

There is a feature on the interface that allows for a **specific device's information to be reset**. This is useful in situations when a device **malfunctions** or **needs to be replaced**. To reset the device, perform the following:

1. After selecting a device from the list, press-n-hold the **Back** button for five (**5**) seconds.
2. A window appears to declare the device has been reset. Select **OK** to return to the device list.



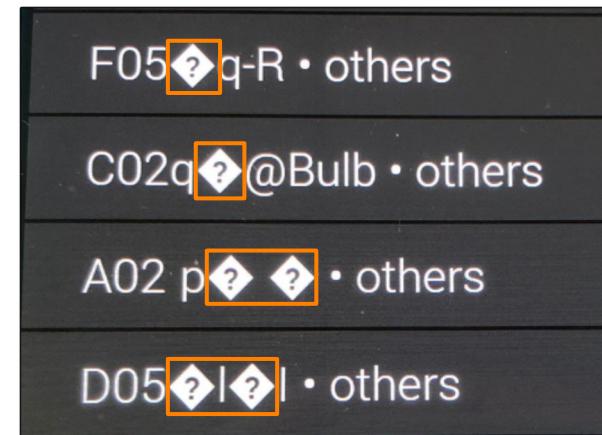
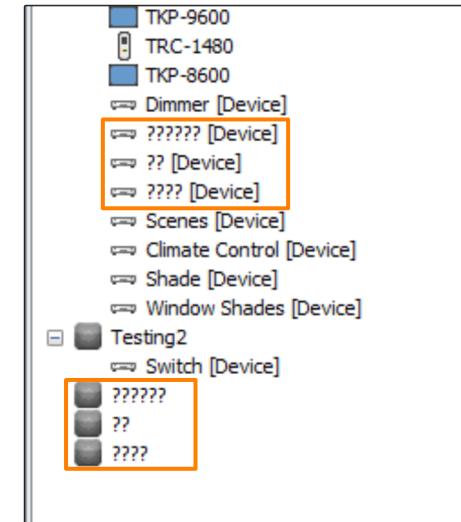
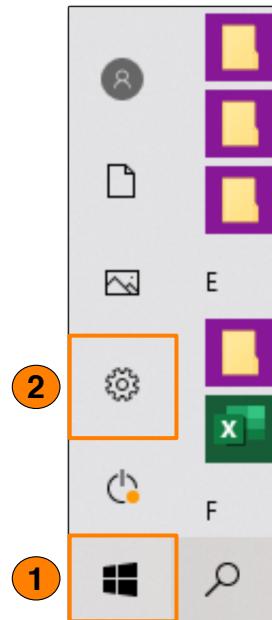
TOTAL CONTROL

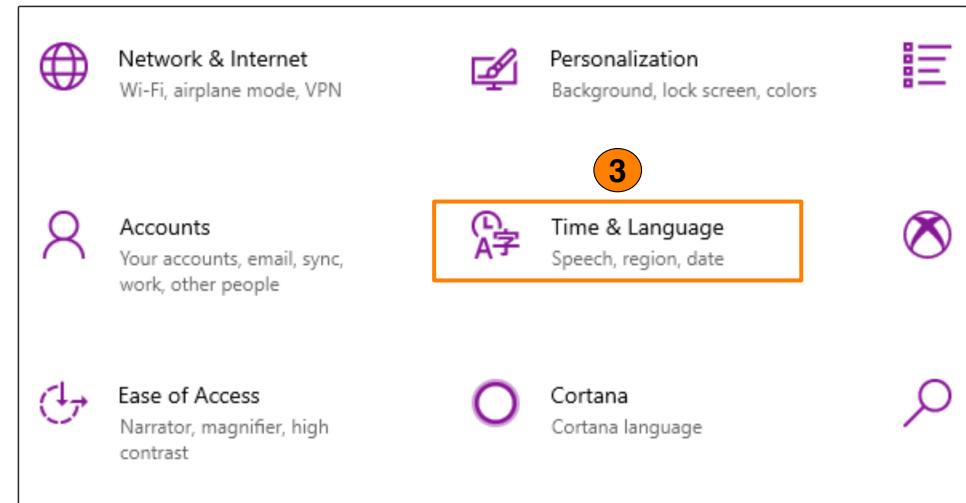
Unicode Troubleshooting

As devices and software modules become more complex there is a greater chance of compatibility issues. Due to regional character support, it is possible to encounter a situation where text is not displayed correctly for both Accelerator software and user interfaces.

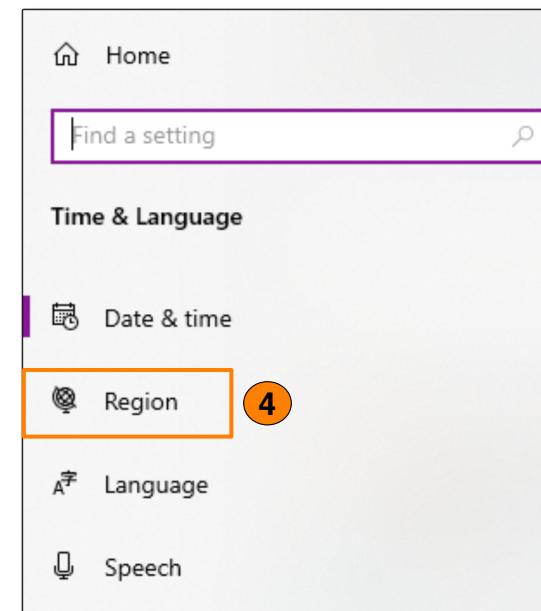
To solve this issue, Worldwide Language Support **must be enabled** on the **PC used for programming**. Perform the following:

1. Select the **Start Menu** icon.
2. Select the **Settings** icon. This opens a new window.



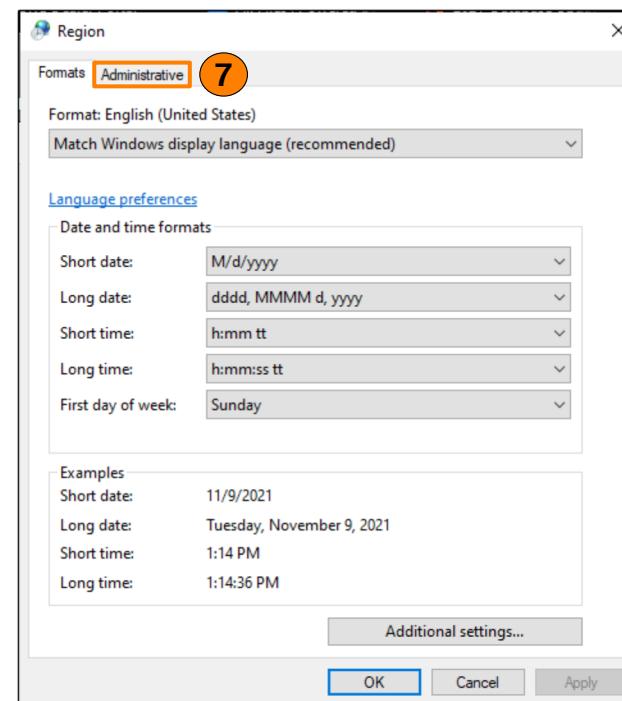
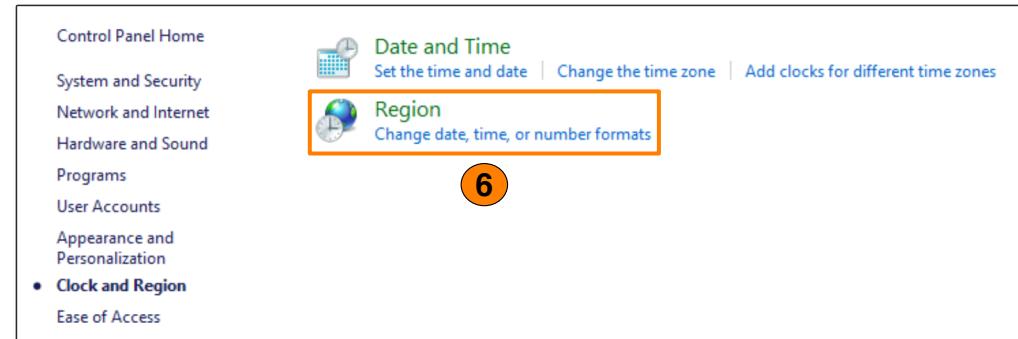
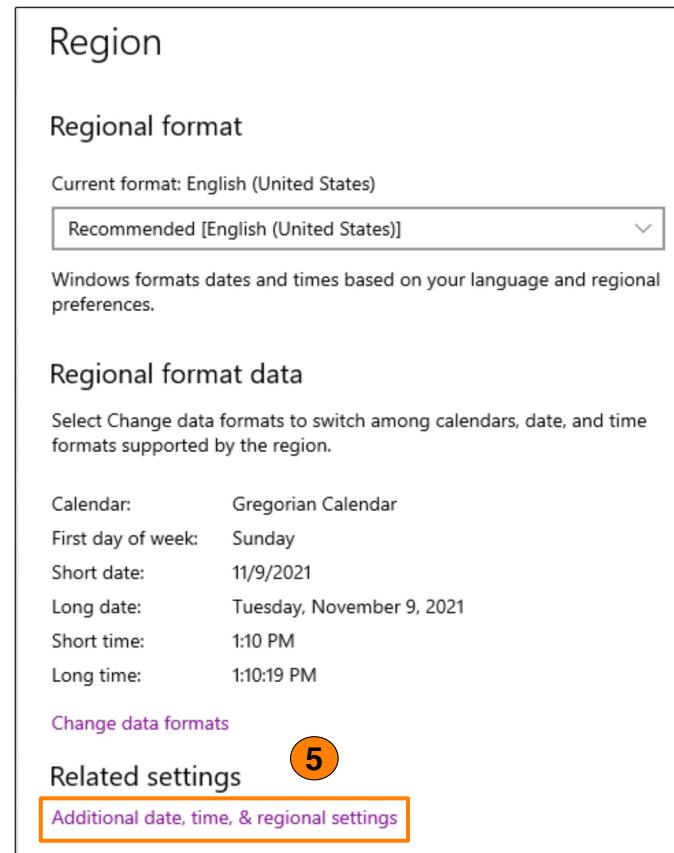


3. On the Settings menu, select **Time & Language**. This opens a new window.
4. Select **Region** from the options on the left.

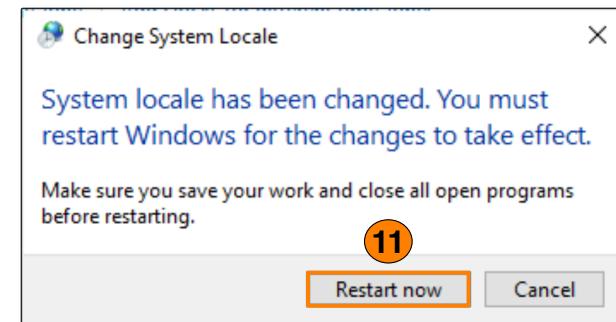
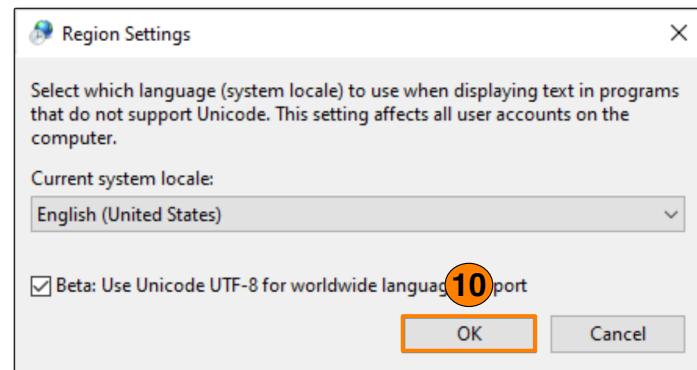
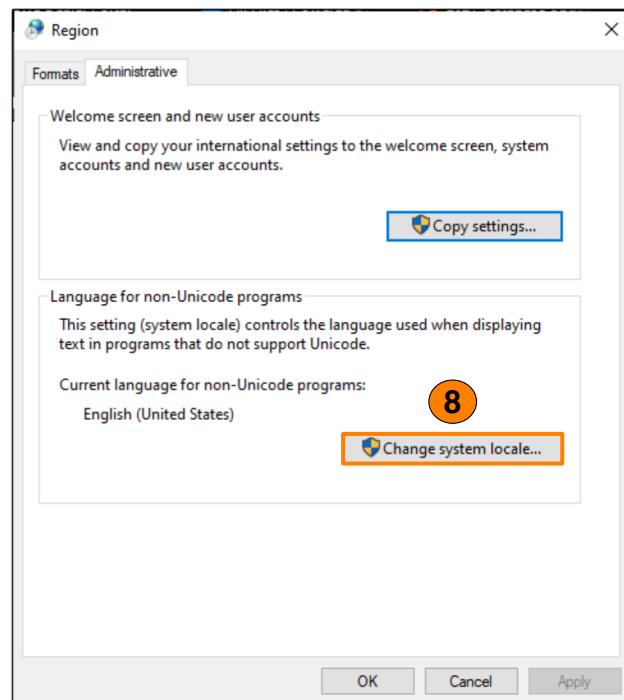
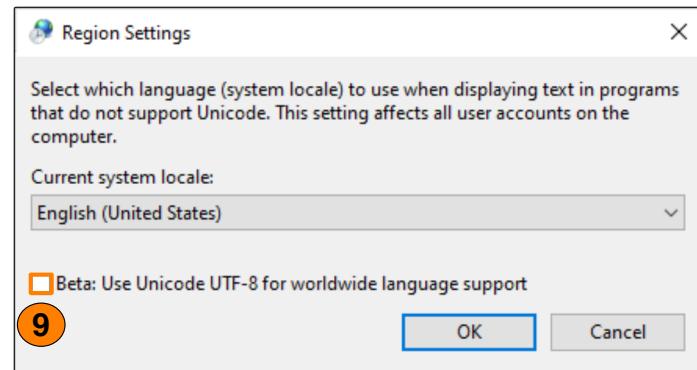


TOTAL CONTROL

5. Under **Related settings**, select the **Additional date, time, & regional settings** link. This opens a new window.
6. Under **Region**, select the **Change date, time, or number formats** link. This opens a new window.
7. Select the **Administrative** tab.



8. Select the **Change system locale...** button. This opens a new window.
9. Select the **empty checkbox** to enable Unicode UTF-8 Worldwide Language Support.
10. Select **OK**.
11. The PC prompts for a restart. Save any necessary work and restart the PC to complete this process.



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