



# COOLAUTOMATION

**CoolAutomation  
Integration Guide**



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## Technical Support

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Hours: 9:00am - 5:00pm EST M-F

# Total Control

## Overview

This Integration Guide covers the set-up of CoolAutomation product range (CoolMaster/CoolMasterPRO/CooLinkBridge/CoolPlugs/CooLinkHub) two-way module in the URC Accelerator software. It assumes that you have already completed training in the URC software and that the CoolAutomation HVAC Bridge (<https://coolautomation.com/partners/URC/>) is already installed and working.

## Requirements

- The CoolAutomation device must be fully configured and operational prior to integrating with Total Control.
- URC requires 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.
- Ensure that the .TCM 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.

## General Information

<b>Module:</b>	CoolMasterNet HVAC TCM
<b>Developer:</b>	URC
<b>File Type:</b>	*.tcm
<b>Communication:</b>	IP
<b>Category:</b>	AUX
<b>Module Type:</b>	Standard
<b>Unified:</b>	No
<b>URC Compatibility:</b>	Accelerator 1
<b>Device Events:</b>	Yes
<b>Two-way Module Commands:</b>	Yes

# Total Control

## Frequently Asked Questions & Quick Tips

- **What Cool Automation models are supported?**  
The CoolMaster/CoolMasterPRO/CoolLinkBridge/CoolPlugs&CoolLinkHub HVAC Bridge
- **How many HVAC units can I put into a system?**  
CoolAutomation bridges can support from single units to 255 AC units (depends on HVAC manufacture and type of the CoolAutomation device)
- **What kind of HVAC unit can I use in Total Control?**  
Compatible companies that provide HVAC units. Popular brands include: Daikin, Mitsubishi, Samsung, Toshiba, Fujitsu, LG, Hitachi, Gree and similar. Click the following link for a full list of compatible units: [www.coolautomation.com/partners/URC/](http://www.coolautomation.com/partners/URC/)
- **How is the CoolMaster URC Module communicating with the Thermostat(s) or HVAC system?**  
The URC Total Control system communicates with the The CoolAutomation HVAC Bridges via IP (LAN).

## Preparing the CoolAutomation System for URC Integration

### Facts to know BEFORE attempting integration:

- Preparing the CoolAutomation system for integration with a Total Control system requires knowledge in installing HVAC and thermostat systems as there are additions and configurations that must be performed to enable communication.
- Please consult with a certified HVAC contractor or CoolAutomation if you are unsure about the proper system configuration!
- URC Technical Support will offer assistance, if required, for the IP connection to the URC control system or configuring the module with the correct parameters within the URC software.
- URC is not responsible, or able to assist with, programming of the CoolAutomation devices or the addition of parts required to enable integration.
- For details and help with the CoolAutomation portion of the install, please contact the CoolAutomation technical support team via phone or at [Cool Automation Support Request](#)
- Prior to programming the URC portion of CoolAutomation integration, please make sure the CoolAutomation portion is complete and operational.



COOLAUTOMATION

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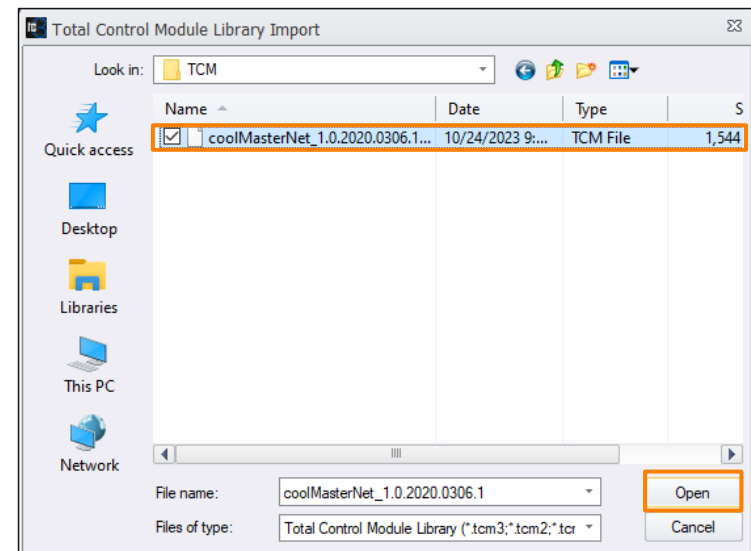
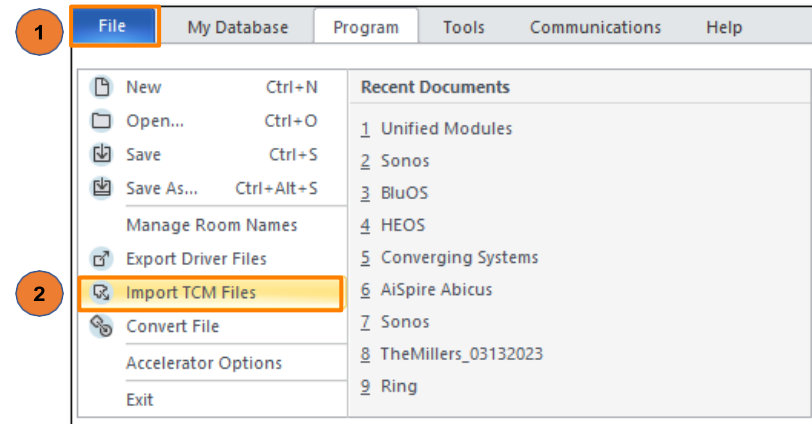
## Downloading & Importing the Module

Download the COOLMASTERNET HVAC two-way module from the URC Dealer Portal:

(\*Please note, that this module will work with all CoolAutomation bridges)

Once the module has been downloaded, perform the following:

1. Select the **File** tab.
2. Select **Import TCM Files**.
3. Locate the “.tcm” file and Click Open.




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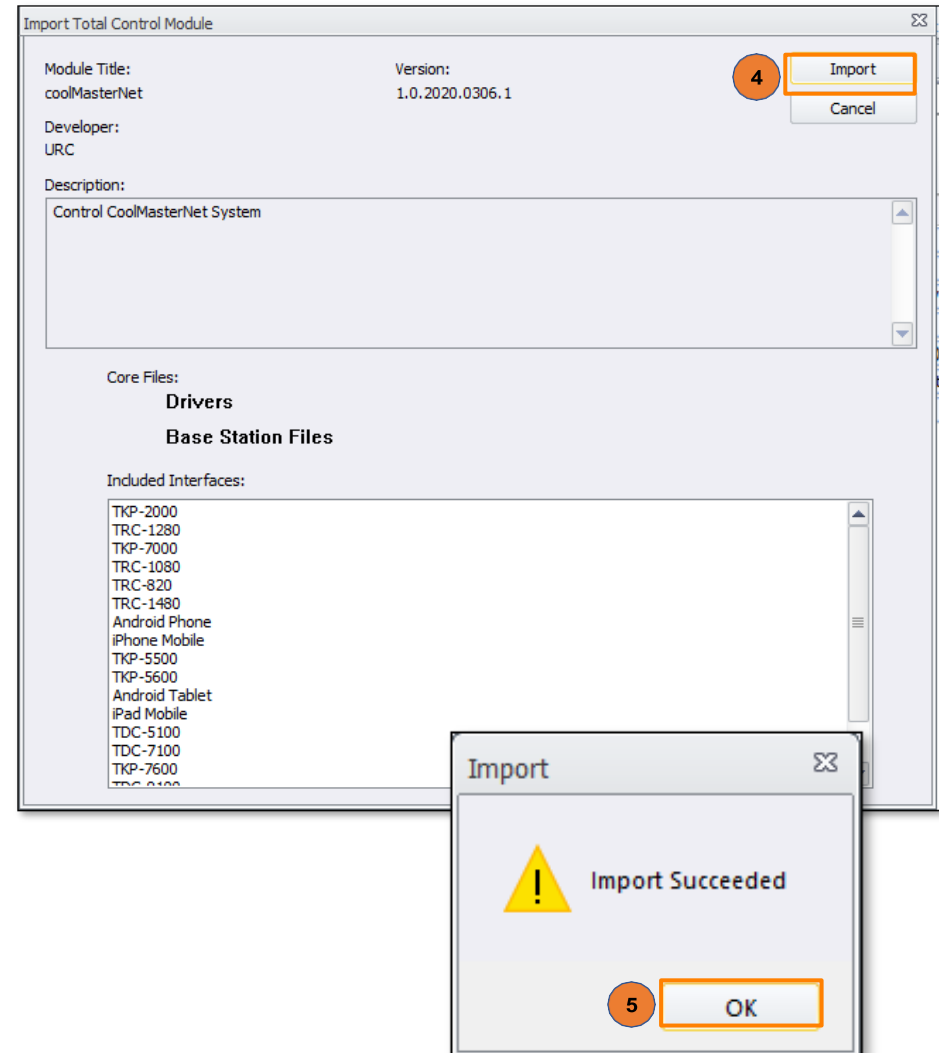
## Downloading & Importing the Module (cont'd)

4. Select **Import**.
5. Click **OK**

Save any work and restart the software.



For more information on two-way modules, what they are, where to find them, and how to import them, please review [this guide](#).



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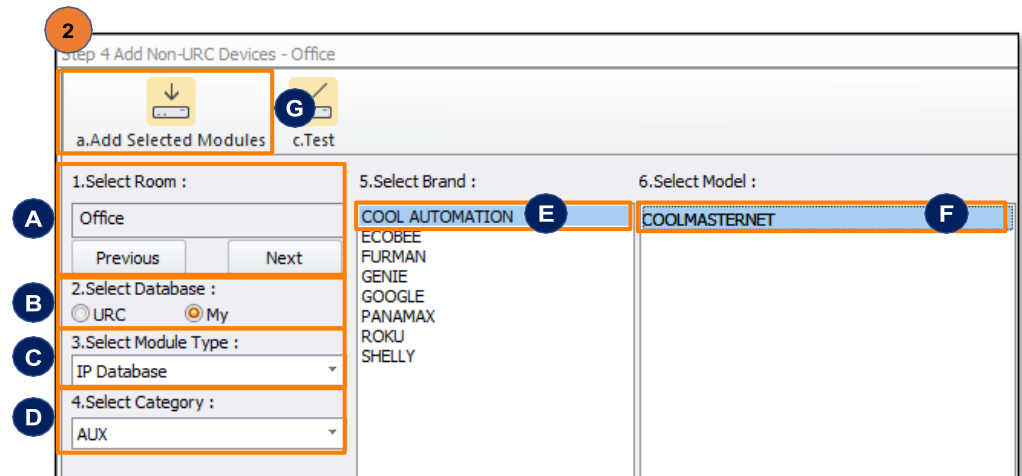
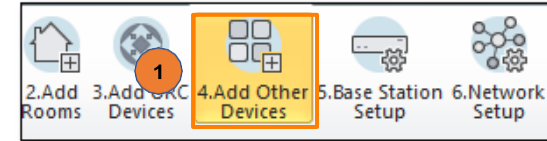
## Adding & Configuring the Module


The CoolMaster module can be added to any new or pre-existing system.

### Adding the Module:

The file contains all the system data that runs and operates the module.

1. Select **Step 4. Add Other Devices**
2. Perform the following:
  - A. **Select Room:** Choose a room to add the module.
  - B. **Select Database:** My
  - C. **Select Module Type:** IP Database
  - D. **Select Category:** AUX
  - E. **Select Brand:** COOL AUTOMATION
  - F. **Select Model:** COOLMASTERNET
  - G. Double-click the model or select **a. Add Selected Modules**



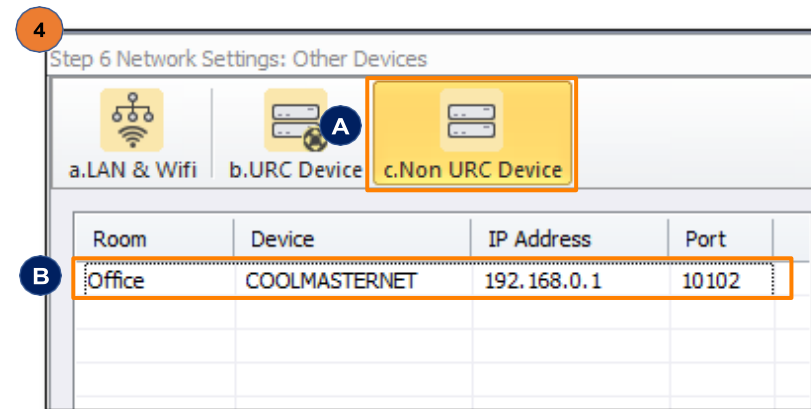
 Adding the CoolMaster module creates a button that launches the CoolMaster activity and displays the Home Screen on the CoolMaster device.

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## Adding & Configuring the Module (cont'd)

### Network Configuration:

3. Select **Step 6. Network Setup**
4. On the Network Settings page:
  - A. Select **c. Non URC Device**
  - B. Enter the IP Address of the CoolMaster Device. The CoolMaster Device must be configured to a Static IP address or a DHCP/ MAC reservation within the local router.



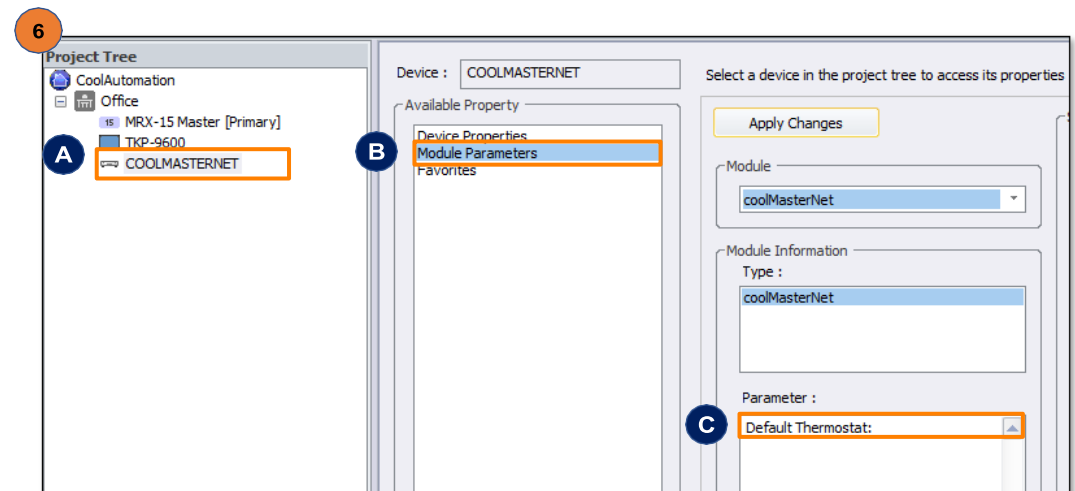
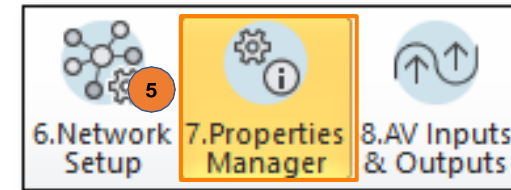


# Total Control

## Adding & Configuring the Module (cont'd)

### Two-way Module Setup:

5. Select **Step 7. Properties Manager**
6. On the Properties page:
  - A. Select **COOLMASTERNET** from the Project Tree
  - B. Select **Module Parameters** from the Available Property list.
  - C. In the **Parameter** field, enter the Device ID for the default thermostat to be displayed in that room (i.e.: Default Thermostat:L1.100, Where "L1.00" is the desired thermostat at launch) as shown in the picture.



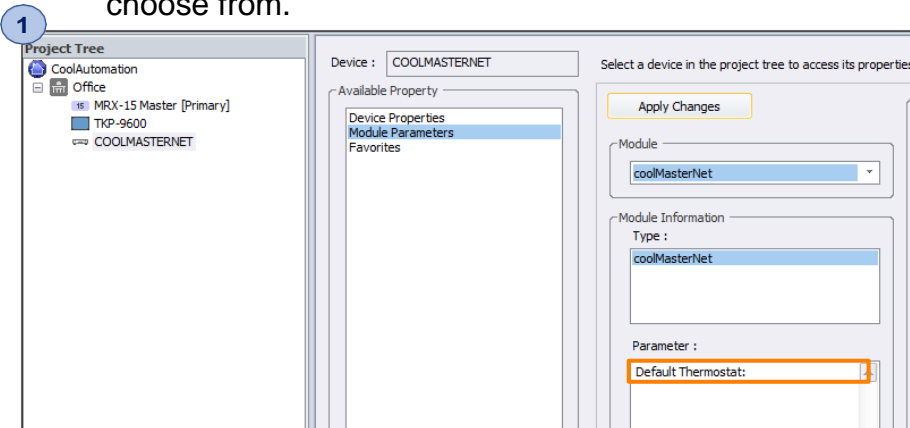
# Total Control

## Adding & Configuring the Module (cont'd)

### Two-way Module Setup (cont'd):

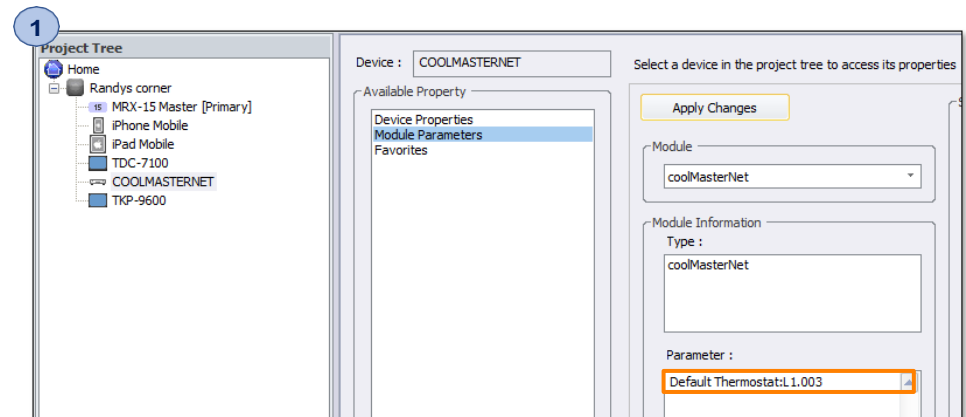
D. When launching the COOLMASTER module:

1. When no Default Thermostat is set in the Parameter field.
2. You will be given a list of all the available thermostats to choose from.



E. When launching the COOLMASTER module:

1. When a Default Thermostat is set in the Parameter field.
2. The default thermostat will be displayed.

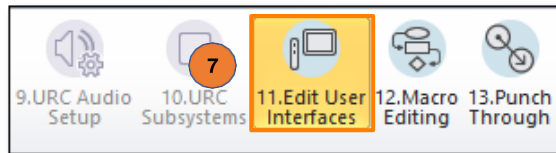


# Total Control

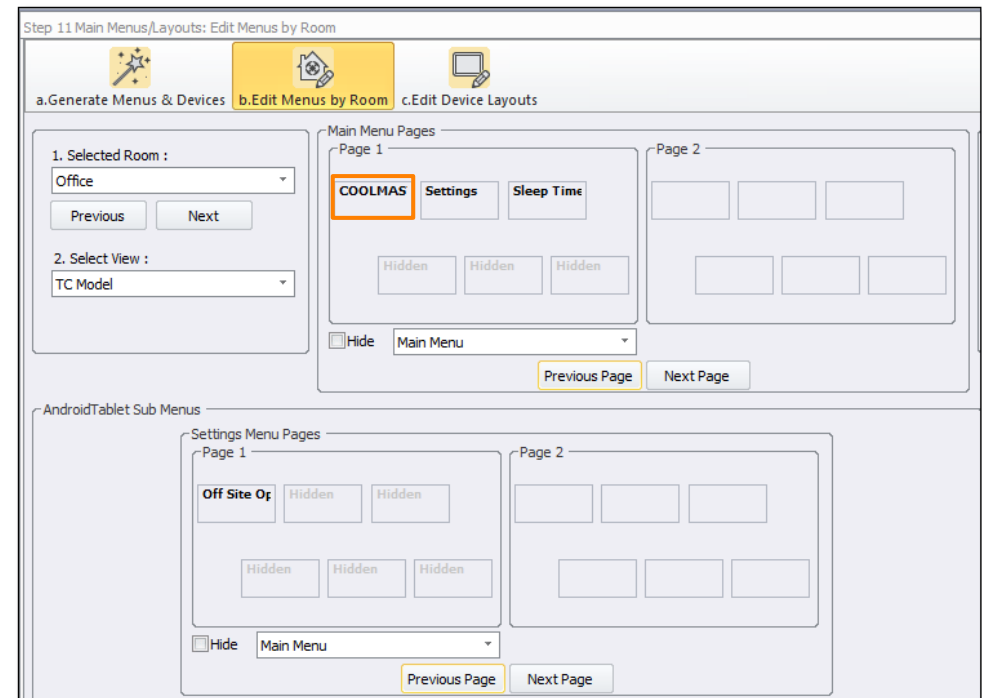
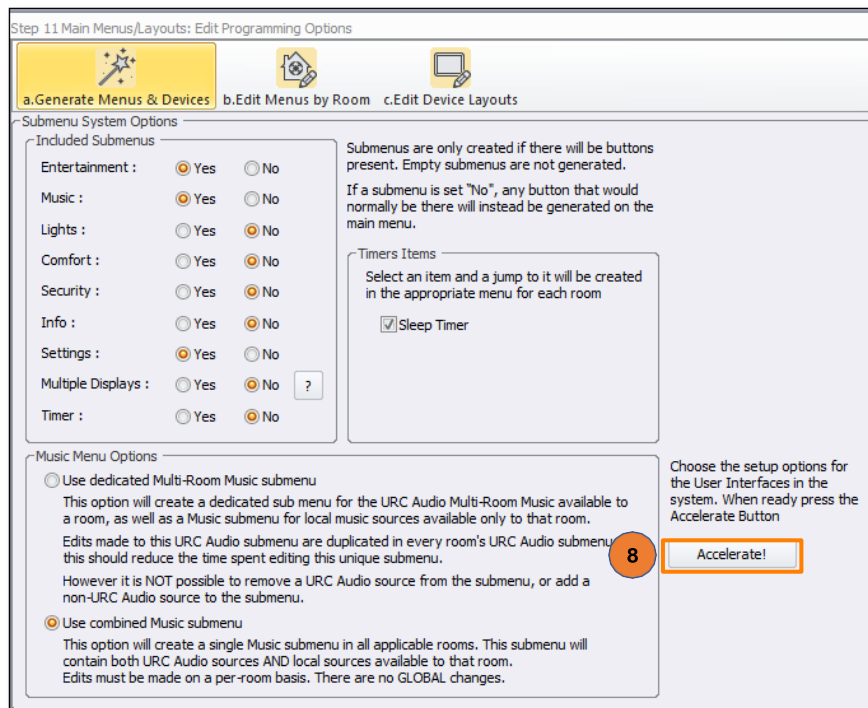
## Adding & Configuring the Module (cont'd)

### Creating User Interfaces:

#### 7. Select Step 11. Edit User Interfaces



#### 8. Accelerate!



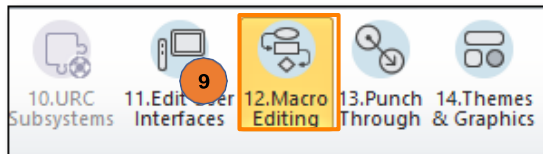
By default, access to the CoolMaster module is placed on the Main menu. This placement can be customized by dragging-&-dropping the CoolMaster module to any empty field on the editing page

# Total Control

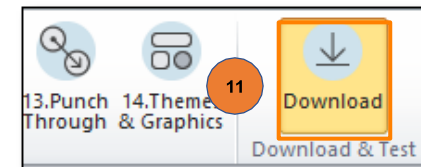
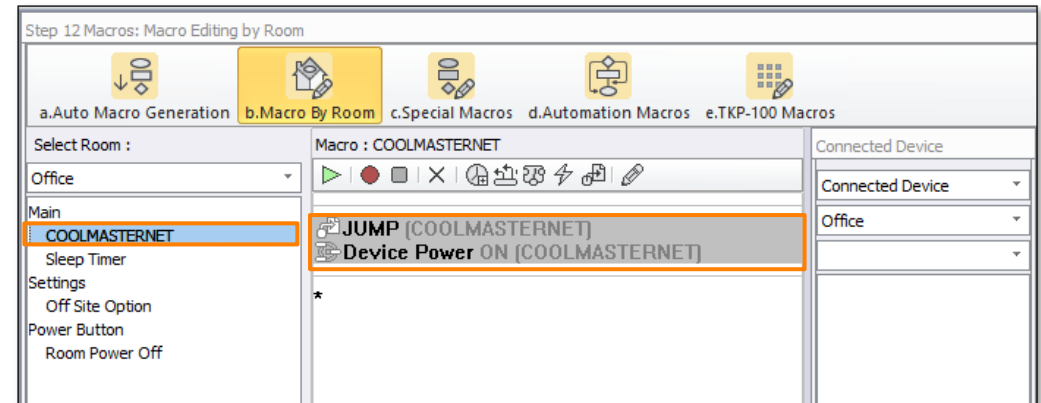
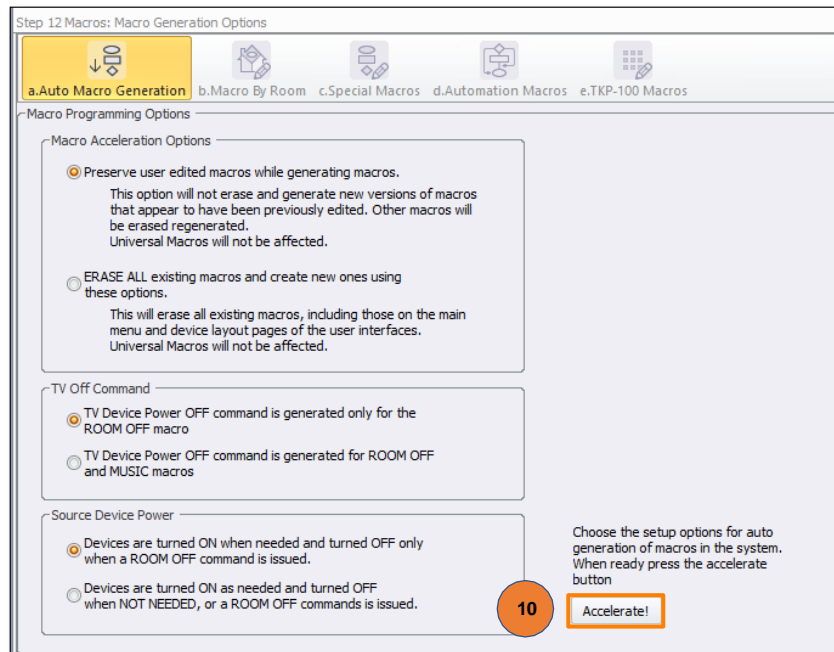
## Adding & Configuring the Module (cont'd)

### Macro Creation:

#### 9. Select Step 12. Macro Editing



#### 10. Accelerate!



#### 11. Download

# Total Control

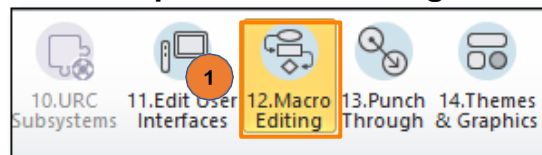
## Adding & Configuring the Module (cont'd)

### Module Operation: Events/Commands/Queries

#### Two-way Module Commands (TCL Commands)

Two-way module commands are special functions that are derived from the two-way module and is a way to send discrete commands to the CoolMaster system.

#### 1. Select Step 12. Macro Editing



#### 2. After selecting Step. 12:

A. Select sub-step **b. Macro By Room**

B. Select (TCL Command).

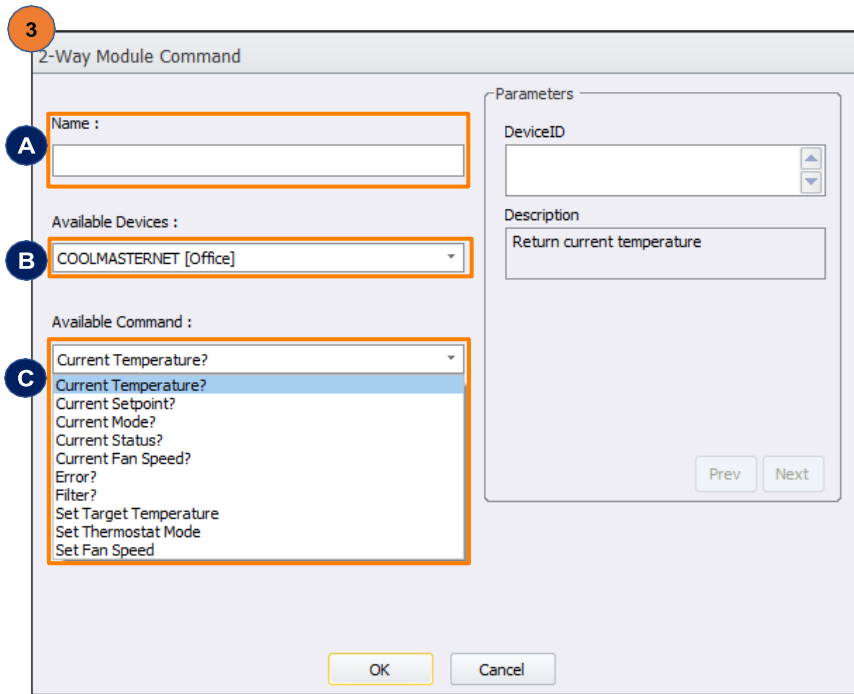
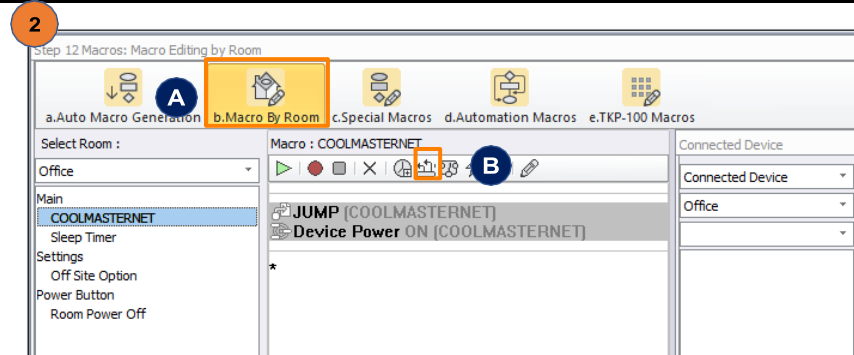
#### 3. On the 2-Way Module Command page:

A. Enter a **Name** for the command being created.

B. Choose an **Available Device** COOLMASTERNET [Room].

C. Choose the Custom Control Protocol Command option from the **Available Command** drop-down.

- This command sends any command properly formatted using the Control Protocol format to the assigned room/zone.



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## Adding & Configuring the Module (cont'd)

### Two-way Module Commands (TCL Commands) (cont'd)

- Available Queries and Commands

Query Name	Query Description	Query Parameters	Return Type
Current Temperature?	Returns ambient temperature (temperature)	Device ID	Integer
Current Setpoint?	Returns the setpoint (setpoint)	Device ID	Integer
Current Mode?	Returns the units mode (Heat/Cool/Auto/Off)	Device ID	String
Current Status?	Returns the current unit status (Heating/Cooling/Idle/Off)	Device ID	String
Fan Speed?	Returns the fan speed (Low/Med/High/Auto)	Device ID	String
Filter Status?	Returns “#” if filter needs to be changed/Returns “-” if filter is okay	Device ID	String
Error Status?	Returns the error status. Returns “OK” if there is no error/Returns error code is there is an error	Device ID	String
	<i>Note: If inputted Device does not exist, -1 is returned</i>		

Command Name	Command Description	Command Parameters	Command
Setpoint	Set the setpoint to the desired level	Device ID	F° low setpoint = 34° / F° high setpoint = 99° / C° low setpoint = 1° / C° high setpoint = 37°
Thermostat Mode	Set the thermostat to the desired mode	Device ID	Heat/Cool/Auto/Off (via dropdown)
Fan Speed	Set the fan to the desired mode	Device ID	Low/Med/High/Auto (via dropdown)

D. Click OK.

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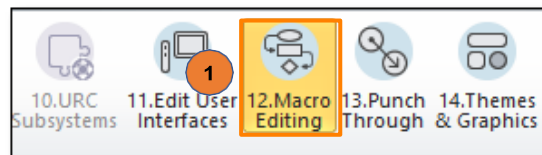
## Adding & Configuring the Module (cont'd)

### Module Operation: Events/Commands/Queries

#### Device Events

The CoolMaster module has the ability to trigger custom macros based on events or changes in the subsystem

#### 1. Select **Step 12. Macro Editing**



#### 2. After selecting **Step. 12:**

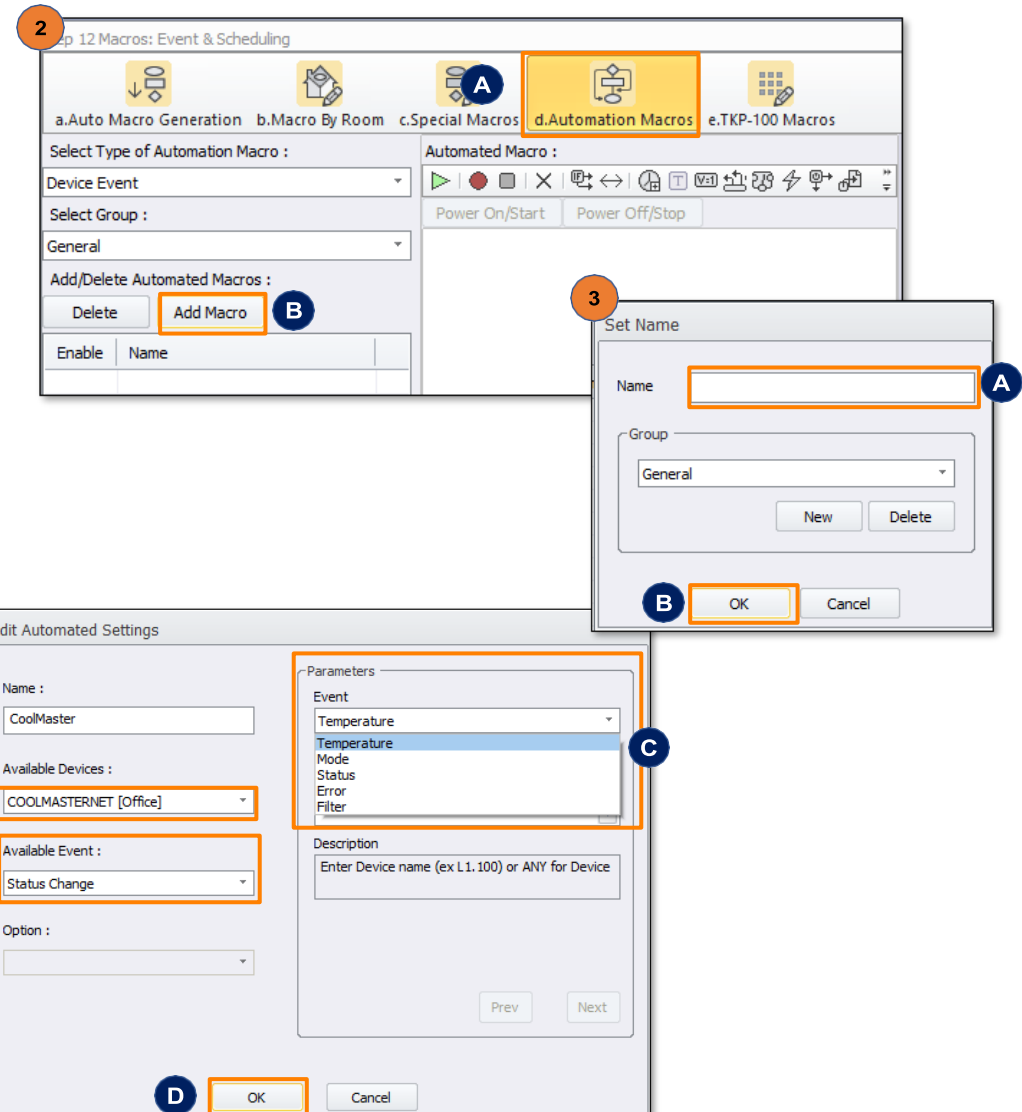
- A. Select sub-step **d. Automation Macros**
- B. Select **Add Macro**.

#### 3. On the **Set Name** window:

- A. Enter a **Name** for your Event.
- B. Click **OK**.

#### 4. On the **Edit Automated Setting** page:

- A. Select COOLMASTERNET [Room Name] from the Available Devices list.
- B. Select an **Available Event**.
- C. In the **Parameters** section, choose an **Event** to trigger when the status has changed. [Please see the following page for a list of Parameter Events and their descriptions.](#)
- D. Click **OK**.



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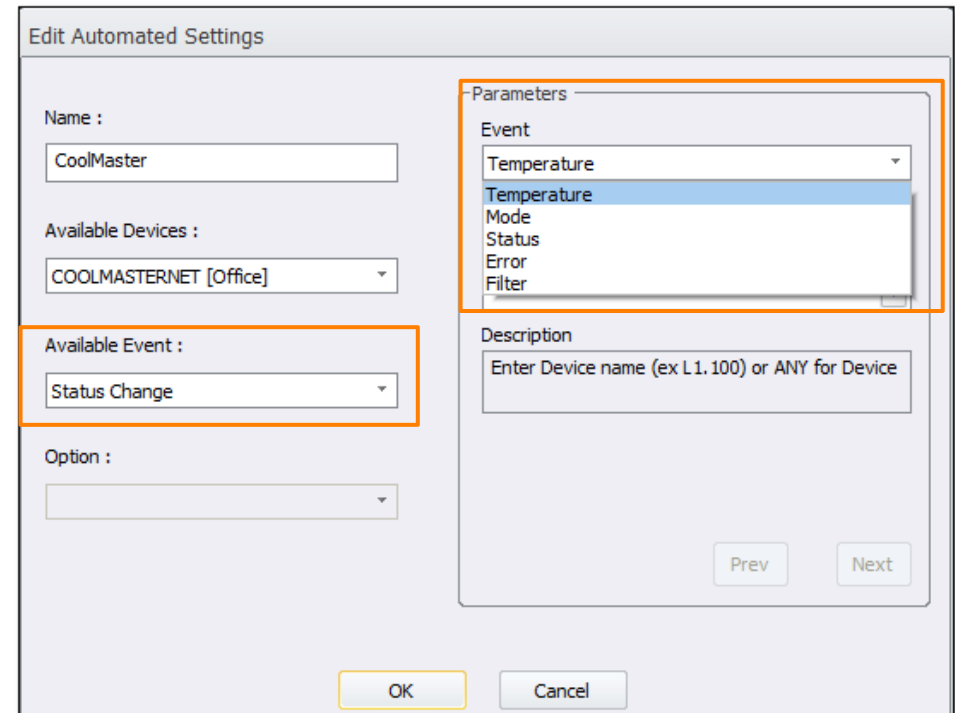
## Adding & Configuring the Module (cont'd)

### Module Operation: Events/Commands/Queries

#### Device Events (cont'd)

#### Available Events and their associated Parameter Event.

- **Error:** Triggers when there is a change in error status
- **Filter:** Triggers when there is a change in filter status
- **Mode:** Triggers when there is a change in mode
- **Status:** Triggers when there is a change in mode status
- **Temperature:** Change in ambient temperature



**Edit Automated Settings**

Name : CoolMaster

Available Devices : COOLMASTERNET [Office]

Available Event : Status Change

Option :

**Parameters**

Event

- Temperature
- Temperature
- Mode
- Status
- Error
- Filter

Description

Enter Device name (ex L1.100) or ANY for Device

Prev Next

OK Cancel



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