BRTSys

USER GUIDE

PanL Smart Living

Part 4 ~ iOS Mobile App

(Release 4.2.0)

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PanL

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1. Introduction

1.1 About this Guide

This guide explains the usage of **P**anL **S**mart **L**iving (PSL) Mobile App for iOS. **The screenshots used are for illustration purpose only**.

1.2 Intended Audience

This technical user guide is intended for users involved in home or building automation using smart devices. It is suitable for:

- Operations end-users who wish to find, organize, and operate the devices either individually or in group, or zone, or as a preset or scene.
- Power end-users who are interested in configuring and managing automation logic. This includes organizing devices across spaces, creating control groupings, defining presets, and setting up automated behaviours to achieve efficient and coordinated control of the environment.

1.3 Document References

Document Name	Document Type	Format
BRTSYS_AN_094_PSL User Guide - 1. System Installation	Application Note/ User Guide	PDF
BRTSYS_AN_095_PSL User Guide - 2. PanL PD100 Display		
BRTSYS_AN_096_PSL User Guide - 3. PanL PD40 Display		
BRTSYS_AN_098_PSL User Guide - 5. Android Mobile App		
BRTSYS_AN_099_PSL User Guide - 6. Voice Assistants		

1.4 Known Issues and Limitations

NA

2. Getting Started

2.1 Supported iOS Platforms and Requirements

Operating System	Technical Requirement
iOS	iPhone with iOS 14.0+

2.2 Installing PSL Mobile App for iOS

The **P**anL **S**mart **L**iving (PSL) Mobile App can be downloaded from the App Store using the following steps:

1. On the Apple iPhone, tap on [**App Store**] icon.
2. Type in "PanL Smart Living" and click Search.
3. Select PanL Smart Living from the search result.
4. Tap on the [**Get**] button to download the application.
5. Upon successful installation, tap on [**Open**] to access the PanL Smart Living App. A shortcut is created and displayed.

Alternatively, scan the QR code below to locate and install the "PanL Smart Living (PSL) for iOS" mobile app on an iPhone.

Figure 1 - QR Code

2.3 Updating PSL Mobile App for iOS

Updates will be made to the mobile app on a regular basis. Whenever an update is available, user can download the latest version through the App Store.

3. Registration

3.1 PSL Account Sign Up

- Click [**Register**] to create an PanL Smart Living account if you do not already have one.

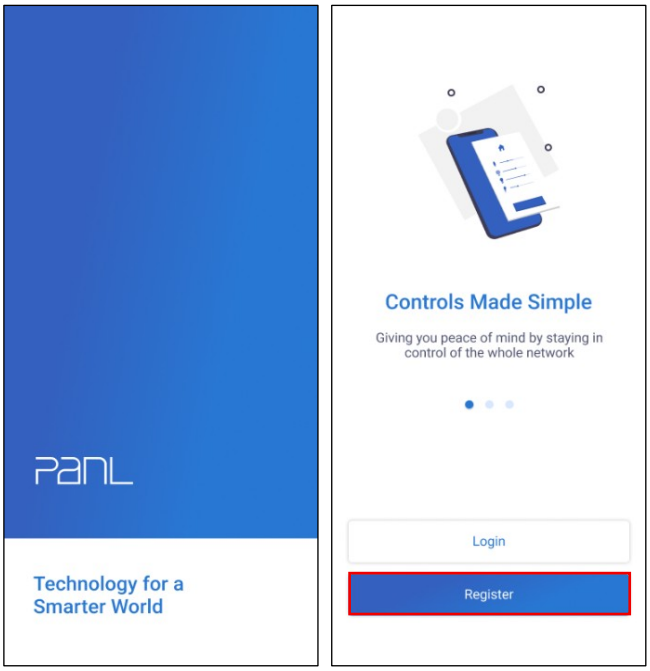


Figure 2 - User Registration

- In the registration page, the user is required to enter a valid email and a preferred password. Select [**Register**] to complete the process.

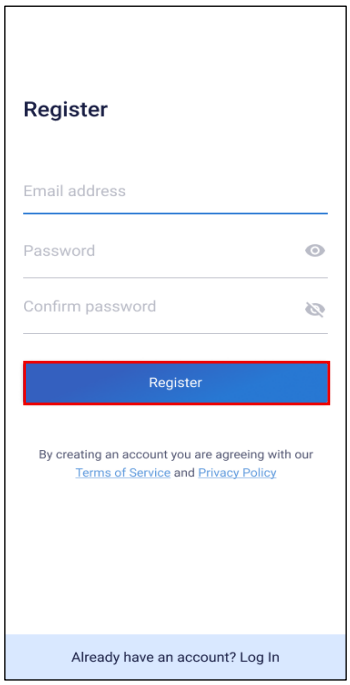


Figure 3 - Set Password

3.2 OTP Verification

- The user will be prompted to verify their account by entering the OTP sent to their registered email address to complete verification.

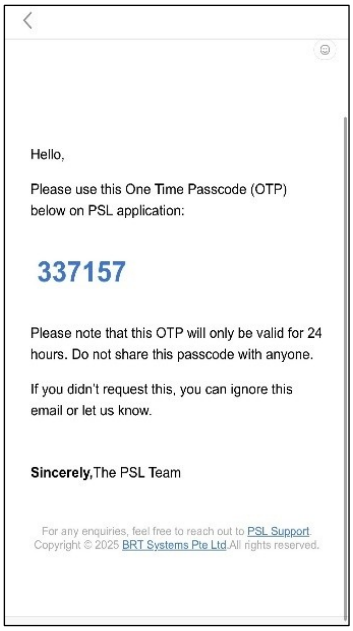


Figure 4 - Verification OTP Email

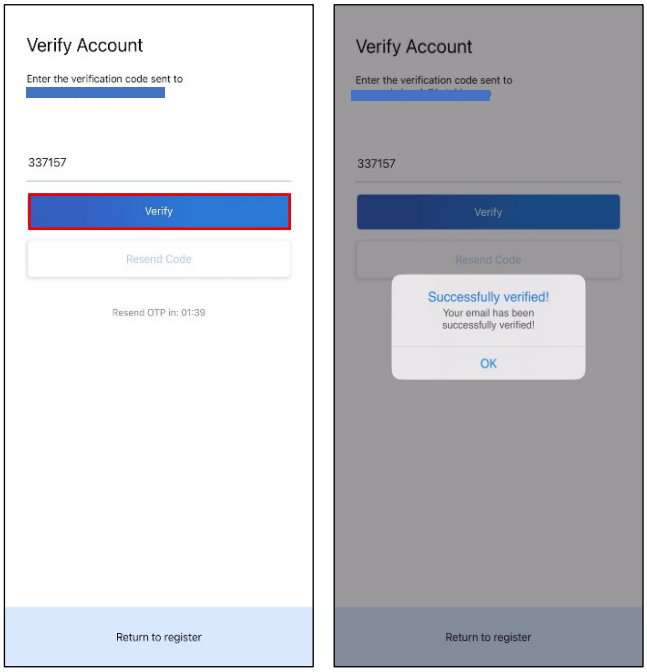


Figure 5 - OTP Verification

NOTE: If the user didn't receive or was unable to use the initial verification code, user will be able to request a new OTP after 120 seconds.

- User will receive an email if the registration was successful.

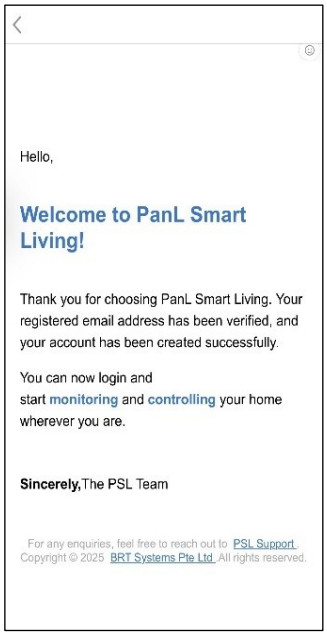
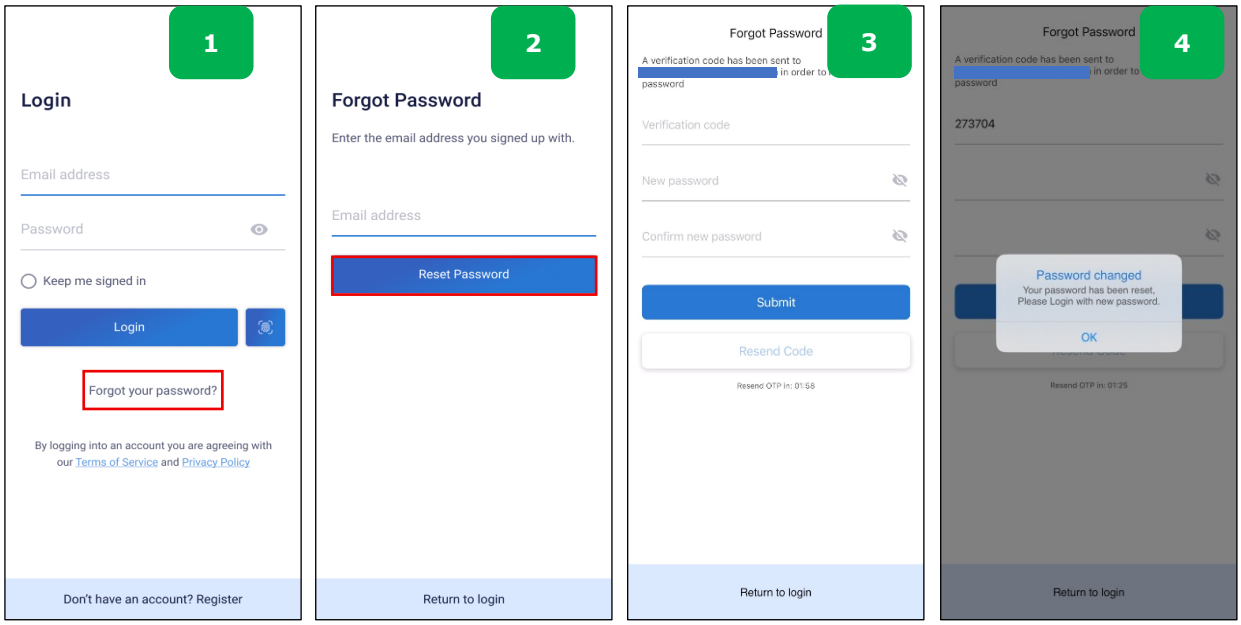


Figure 6 - Registration Successful Email

3.3 Forgot/Reset Password

From the Sign In interface,



1. Tap [**Forgot your password?**] option.
2. Enter the registered *Email Address* & tap [**Reset Password**].
3. Enter the *Verification Code* (sent to the registered email address)*; New Password* and *Confirm New Password*. Tap [**Submit**].
4. If successful, an appropriate message indicating the same is displayed.

3.4 Sign In

An existing user can log in to the PSL mobile app using either of the following methods:

- Sign in with the registered email address and password.
- Sign in using biometric authentication (refer to Biometric ID Authentication for more information).

NOTE: First-time users must sign in with their email and password before they can enable biometric authentication. Once biometric authentication is set up, they can use it for future logins.

4. Joining a PanL Network

When a user opens the PanL Smart Living mobile app, it will automatically search for and displays any available PanL Networks.

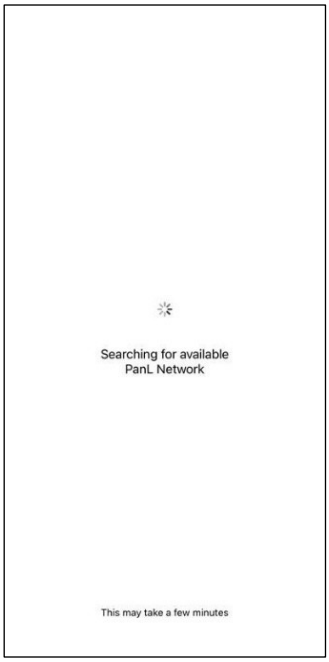


Figure 7 - Searching for PanL Networks

4.1 No PanL Networks Available

User will be redirected to a page to create a PanL network if there are no existing networks available. Refer to PanL Smart Living - System Installation Guide for setup instructions.

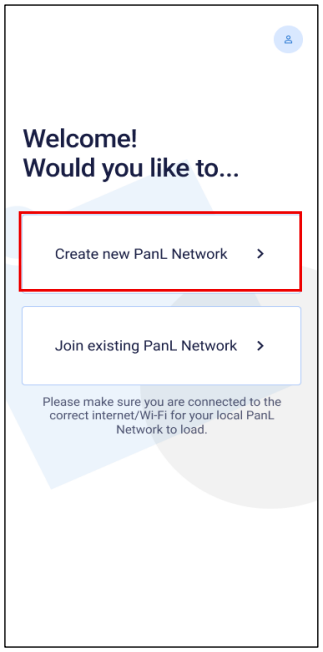


Figure 8 - Create PanL Network

4.2 Join PanL Network

An authorised user can access one of the available PanL networks and configure/control the connected devices.

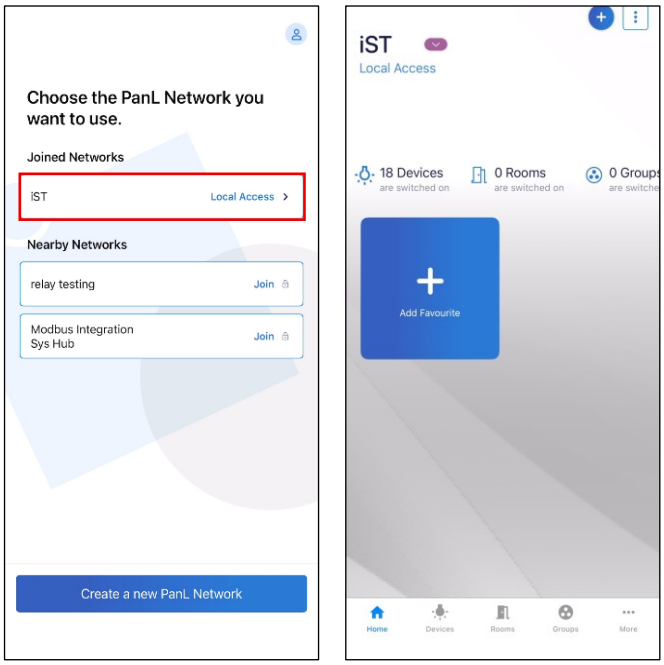


Figure 9 - Join PanL Network

Each PanL Network classifies its users into two main categories:

1. **Primary users**

   Primary users have full access to the network. The user who creates a new PanL Network is automatically assigned as the primary user of PanL Smart Living Network. Any user can request to join the PanL network and become as primary user or secondary user.

2. **Secondary users**

   A secondary user typically handles routine operations set up by primary users. With fewer privileges, secondary users are limited to controlling devices within the network. This category often includes children or guests.

   Refer to PSL System Installation User Guide to view the list of available features for primary and secondary users.

4.3 Send Request to join PanL Network

Users can send a request to join a PanL network they are not authorized for by choosing the PanL Network name. The request will then be sent as a Mobile push notification to the primary users of the selected PanL network.

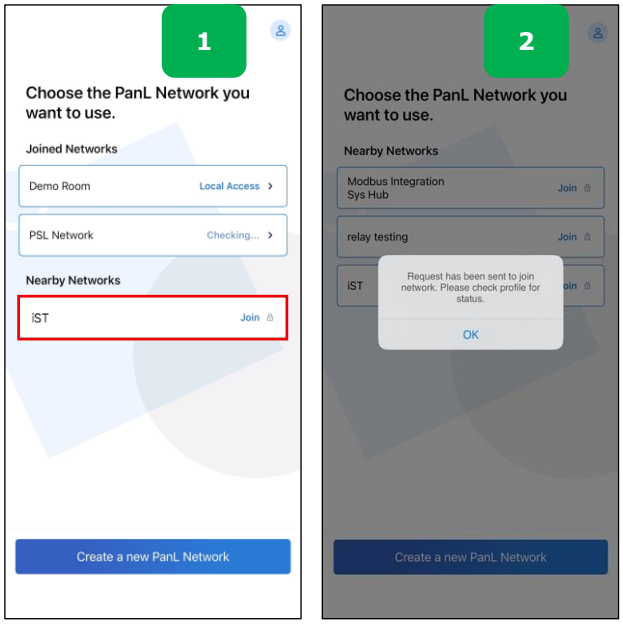


Figure 10 - Send Join Request

To send request to join a PanL network –

1. On the main page, select a PanL network and click [**Join**] to send a request.
2. Message will be displayed indicating that a send request has been sent to the primary user of the selected PanL network.

Sent requests can be viewed under **Profile -> Requests -> Sent,** as shown below.

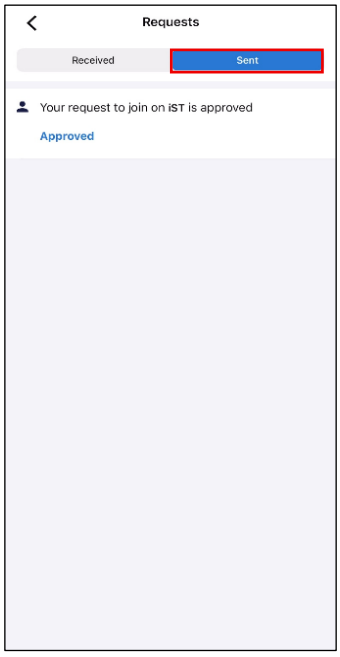


Figure 11 - View Sent Requests

4.4 Receive a PanL Network Request

All primary users receives the join request via a push notification on their PanL Smart Living mobile app. Once the request is accepted, the owner/Primary User can add them as Primary or Secondary user, with or without remote access.

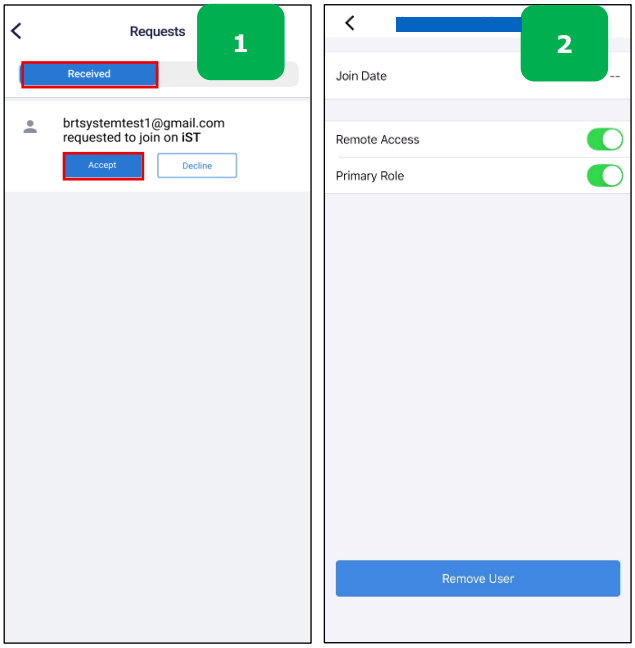


Figure 12 - Receive Join Request

To view the received/sent join requests -

1. When the user taps the push notification, the PSL app will launch automatically. Navigate to *Requests* page under *Profile* to view the requests received on a specific PanL network and the option to Accept or Decline the request. Click on [**Accept**] to approve the join request.
2. Primary user can proceed to give primary/remote access for the approved user.

NOTE: User permissions can be changed at any time via the PSL mobile app. Refer to User Management in PanL Network for more information.

5. PanL Smart Living Home Page

The PanL Smart Living home page provides an overview of the connected devices, rooms, groups, favourite objects, and other relevant elements within the PanL network. This feature allows quick monitoring and management of the most used or important objects without navigating through multiple pages.

To add a device, room, zone, or group to favourites, click the + icon.

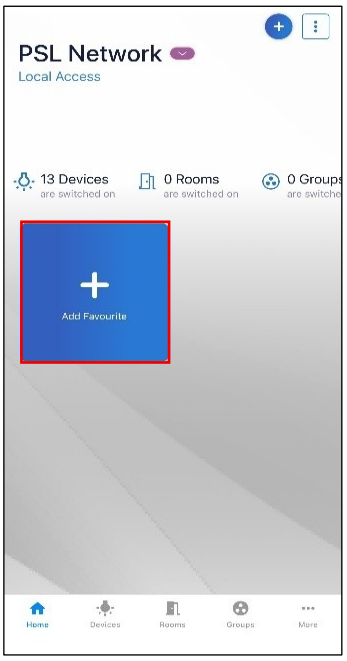


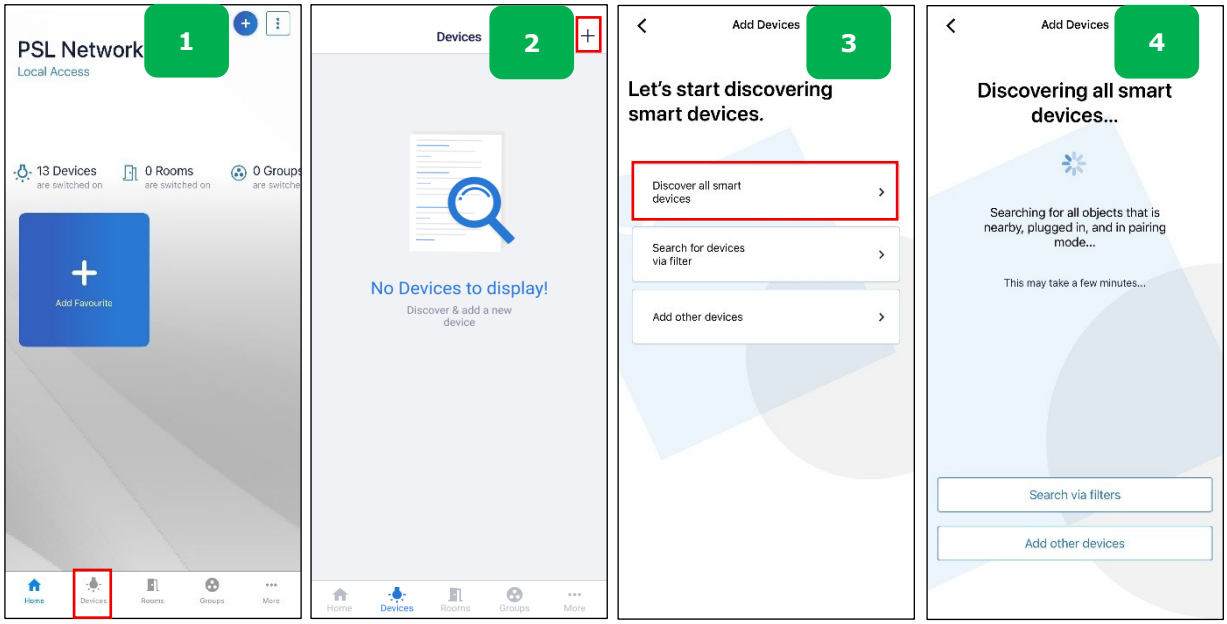
Figure 13 - Home Page

NOTE: If the network signal is weak, user may encounter some intermittent error messages. These can be resolved by refreshing the screen.

6. Device Management

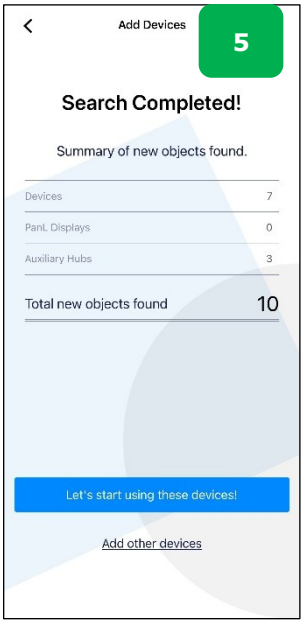
6.1 Device Discovery

6.1.1 Add Devices – Smart Search (Auto)



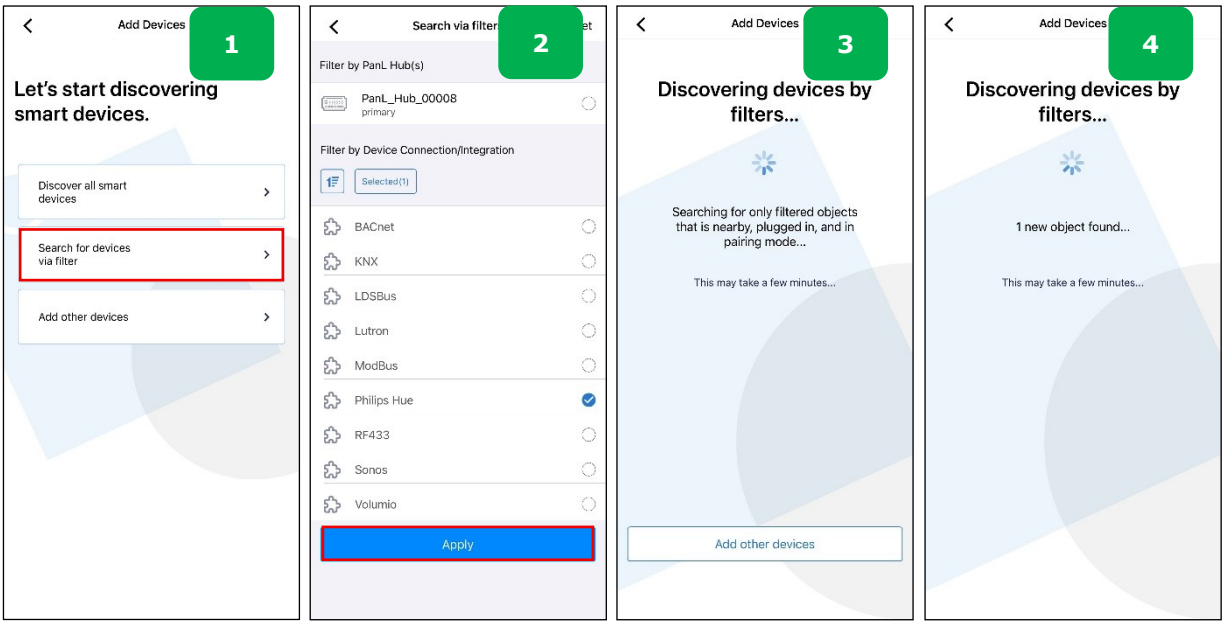
To Add devices to a PanL Network –

1. Select [**Devices**] to open the devices page.
2. Tap on **+** to add devices.
3. Select [**Discover all smart devices**] to auto-discover devices.
4. Device discovery in progress.
5. Number of discovered devices will be displayed. The process takes around 3-5 minutes.



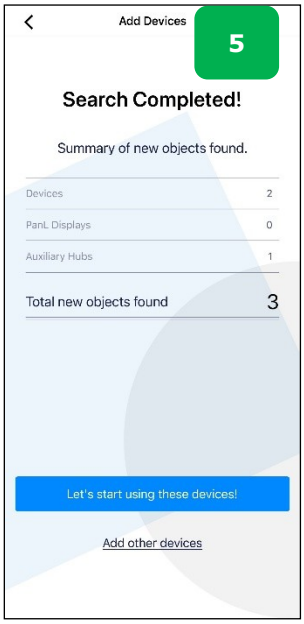
6.1.2 Add Devices – Search using Filter

Users can search for a specific device connected to the PanL Hub using the device connection/ integration filter and add it to the PanL network.



To add a device using filter-

1. Select [**Search for devices via filter**].
2. Select the desired filter for device connection or integration, then tap [**Apply**].
3. The app begins searching for available devices using the applied filter.
4. Once a device is successfully detected, it will appear in the list.



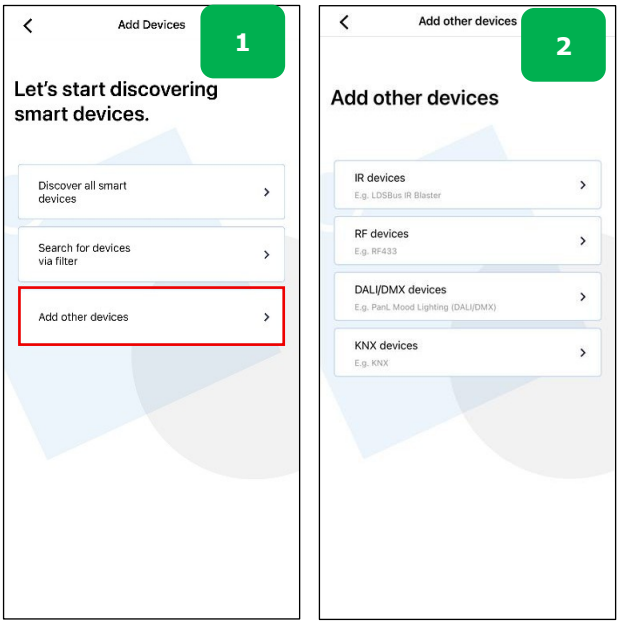
6.1.3 Add Devices – Manual Setup

Manual setup is often needed for certain devices that requires additional information from user before adding the devices to the PanL network. Following devices can be manually added to the PanL network using the "*Add other devices*" feature.

- Air-conditioner, Fan or TV that can be controlled via BRTSys LDSBus IR Blaster.
- DMX Lights and DALI Push Buttons/Motion Sensors, that can be controlled using BRTSys PanL Mood lighting controller.
- Third-party RF433 MHz based smart devices (e.g. RF Switches, RF Curtains/blinds…).
- KNX motion sensors via KNX/IP Gateway.

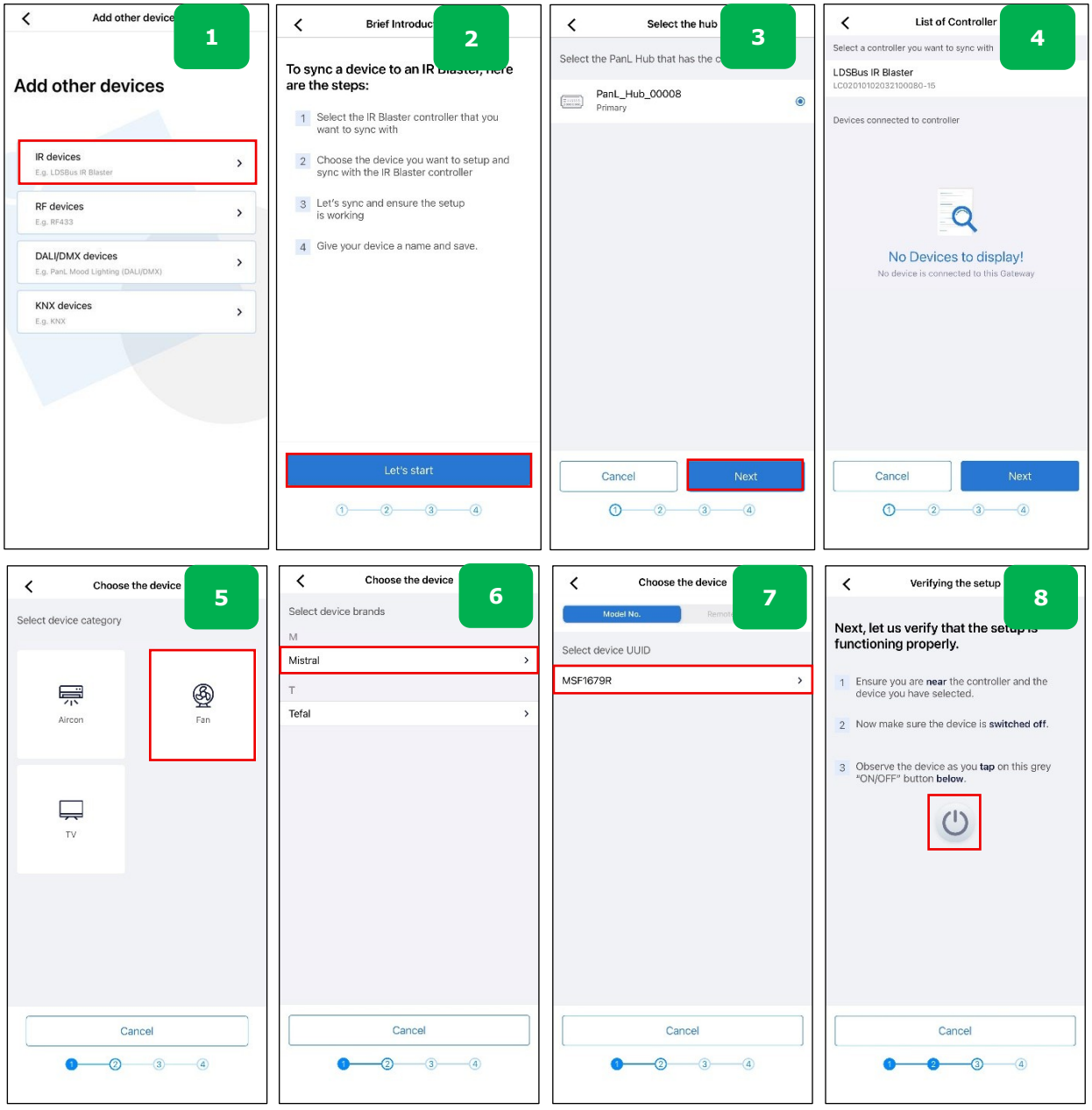
To add devices manually to a PanL Network –

1. Select [**Add other devices**] option.
2. Users can choose the type of device to add and set it up manually.



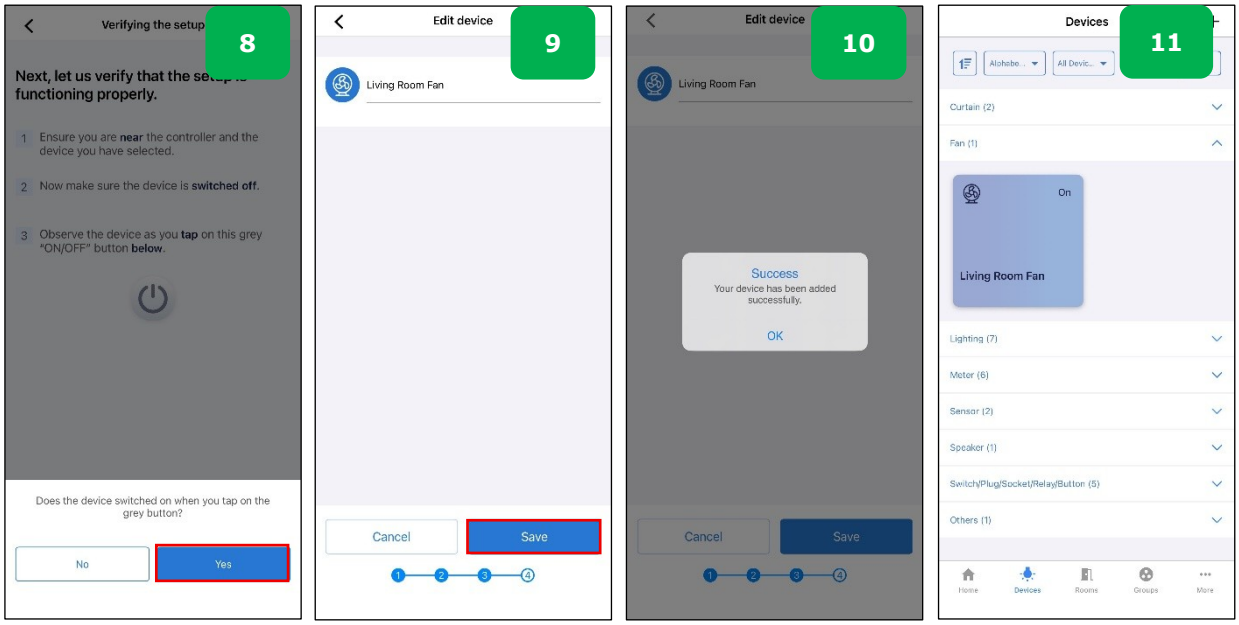
6.1.3.1 Add IR Devices

The LDSBus IR Blaster replaces traditional single device IR remote controllers to function as a universal remote controller. The following images demonstrate how to set up an IR remote controller to control a fan device:



To add an IR device:

1. Select [**IR devices**] to proceed with IR device setup.
2. Overview of the setup process is displayed, to start setup click on [**Let's start**].
3. Select PanL hub. To continue click [**Next**].
4. Select the controller and click [**Next**] to continue.
5. Select Fan device.
6. Select device model.
7. Select model number.
8. Follow the instructions to perform the setup.

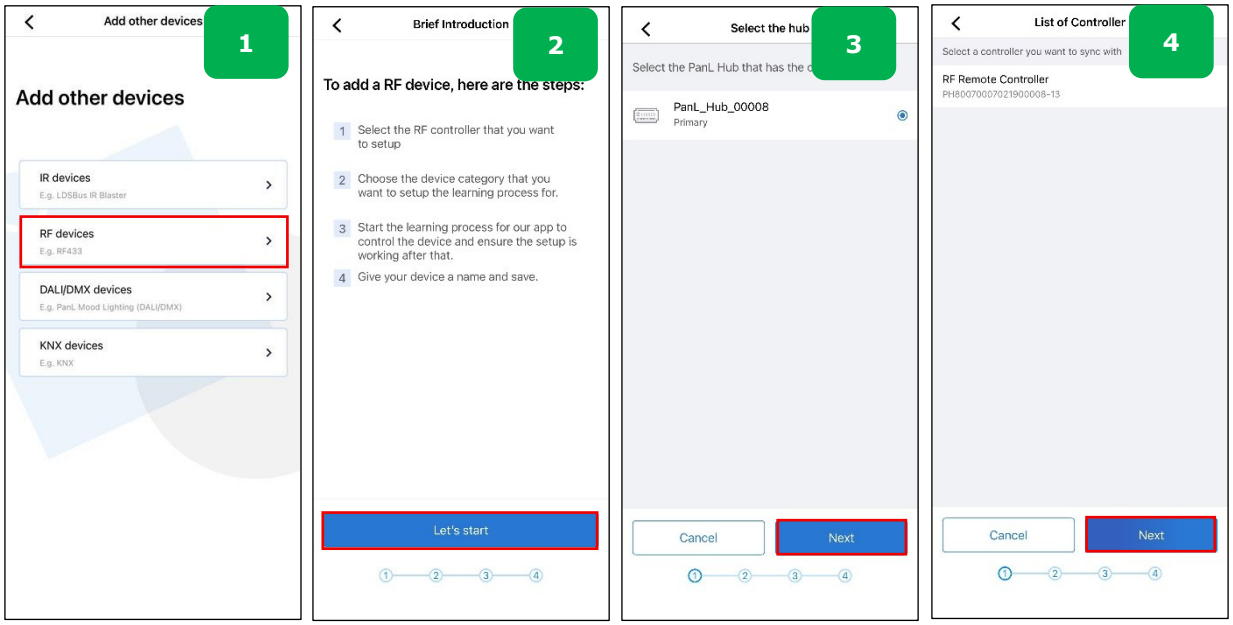


9. Name the device and click on [**Save**] to confirm the changes.
10. IR device added successfully.
11. IR Device displayed under *Fan* category. Tap to turn it ON/OFF.

6.1.3.2 Add RF Devices

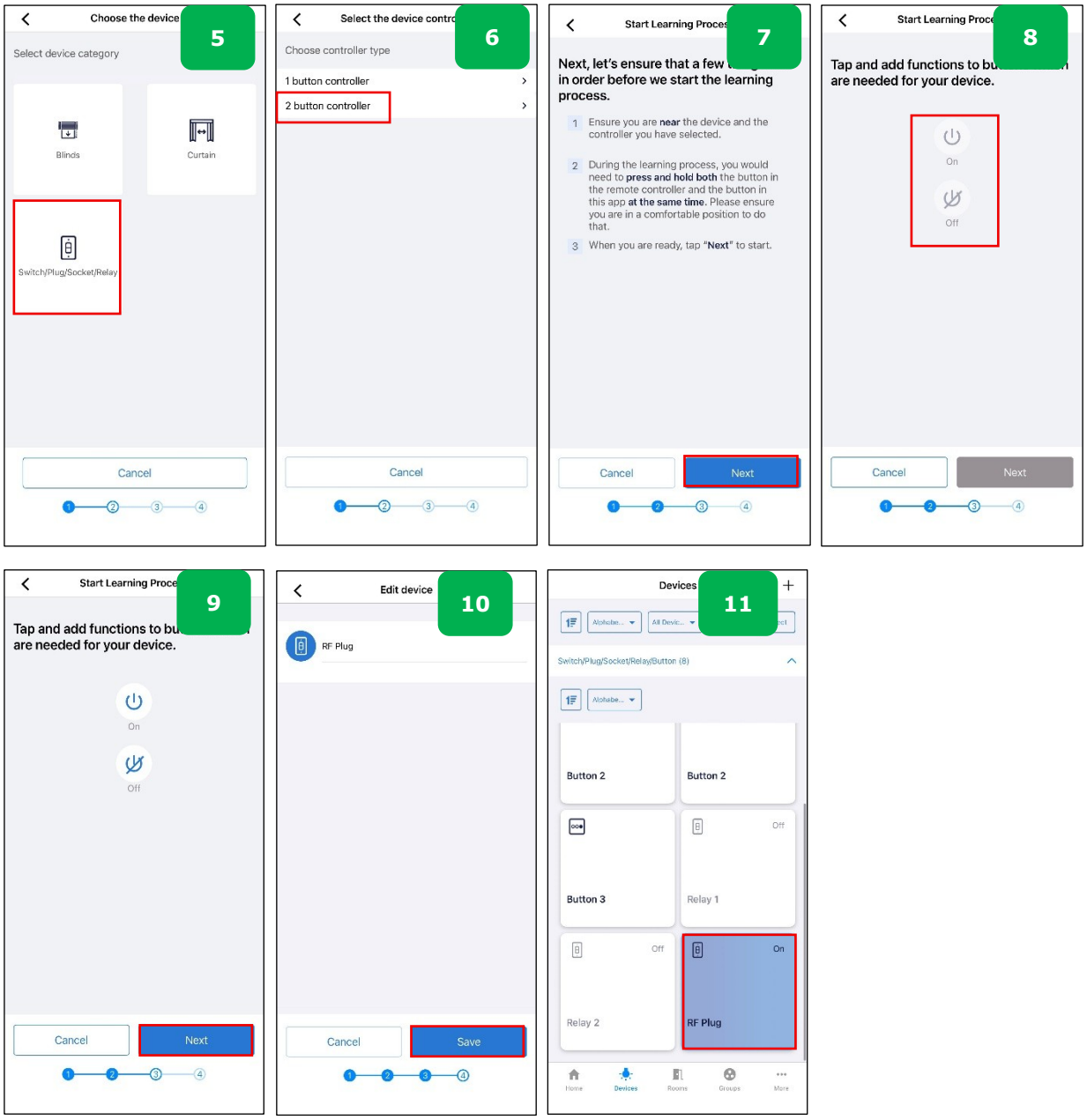
RF Switches, Curtains, and blinds can be added since the PanL Hub has built-in RF433 module.
The images below demonstrate how to set up an RF433 MHz-based smart switch:
The mobile app can emulate the physical remote controller supplied with the smart switch by learning its ON/OFF commands.

As shown, one- or two-button RF smart switches can be added to control plug-based devices.



To add an RF device:

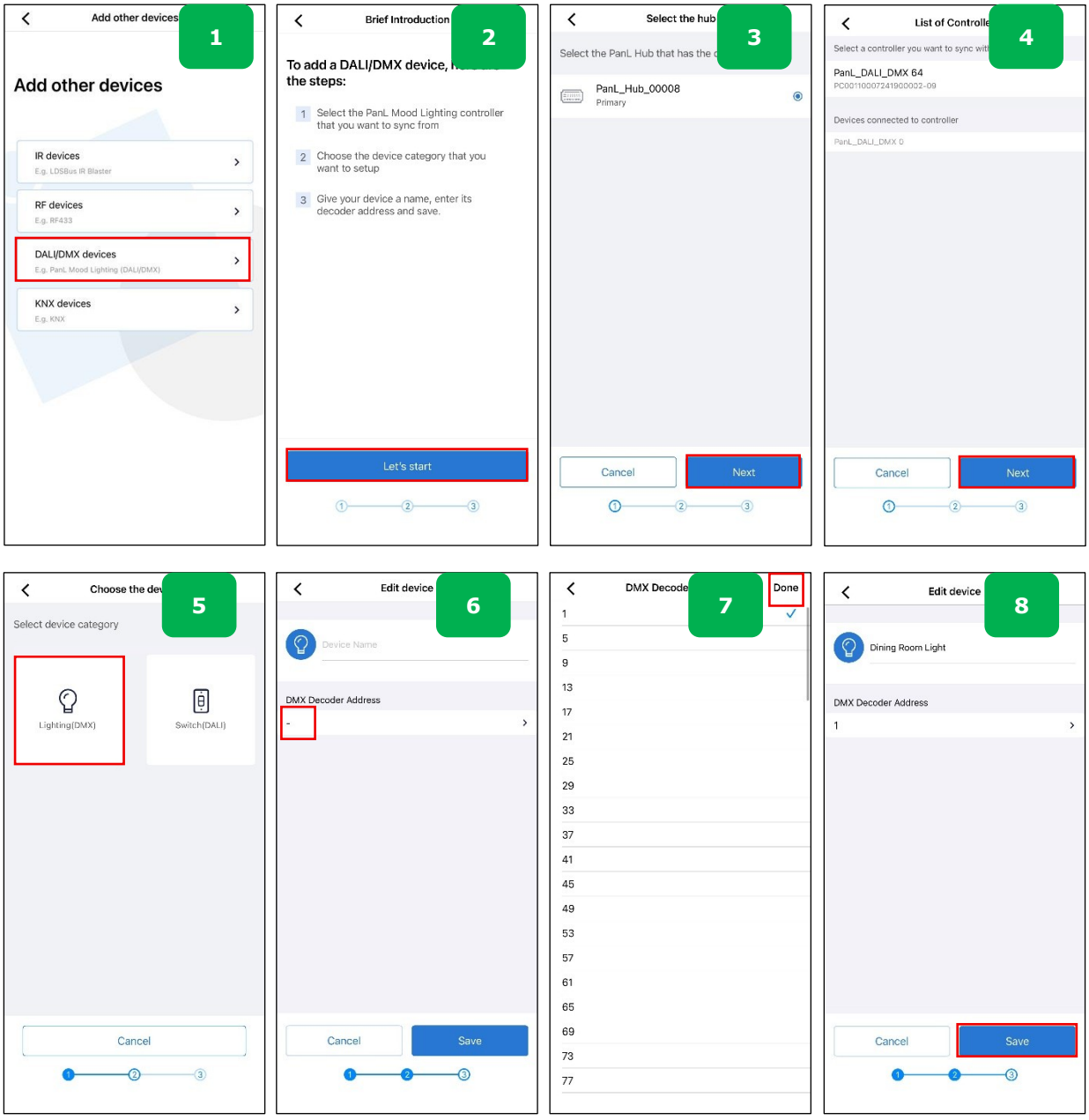
1. Select [**RF devices**] to proceed with RF device setup.
2. Overview of the setup process is displayed, to start setup click on [**Let's start**].
3. Select the PanL hub. To continue click [**Next**].
4. Select the RF controller. To continue click [**Next**].



5. Select device category.
6. Select device type.
7. Learning process steps are displayed, to proceed click [**Next**].
8. Setup the respective buttons with the desired function.
9. Once setup is complete, click [**Next**] to save changes.
10. Add name for the device.
11. Device added successfully and displayed under *Switch/Plug/Socket/Relay/Button* category.

6.1.3.3 Add DMX Devices

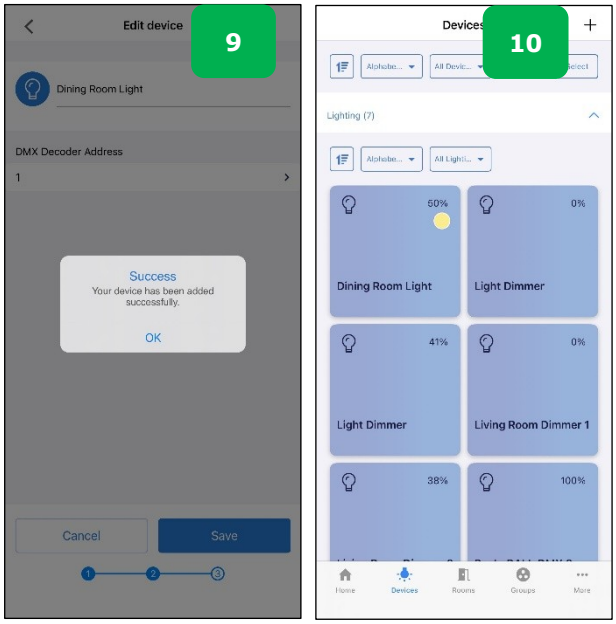
The following steps explain how to set up a light device connected to the BRTSys PanL Mood Lighting Controller via the PanL network, allowing users to adjust brightness, color, and other fade effects...



To add a DALI/DMX device:

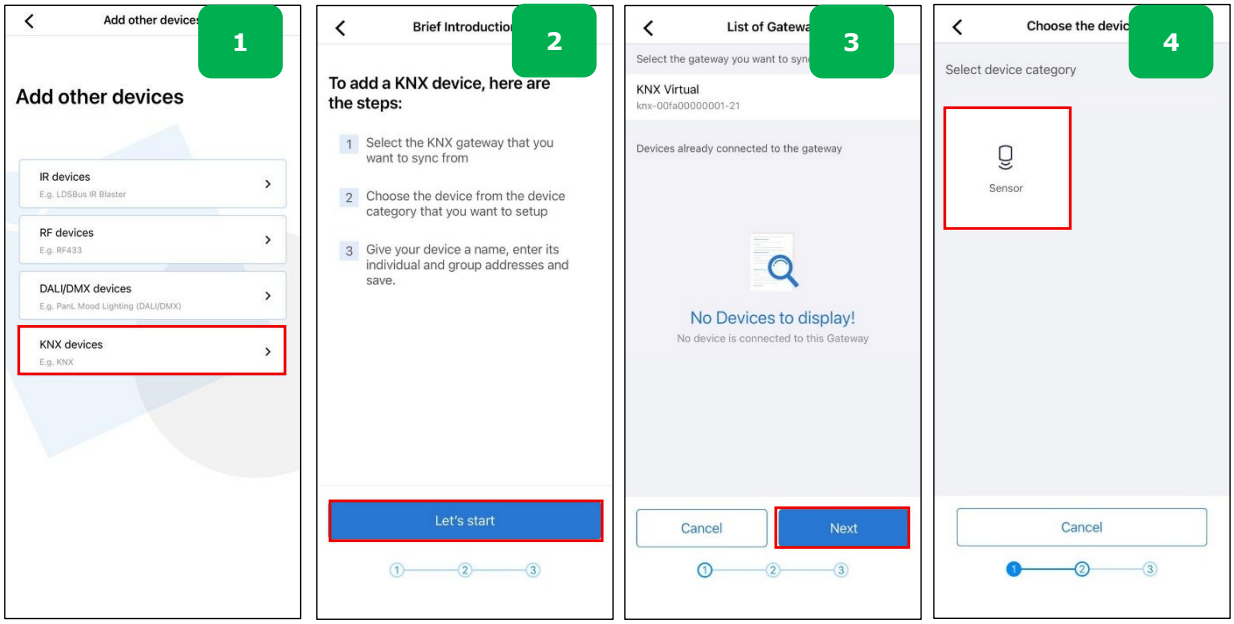
1. Select [**DALI/DMX devices**] to proceed with DALI/DMX device setup.
2. Overview of the setup process is displayed, to start setup click on [**Let's start**].
3. Select the PanL hub to which the DMX device is connected and click on [**Next**].
4. Select the DALI/DMX controller.
5. Select device category.
6. Add device name. Select DMX Decoder address.
7. Click [**Done**] after selecting the decoder address.
8. Tap on [**Save**] to confirm the changes.

9. DMX Light added successfully.
10. Device is displayed under Lighting category.



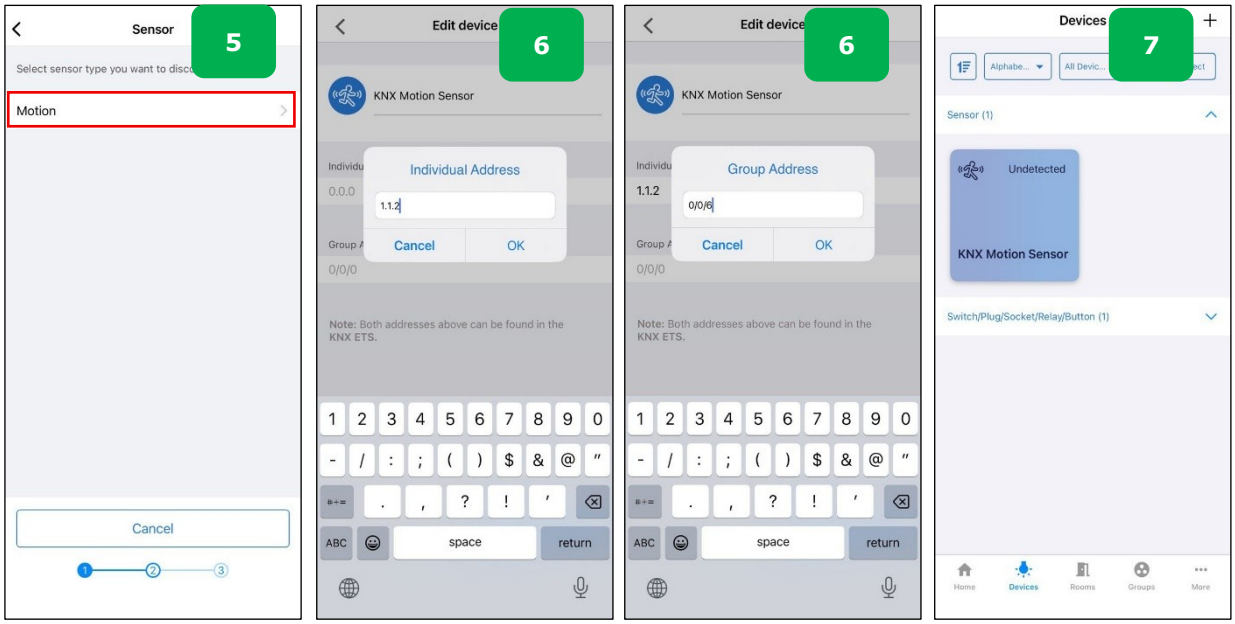
Note: Each light requires 4 DMX channels for RGBW control.

6.1.3.4 Add KNX Devices



To add a KNX device:

1. Select [**KNX devices**] to proceed with a KNX device setup.
2. Overview of the setup process is displayed, to start setup click on [**Let's start**].
3. Select the KNX gateway and click on [**Next**].
4. Select the device.



5. Select the device type.
6. Enter the Individual Address and Group Address that was configured for the motion sensor via KNX ETS (Engineering Tool Software). Please refer KNX website for more details.
7. KNX device added successfully. Device displayed under *Sensor* category.

6.2 Device Category

Users can view the connected devices in the Devices page. Each device category can be expanded by clicking the ⌄ icon.

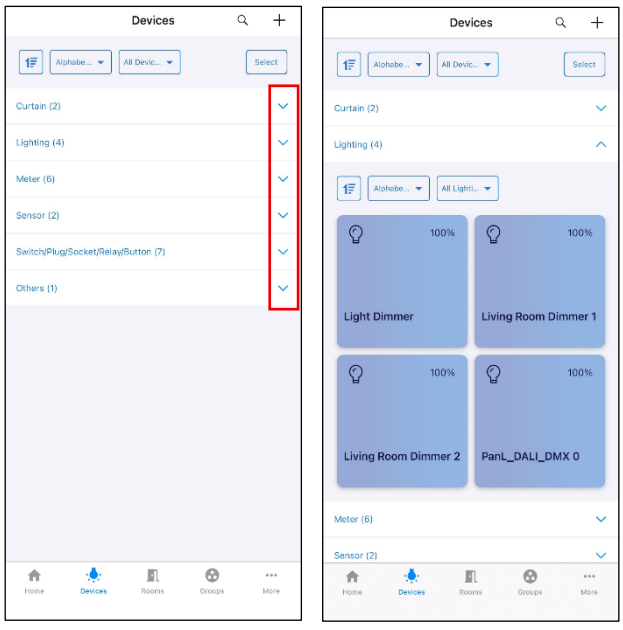


Figure 14 - View Connected Devices

The device list can be filtered using the button shown below based on the device type/protocol. PanL Hub supports Modbus, BACnet, DALI, DMX, LDSBus(Proprietary), RF433, Zigbee, KNX, protocols to connect and control a variety of devices.

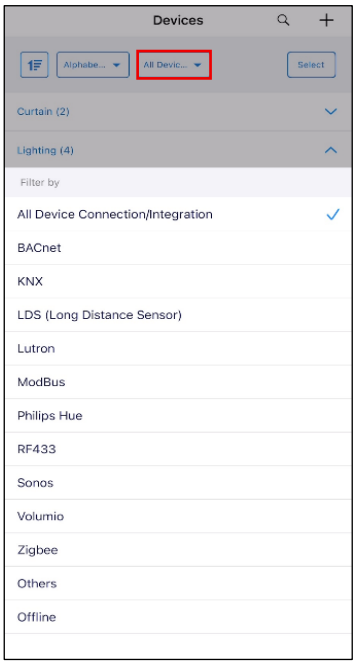


Figure 15 - Filter Devices

6.3 Lighting

Lights can be controlled using either a short tap or a long tap.

A short tap opens the Quick Control menu, allowing the user to perform basic actions such as turning the light on or off and adjusting brightness. Refer to Figure 16.

A long tap (pressing and holding the icon for more than 3 seconds) opens the Detailed Control page. From this page, the user can access extended device settings, add the device to Favourites, and enable notifications. Adding a device to Favourites allows quick access directly from the home page. Refer to Figure 17. Additional device-specific controls, such as color adjustment and other advanced features, may be available depending on the device model.

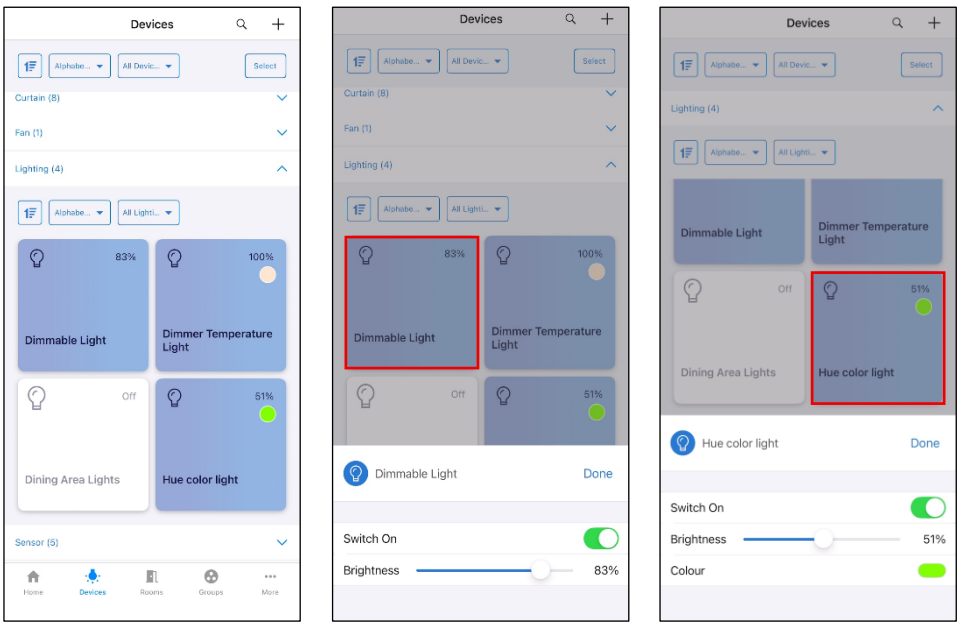


Figure 16 - Controlling Lights: Short Tap

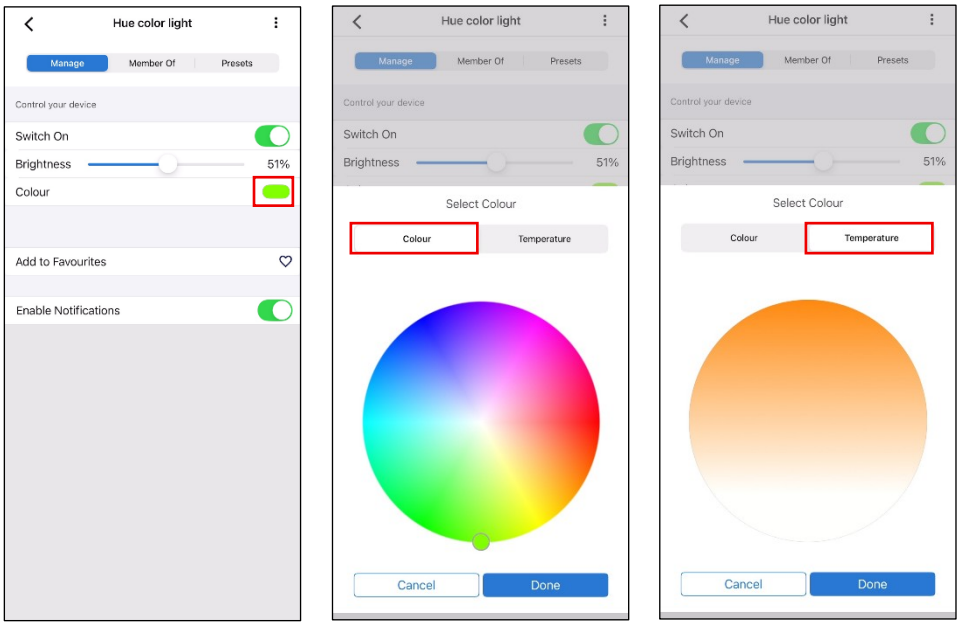


Figure 17 - Controlling Lights: Long Tap

The follow light device types are supported by PSL:

- Colour-Changing Lighting: Colour-changing light devices allows users to adjust the colour of the emitted light. Some colour-changing lights also offer the ability to adjust colour temperature, allowing users to switch between warm (yellowish) and cool (bluish) white light (Refer Figure 17).
- Dimmable Lighting: Dimmable lights allow users to turn the light ON/OFF and adjust brightness, offering flexibility for different lighting needs.
- Switch/Plug/Socket/Relay: A light device can be controlled using a relay, switch, or similar device, providing basic ON/OFF functionality.

User can as well filter list of light devices using the buttons shown.

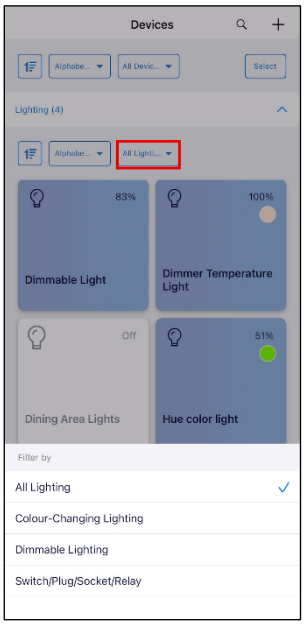


Figure 18 - Filter Light Devices

6.4 Fan

User can tap on any of the connected fans to turn it ON/OFF. Other features such as adjusting the speed, swing, quiet, and timer will depend on the model of the fan device.

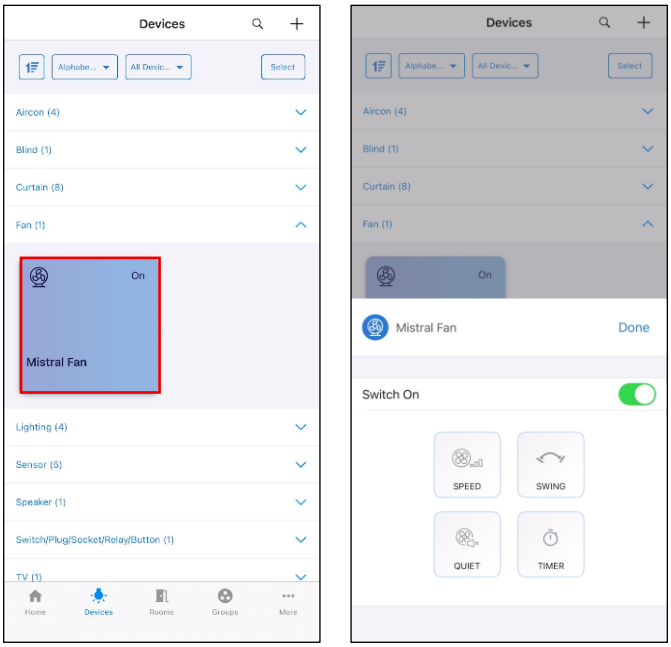


Figure 19 - Controlling Fans

By performing a long tap on any device icon, users can open a detailed page where they can control the device, add it to favourites, and enable notifications. Adding a device to favourites allows quick access from the home page.

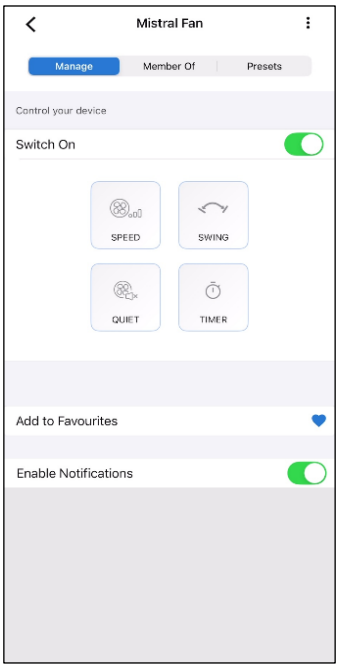


Figure 20 - Controlling Fans: Long Tap

6.5 Curtain/Blinds

Users can easily tap on any of the connected motorized curtains or blinds to control them. Both function the same, with the only difference being their physical orientation: curtains open left to right, while blinds move top to bottom.

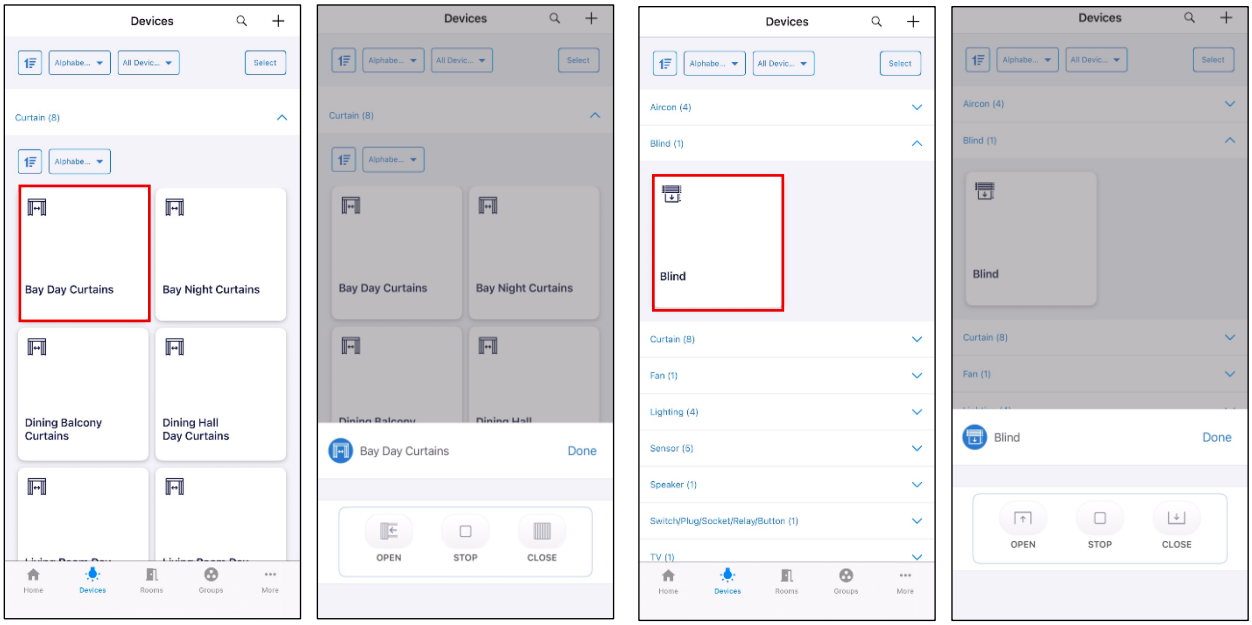


Figure 21 - Controlling Curtains and Blinds: Short Tap

By performing a long tap on any device icon, users can open a detailed page where they can control the device, add it to favourites, and enable notifications. Adding a device to favourites allows quick access from the home page.

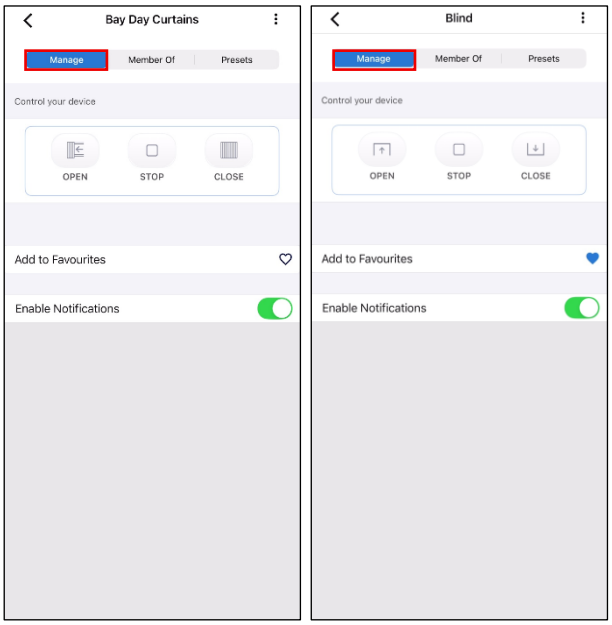


Figure 22 - Controlling Curtains/Blinds: Long Tap

6.6 Speakers

Users can select any connected speaker to play, stop, pause, repeat, mute, adjust volume etc. PanL Smart living is compatible with Sonos and Volumio.

NOTE: Speakers cannot be controlled via remote access.

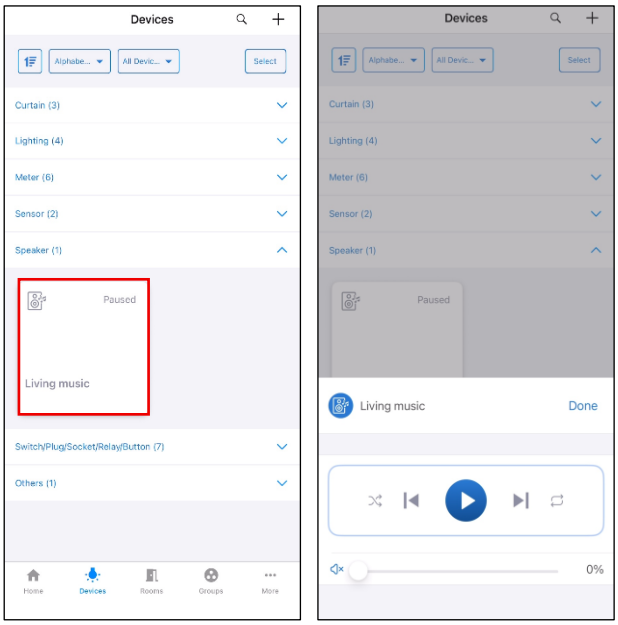


Figure 23 - Controlling Speakers

By performing a long tap on any device icon, users can open a detailed page where they can control the device, add it to favourites, and enable notifications. Adding a device to favourites allows quick access from the home page.

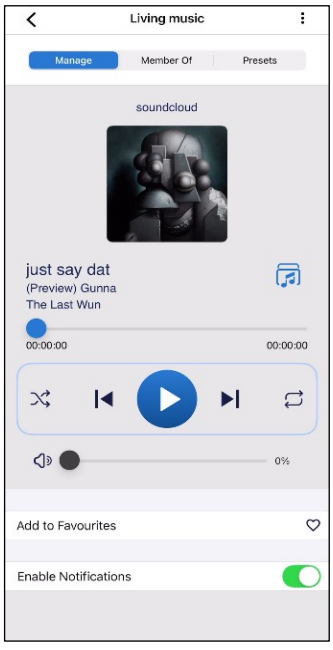


Figure 24 - Controlling Speakers: Long Tap

6.7 Sensors

The following sensors are currently supported by the PSL system:

- Motion Detector
- Ambient Light
- CO2
- Temperature
- Humidity
- Door/Window Open/Close
- IAQ
- TVOC
- Pressure
- Smoke Detector
- Water Leak Detector

To view sensor info –

1. Select ⌄ icon to open the Sensor's list.
2. Short tap on a sensor will show instantaneous sensor data read from sensor. Based on the type of sensor selected, the values will be reported accordingly.

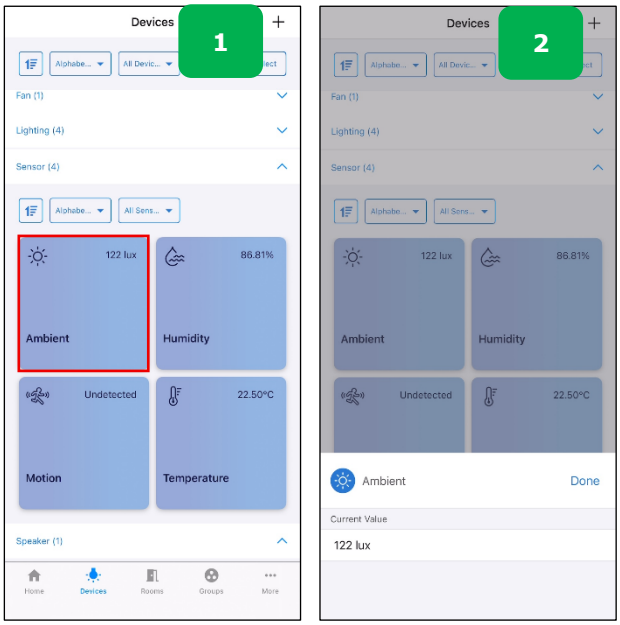


Figure 25 - Controlling Sensors: Short Tap

User can filter the list of sensors using the button shown below.

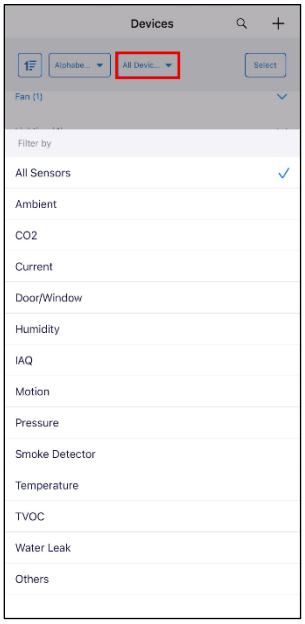


Figure 26 - Filter Sensor Devices

By performing a long tap on any device icon, users can open a detailed page where they can control the device, add it to favourites, and enable notifications. Adding a device to favourites allows quick access from the home page.

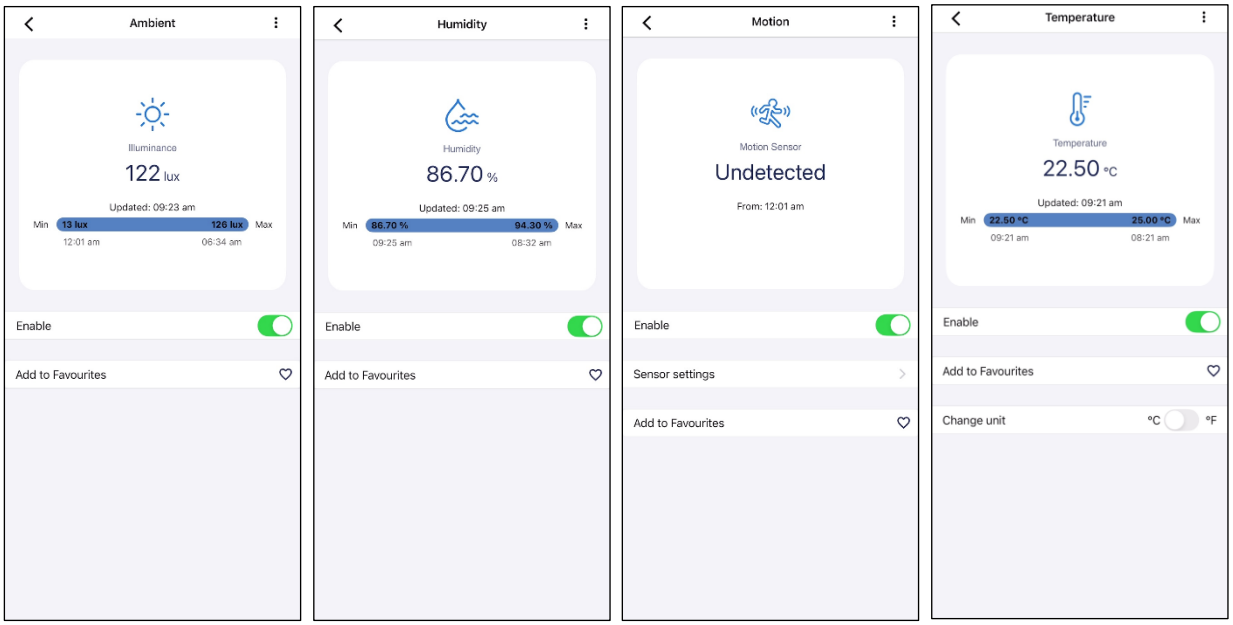


Figure 27 - Controlling Sensors: Long Tap

6.8 Aircons

Users can tap any connected air conditioner to turn it ON or OFF and adjust the temperature.

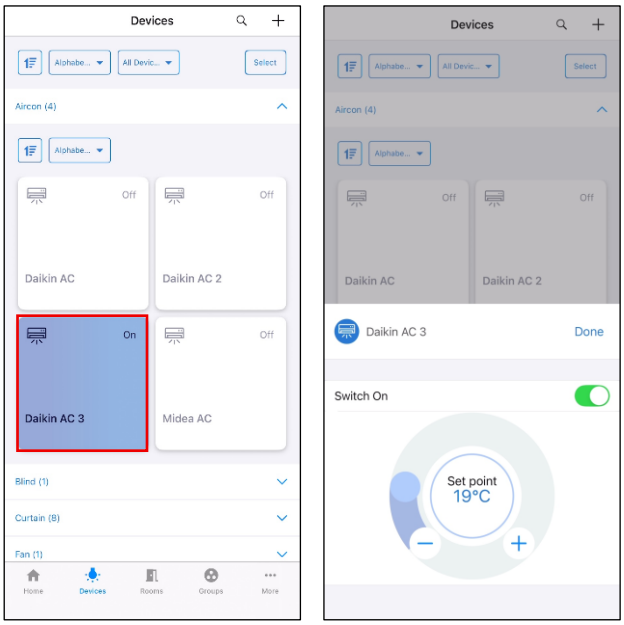


Figure 28 - Controlling Air-cons: Short Tap

By performing a long tap on any device icon, users can open a detailed page where they can control the device, add it to favourites, and enable notifications. Adding a device to favourites allows quick access from the home page.

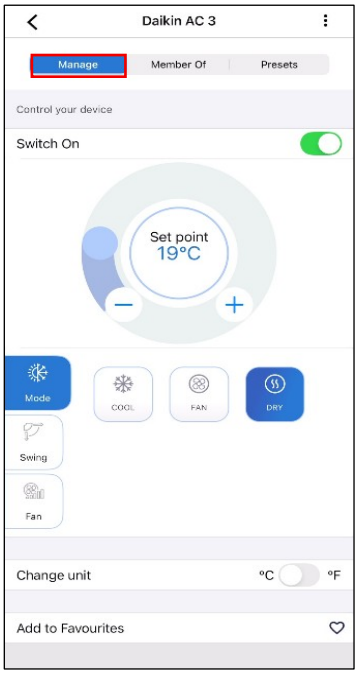


Figure 29 - Controlling Air-cons: Long Tap

6.9 Switch/Plug/Socket/Relay/Button

Devices in this category are divided into two types; each designed for a different purpose.

1. **Power Controlling Devices**

Power-controlling devices are used to directly turn lights or appliances ON or OFF. These devices control the electrical power supplied to the connected load.
Examples include:

- Switches
- Plugs
- Sockets
- Relays

These devices can be individually controlled using the PSL mobile app, as well as through scenes and automation.

Example:
A relay connected to a ceiling light or a smart plug connected to a fan.

Users can tap any connected switch/plug/socket/relay to turn it ON or OFF.

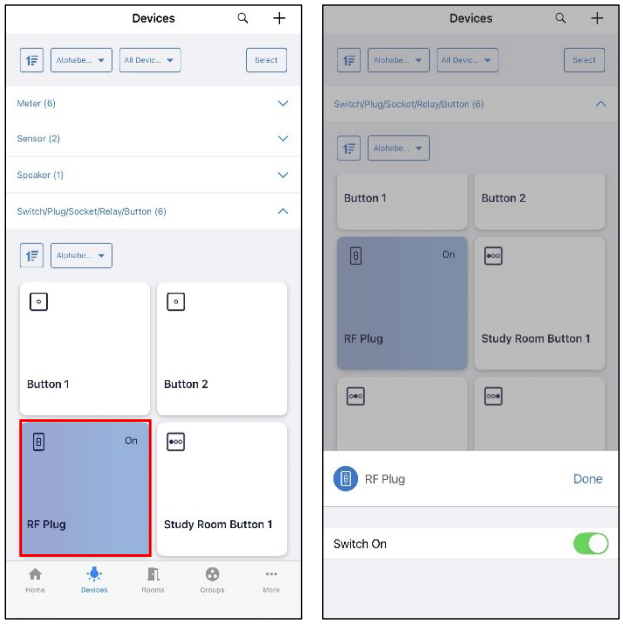


Figure 30 - Controlling Switch/Plug/Socket/Relay: Short Tap

By performing a long tap on any device icon, users can open a detailed page where they can control the device, add it to favourites, and enable notifications. Adding a device to favourites allows quick access from the home page.

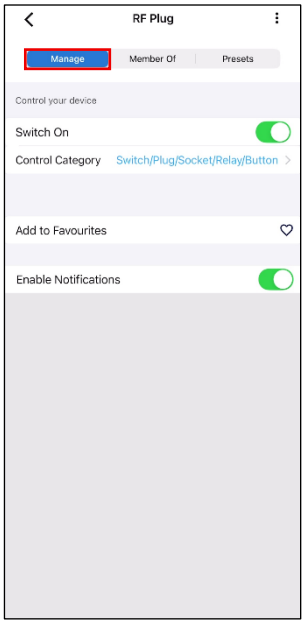


Figure 31 - Controlling Switch/Plug/Socket/Relay: Long Tap

2. Button Devices

Button devices act as input controls. They do not directly control power. Instead, they send commands to the system, which then controls the assigned devices.
Examples include:

- Smart wall switches
- Battery-powered buttons
- Scene buttons

Button devices can be configured to control any device, group, or scene within the system.

Example:
A wall button configured to turn on multiple lights at once.

Toggle the switch to turn the button device **off** or **on**.

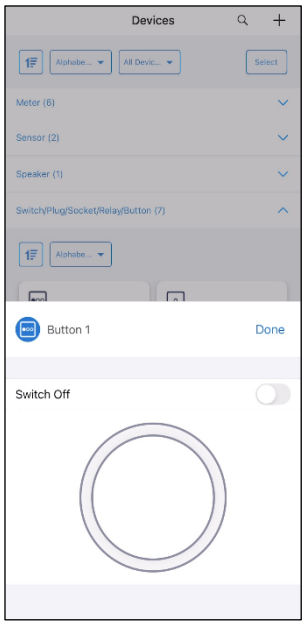


Figure 32 - Controlling Button: Short Tap

Long Tap on a button device to open the detailed page where user can control the device and add to favourites. User can also view the different actions available for the button – Single Tap, Double Tap or Long Tap.

Selecting an available action directs users to the Auxiliary Hubs, where they can link the associated controller or hub to control devices. Note that this option is only available to primary users.

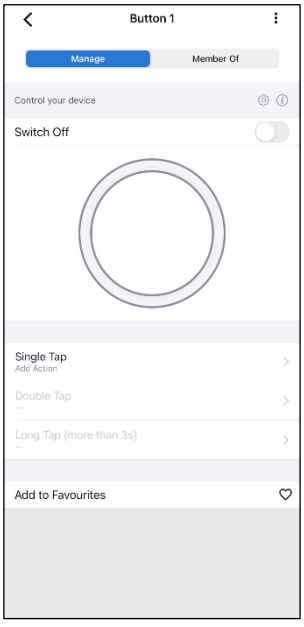


Figure 33 - Controlling Button: Long Tap

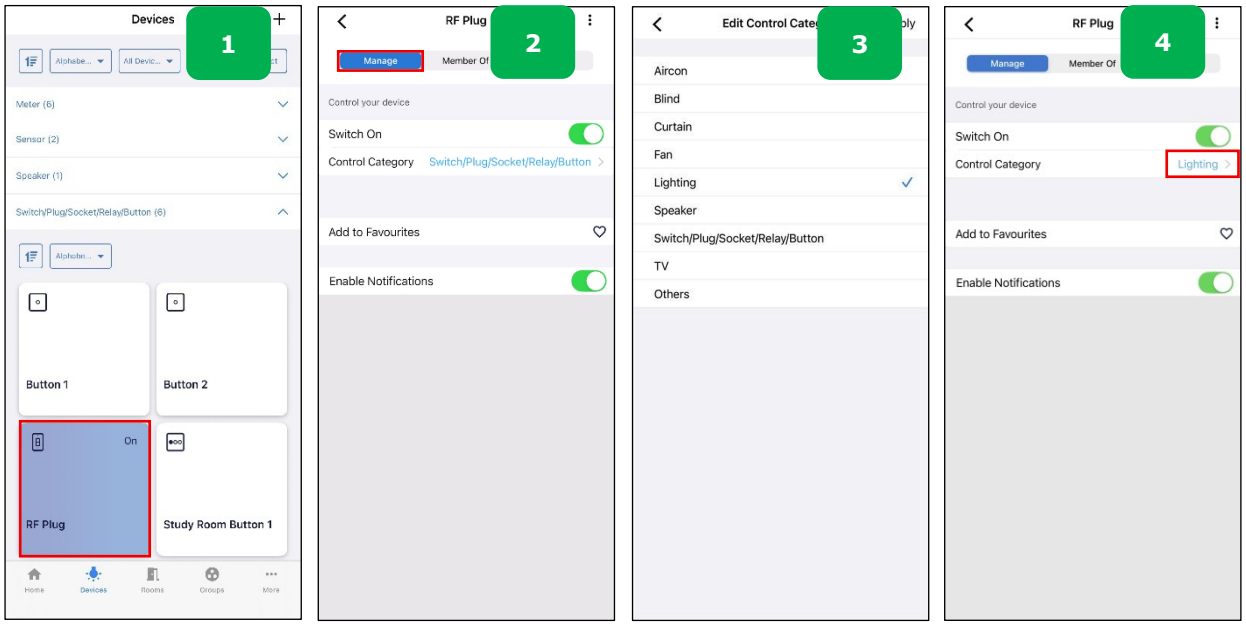
NOTE:
- Power-controlling devices must be connected to the electrical load.
- Button devices can be placed anywhere and customized to control one or more devices. Button behaviour can be changed at any time using the mobile app.

6.9.1 Configure to Control Other Devices

A switch, plug, socket, or relay can be configured to control other devices, such as fans, lights, or air conditioners if that device is connected behind the switch/plug/socket/relay/button. This can be done by modifying the *Control Category* in the Manage Tab.

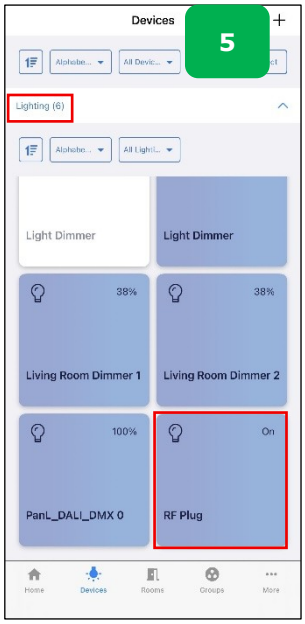
For example, when a switch is discovered, it is initially categorized as "Switch/Plug/Socket/Relay/Button." However, if the device is used to control a light (e.g., turning it on or off), it can be reassigned to the "Lighting" category. Note: Control is limited to only ON/OFF.

The images below demonstrate how to do this.



To Configure a plug to control a light –

1. Long tap on Plug device.
2. Tap on **[Control Category]**.
3. Current Control Category is set to *Switch/Plug/Socket/Relay/Button*. Tap on **[Lighting]** to control lighting device. To confirm click **[Apply]**.
4. Control category is updated to Lighting.
5. It will be displayed under the Lighting category.



6.10 TV

Users can tap any connected TV to turn it ON or OFF.

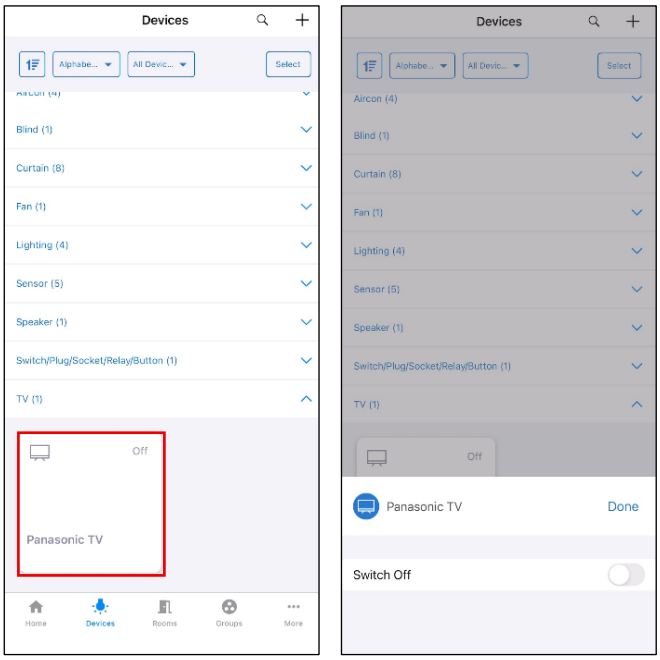


Figure 34 - Controlling TV: Short Tap

By performing a long tap on any device icon, users can open a detailed page where they can control the device, add it to favourites, and enable notifications. Adding a device to favourites allows quick access from the home page.

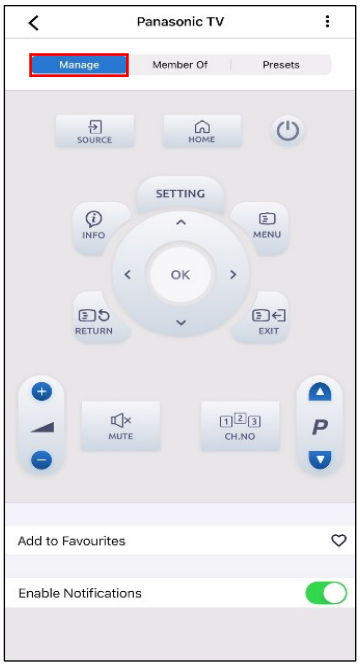


Figure 35 - Controlling TV: Long Tap

6.11 Meter

Users can now connect energy/flow meters to measure energy and water consumption. These devices will be displayed under the *Meter* page.

Tap on any of the meter device to view the Active Power.

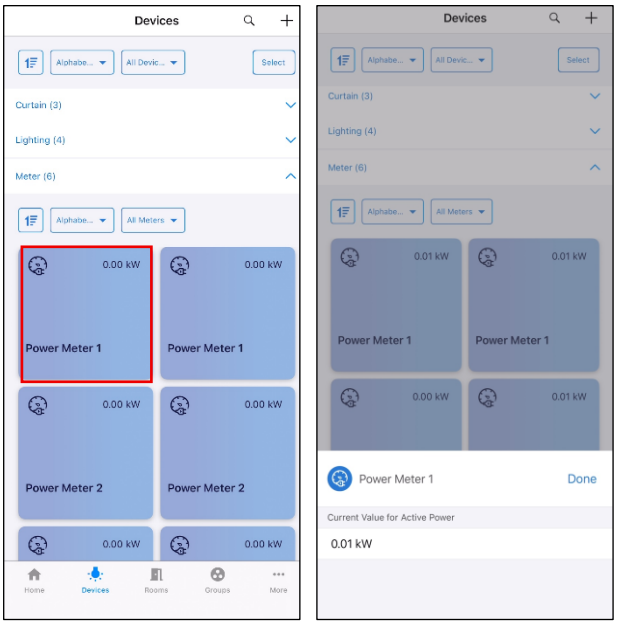


Figure 36 - View Meter: Short Tap

By performing a long tap on any device icon, users can access a detailed page with additional information. In this example, a Power Meter has been selected. The detailed page displays Active Power measurements followed by Total Energy Consumption (both monthly and daily).

In this example, the power meter is connected to an LDSBus 2CH Relay + iSENSE controller. Users can click on *iSENSE Settings* to view the different power meters connected to the iSENSE controller.

Selecting *View Charts* opens the chart page, where users can view hourly, daily, and monthly consumption charts, showing both aggregated and average values. Users can also navigate through historical data to analyse past consumption patterns.

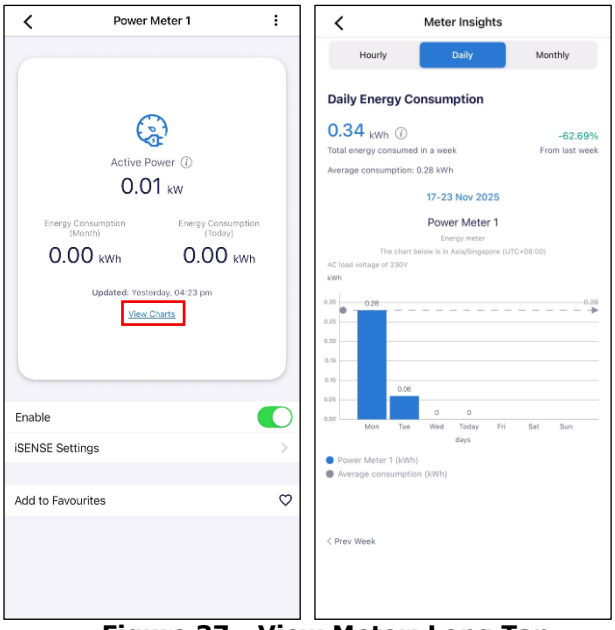


Figure 37 - View Meter: Long Tap

6.12 Additional Functions

On clicking the ⋮ icon on any device, user can edit device name, add device to group, room or zone, replace, configure, and remove the device.

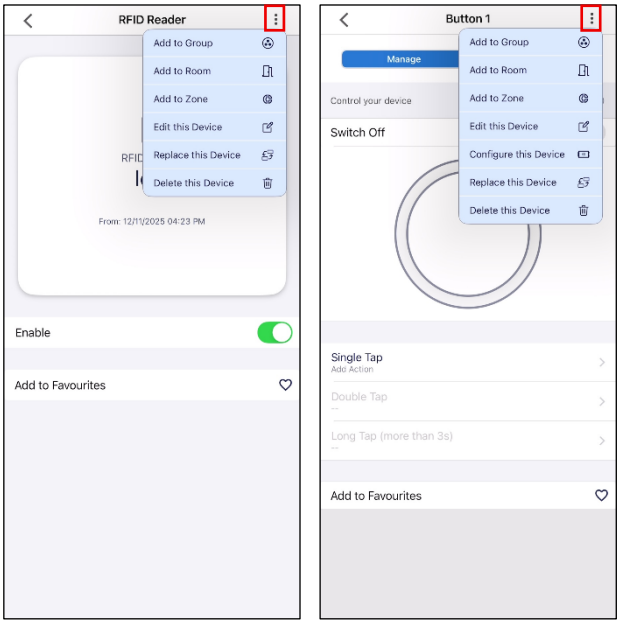


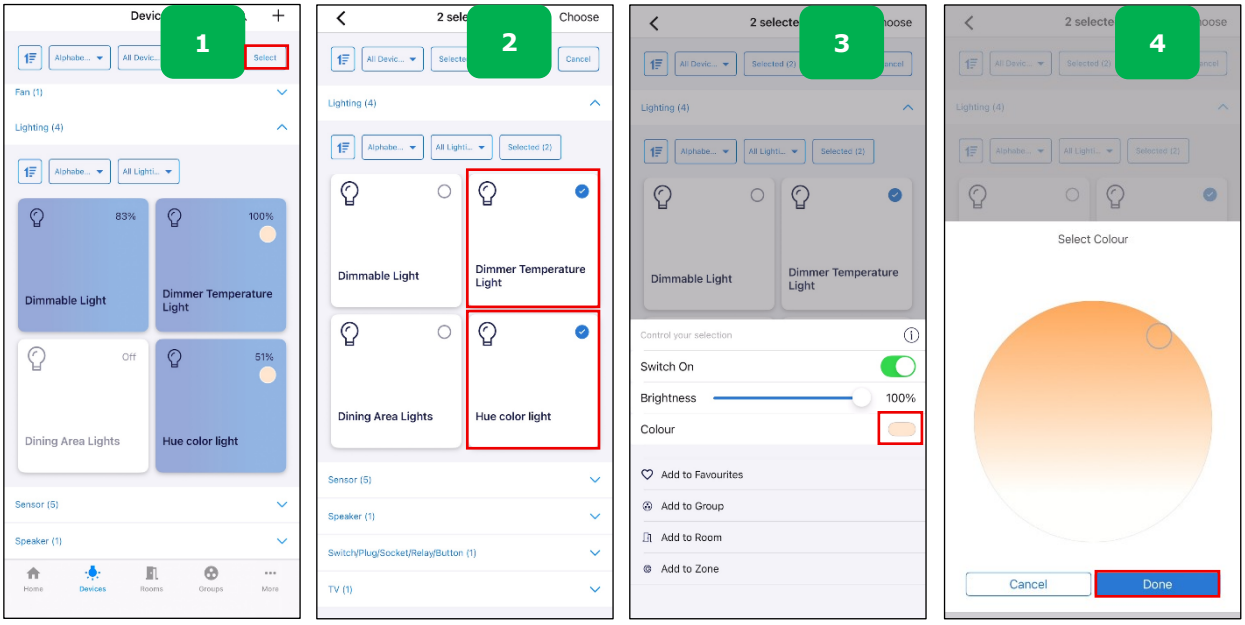
Figure 38 - Additional Functions

6.13 Multi Selection

Its primary purpose is to function as an ad-hoc (anonymous) group. Example, it can be used to combine several lights to control their brightness and color, provided they all support those features. It consolidates the common controllable parameters of the selected devices.

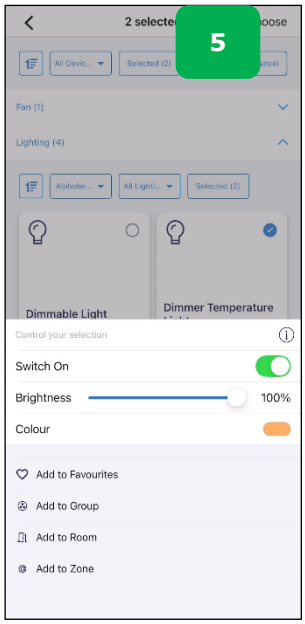
For example, if you select one dimmable light and one-color light, the common controls will be on/off and dimming, allowing you to perform actions on both without needing to create a group. This ad-hoc group automatically get deleted once the user exits multi-selection mode.

The images below illustrate how to change the color of two lights using the multi-selection feature.



To use the multi selection feature:

1. From Devices page, tap on [**Select**] button.
2. Multiple devices can be selected using this feature. In this example, two light devices are selected.
3. Tap on [**Choose**] to open additional function's menu, then tap the color icon to change the light color
4. Select the desired color and confirm your selection by tapping [**Done**].
5. The lights will change to the chosen color.



User can tap on [**OK**] button to exit the multi selection mode.

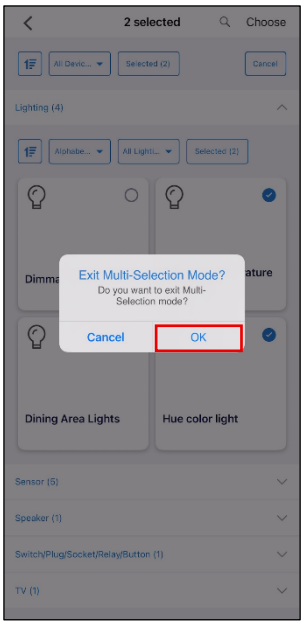


Figure 39 - Exit Multi-Selection Mode

7. Common Features

Below features are common for devices, rooms, groups, and zones.

7.1 Sort Tab

Users can sort the device list in two ways:

- Alphabetically
- Tap [**Custom device category**], adjust the order using the ═ icon, and tap [**Save**] to confirm.

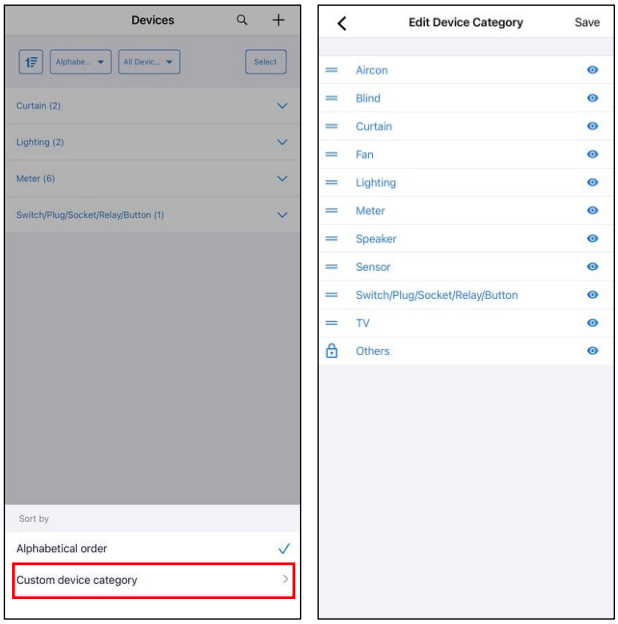


Figure 40 - Sort Devices

7.2 Member of Tab

Use the "Member of" tab to add or view the rooms, zones, or groups associated with a device.

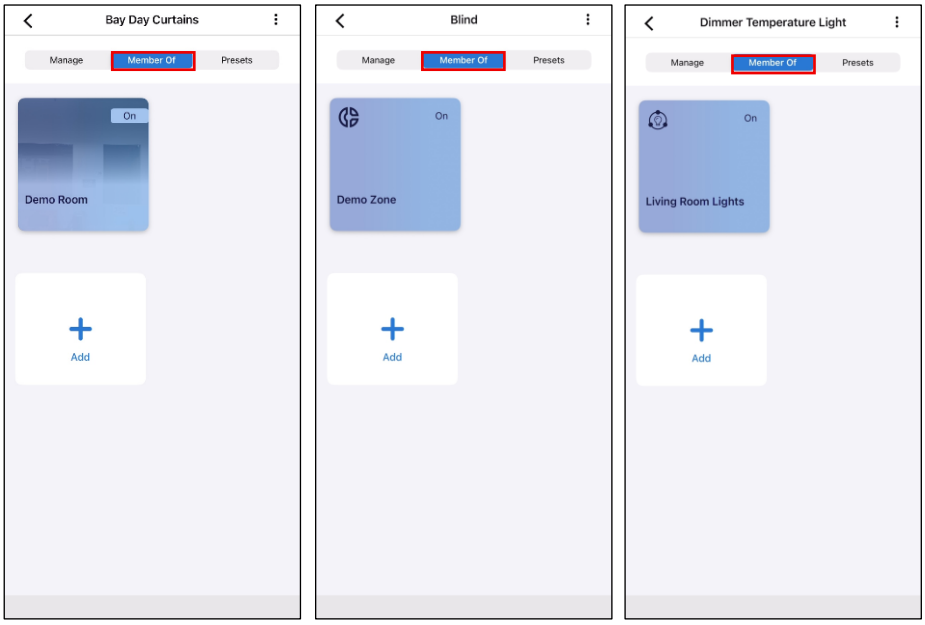


Figure 41 - Member of Tab

7.3 Devices Tab

This page is specific to Rooms, Groups, and Zones, displaying the devices associated within.

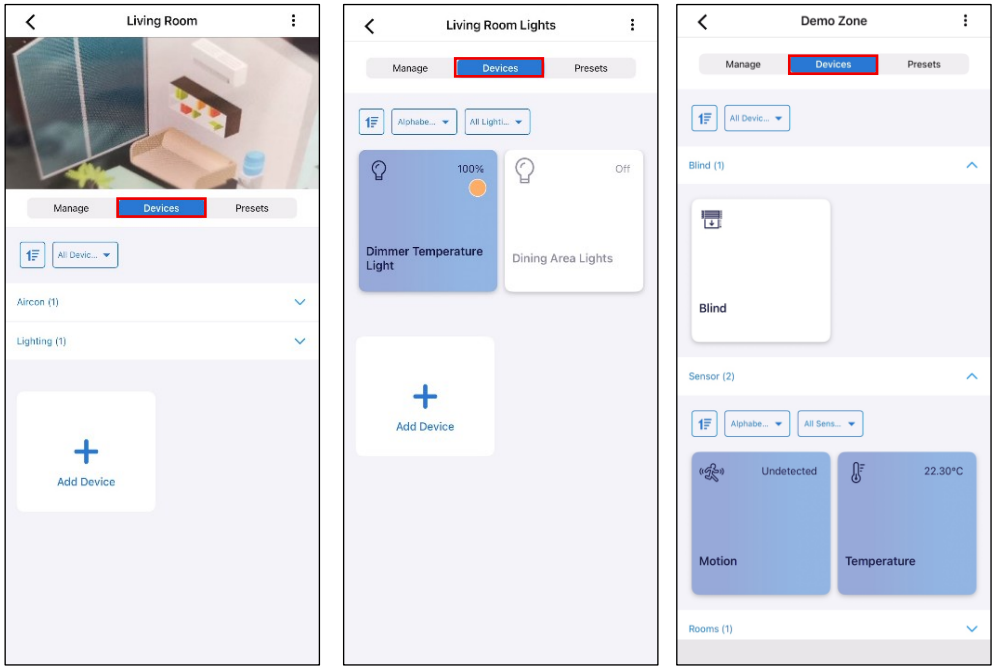


Figure 42 - Devices Tab for a Room, Group and Zone

7.4 Presets Tab

In PanL Smart Living, presets are predefined settings (e.g. set colour when activated) that can be created for device, room, group, and zone. Refer to Section Create Presets on how to create a preset. Below image shows a preset for *Dimmable Light* device.

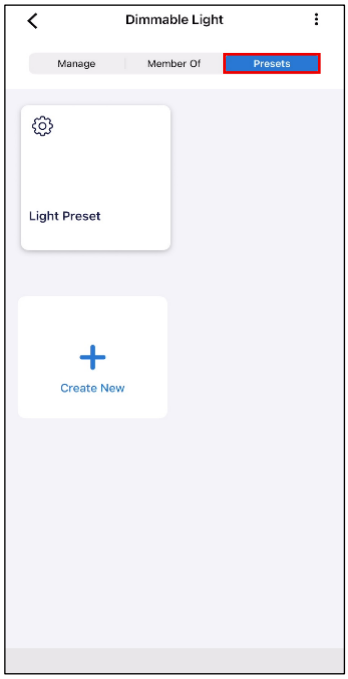
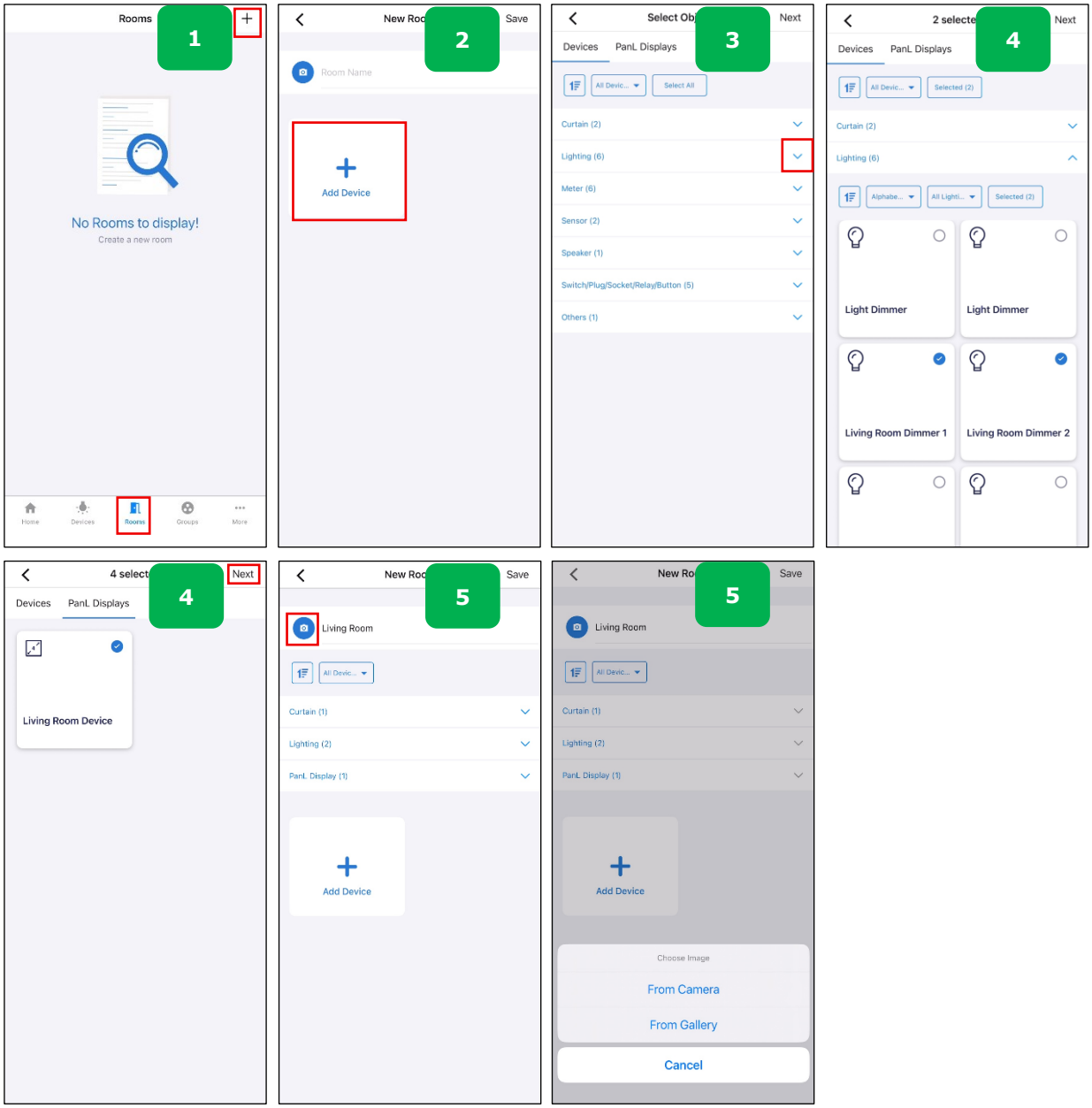


Figure 43 - Presets Tab

8. Room Management

8.1 Create Room

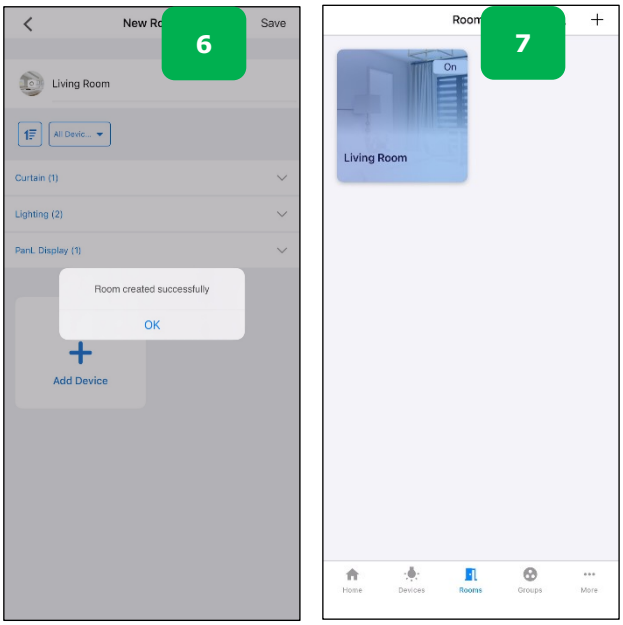
Rooms in PanL Smart Living are a collection of unique devices. Additionally, each device is also unique across rooms, for example an aircon in one room cannot be part of another room.



To create a room in a PanL Network –

1. Select [**Rooms**] to open the rooms page. Tap on **+** to create a new room.
2. Click on [**Add Device**] button.
3. The page will display the list of connected devices.
4. Expand each category to view the connected devices and select the required devices that should be linked to the new room.
5. Select the camera icon to choose an image for the room. Enter the room name and click [**Save**] to save the changes.

6. Room created successfully.
7. The newly created room will be displayed.



8.2 Room Control

Rooms can be controlled via short or long tap. Short tap enables users to control the room via toggling the switch. This will turn ON/OFF all the devices linked under this room.

The user can toggle the selected room on or off and add it to their favourites through the Manage tab, which can be accessed by performing a long tap.

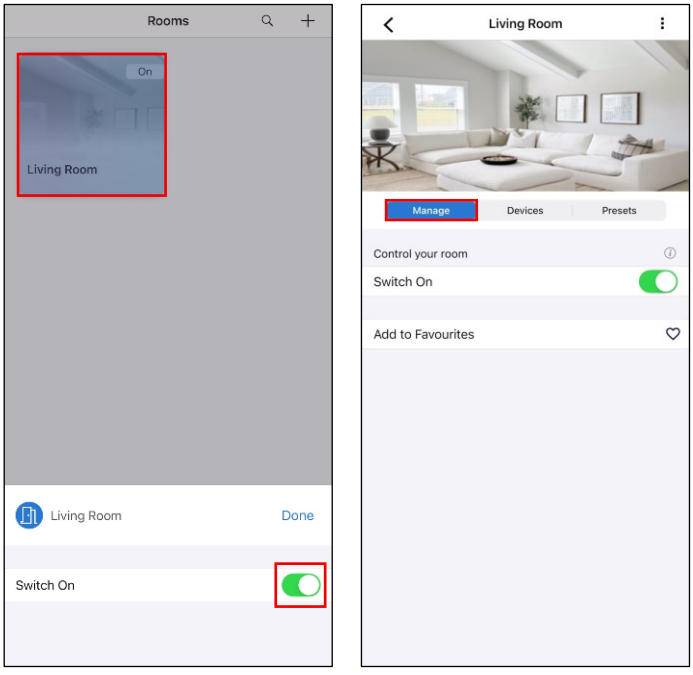


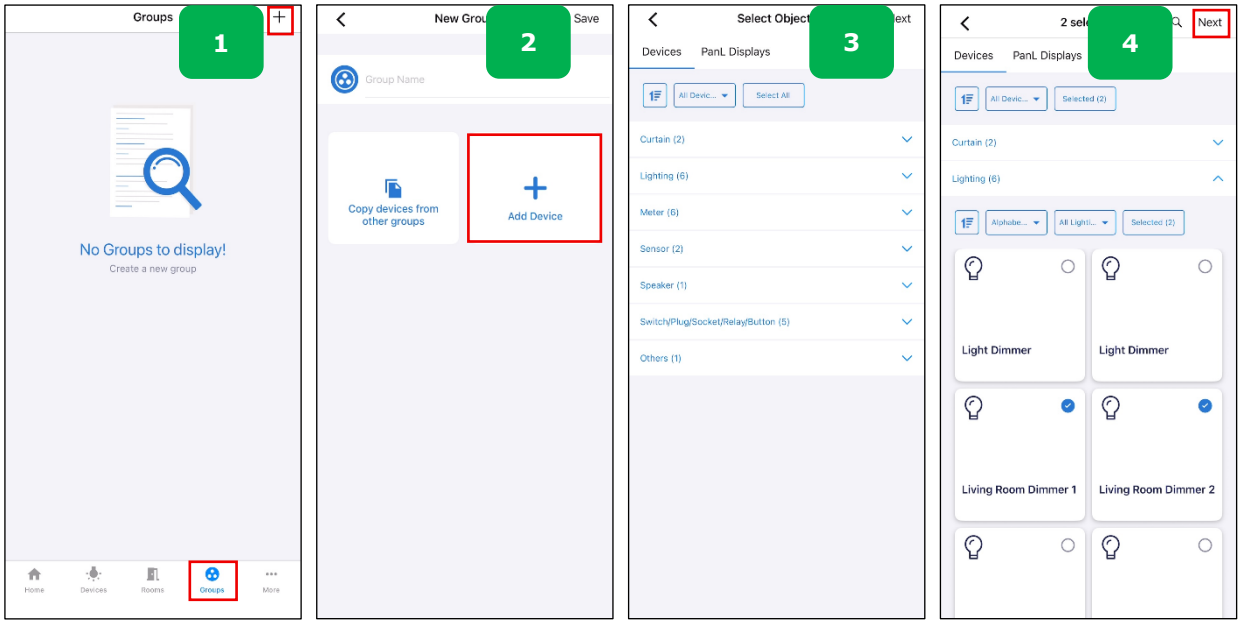
Figure 44 - Room Control: Short vs Long Tap

9. Group Management

9.1 Create Group

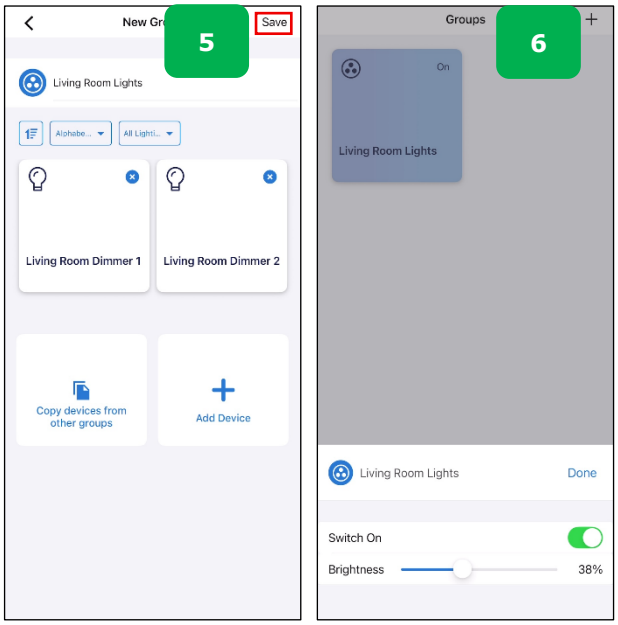
Groups in PanL Smart Living are also a collection of unique devices. Unlike rooms, they are not restricted across groups, for example, an aircon in one group can also be part of another group. Groups can be created manually by adding devices to create a new group or by copying devices from other groups. Both methods are shown below.

Method 1: Add Device

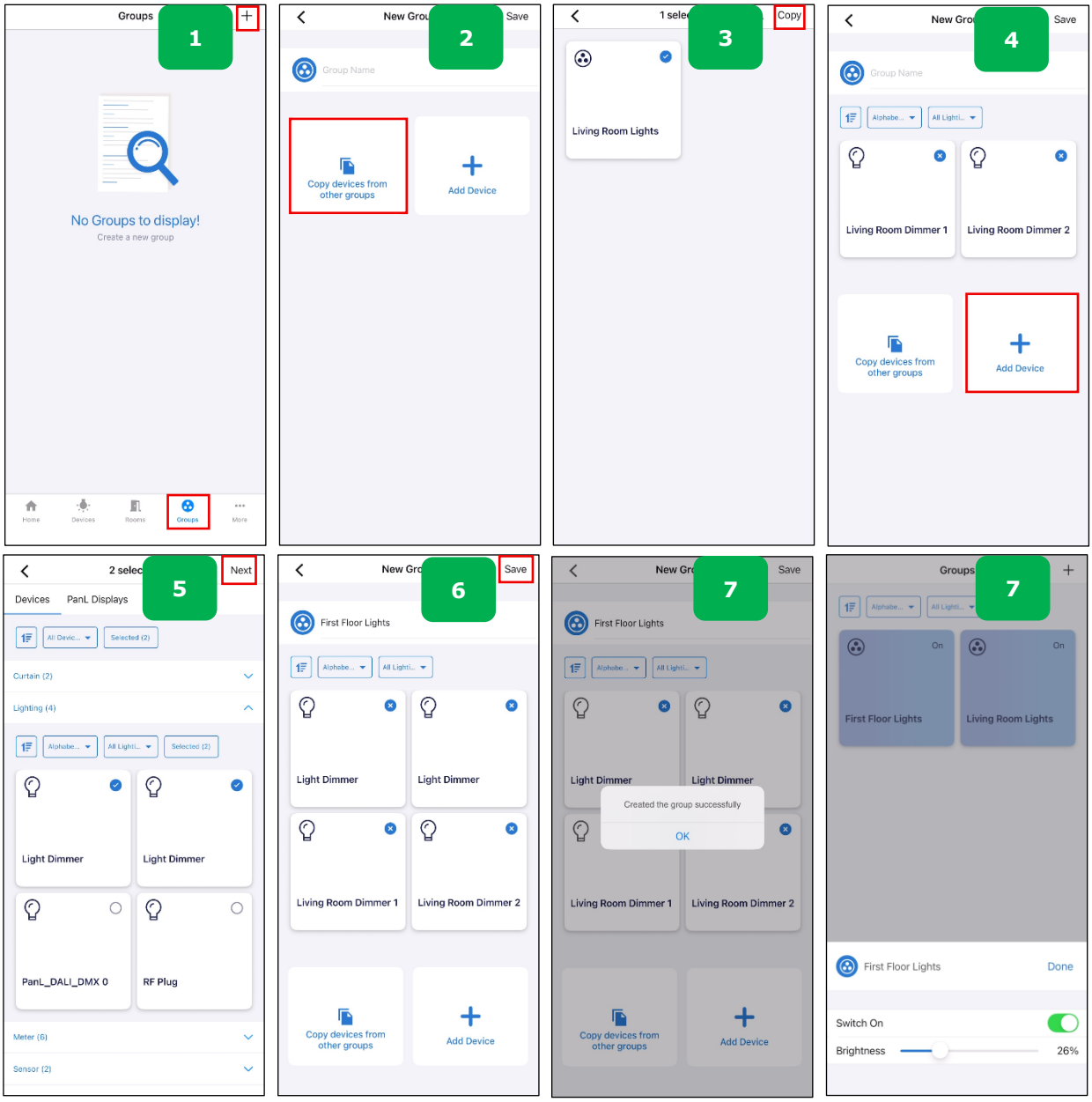


To create a group in a PanL Network –

1. Select [**Groups**] to open the groups page. Tap on **+** to create a new group.
2. Click on [**Add Device**] button.
3. The page will display the list of connected devices.
4. Expand each category to view the connected devices and select the required devices that should be linked to the new group. Tap on [**Next**] to confirm.
5. Click on [**Save**] to save the changes.
6. The newly created group will be displayed. Tap on the group to turn it ON/OFF or change group attributes.



Method 2: Copy Devices from other groups



To create a group using Copy from Other Groups feature, in a PanL Network –

1. Select [**Groups**] to open the groups page. Tap on **+** to create a new group.
2. Click on [**Copy devices from other groups**] button.
3. The page will display the list of created groups. Choose the desired group from which to copy the list of devices.
4. Confirm the list of devices and select [**Add Device**] to add more devices to the group.
5. Select the devices, click on [**Next**] to confirm selection.
6. Name the group and click on [**Save**] to save the changes.
7. The newly created group will be displayed. Tap on the group to turn it ON/OFF or change group attributes.

9.2 Group Control

Tap on the group to turn it ON/OFF by toggling the switch. This will turn all the devices linked under this group to turn ON/OFF accordingly. As the above screenshots illustrate creating a group for controlling lights, additional controls such a color and brightness (if supported by all devices) can be controlled via this feature.

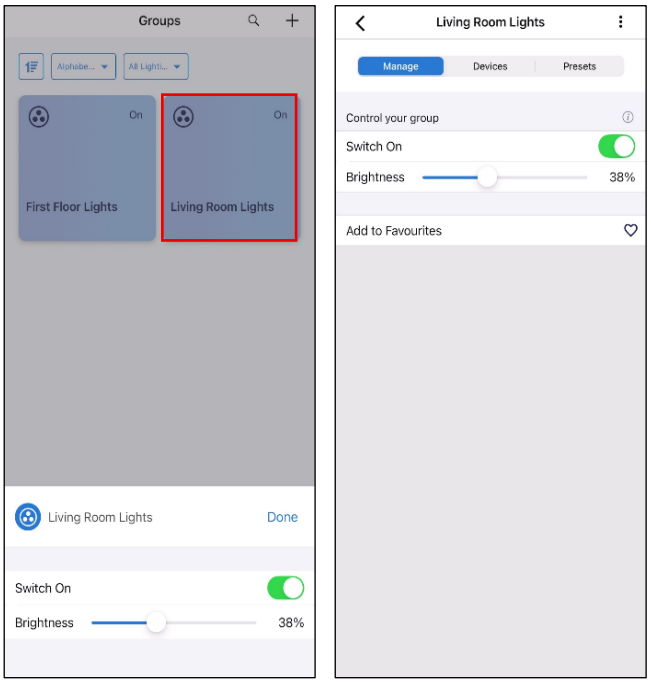


Figure 45 – Lights Group Control: Short vs Long Tap

This functionality is not limited to lighting and extends to other device categories. For example, a group of air conditioners can be controlled simultaneously to adjust temperature, and a group of curtains can be opened, closed, or stopped with a single action.

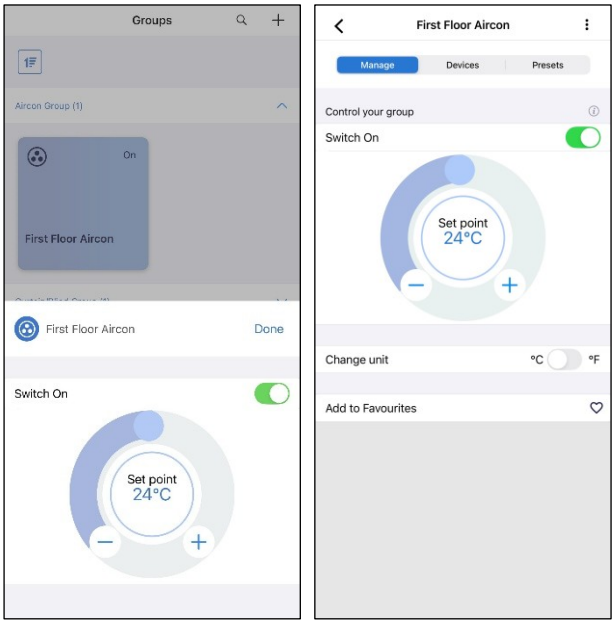


Figure 46 - Aircon Group Control: Short vs Long Tap

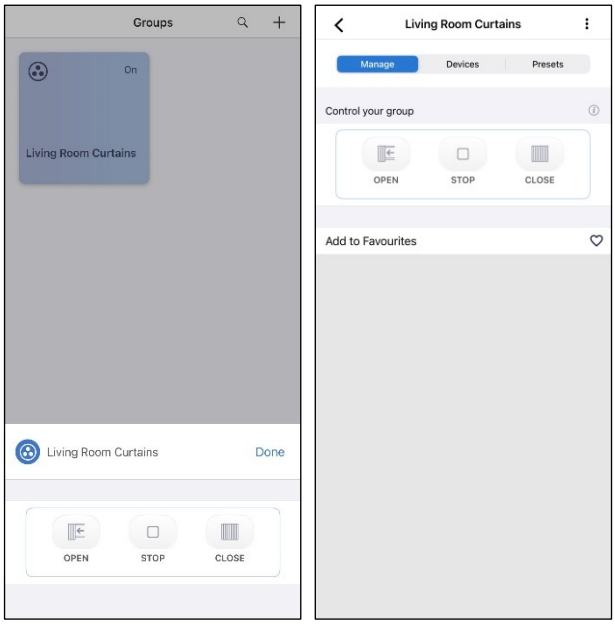


Figure 47 - Curtains Group Control: Short vs Long Tap

10. More Functions

Primary users can access all the mobile app's features, while secondary users have limited options as listed below.

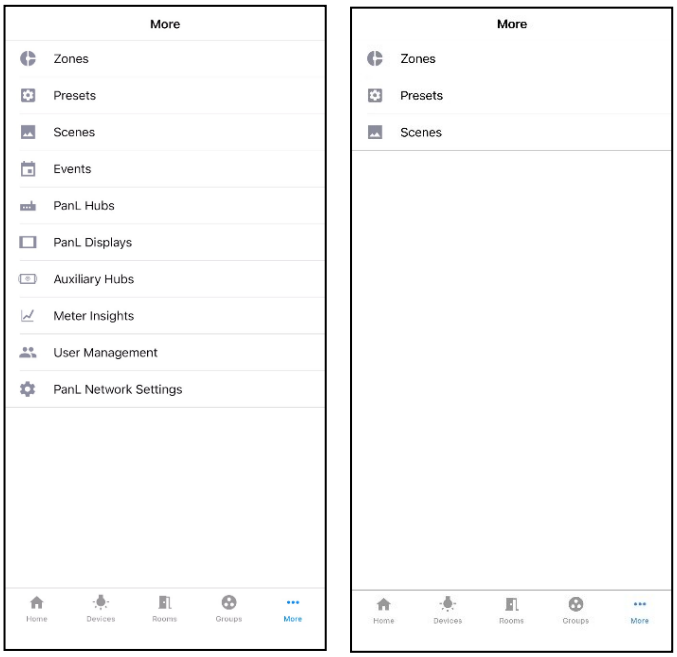
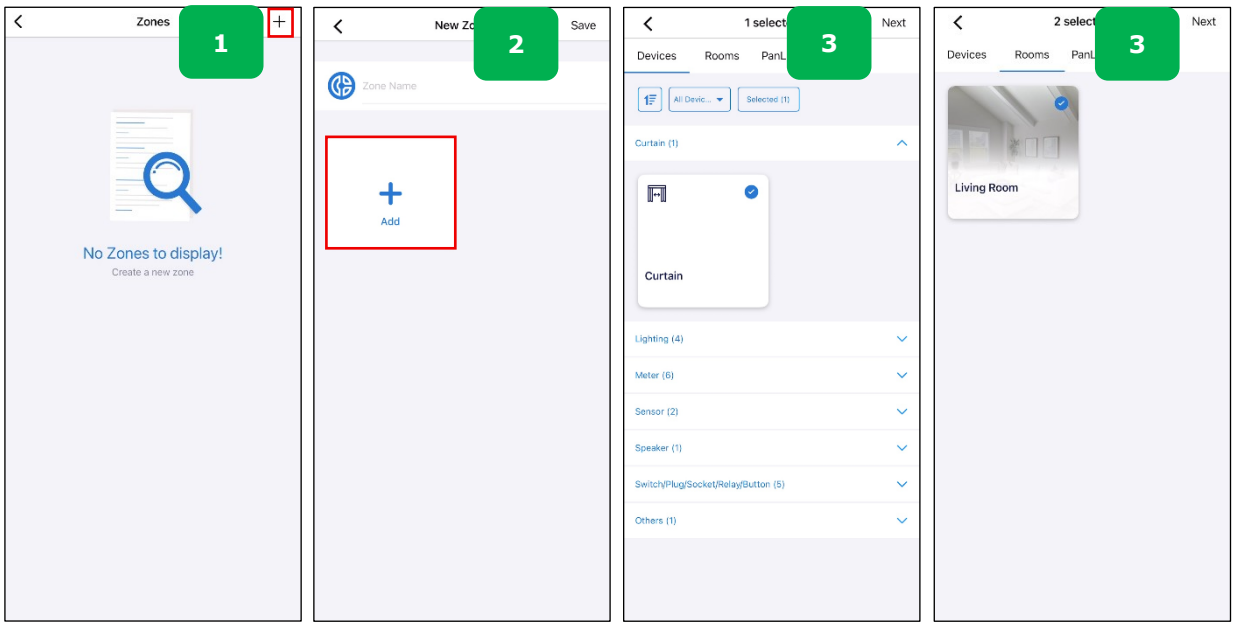


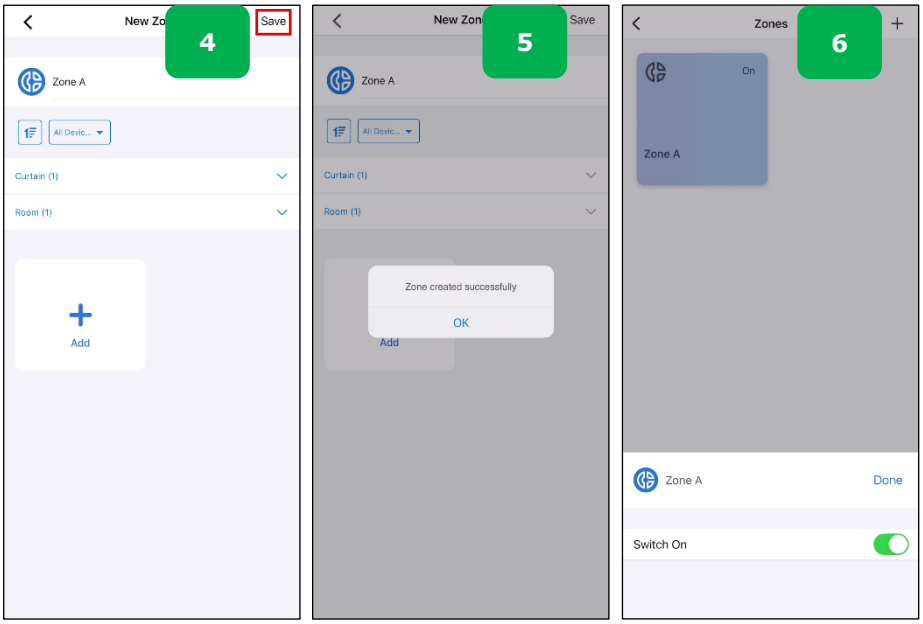
Figure 48 - More Menu Page: Primary vs Secondary User

10.1 Zone Management

10.1.1Create Zone

Zone is a collection of devices and rooms. It also can contain devices which are not part of rooms.





To create a zone in a PanL Network –

1. From More Menu page, select [**Zones**] to open the zones page. Tap on **+** to create a new zone.
2. Click on [**Add**] button.
3. The page will display the list of connected devices/rooms/displays. Select the required devices/rooms/displays that should be linked to the new group.
4. Create a name for the zone and tap on [**Save**] to save the changes.
5. The newly created zone will be displayed.
6. Tap on the zone to turn it ON/OFF.

10.1.2Zone Control

Zones can be controlled via short or long tap. Short tap enables users to control the zone via toggling the switch. This will turn ON/OFF all the devices linked under this zone.

The user can toggle the selected zone on or off and add it to their favourites through the Manage tab, which can be accessed by performing a long tap.

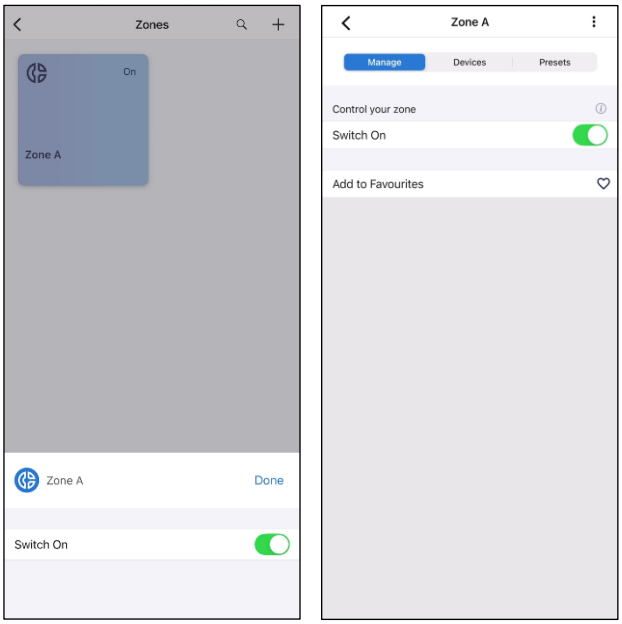


Figure 49 - Zone Control: Short vs Long Tap

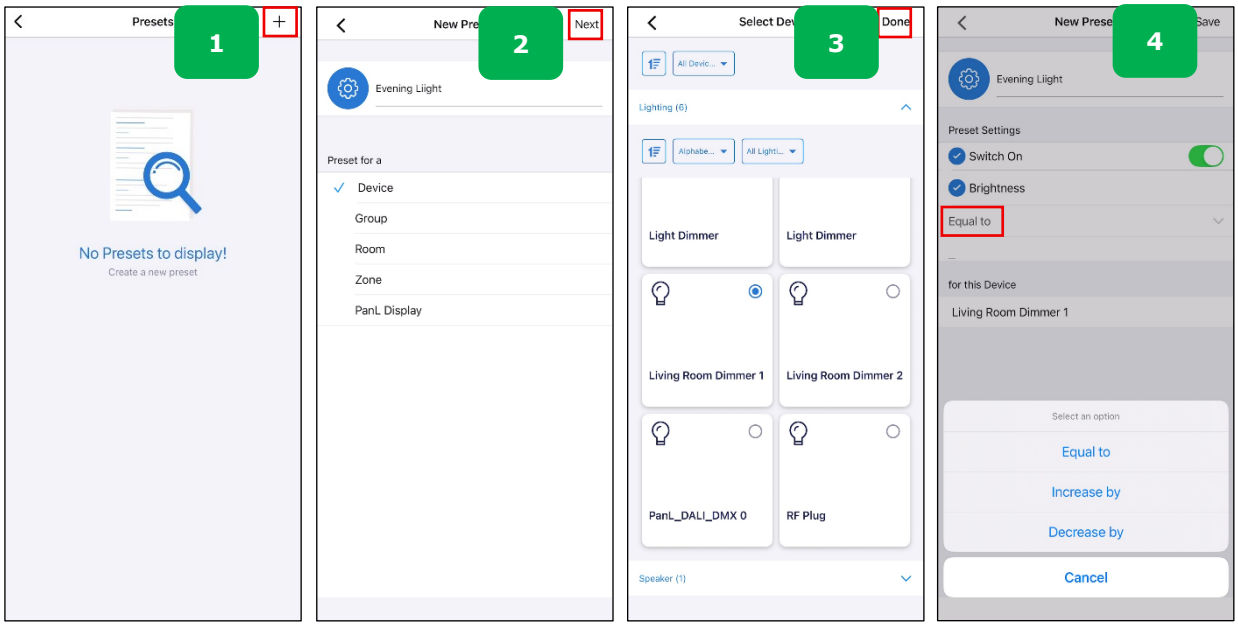
10.2 Presets Management

In PanL Smart Living, presets are predefined settings (e.g. set colour when activated) that can be created for device, room, group, an. one.

10.2.1 Create Presets

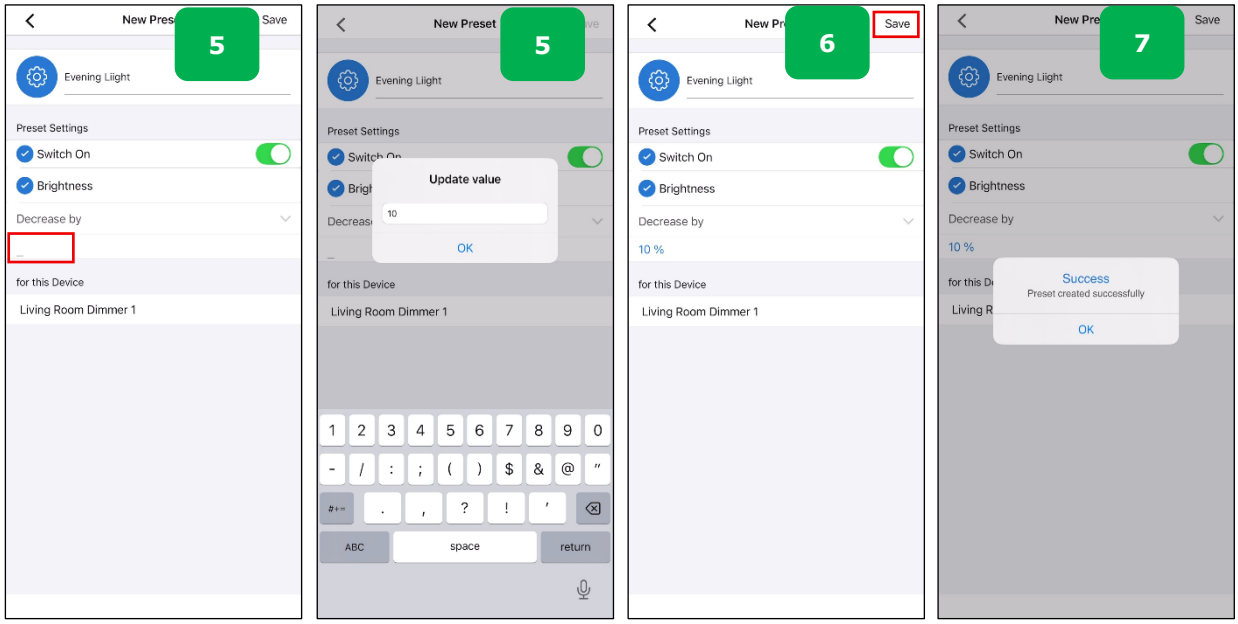
The screenshots below demonstrate how to add a preset for a light device.

Note: Presets can be added to automation. i.e. Scenes or Events.



To add a preset for a light –

1. From More Menu page, select [**Presets**] to open the presets page. Tap on **+** to create a new zone.
2. Name the preset and select which category to create a preset for (device, room, group, zone, or PanL Display).
3. Select the object/s.
4. For light preset, set if the device to be turned ON/OFF and set any additional settings such as brightness. Choose from the options: "Equal to," "Increase by" or "Decrease by." In this example we choose "Decrease by."



5. Click "–" to set how much the brightness should decrease.
6. Click on [**Save**] to save the changes.
7. Preset created successfully. When this preset is played, the brightness of the *Living Room Dimmer 1* device will decrease by 10%.

10.2.2Preset Control

Presets can be played with either a short or long tap. A short tap on a created preset allows the user to play it. The user can play the preset and add it to their favourites through the Manage tab, which can be accessed by performing a long tap.

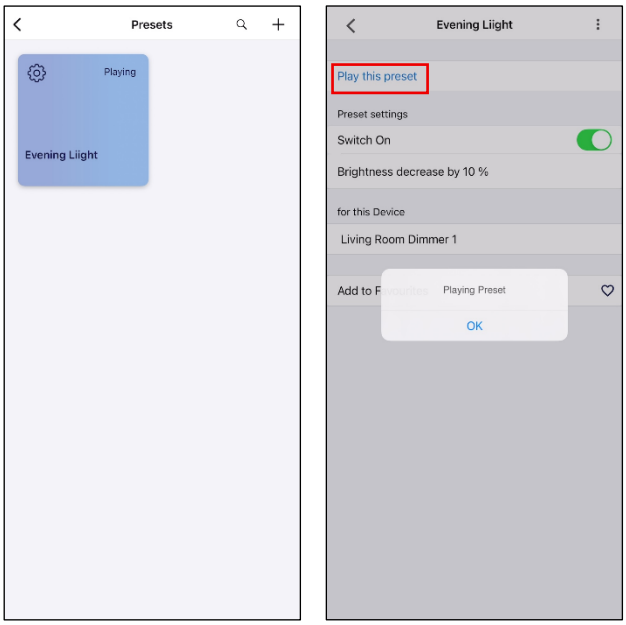


Figure 50 - Play preset: Short Tap vs Long Tap

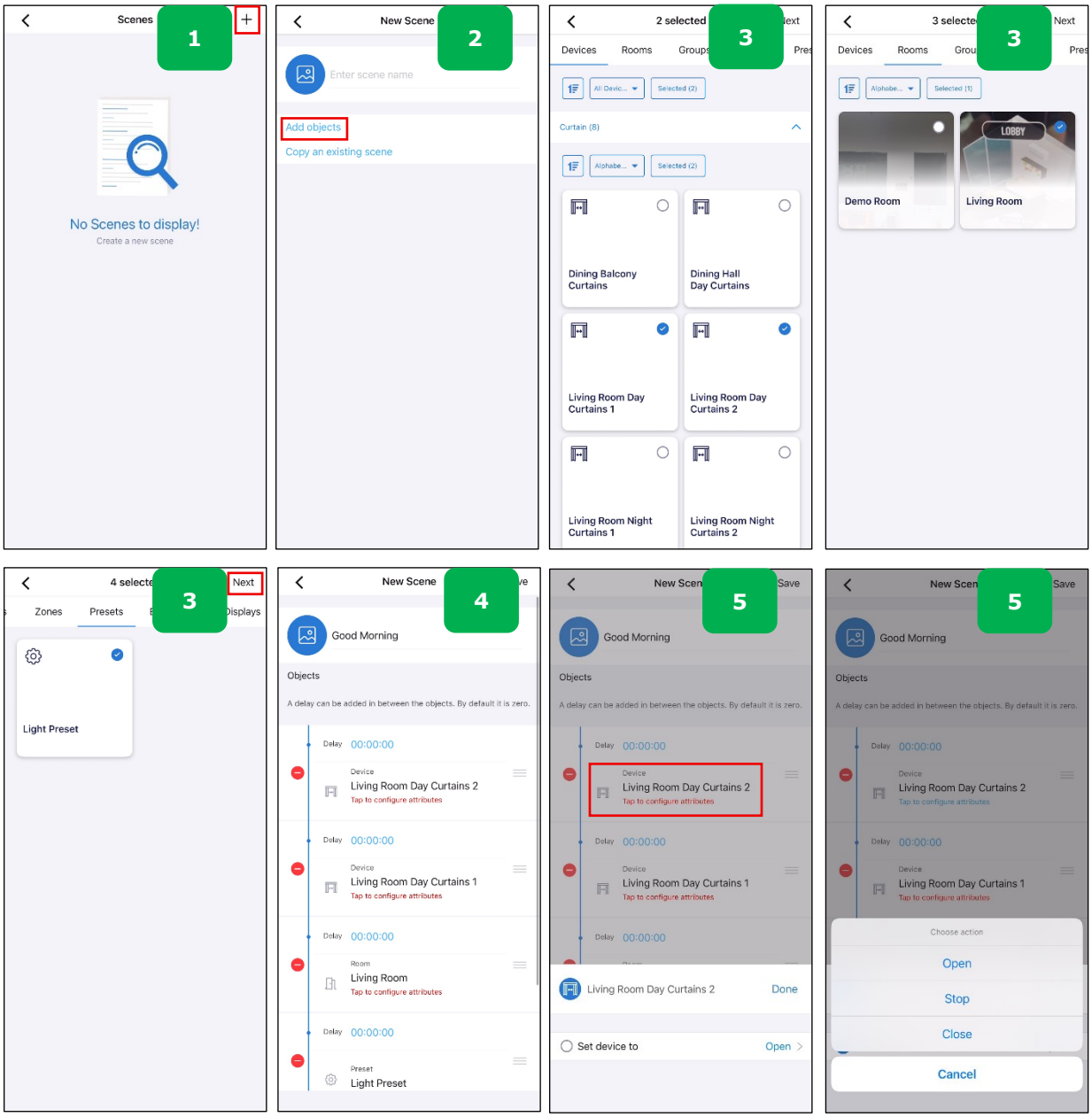
10.3 Scenes Management

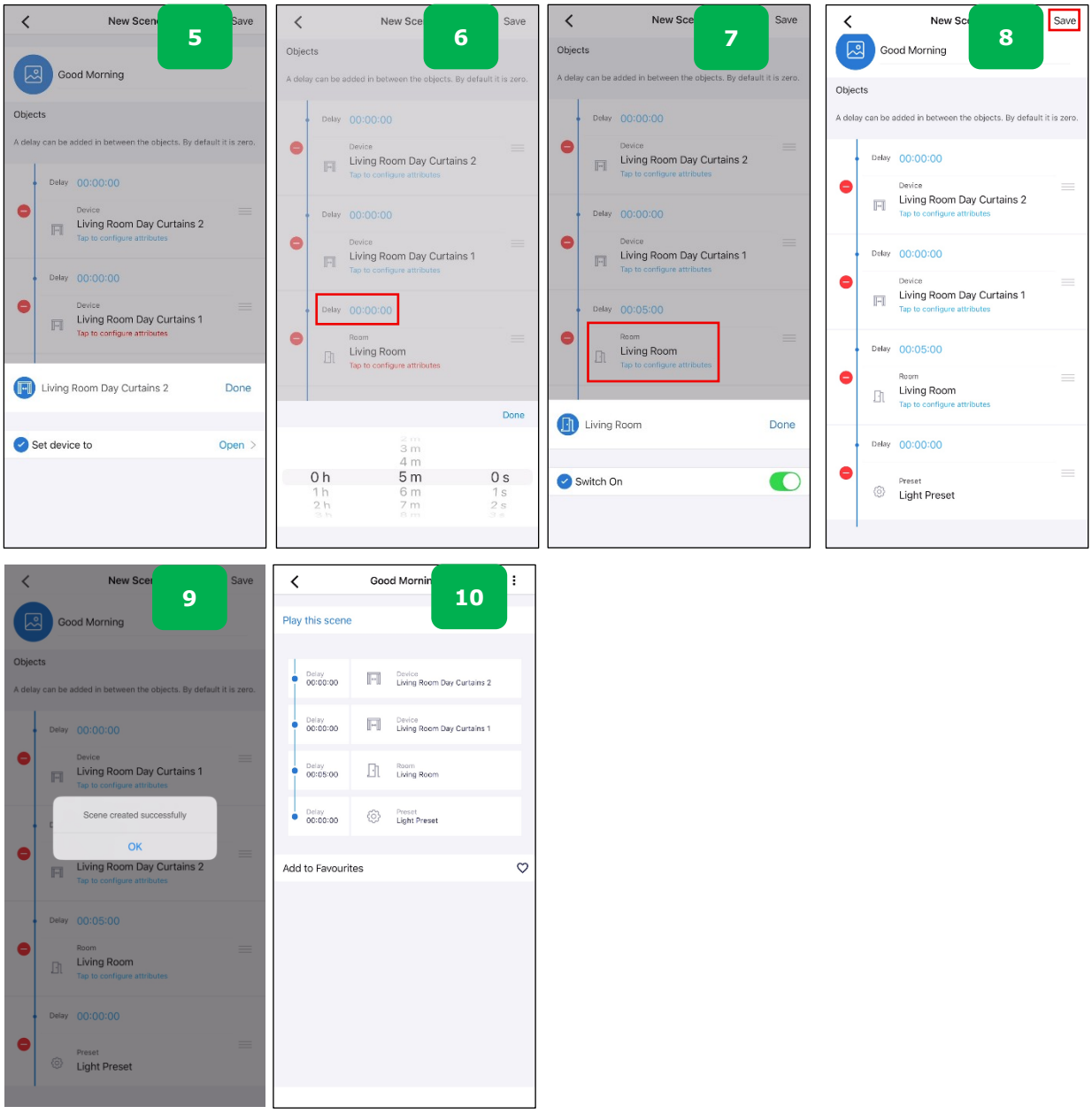
A scene is a package of actions grouped together to execute sequentially (with time delay between the actions) to reduce effort for users because scenes can be activated at the touch of a button. Example of a morning scene when a person wakes up may consist of these activities (actions): Switch off the aircon, open the curtains, switch off the night light, and play his/her favourite music. Example of a night scene when a person goes to bed may consist of these activities (actions): Switch off most of the lights, dim other lights, switch on the aircon, close the curtains, switch off the night light, and play his/her favourite music.

10.3.1Create Scene

Method 1: Add Objects

The following example demonstrates how to create a scene called *Good Morning,* where the *Living Room Day Curtain* devices are set to open, and after a 5-second delay, the room *Living Room* is activated and *Light Presets* are applied.



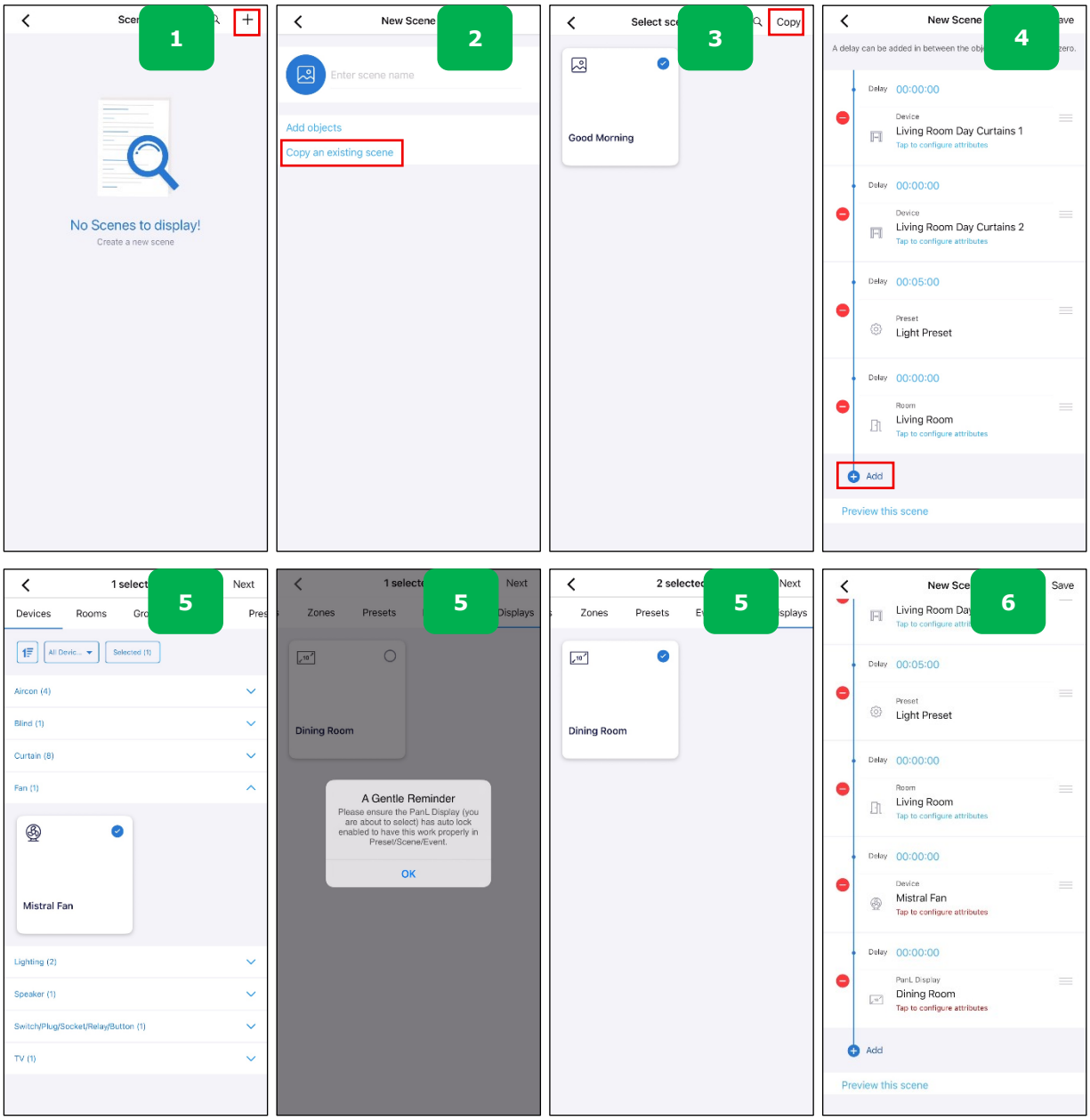


To create this scene in a PanL Network –

1. From More Menu page, select [**Scenes**] to open the scene page. Tap on **+** to create a new scene.
2. Select [**Add objects**] to add objects to a scene.
3. Select the objects and tap on [**Next**] to continue.
4. The selected objects will be displayed in the order it was selected.
5. Select each object to configure how it should work when the scene is activated. In this example, set both curtains to *Open*.
6. Tap on the delay to set a time for delay.
7. Click *Living Room* to configure it to switch on. All devices assigned to this room will then turn on when the scene is activated.
8. Name the scene and click on [**Save**] to save the changes.
9. Scene created successfully.
10. Scene details are displayed.

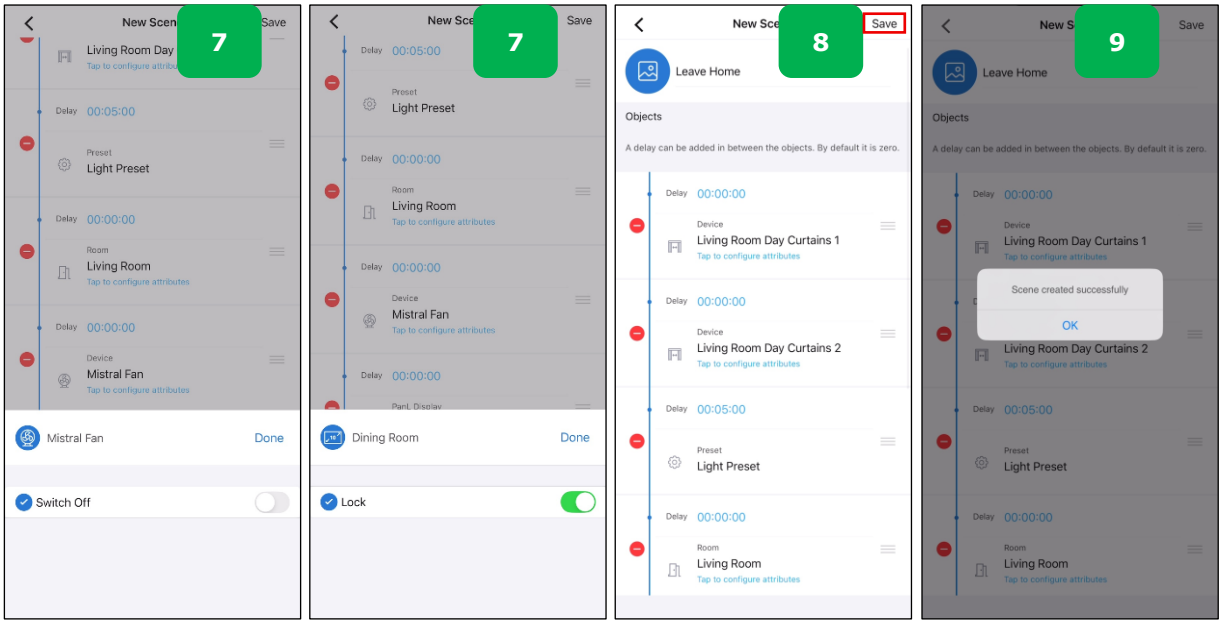
Method 2: Copy an existing scene

In the example shown below, a new scene is created by copying devices from the scene *Good Morning* and adding two additional devices – turn off *Fan* device and lock *Dining Room* display device.

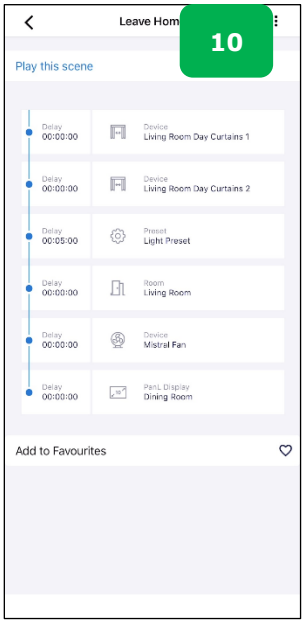


To create a scene by copying from another scene in a PanL Network –

1. From More Menu page, select [**Scenes**] to open the scene page. Tap on **+** to create a new scene.
2. Select [**Copy an existing scene**].
3. Select the desired scene to copy from and tap on [**Copy**].
4. Scene details are displayed. Select [**Add**] to add more objects (if required).
5. Add additional objects and click on [**Next**].
6. Updated list is displayed.



7. Click on the new objects to configure the attributes. For this example, we set the *Mistral Fan* to turn OFF and *Dining Room* display device to lock.
8. Click on [**Save**] to create the scene.
9. Scene created successfully.
10. Scene details are displayed.



10.3.2Scene Control

Scenes can be activated with either a short or long tap. A short tap on a created scene allows the user to activate it. The user can activate the scene and add it to their favourites by performing a long tap on the created scene.

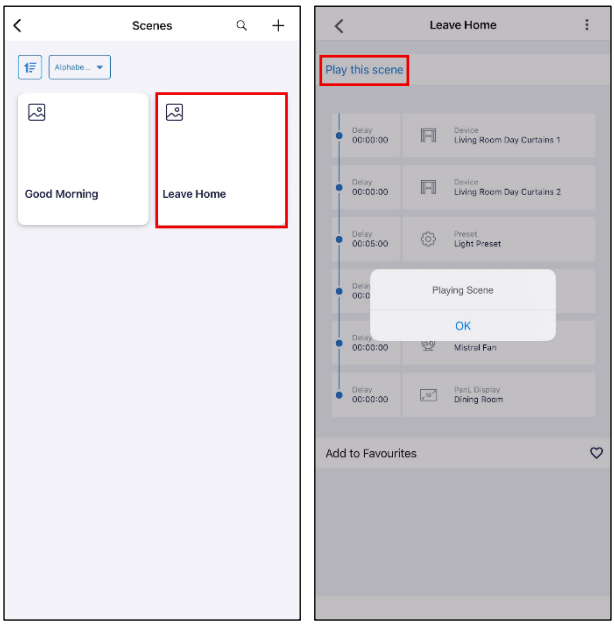


Figure 51 - Scene Control: Short vs Long Tap

10.4 Exclusive to Primary Users

The below features under the "More" option are available only to primary users.

- Events
- PanL Hubs
- PanL Displays
- Auxiliary Hubs
- Meter Insights
- User Management
- PanL Network Settings

10.4.1Events

An event can be configured to automatically trigger objects such as scenes, presets, devices, groups, rooms, and zones when specific conditions are fulfilled.

Following are the types of events available:

1. Time Based Event - User can schedule a specific time or day to automatically trigger objects. There are three different ways to set a time-based event:

   - Once – Trigger objects on a specific day and time.
   - Perpetual - Trigger objects at a specific time on selected days.
   - Fixed - Trigger objects at a specific time on selected days within a defined date range.

2. Device Based Event - User can configure an event to be triggered when a device's state changes.

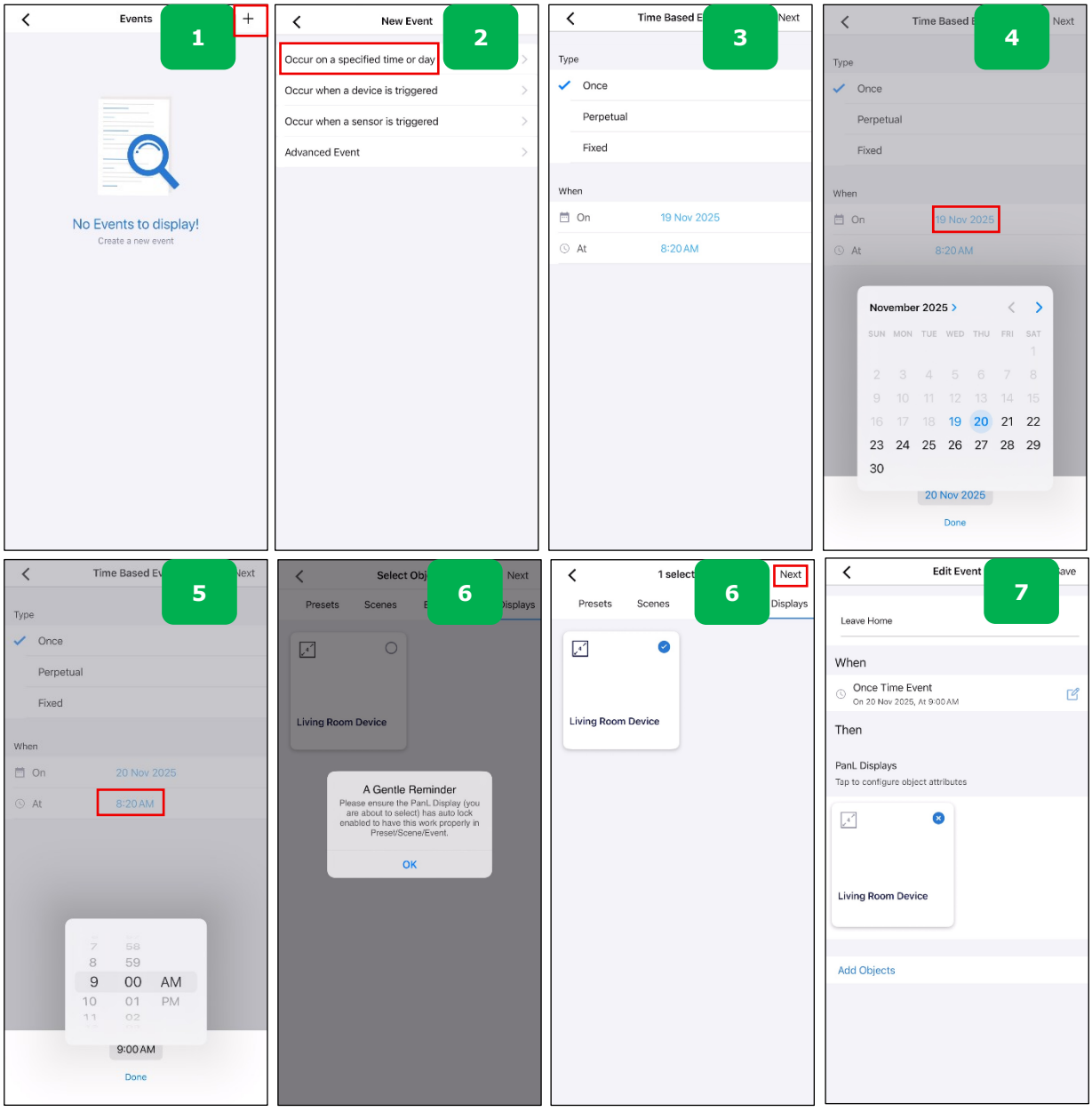
3. Sensor Based Event - User can configure an event to be triggered when a sensor's state changes.

4. Advanced Events – The user can create an advanced event, which combines all the above event types.

10.4.1.1 Create Time Based Event

10.4.1.1.1 One-time schedule

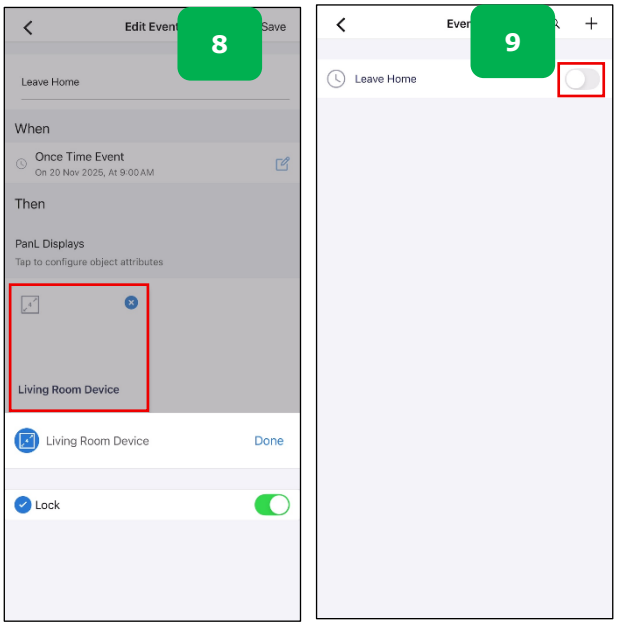
The following example demonstrates how to lock a PanL display device for a one-time event scheduled to activate on November 20, 2025, at 9:00 AM.



To create a time-based, one-time event in a PanL Network –

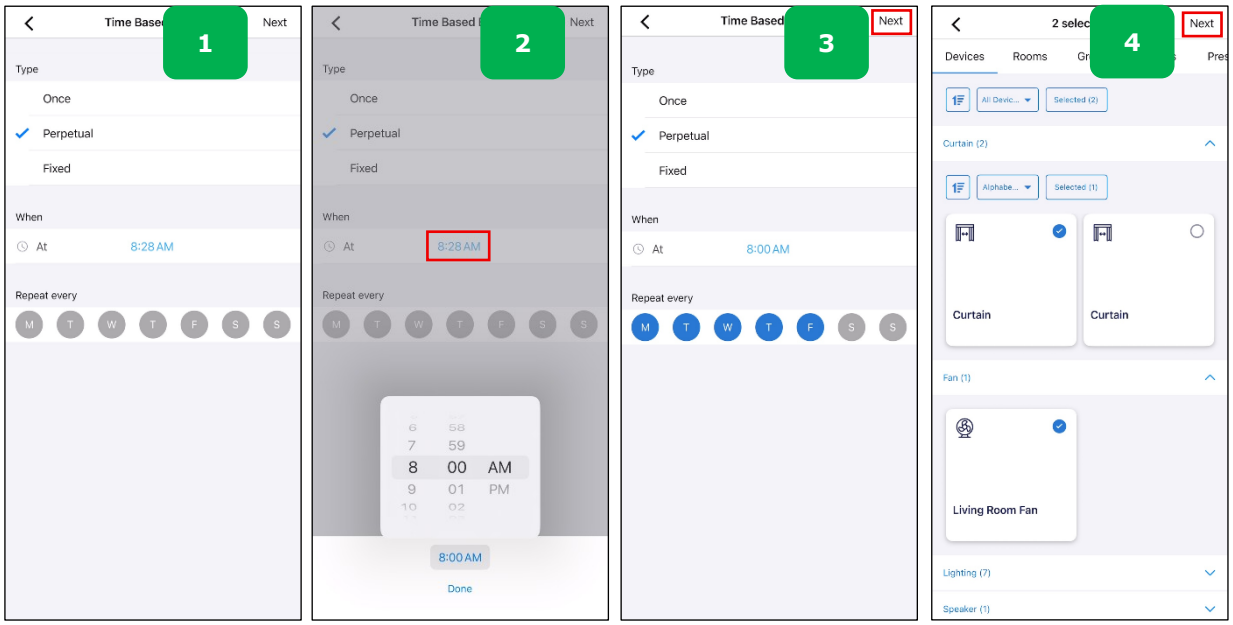
1. From More Menu page, select [**Events**] to open the events page. Tap on **+** to create a new event.
2. Select [**Occur on a specified time or day**] to create a time-based event.
3. Select [**Once**] to create a one-time event.
4. Select Date for the event to occur using the date picker.
5. Select the time for the event to occur using the time picker.
6. Choose the objects required for the event, to continue, click on [**Next**]. Refer to PSL User Guide - PanL PD40/PD100 Display document for more information on the auto lock feature.
7. Name the event.

8. Click on each object to set its attributes and tap on [**Save**] to confirm the changes.
9. Created event will be displayed. The toggle switch can be used to activate/deactivate the event.



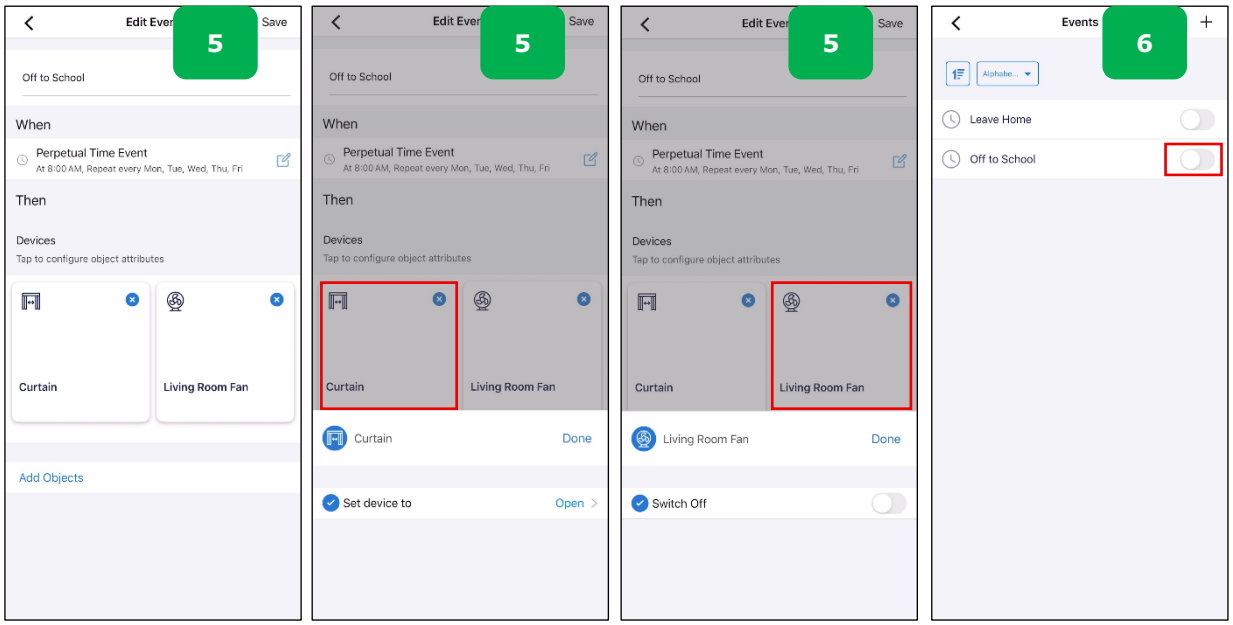
10.4.1.1.2 Perpetual Date Range

The images below illustrate a recurring time-based event that turns off a fan and opens a curtain every Monday to Friday at exactly 8:00 AM.



To create a perpetual time-based event in a PanL Network –

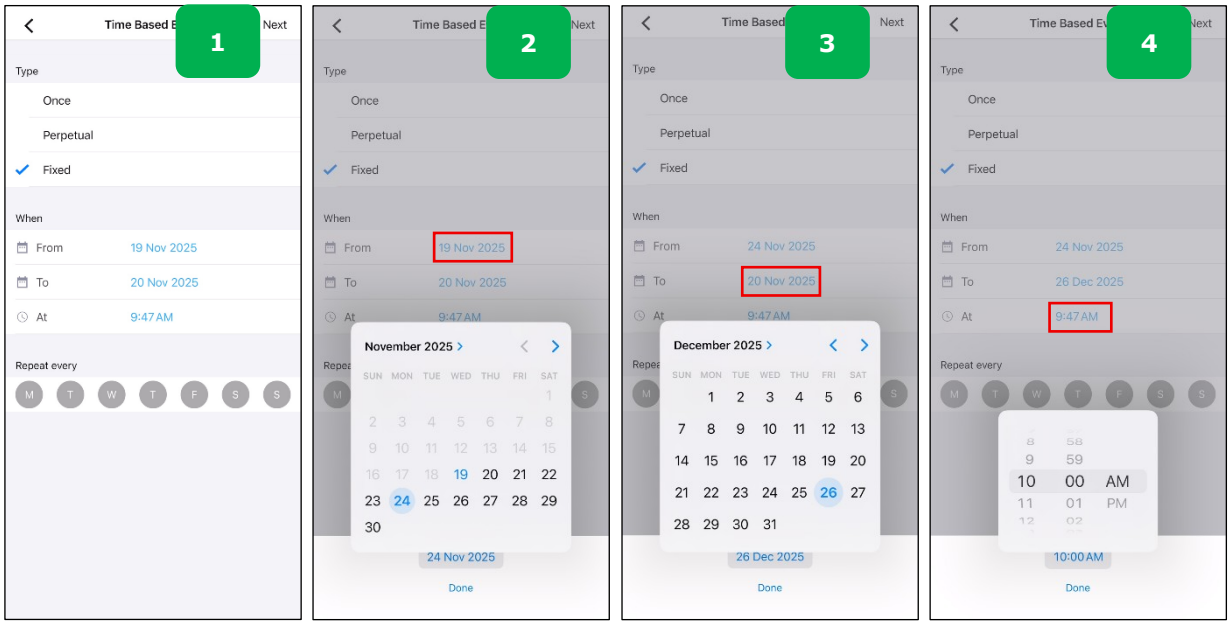
1. Select [**Perpetual**] to create a recurring time-based event.
2. Select a time for the event to occur using the time picker.
3. Select the days on which the events should repeat. To continue, click [**Next**].
4. Choose the objects required for the event, to continue, click on [**Next].**



5. Tap on each object to set the attributes and click [**Save**] to confirm the changes.
6. Created event will be displayed. The toggle switch can be used to activate/deactivate the event.

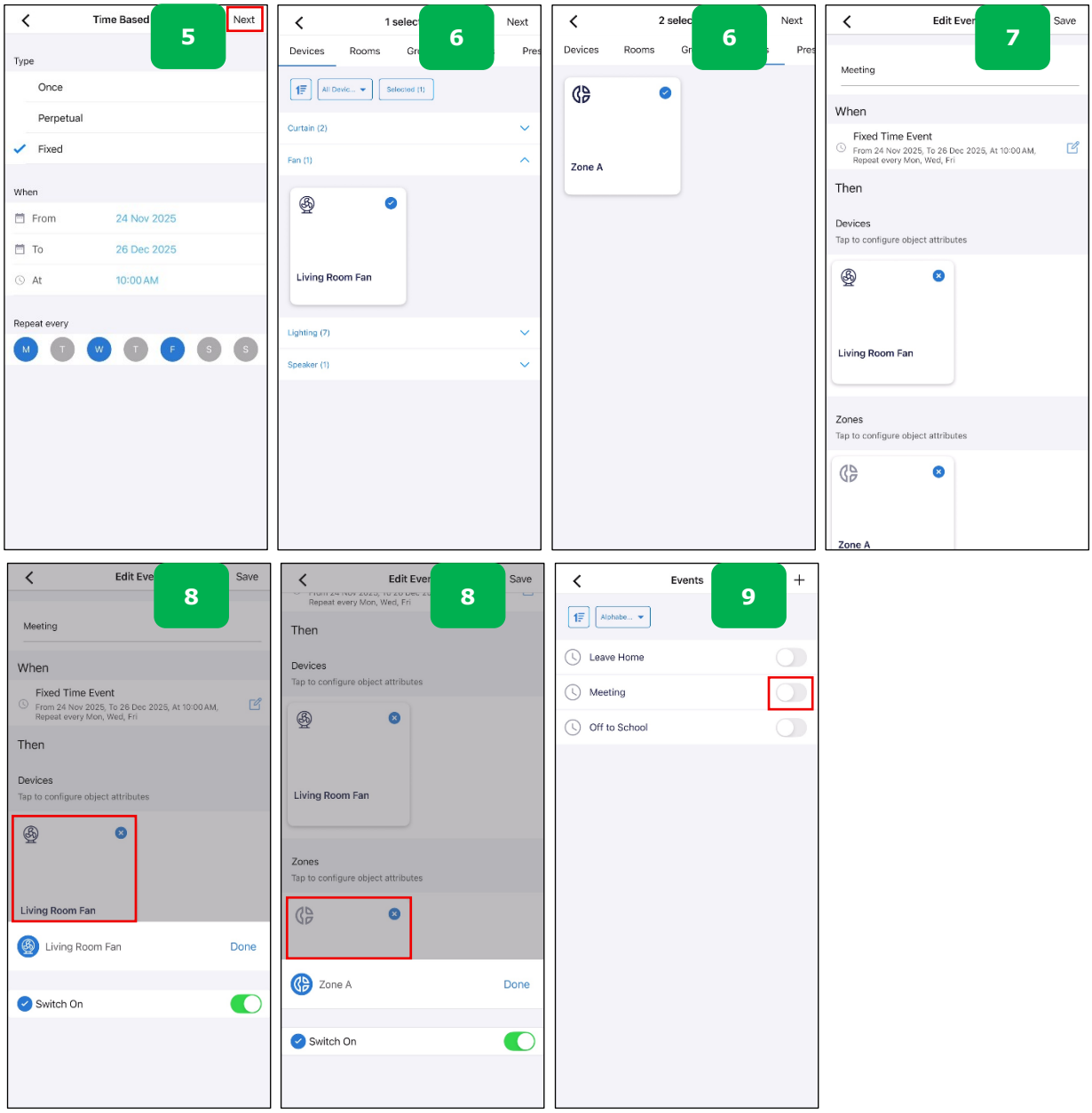
10.4.1.1.3 Fixed Date Range

User can schedule an event to occur within a date range at a fixed time using the fixed time-based event feature. The below images depict how selected devices and zones can be activated within the fixed date range of 24/11/2025 to 26/11/2025 at 10:00 am.



To create a fixed time-based event in a PanL Network –

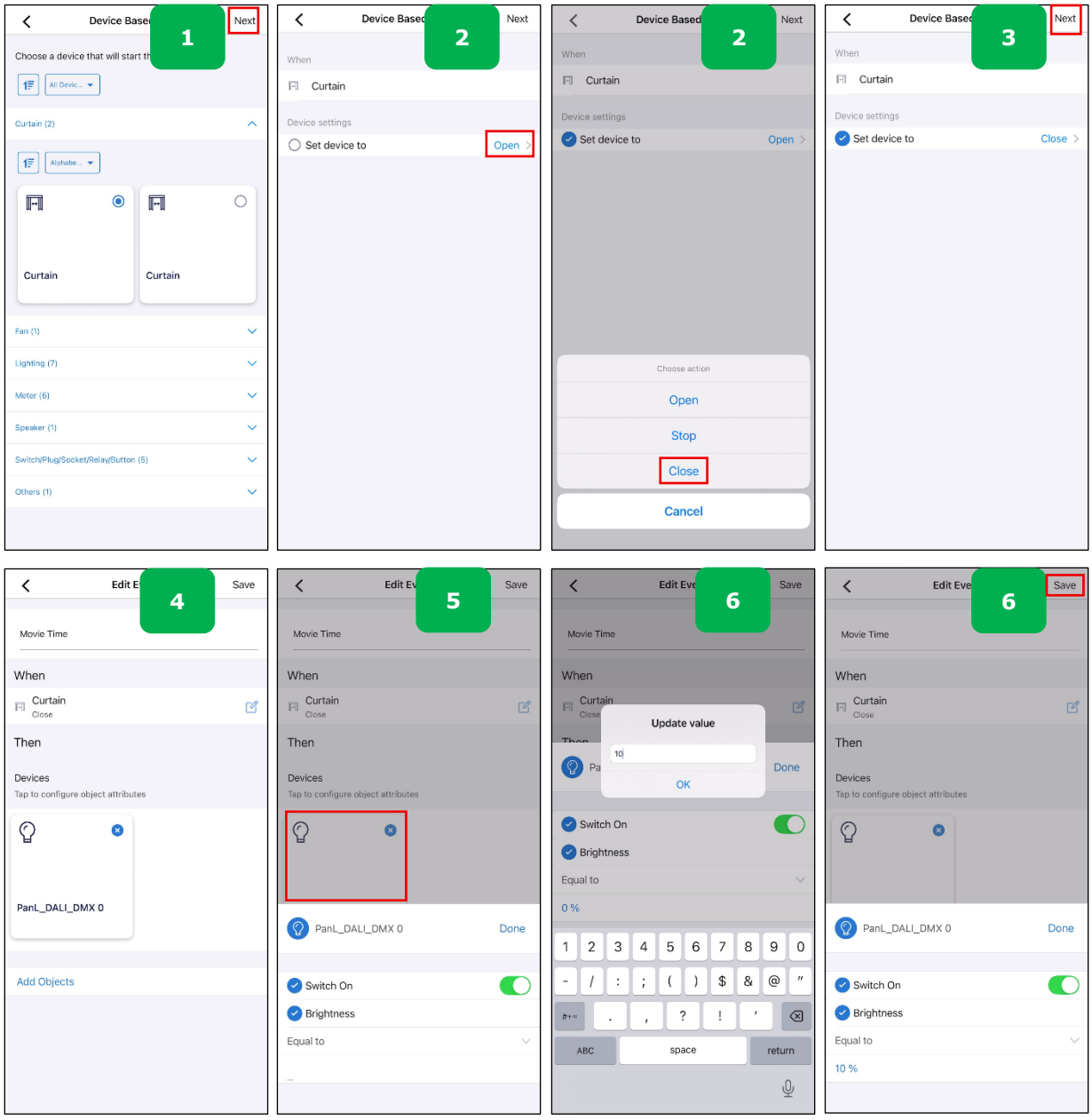
1. Select [**Fixed**] to create a fixed time-based event.
2. Select a start date using the date picker.
3. Select an end date using the date picker.
4. Select a time for the event to occur using the time picker.



5. Select the days for the event to occur. Click on [**Next**] to choose the objects.
6. In this example, living room fan and Zone A is selected. Click on [**Next**] to confirm.
7. Event details are displayed.
8. Tap on each object to set the attributes and click [**Save**] to confirm the changes.
9. Created event will be displayed. Toggle the switch to activate/deactivate it.

10.4.1.2 Create Device-based Event

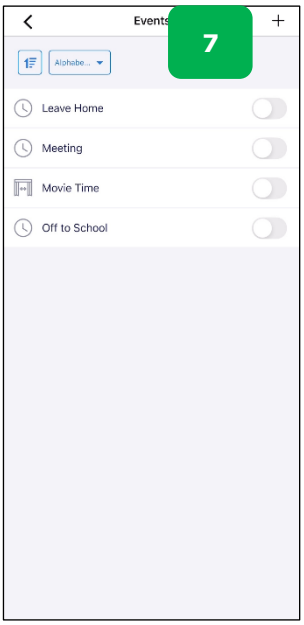
The example below shows how to configure a light device to dim when a curtain device closes using device-based events.



To create a device-based event in a PanL Network –

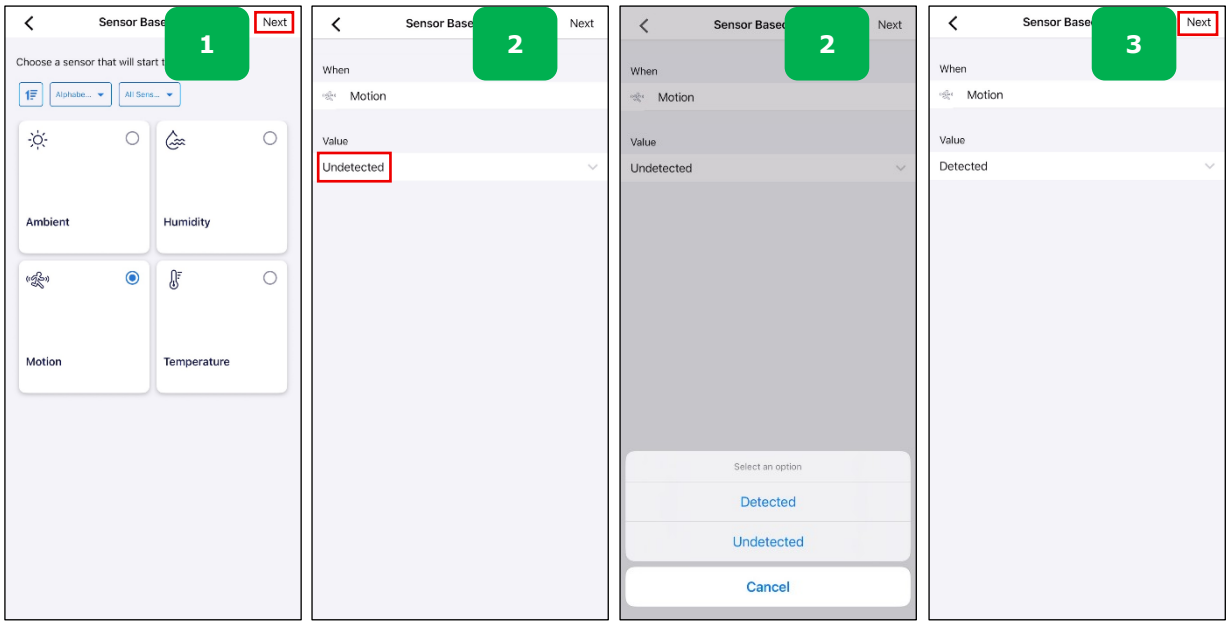
1. Select a device to trigger the event. Select [**Next**] to continue.
2. Select the action to occur to the device to trigger the event. In this example, it would be when *Curtain* device is closed.
3. Click on [**Next**] to confirm changes.
4. Select the devices to be triggered as part of the event.
5. Tap on each object to set the attributes.
6. Update the brightness level of the light device. Click on [**Save**] to confirm the changes.

7. Created event will be displayed. Toggle the switch to activate/deactivate it.



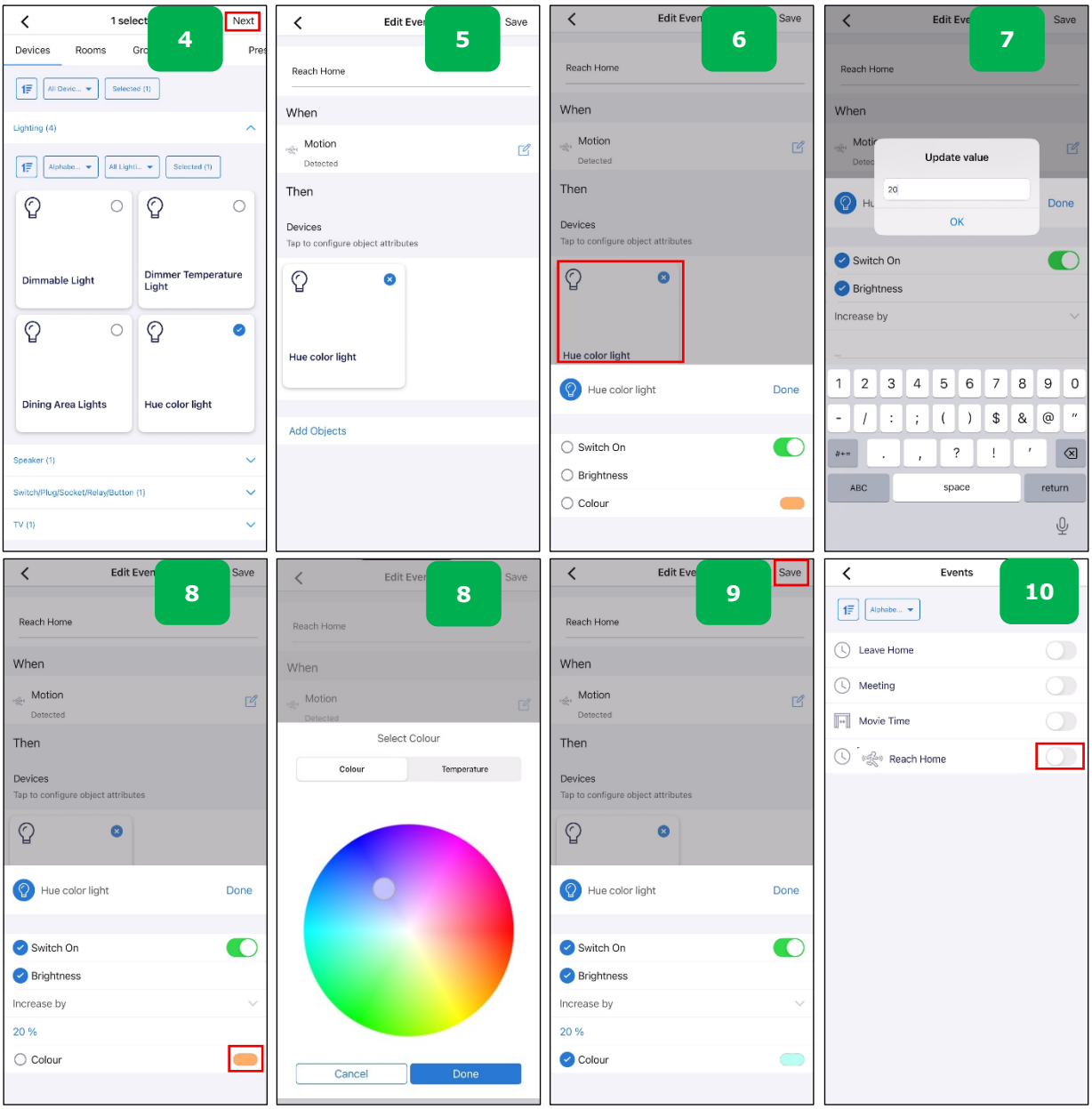
10.4.1.3 Create Sensor-based Event

The following example demonstrates how a light device can be controlled when a motion sensor triggers the event.



To create a sensor-based event in a PanL Network –

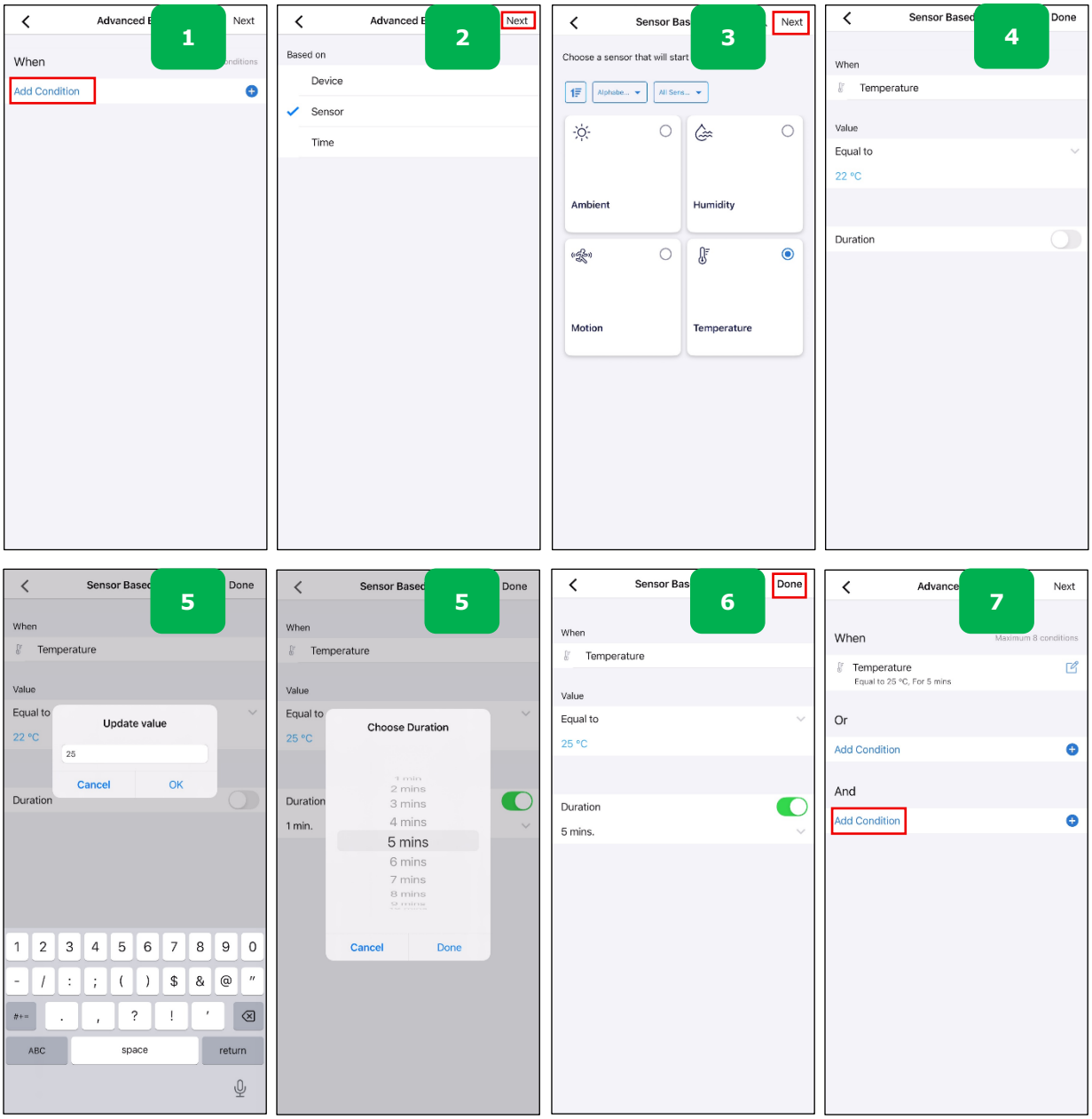
1. Select a sensor to trigger the event.
2. In this example, a motion sensor is selected. Click the sensor value that will trigger the event; in this case, *"detected."*
3. Select [**Next**] to continue.



4. Select the devices to be triggered as part of the event.
5. Event detail page is displayed.
6. Tap on the light device to set its attributes.
7. In this example, the brightness of the device will *Increase by* 20%.
8. Select the color to update
9. Click on [**Save**] to confirm the changes.
10. Created event will be displayed. Toggle the switch to activate/deactivate the event.

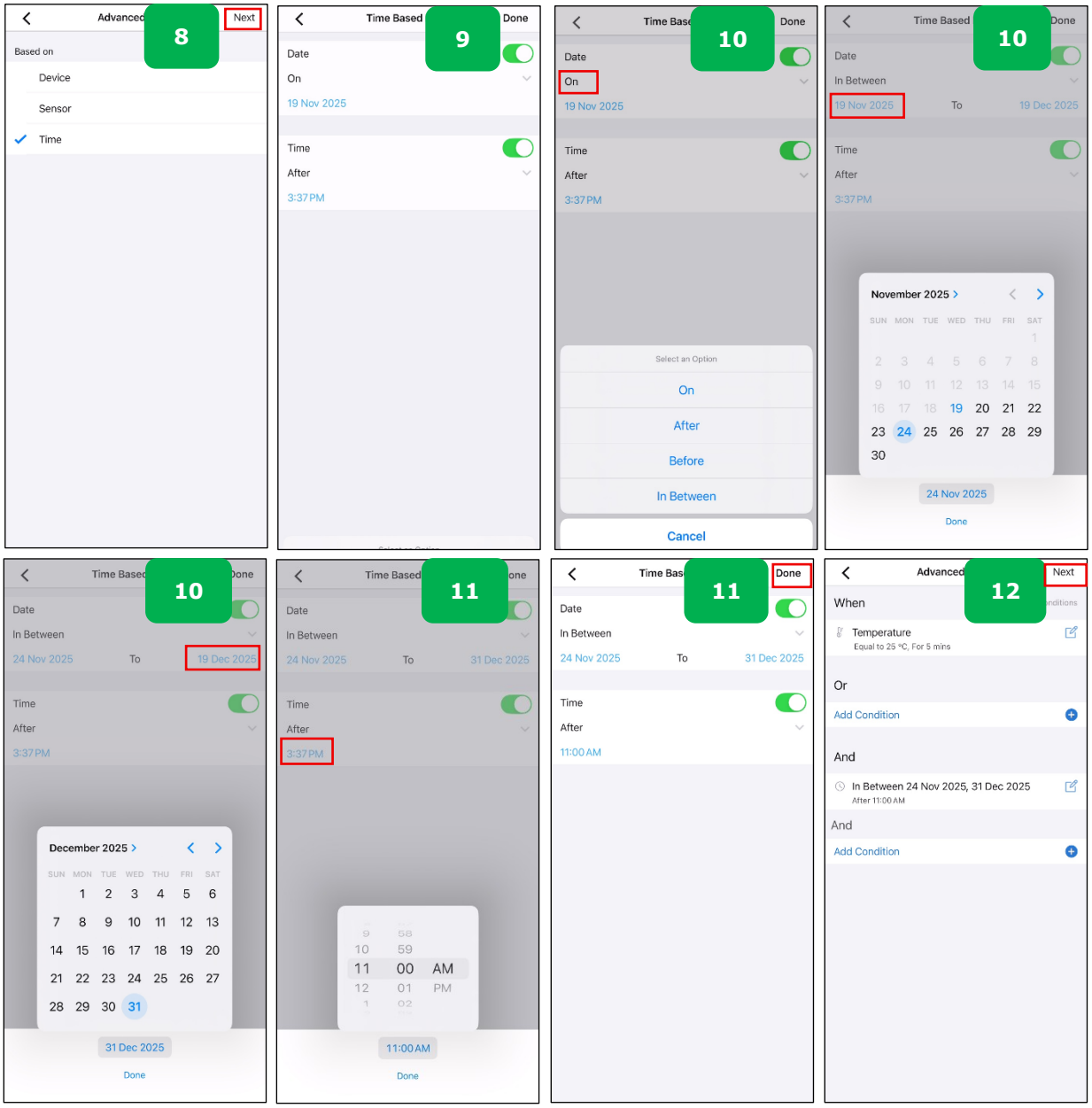
10.4.1.4 Advanced Event

Advanced events allow the user to create a new event using a combination of the three types of events – device, sensor and time using different conditions. The following example illustrates how to create an advanced event using an AND-combination of two conditions—sensor-based and time-based—by setting a fan to turn ON when a temperature sensor detects 25°C for at least five minutes, within the specified date (Between 24th November 2025 and 31st December 2025) and time range (after 11 AM).

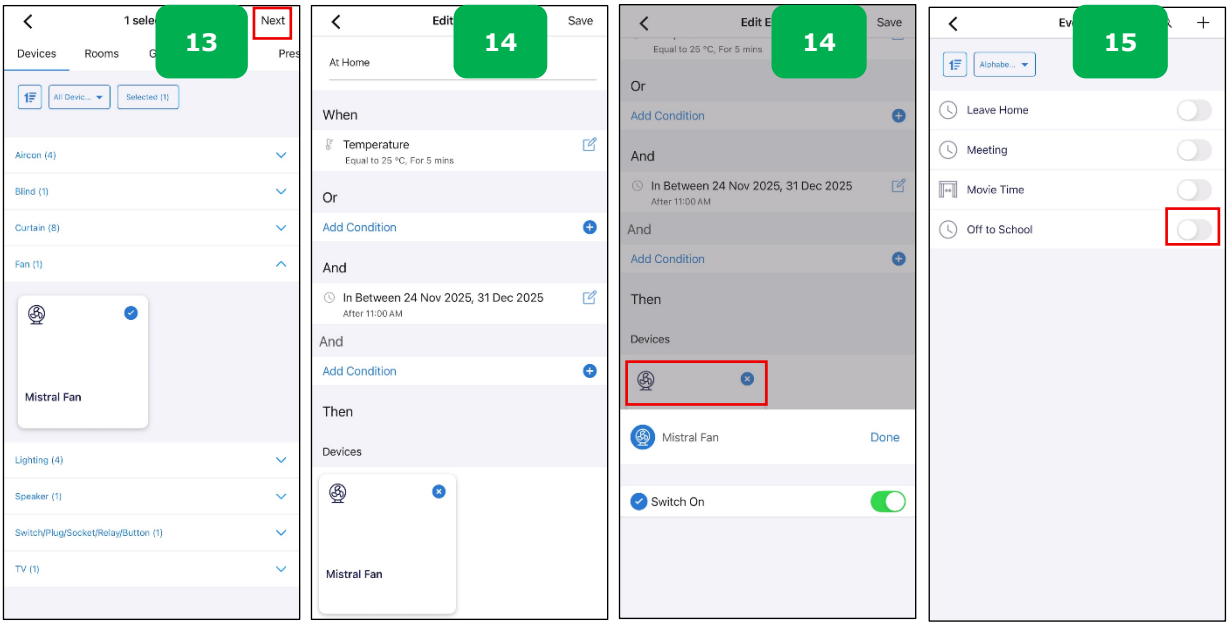


To create an advanced event in a PanL Network-

1. From the Events page, go to **Advanced Events** and click [**Add Condition**].
2. Choose a sensor to trigger the event.
3. Choose the type of sensor. In this example a temperature sensor is selected. To confirm tap on [**Next**].
4. Selected sensor details will be displayed.
5. Input a value for the sensor to be triggered. In this example, a temperature of 25°C is set. Duration can be set by enabling the toggle switch for duration.
6. Select [**Done**] to confirm the changes.
7. Add a new condition under the event by clicking on [**Add Condition**].



8. Select the type of event. (In this example, time-based event is selected).
9. Time based event page is displayed.
10. Select date range. User can choose between On, *After*, *Before* and *In Between*.
11. Select time range. User can choose between *After*, *Before,* and *In Between*. Click [**Done**] to proceed.
12. Click [**Next**] to configure action.



13. Add devices and configure their attributes.
14. In this example, a fan is set to activate when the temperature reaches 25°C for at least five minutes, within the specified date and time range. Click on [**Save**] to confirm the changes.
15. Created event will be displayed. Toggle the switch to activate/deactivate the event.

10.4.2PanL Hubs

The user can view the linked PanL Hubs and their associated settings using this option.

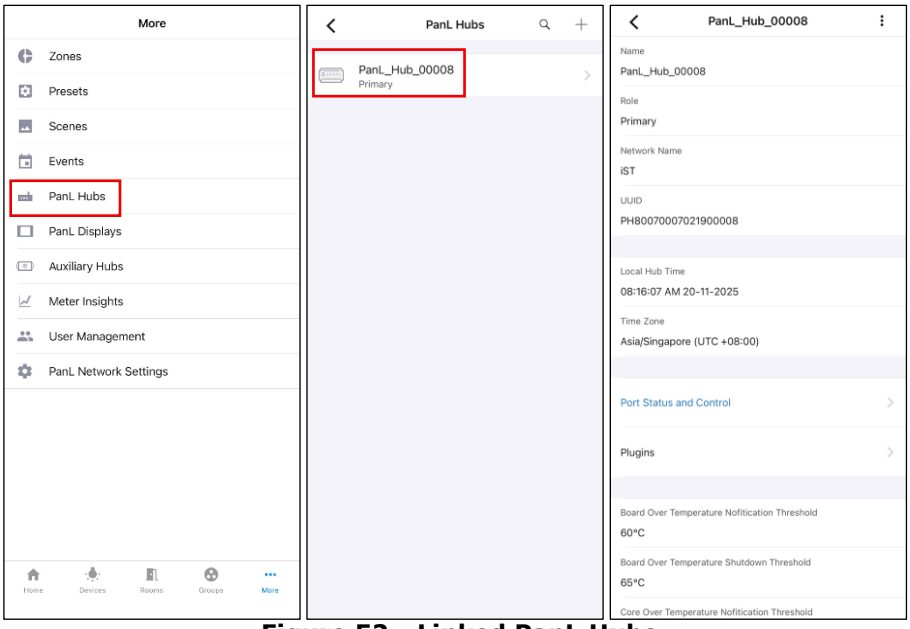


Figure 52 - Linked PanL Hubs

10.4.2.1 View Port Settings

To view port settings –

1. Select [**Port Status and Control**] to view the port settings of the selected PanL Hub.
2. Port settings are displayed.

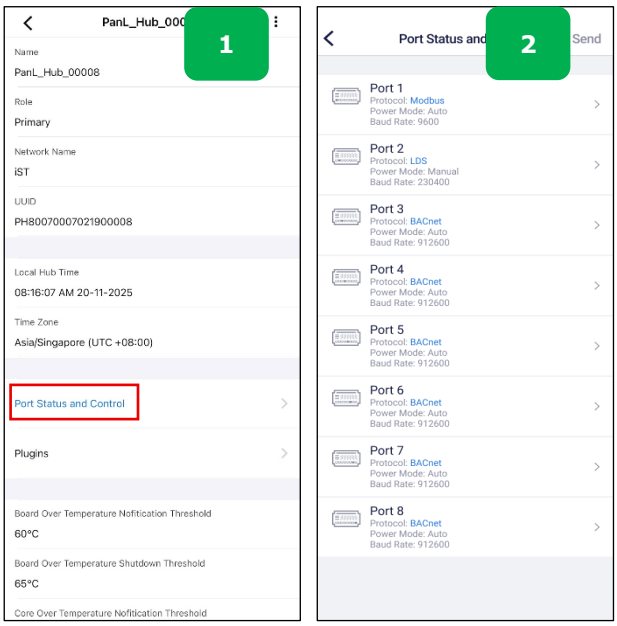


Figure 53 - PanL Hub: View Port Settings

10.4.2.2 View Supported Plugins

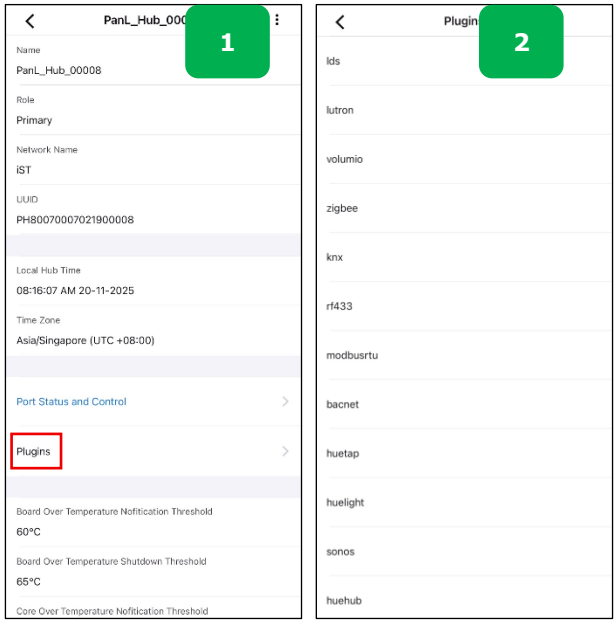


Figure 54 - PanL Hub: View Supported Plugins

To view the supported plugins-

1. Select [**Plugins**] to view the installed plugins.
2. List of plugins are displayed.

10.4.2.3 Rename PanL Hub

Click [**Edit this PanL Hub**] to rename PanL Hub.

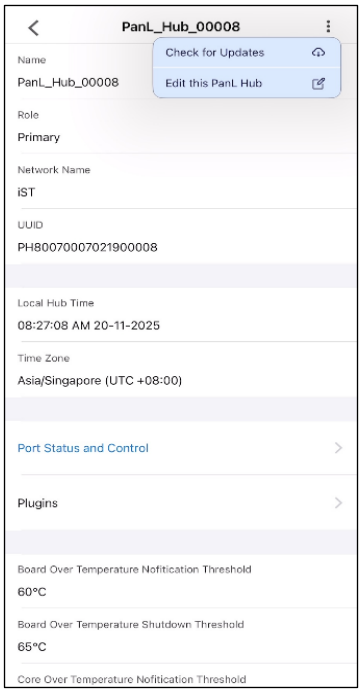


Figure 55 - PanL Hub: Rename

10.4.2.4 Updating Software

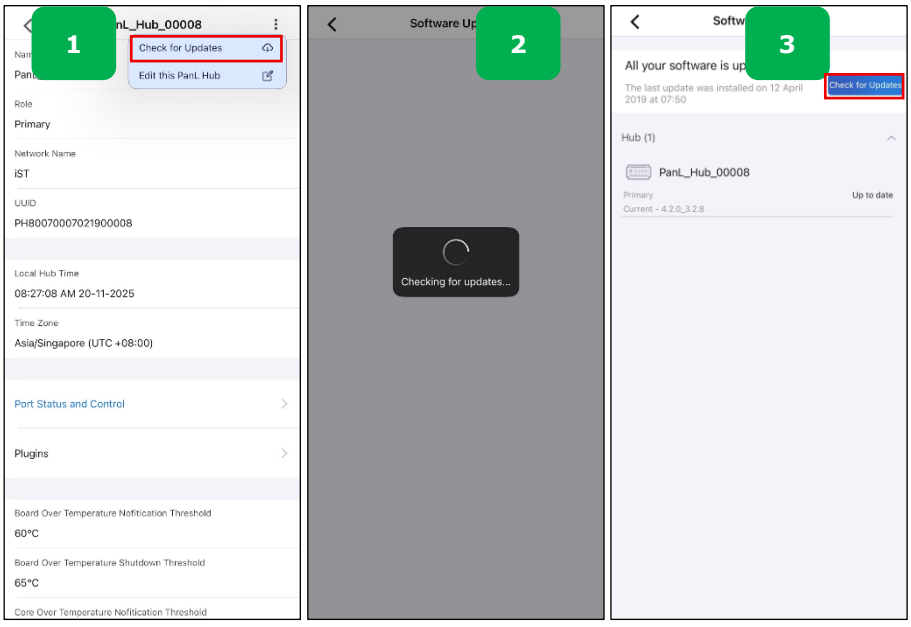


Figure 56 - PanL Hub: Software Update

To update the firmware for the selected PanL hub-

1. Select ⋮ to open additional configuration sub-menu. Tap on [**Check for Updates**] to update the software for the selected PanL hub.
2. PanL smart living will check for any available updates.
3. To verify there is a software update available, tap on [**Check for Updates**] option.

10.4.2.5 Add New PanL Hub

Select **+** to add a new PanL hub to a PanL network. Follow instructions to add a new PanL Hub. For more information on setting up a new PanL hub, refer to PanL Smart Living - System Installation User Guide.

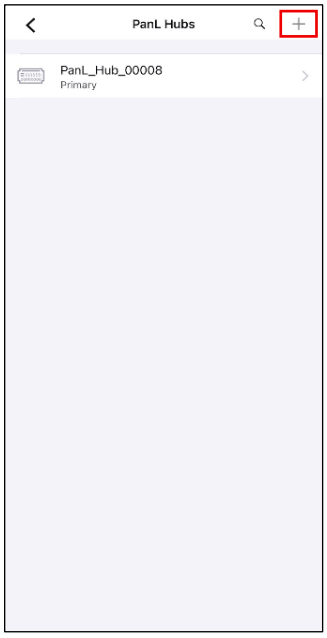


Figure 57 - PanL Hub: Add New PanL Hub

10.4.3PanL Displays

User can view the PanL displays connected to the selected PanL network as shown below.

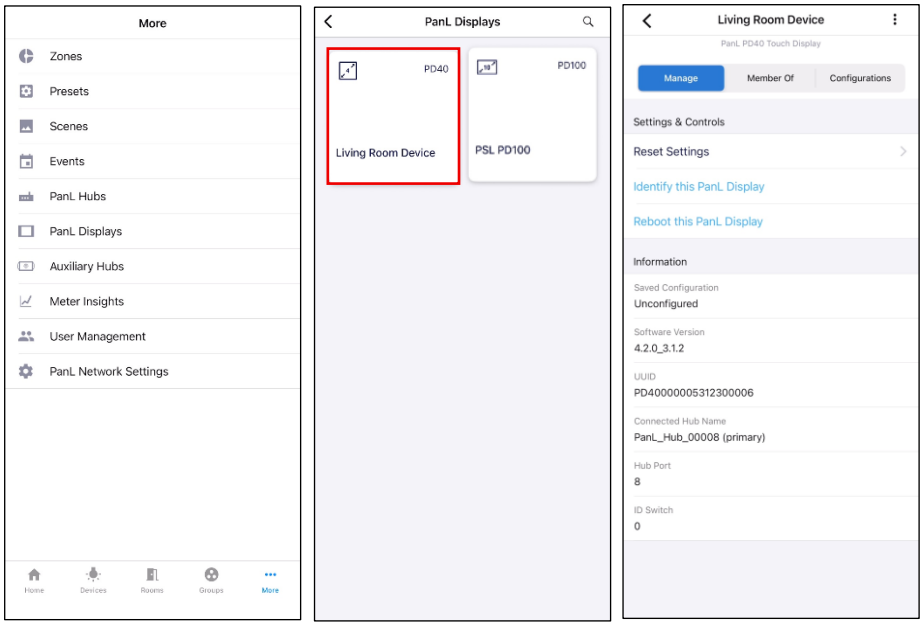


Figure 58 – PanL Display Detail Page

NOTE: Refer to the respective user guides for more information on creating configurations:

- PSL User Guide – 2. PanL PD100 Display
- PSL User Guide – 4. PanL PD40 Display

The user can perform the following functions on a PanL display device, as shown below.

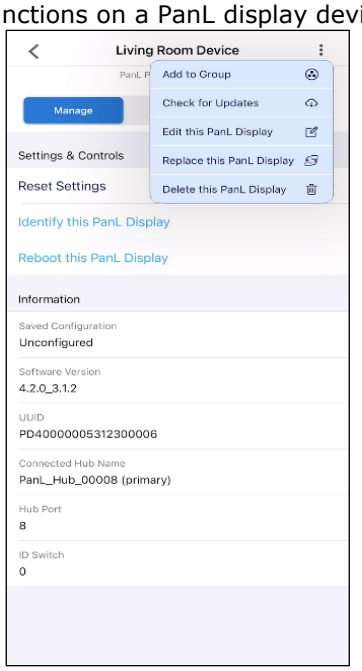
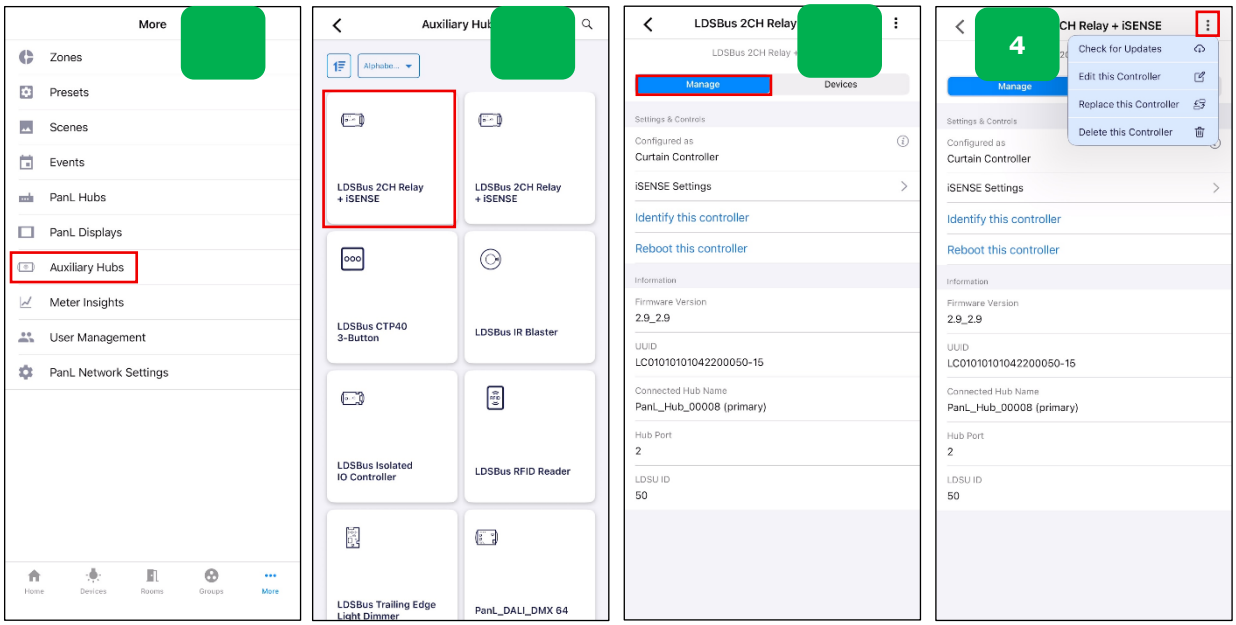


Figure 59 - PanL Display: Additional Functions

10.4.4Auxiliary Hubs

The different smart controllers connected to the PanL hub will be displayed under the auxiliary hubs option.



To view the different auxiliary hubs –

1. From [**More**] Menu page, select [**Auxiliary Hubs**].
2. Different smart controllers that are connected to the PanL network is displayed. For this example, we choose LDSBus 2CH Relay+ iSENSE controller.
3. User can view the details of the controller and can also perform the following functions:
    a. Identify this controller
    b. Reboot this controller

    In this scenario, iSENSE is connected to power meters. Under *iSENSE Settings*, users can view the channel name, select AC or DC voltage, and configure Load Voltage and Power Factor (AC

only). These values must be set according to the specifications provided in the manufacturer's user manual or datasheet.

4. User can view the the different devices connected to the auxiliary hub. Tap on ⋮ to view list of additional functions such as:
    a. Checking for latest software updates
    b. Renaming the controller
    c. Replacing the controller
    d. Removing the controller from the PanL network

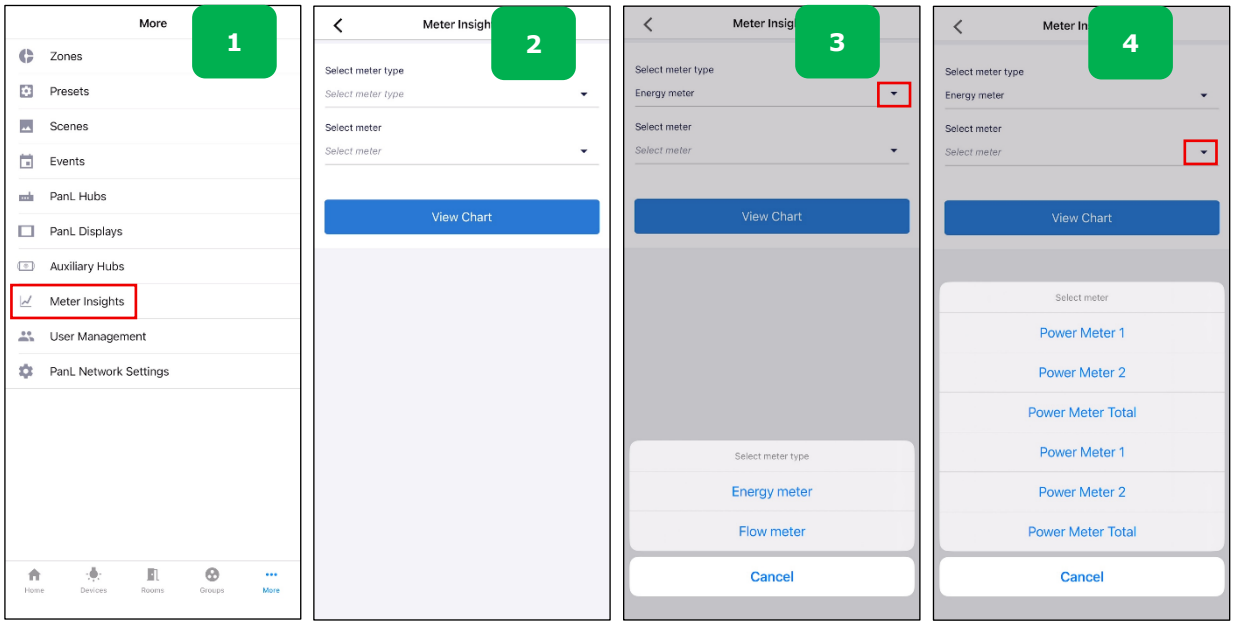
NOTE: Whenever an LDS 2CH Relay + iSense controller is connected to Hub, it will enumerate as 2 types of devices:

1. Relays - for Lights, Curtain/Blind etc.
2. Meter - for Power Meter 1, Power Meter 2 and Power Meter Total (Power Meter 1+ Power Meter 2)

Refer to the respective application notes for more information on the different smart controllers.

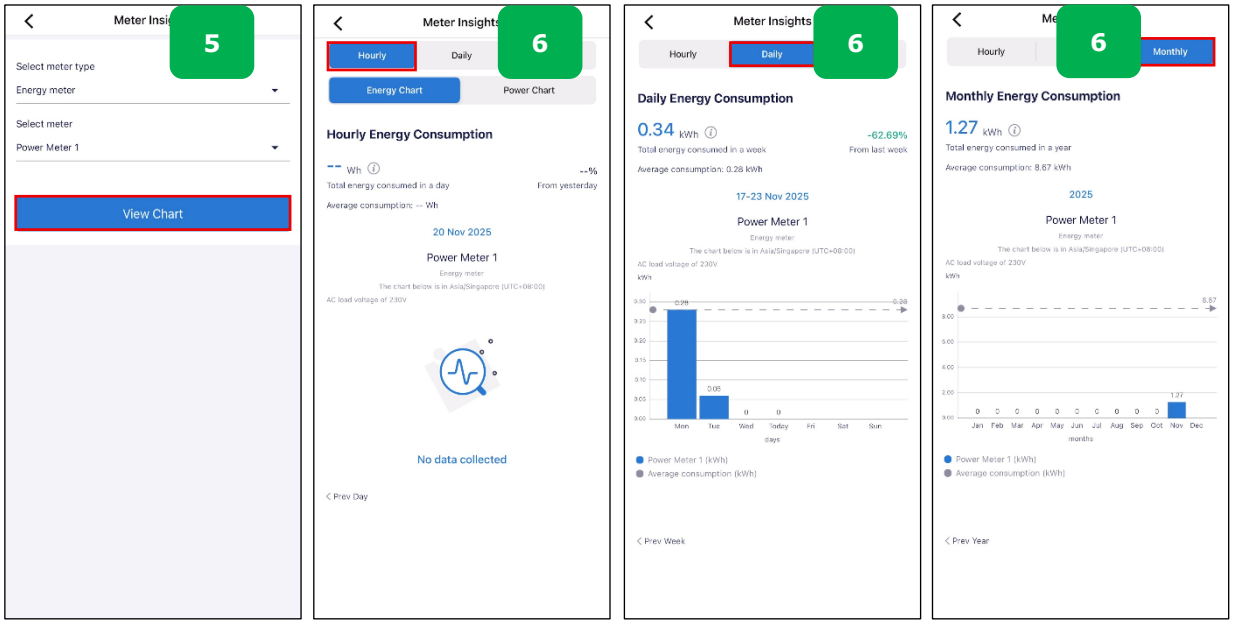
10.4.5Meter Insights

Users can view the energy or water consumption of connected energy or water flow meters using the PSL app.



To view the different auxiliary hubs –

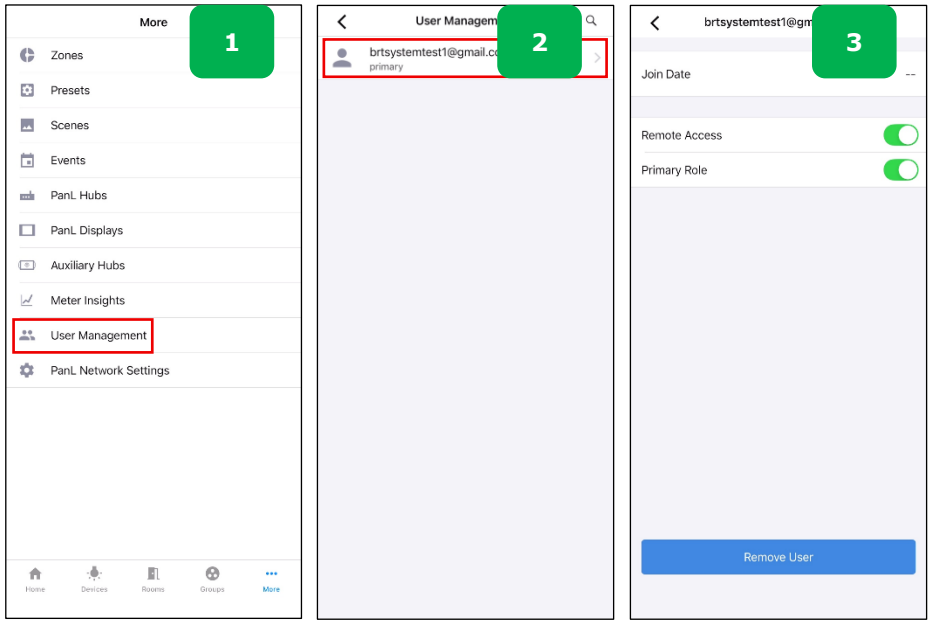
1. From [**More**] Menu page, select [**Meter Insights**].
2. Meter Insights page is displayed.
3. Choose the meter type.
4. Choose from the connected meters.



5. Click [**View Chart**] to proceed.
6. The consumption is displayed, allowing the user to view hourly, daily, and monthly usage, along with average consumption and the percentage change compared to the previous period.

10.4.6User Management in PanL Network

The following features can be accessed via the User Management option in PanL Smart Living:



1. From [**More**] Menu page, select [**User Management**].
2. All members of the PanL Network are displayed. Select one of the members to proceed.
3. Users can view each member's joining date and perform the following actions:
   - Grant permission to a member to access the PanL network remotely by tapping on [**Remote Access**] switch.
   - Change the member's role from secondary to primary using the [**Primary Role**] toggle switch.
   - User can remove the member from the PanL network by tapping the [**Remove User**] button.

10.4.7PanL Network Settings

Following sections describe the different PanL network settings available in the PanL Smart Living app.

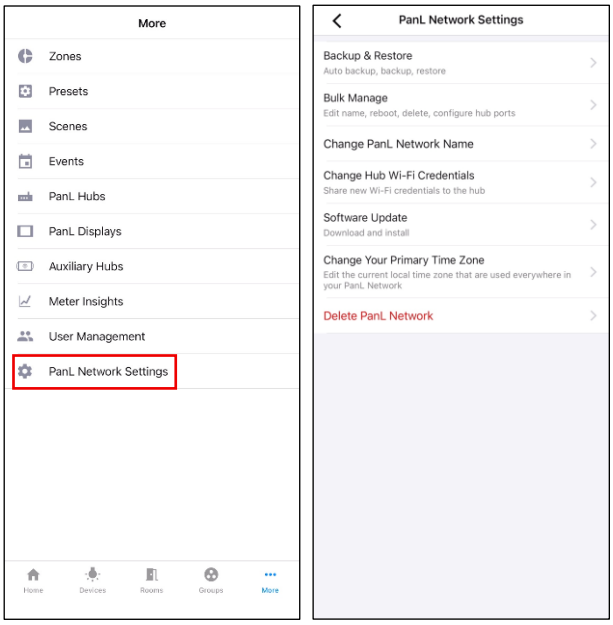


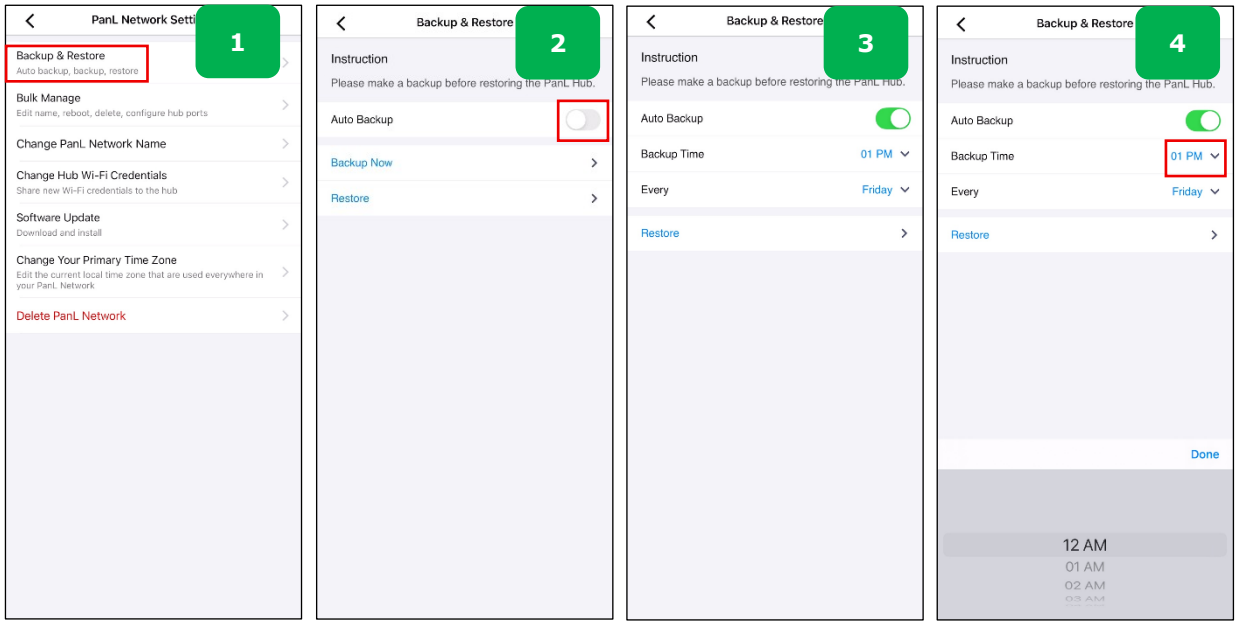
Figure 60 - PanL Network Settings

10.4.7.1 Backup & Restore

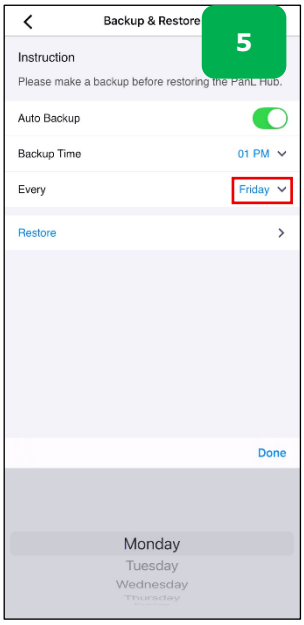
PanL Smart Living mobile app provides a useful utility for backing up an existing PanL Network's configuration to PanL Smart Living Cloud.

The backup function may be executed either ad-hoc or on a daily scheduled basis.

a. Scheduled Backup



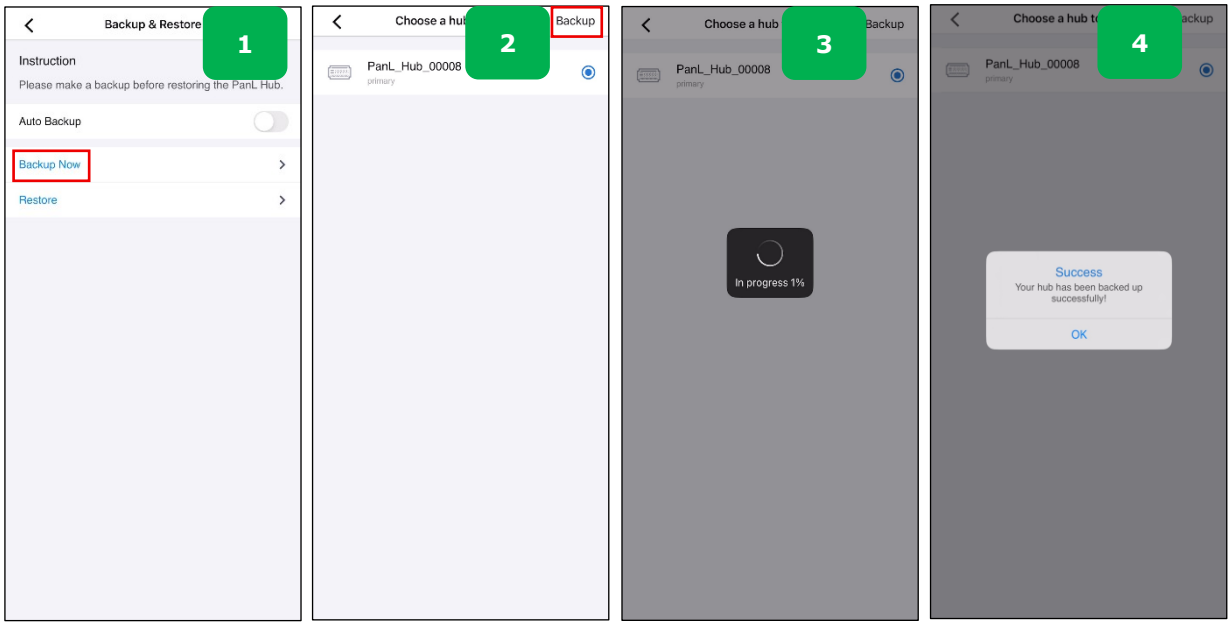
To set a scheduled backup for a PanL network –



1. Select [**Backup & Restore**] to set a schedule backup.
2. Toggle the Auto Backup switch to enable scheduled backup.
3. User can select the time and day to schedule backup.
4. Select the time using the time picker.
5. Select the day using the day picker.

Following that, the PanL Smart Living system will perform the scheduled backup operation in the background.

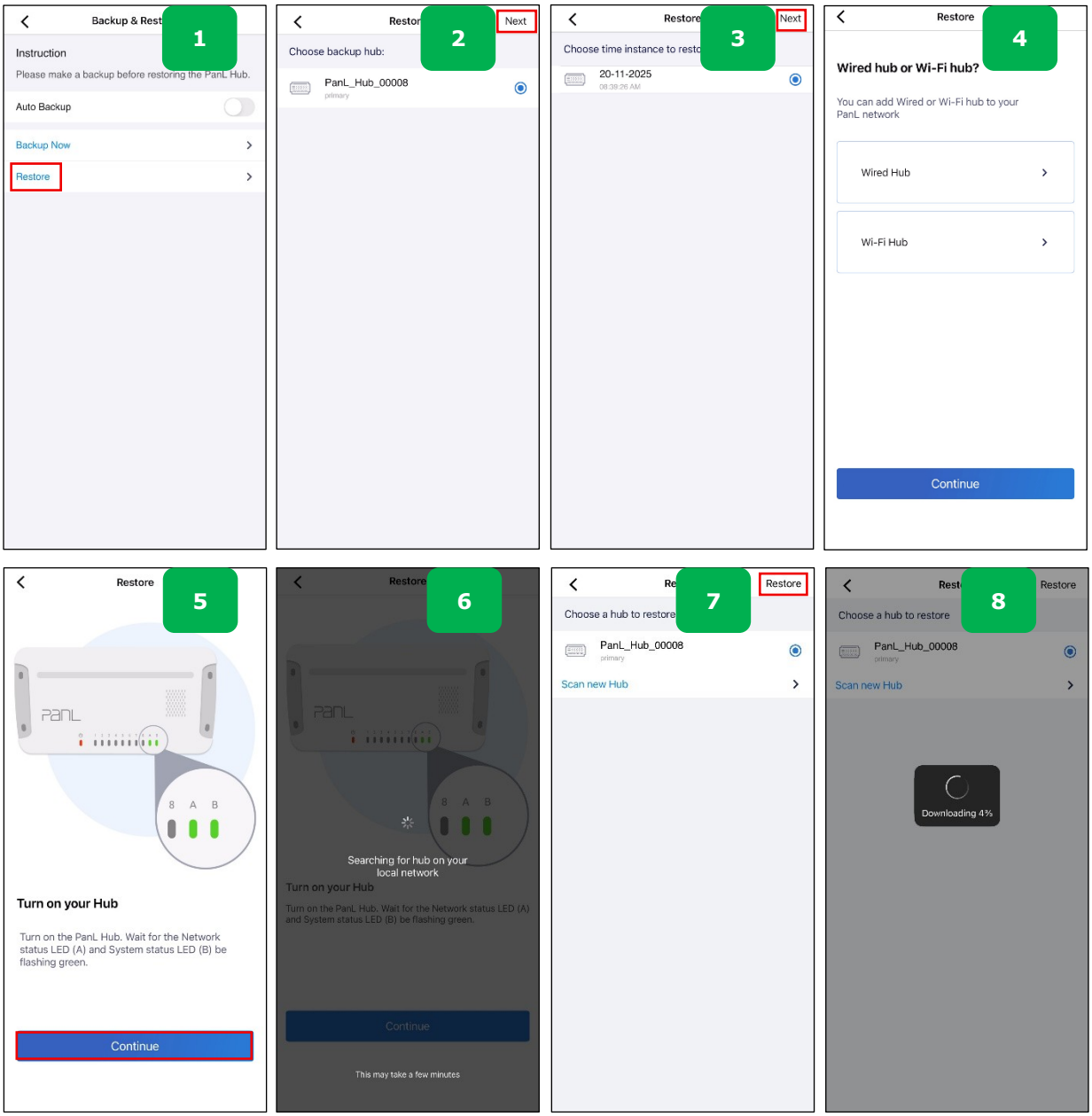
b. Ad-hoc backup



To set an ad-hoc backup –

1. Select [**Backup Now**] to perform backup function.
2. Choose a hub to back up. Click [**Backup**] to proceed.
3. Backup progress will be displayed.
4. If backup is completed, a successful message will be displayed.

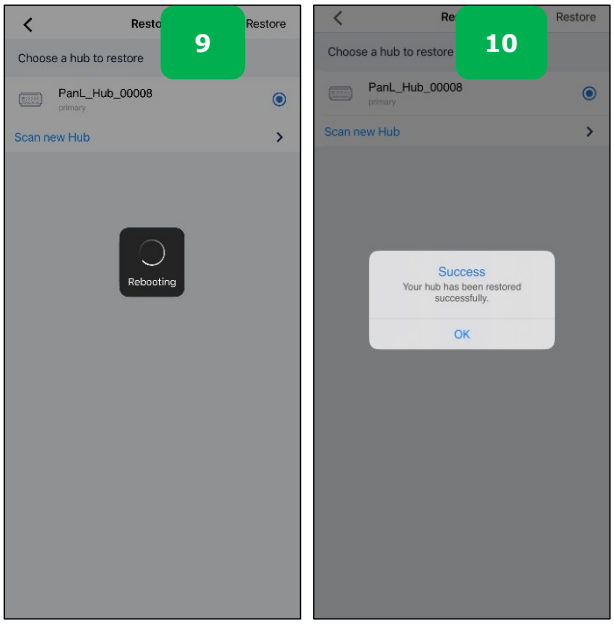
c. Restore Function



To perform a restore function on a PanL hub-

1. Select [**Restore**] option.
2. Select a PanL Hub that has an available backup. Click on [**Next**] to proceed.
3. Choose the time instance to restore to. Tap on [**Next**] to confirm.
4. Choose the type of hub.
5. Follow the instructions on the screen to set up the new hub.
6. Hub search in progress.
7. Select the new hub to perform restore operation. Tap on [**Restore**].
8. Backup download in progress.

9. Reboot in progress.
10. The PanL hub has been successfully restored from the selected backup.



NOTE:
The restore function can only be used on unconfigured PanL Hubs. To onboard a new hub to an existing PanL network, users can use the restore function, which transfers all devices and settings to the new hub.

10.4.7.2 Bulk Manage

The user can use the Bulk Manage function to perform operations such as editing names, rebooting, deleting, or configuring multiple hub ports at once.

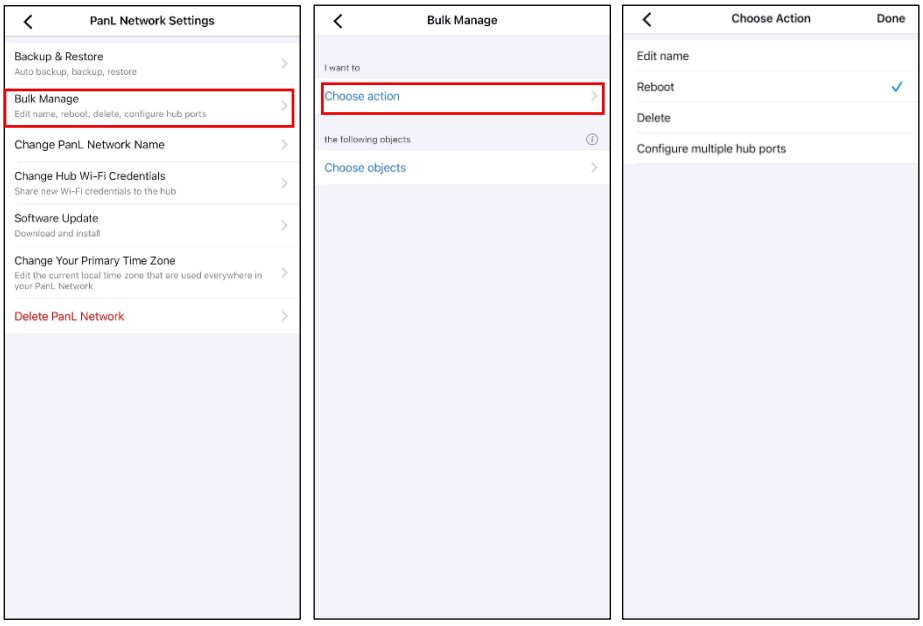
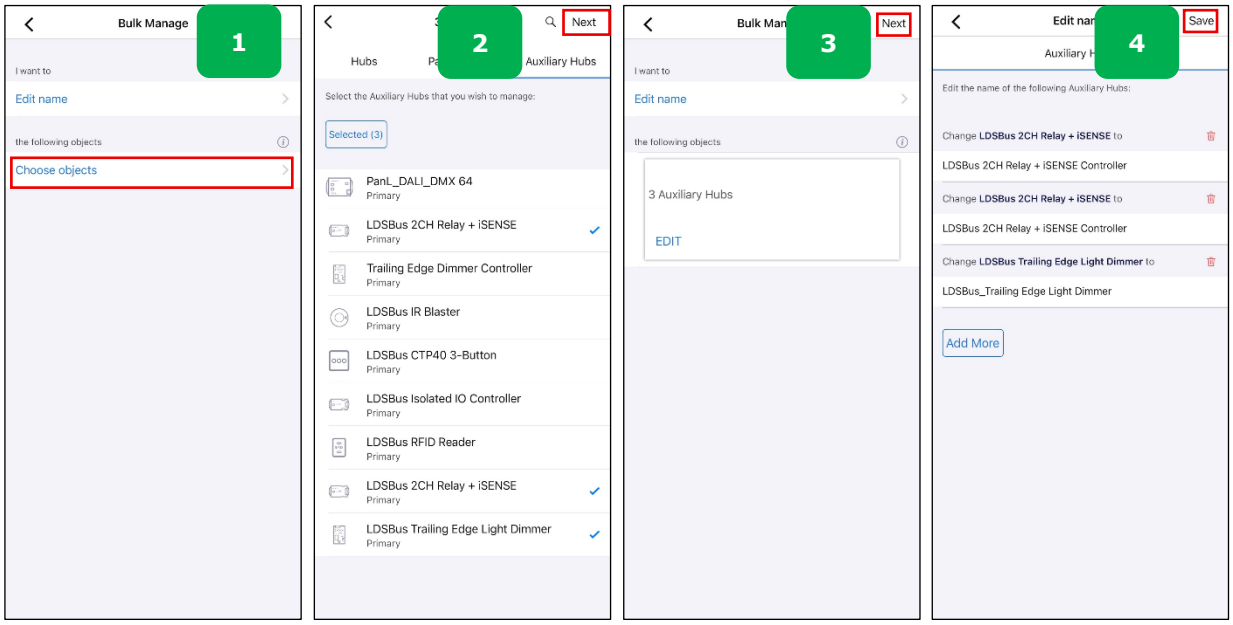


Figure 61 - Bulk Manage

The following images show the various actions that can be performed using the Bulk Manage feature.

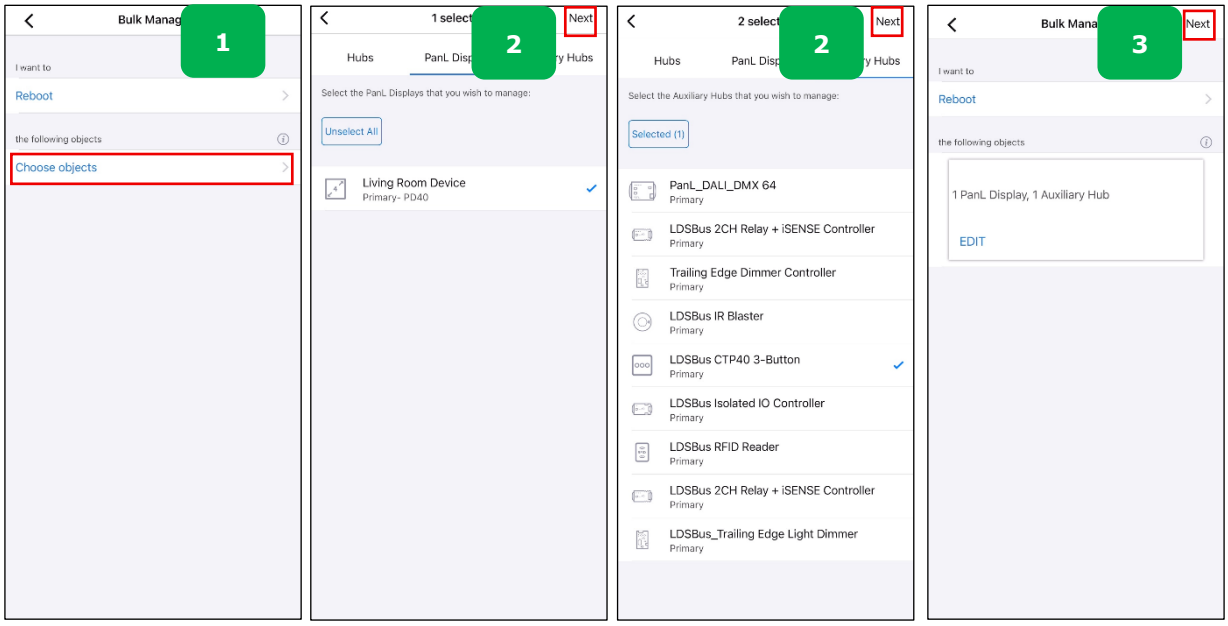
a. Edit Name



To perform Bulk Edit operation :

1. From the Bulk Manage page, select [**Edit name**].Tap on [**Choose objects**] to select which objects to be renamed.
2. Choose the objects, select [**Next**] to continue.
3. Confirm the action by clicking on [**Next**].
4. Enter the new name of the objects. Tap on [**Save**] to confirm the changes. Upon successful operation, an appropriate message indicating the same is displayed.

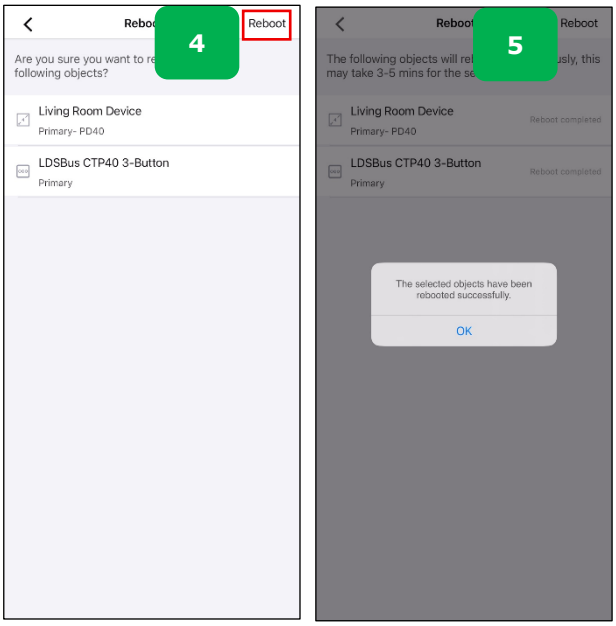
b. Reboot



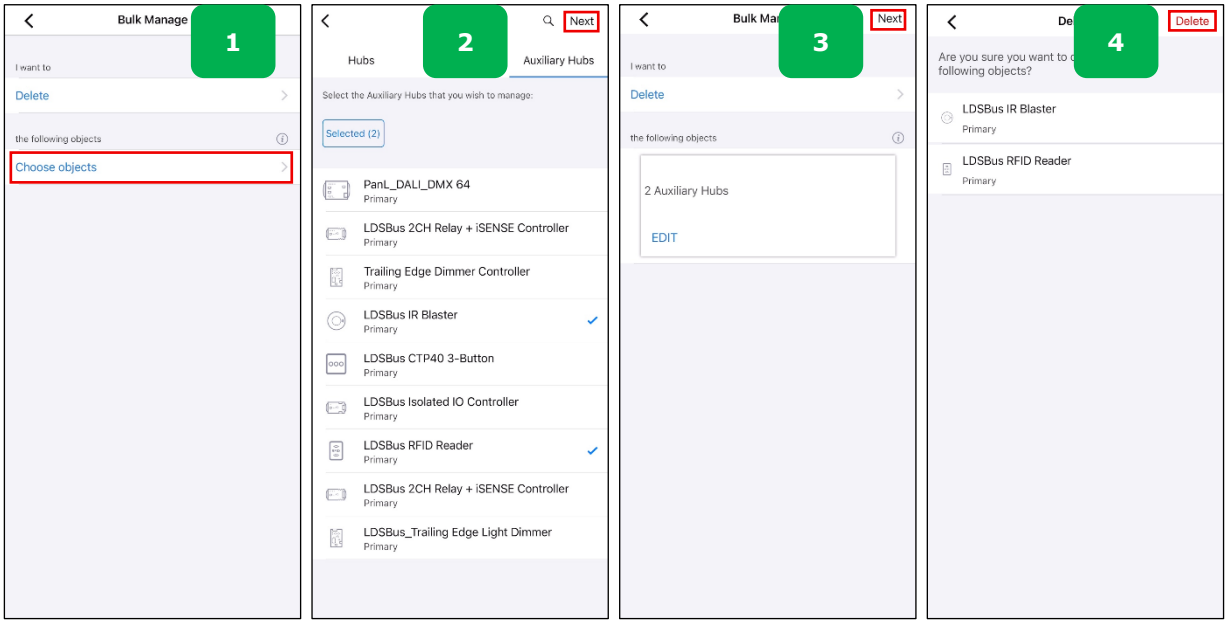
To perform Bulk reboot operation:

1. From the Bulk Manage page, select [**Reboot**].Tap on [**Choose objects**] to select which objects to be rebooted.
2. Choose the objects.
3. Click on [**Next**] to proceed.

4. To confirm the operation, click on [**Reboot**].
5. A success message will be displayed once the reboot is complete.



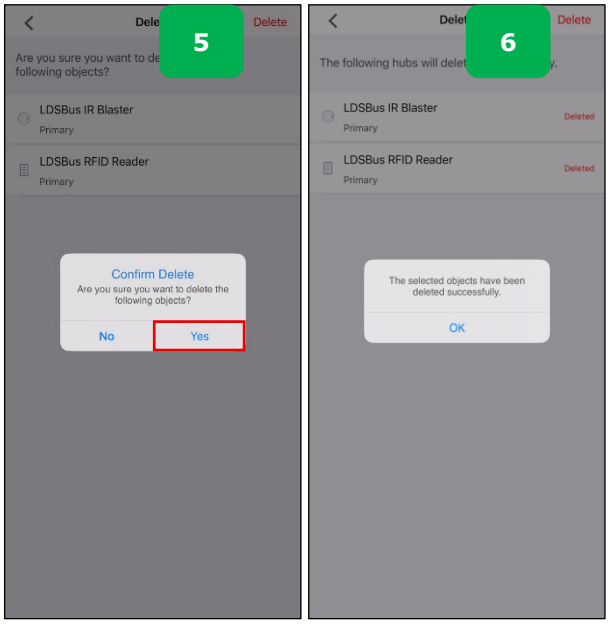
c. Delete



To perform a bulk delete operation:

1. From the Bulk Manage page, select [**Delete**].Tap on [**Choose objects**] to select which objects to be deleted.
2. Choose the objects and click on [**Next**] to proceed.
3. Click on [**Next**] to confirm.
4. To perform deletion, affirm by clicking on [**Delete**].

5. Once user clicks on [**Yes**] option, the selected objects will be deleted.
6. A success message will be displayed once deletion is complete.



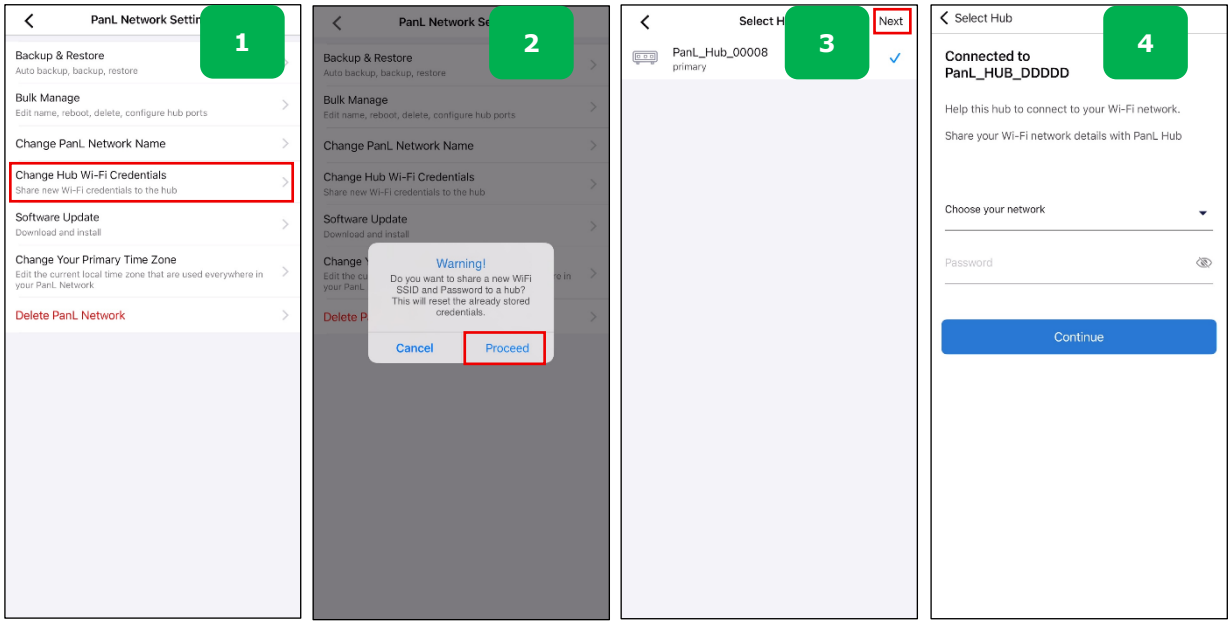
d. Configure Multiple Hub Ports

For information on configuring PanL Hub ports using the *Bulk Manage* feature refer to PSL User Guide - 1. System Installation.

10.4.7.3 Change PanL Network Name

Use [**Change PanL Network Name**] to edit the name of the PanL network.

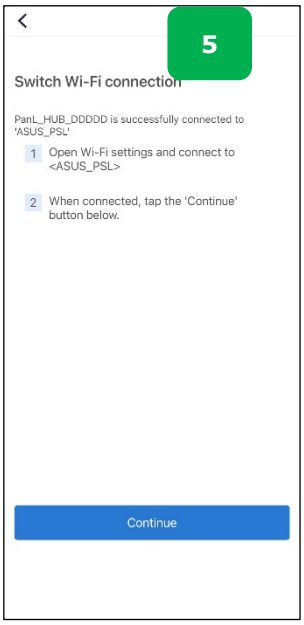
10.4.7.4 Change Wi-Fi Credentials

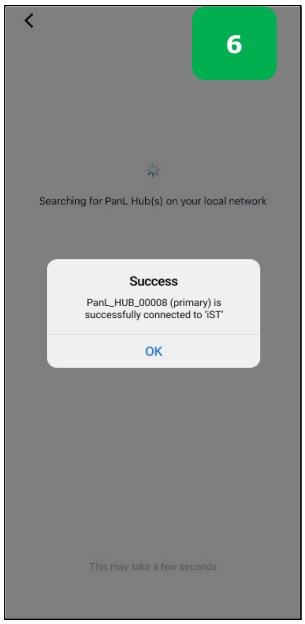


To change the Wi-Fi credentials for a PanL network-

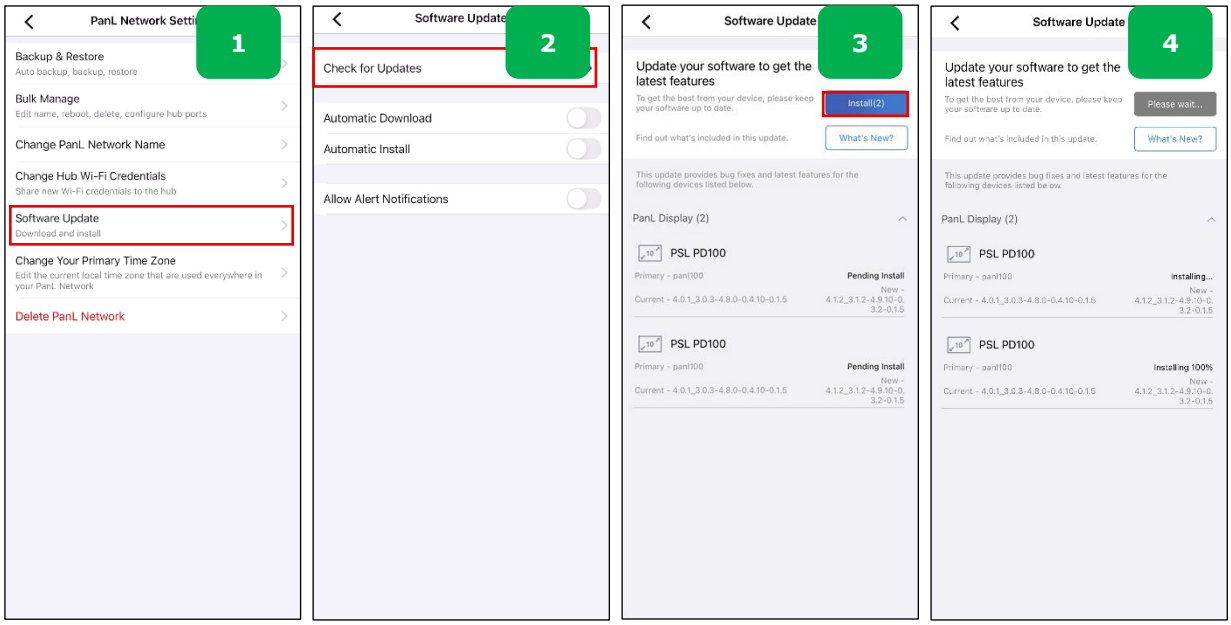
1. Select [**Change Hub Wi-Fi Credentials**].
2. Select [**Proceed**] to share new Wi-Fi credentials to the PanL network.
3. Select the PanL hub and tap on [**Next**] to proceed.
4. Enter the new Wi-fi credentials for the PanL Hub to connect.

5. Follow the instructions in the page to connect the PSL app to the new network.
6. Hub successfully connected to the new Wi-Fi network.





10.4.7.5 Software Update



To perform a software update-

1. Select [**Software Update**].
2. Select [**Check for Updates**] to check if there are any software updates available.
3. PanL Smart Living App check for any available updates. If updates are available, tap [**Install**] to apply the latest version. In some cases, the user will be prompted to download the update before installation.
4. Installation in progress.

5. Software updates successful. User can check if there is any latest update available by clicking on the [**Check for updates**] button.

The following sections describe the various features available on the *Software Update* page.

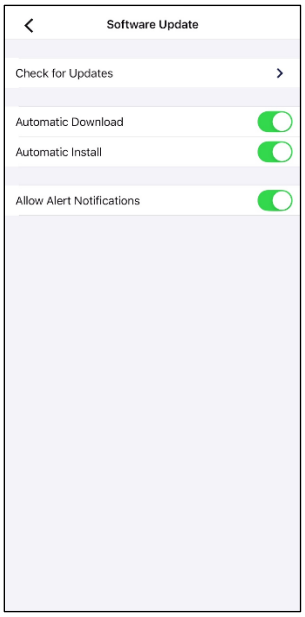


Figure 62 - PanL Network: Software Update Features

- **Automatic Download -** Users can enable automatic downloads of available software updates by toggling the switch.
- **Automatic Install -** Users can enable automatic installation of software updates by activating the switch.
- **Allow Alert Notifications -** Users can receive alert notifications of a PanL network by turning on the switch.

10.4.7.6 Change your primary time zone

User can change the current time zone used across the entire PanL network.

10.4.7.7 Delete PanL Network

Refer to PSL User Guide 1. System Installation for more information on deleting a PanL network.

11. Profile Management

This section describes the different functions available under a user profile.

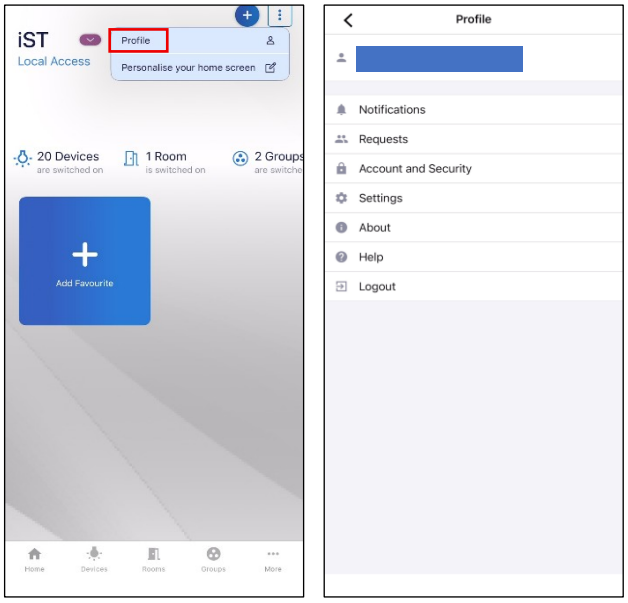


Figure 63 - Profile Management

NOTE: Refer to Settings for more details on the **"Personalise Your Home Screen"** feature.

11.1 Account and Security

The user can perform the following functions under "Account and Security":

- Change Account Password
- Setup Biometric ID Authentication
- Delete PSL Account

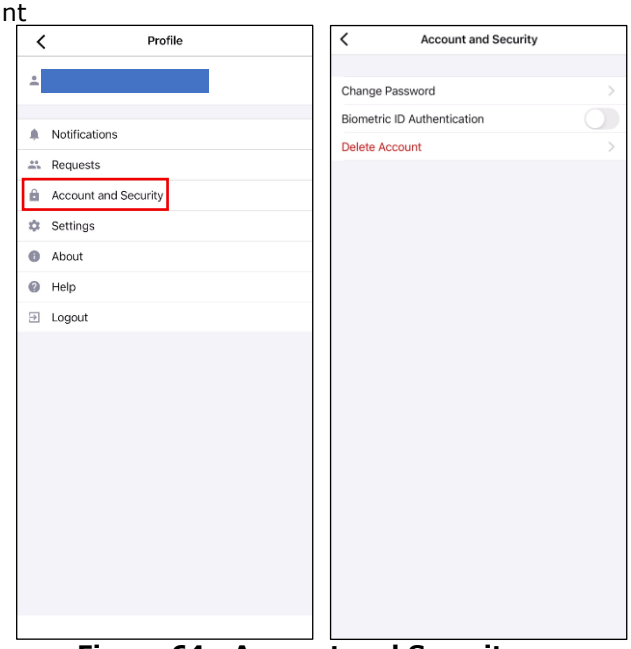


Figure 64 - Account and Security

11.1.1Change Password

User can change their password by providing the current password and a new one.

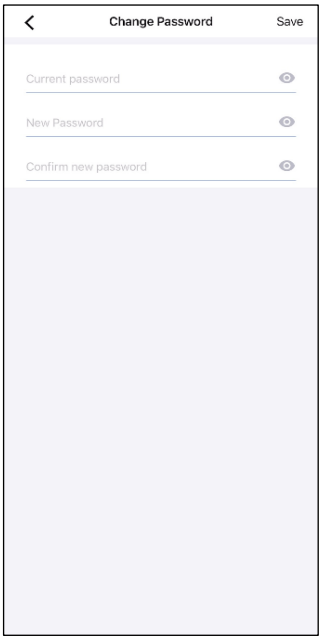
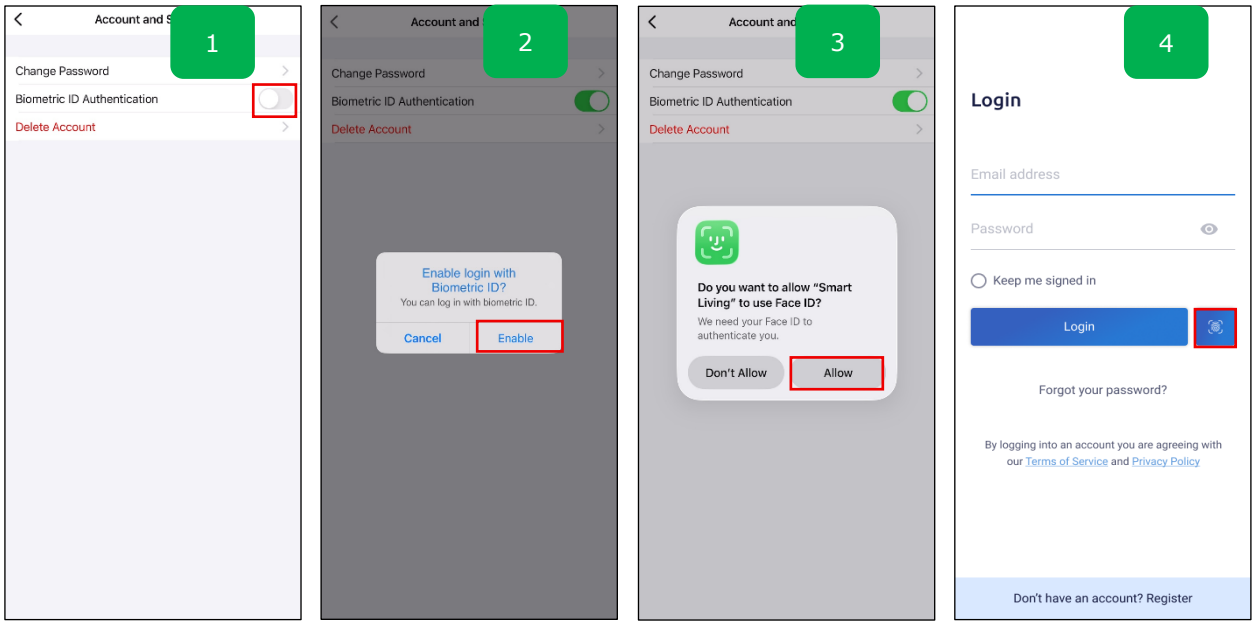


Figure 65 - Change Password

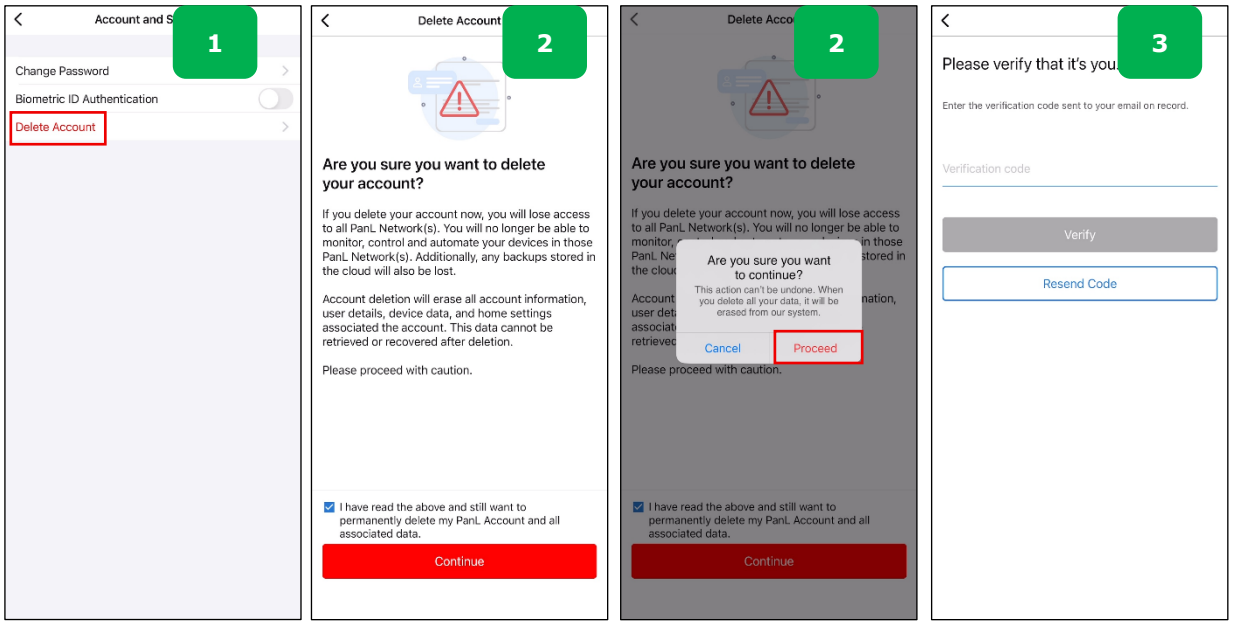
11.1.2 Biometric ID Authentication



To set up biometric authentication:

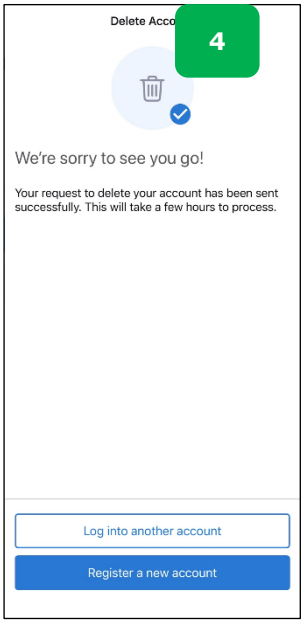
1. Enable biometric authentication by toggling the switch.
2. Click [**Enable**] to confirm.
3. Click [**Allow**] to grant the app permission to capture biometrics.
4. Once enabled, users can use biometric authentication to log in to the PSL app in future sessions.

11.1.3Delete Account

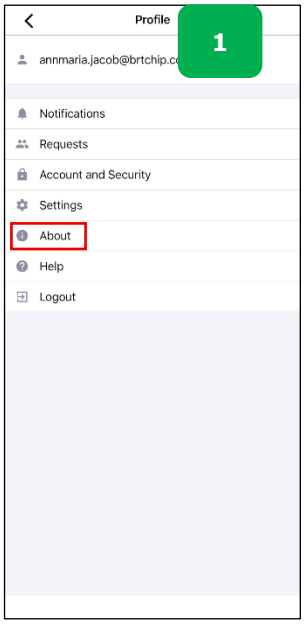


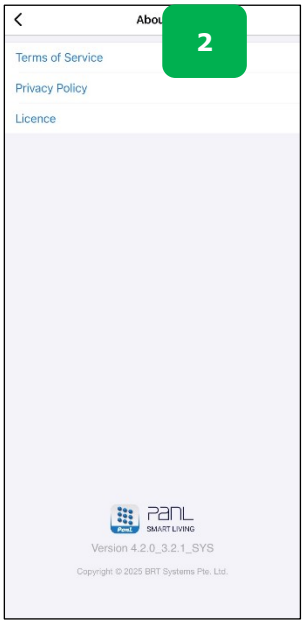
To delete the PanL Smart Living mobile app account –

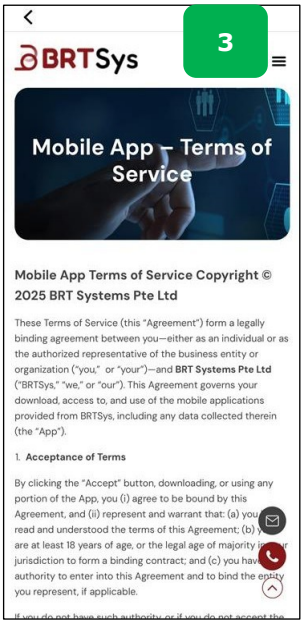
1. Select [**Delete Account**] from Account and Security menu.
2. User can follow the instructions to confirm deletion of account. To continue, click [**Proceed**].
3. Enter the verification code sent to the registered email to verify.
4. Account deleted successfully.

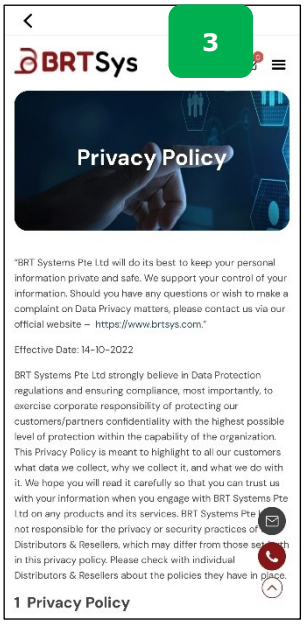


11.2 About



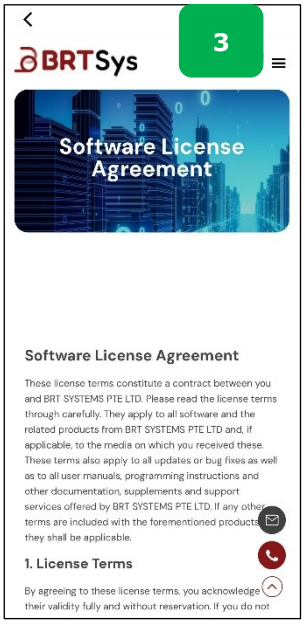






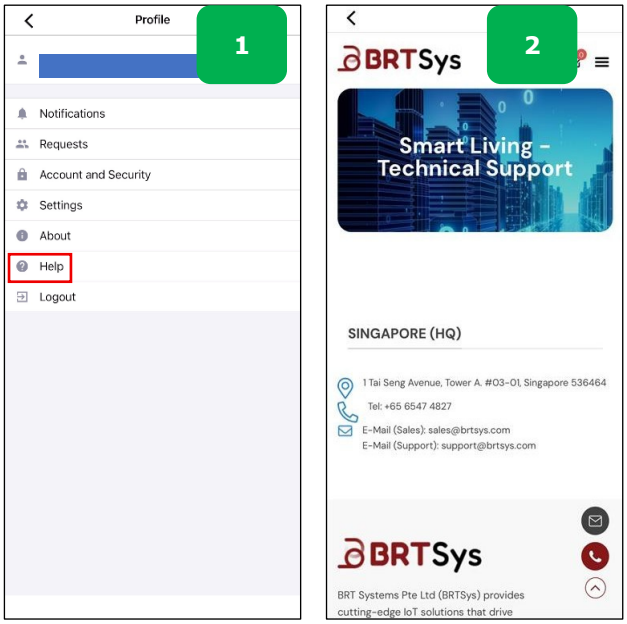
To access the About page –

1. Select [**About**] from the user profile menu.
2. The page displays the different options available.
3. Select the different options to view the Terms of Service, privacy policy, and the software license agreement.



11.3 Help

For technical support, users can access the help menu from PanL Smart Living Mobile App –



1. Select [**Help**] from the user profile menu.
2. Support page is displayed with all the required details.

11.4 Logout

Select [**Logout**] from the user profile menu to log out from PanL Smart Living Mobile App.

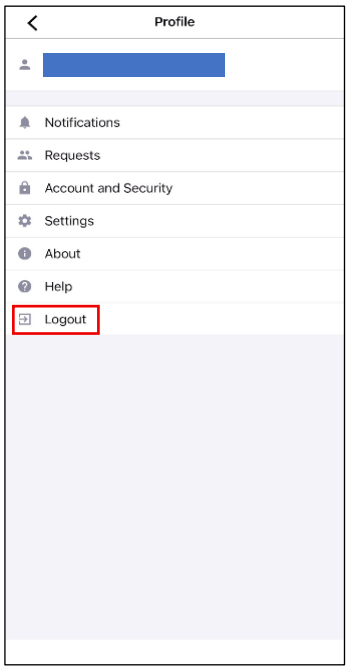


Figure 66 - Logout

11.5 Exclusive to a PanL Network

The following sections under user profile are specific to a PanL Network. Only users who have primary access to a PanL network will be able to see the below options.

11.5.1Settings

User can configure the following features under *Settings* page.

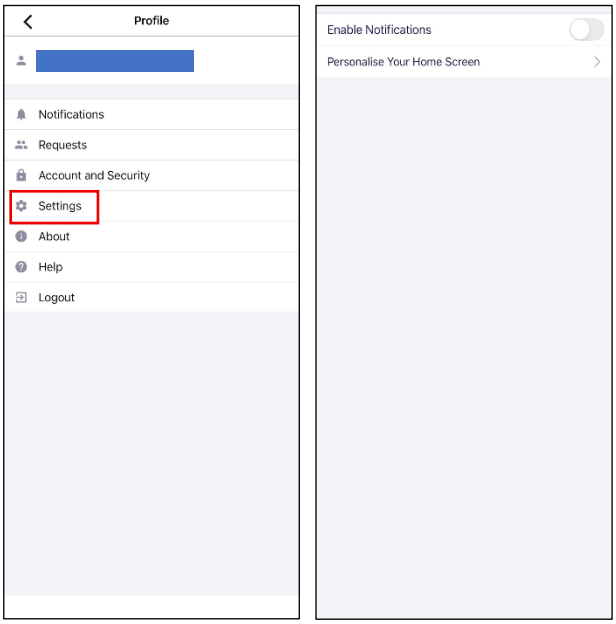


Figure 67 - Settings Page

11.5.1.1 *Personalise Your Home Screen*

Users can customise the home screen appearance by choosing between **Default** and **Custom** modes:

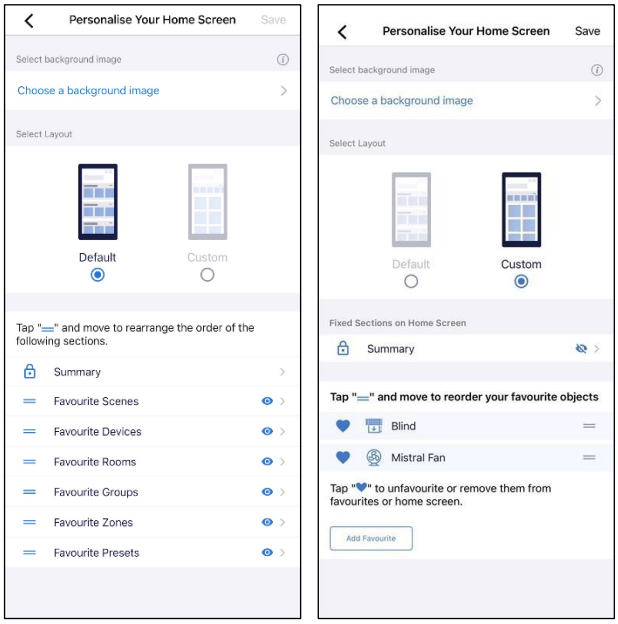


Figure 68 - Personalise Home Screen

11.5.1.1.1 Default Layout

Default Mode displays the summary of currently active objects at the top, followed by favourites organized by category. Users can update the categories shown in the summary and rearrange the objects on the home page by dragging the ═ icon.

In this example, *Favourite Rooms* is moved to the top of the list.

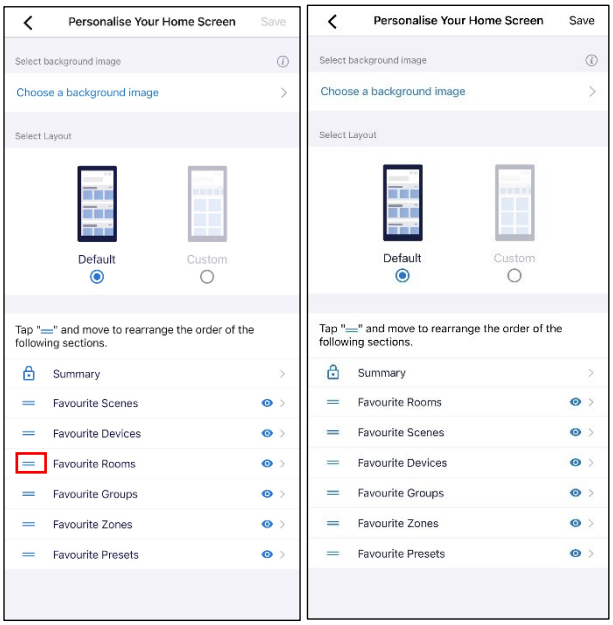


Figure 69 - Default Layout

The home page will be updated accordingly, as shown below.

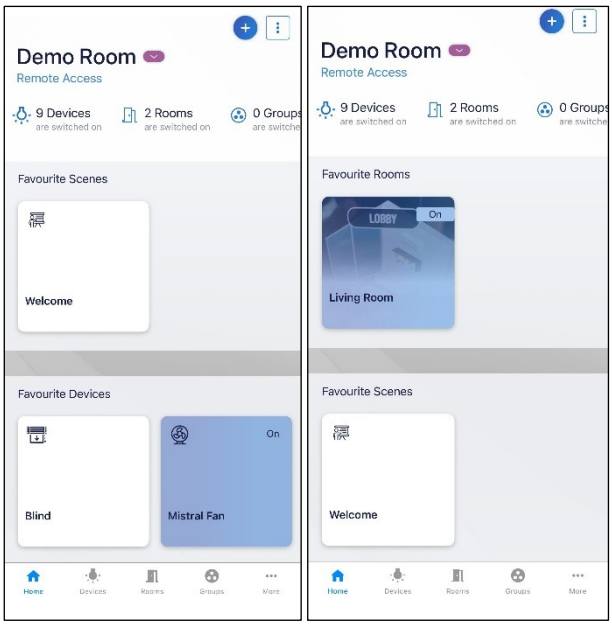


Figure 70 - Home Page before and after Default Layout Update

11.5.1.1.2 Custom Layout

Users can create a custom home page layout to display only the required favourites in a grid format. Use the ═ icon to drag and reorder the favourite objects.

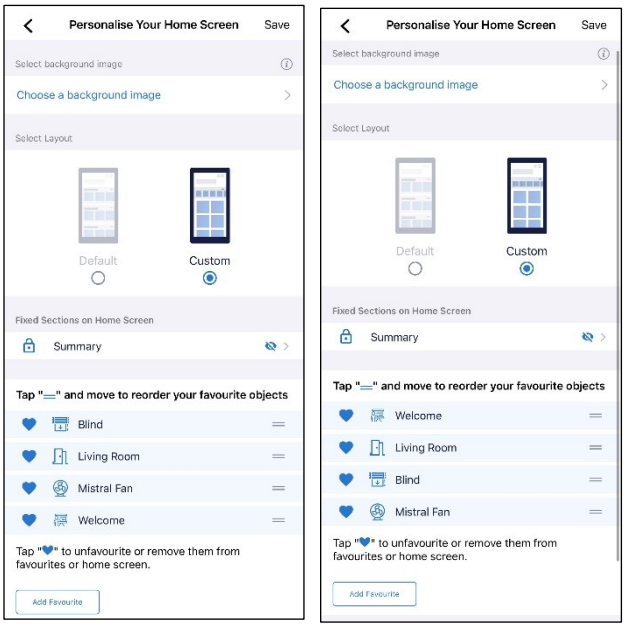


Figure 71 - Custom Layout

The home page will be updated accordingly, as shown below.

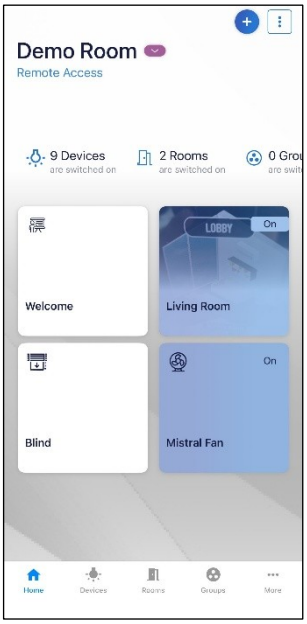


Figure 72 - Custom Home Page

NOTE:
This feature can also be accessed by selecting it from the drop-down menu on the home page, as shown in the Figure 63.

11.5.2Enable Notifications

If the notification feature is enabled, the user's smartphone will receive system alerts with PanL Smart Living status updates and real-time information about events occurring on the connected PanL Network.

These notifications include critical messages such as the hub going offline or online, or when the PanL Network or PanL Smart Living Cloud Server is unavailable due to issues like power loss or lack of internet connectivity.

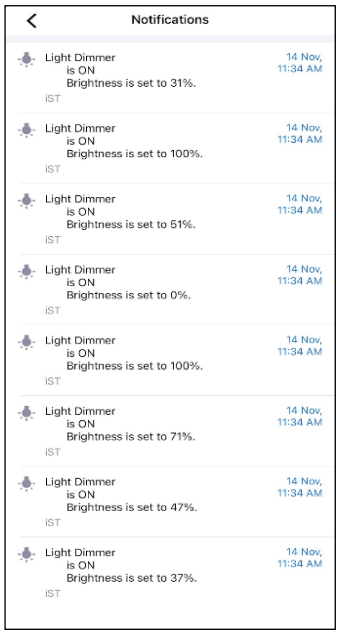


Figure 73 - Notification Screen

Appendix

Web References

PanL Smart Living

Display Panels - BRT Systems Pte Ltd

Hubs - BRT Systems Pte Ltd

Acronyms/ Abbreviations

Acronym	Definition
ALS	Ambient Light Sensor
BACnet	Building Automation and Control Network
DALI	Digital Addressable Lighting Interface
DMX	Digital Multiplex
HTTPS	Hypertext Transfer Protocol Secure
iOS	iPhone Operating System
IR	Infrared
LDSBus	Long-Distance Sensor Bus
LED	Light Emitting Diode
OTP	One-time Password
PSL	PanL Smart Living

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