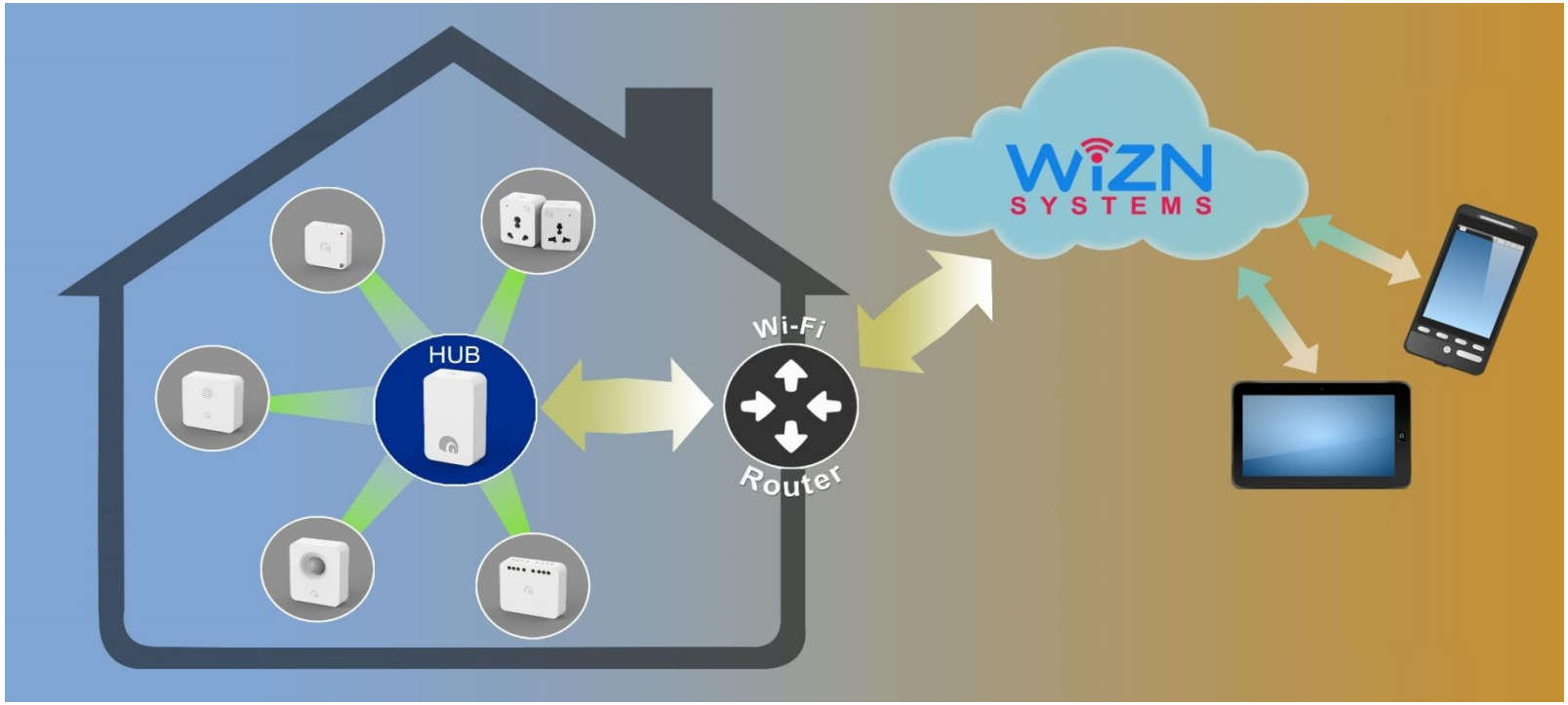
eGlu
Product User Manual

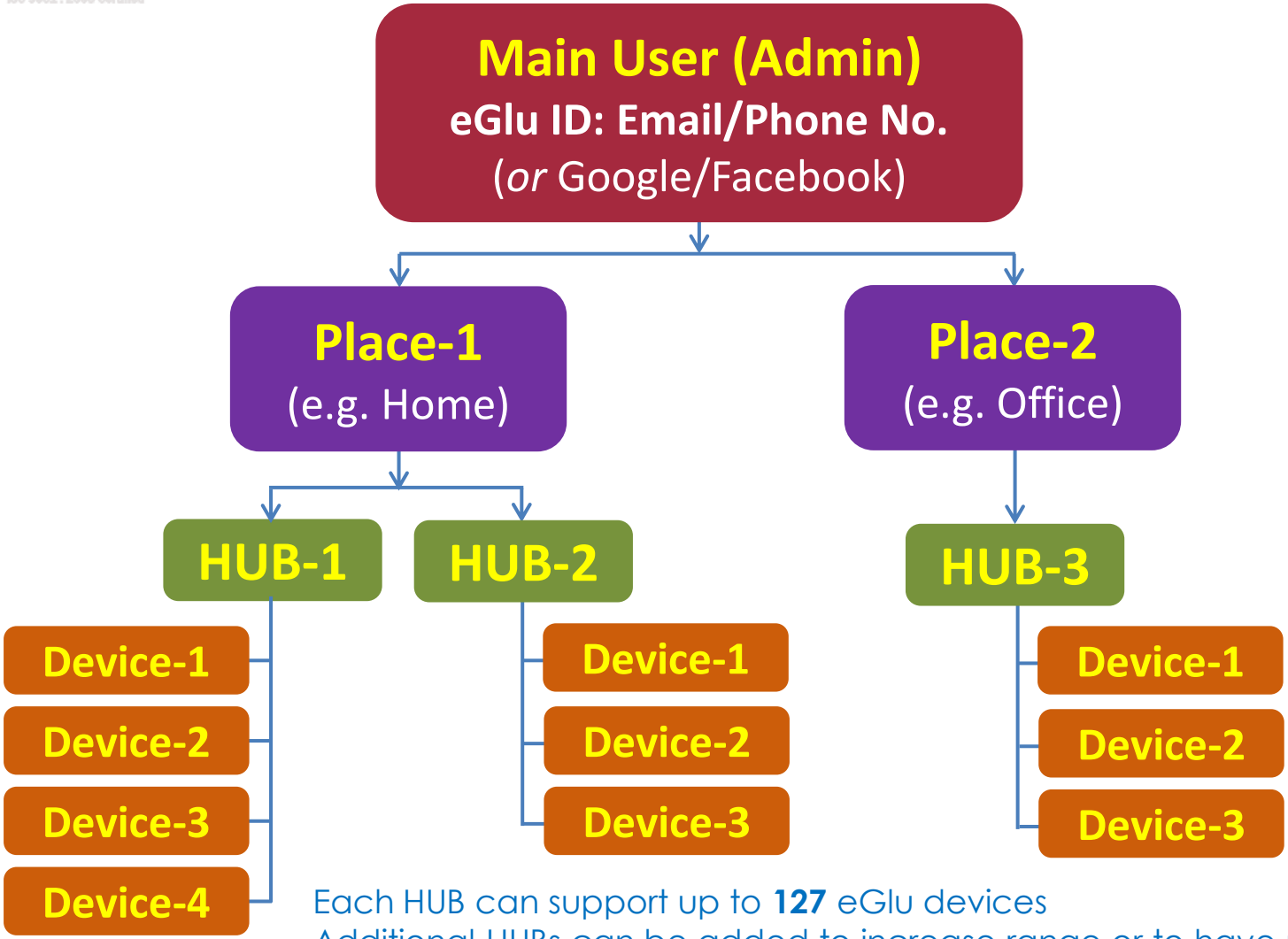
Introduction



eGlu is a wireless Smart Home solution
eGlu HUB connects to internet through Wi-Fi router
User can control and monitor using a mobile APP from anywhere

eGlu Devices

Typical eGlu Network



Each HUB can support up to **127** eGlu devices
Additional HUBs can be added to increase range or to have more devices
Access to other users can be given at HUB level

eGlu Commissioning

The first step is to create an eGlu user account after downloading the APP

Once the user has a verified eGlu account, a HUB can be commissioned into it

Once the HUB is commissioned to a user account, devices can be added to it

Commissioned HUB and devices can not be used with any other user account

For a device to be added to a different HUB, first it has to be removed from the existing HUB

Removing a device from a HUB deletes all the data related to it from the server and brings it to factory default state

Similarly, a HUB has be decommissioned before it can be added to another user account

Decommissioning a HUB deletes all the data related to the HUB from the server

Wi-Fi credentials of a HUB can be changed at any time. This is done using 'Update Wi-Fi' option from the APP

eGlu Mobile Application

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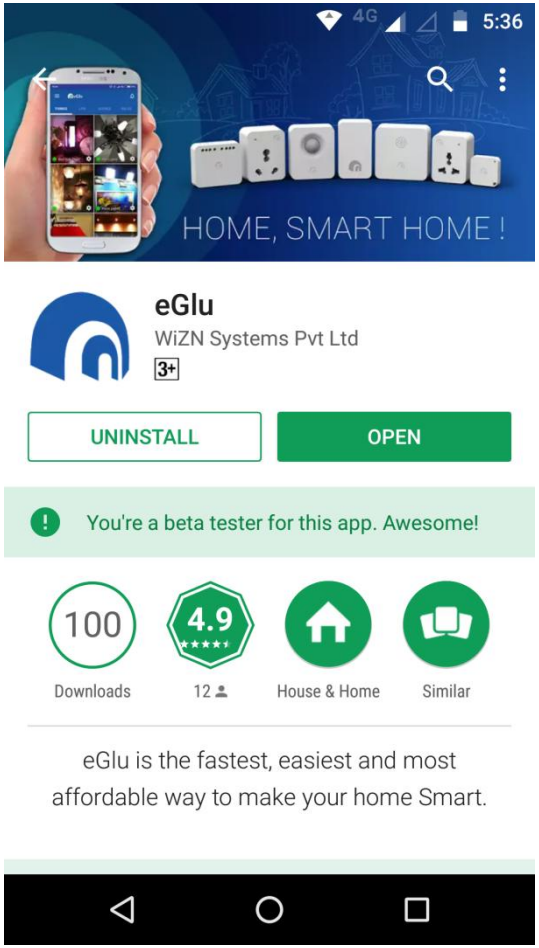
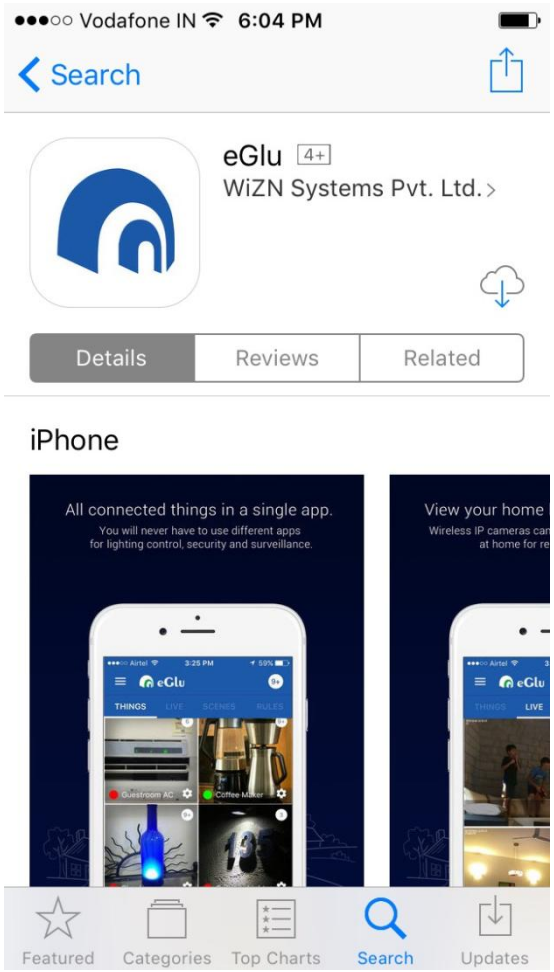
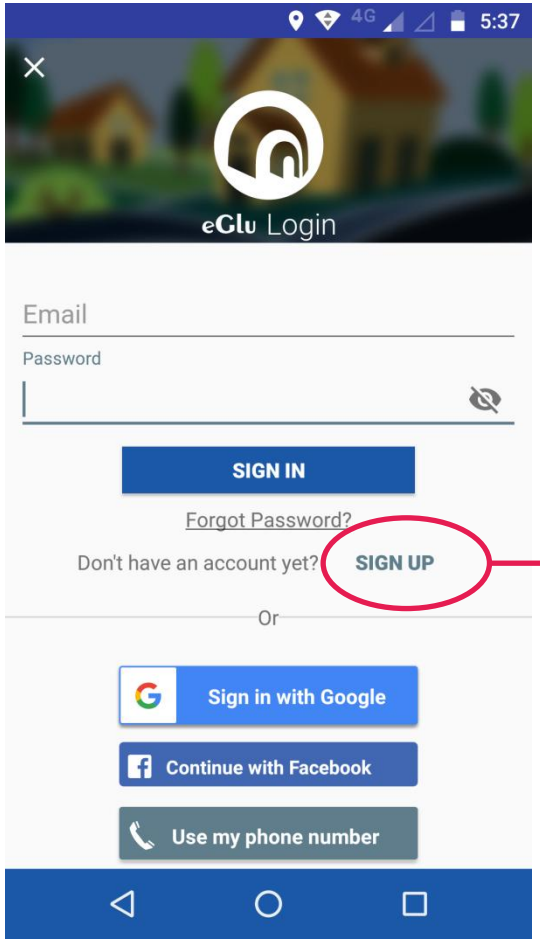
STEP 1: Download eGlu APP from **Google Play** or **APP Store**

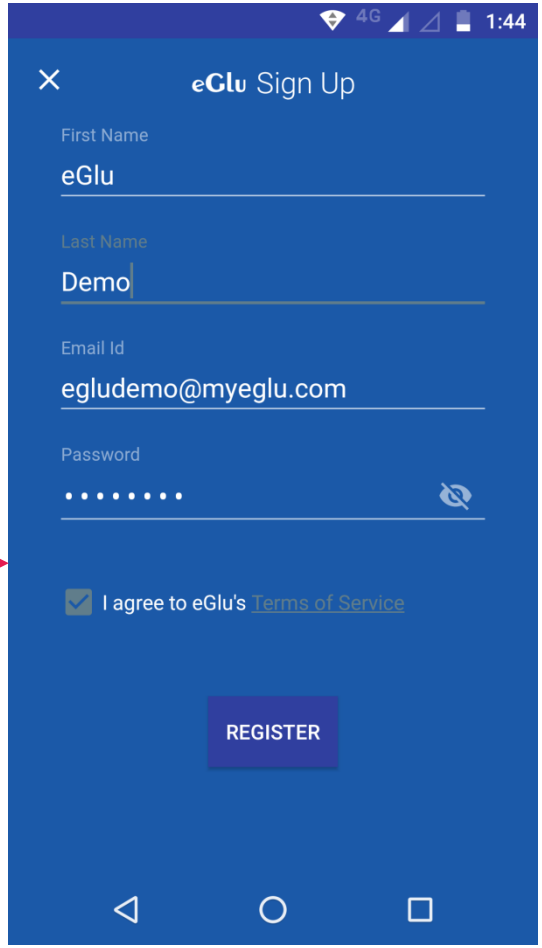




eGlu Account Creation

STEP 2: Sign-up and create an account with eGlu





After registering, verify your email address by clicking the link sent to your email account

You can also use your Google or Facebook account for sign-up

Your mobile number can also be used to create eGlu account

eGlu Sign-in

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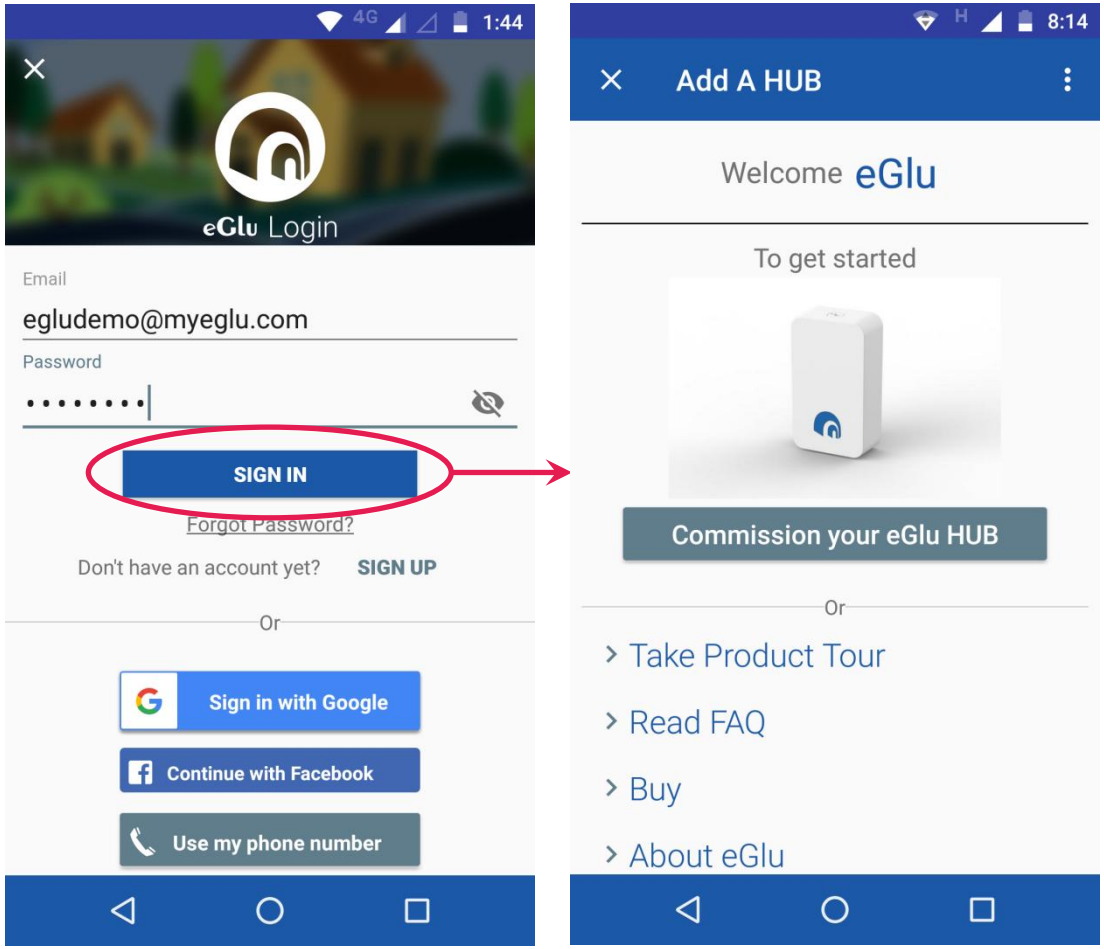
STEP 3: Log-in to eGlu APP



After logging-in, the next step would be to install an eGlu HUB

To install a HUB only requirement is a Wi-Fi router with internet connection

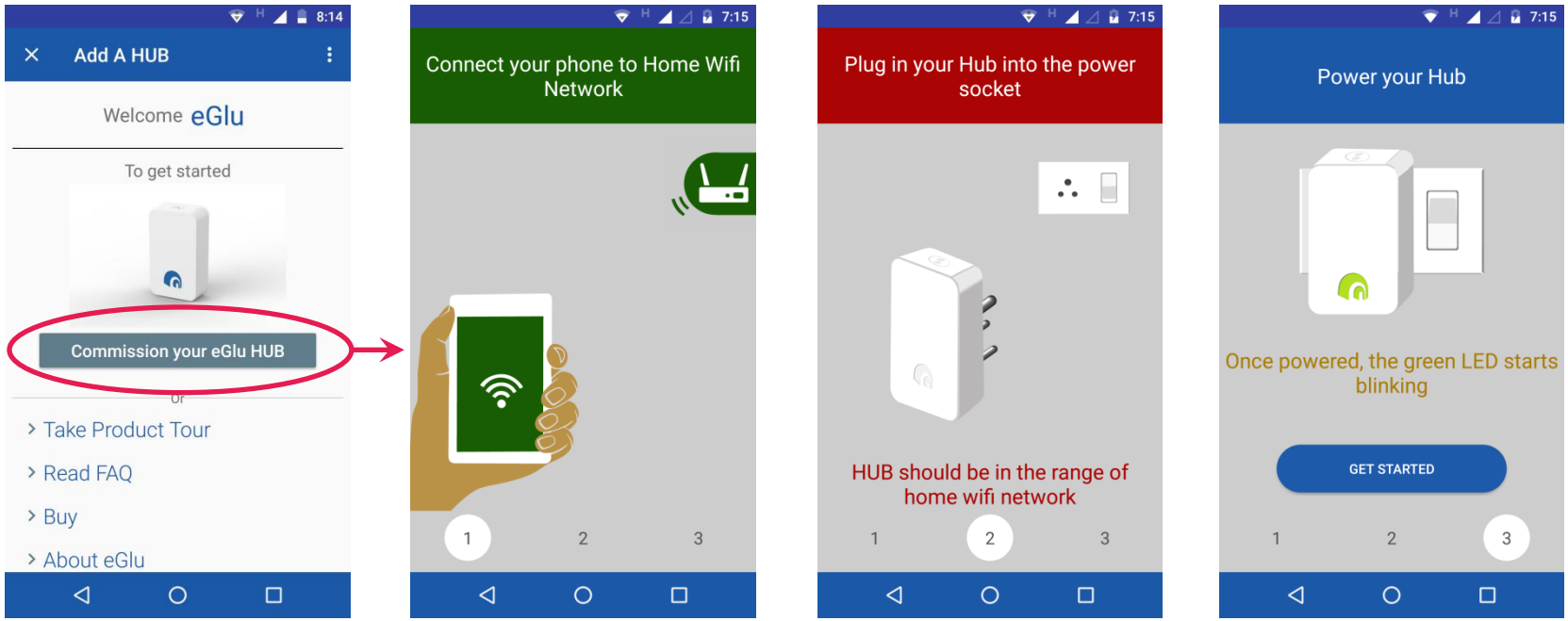
Once a HUB is commissioned into a user's account, it can not be commissioned again for a different user

Multiple HUBs can be installed in one user account

HUB commissioning process is slightly different for Android and iOS APP

HUB Commissioning (Android)

STEP 4: Hub commissioning using Android APP



Connect phone to the same Wi-Fi to which HUB has to be commissioned

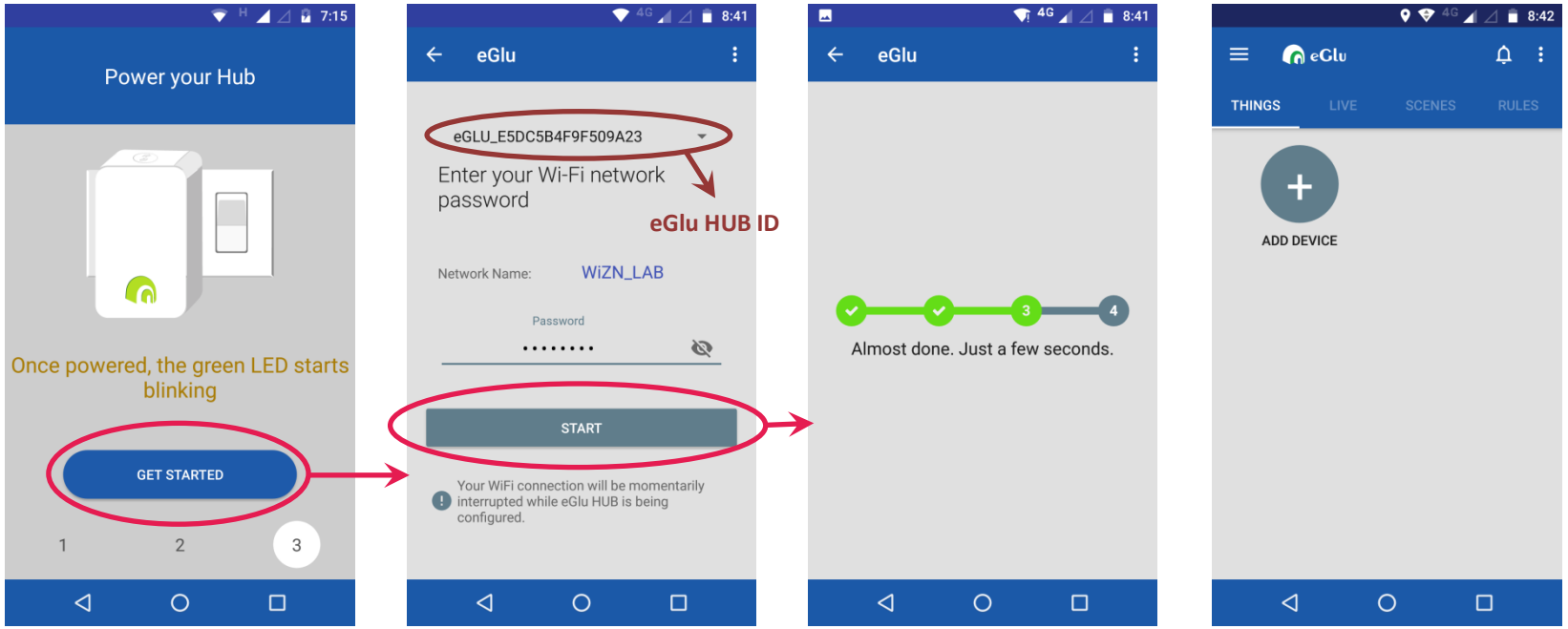
Preferably keep the HUB in the same room as the router, during commissioning

If not, ensure that the Wi-Fi signal at the HUB is higher than -75dBm

Later on HUB can be moved around the house to get optimal range

HUB Commissioning (Android) *contd..*

STEP 4: Hub commissioning using Android APP



Press 'Get Started' button, APP will discover eGlu HUB

A unique eGlu HUB ID will be displayed as shown above

The Wi-Fi SSID to which will be connected will also be shown

Enter the Wi-Fi password and press 'Start' button to complete the process

Device Addition

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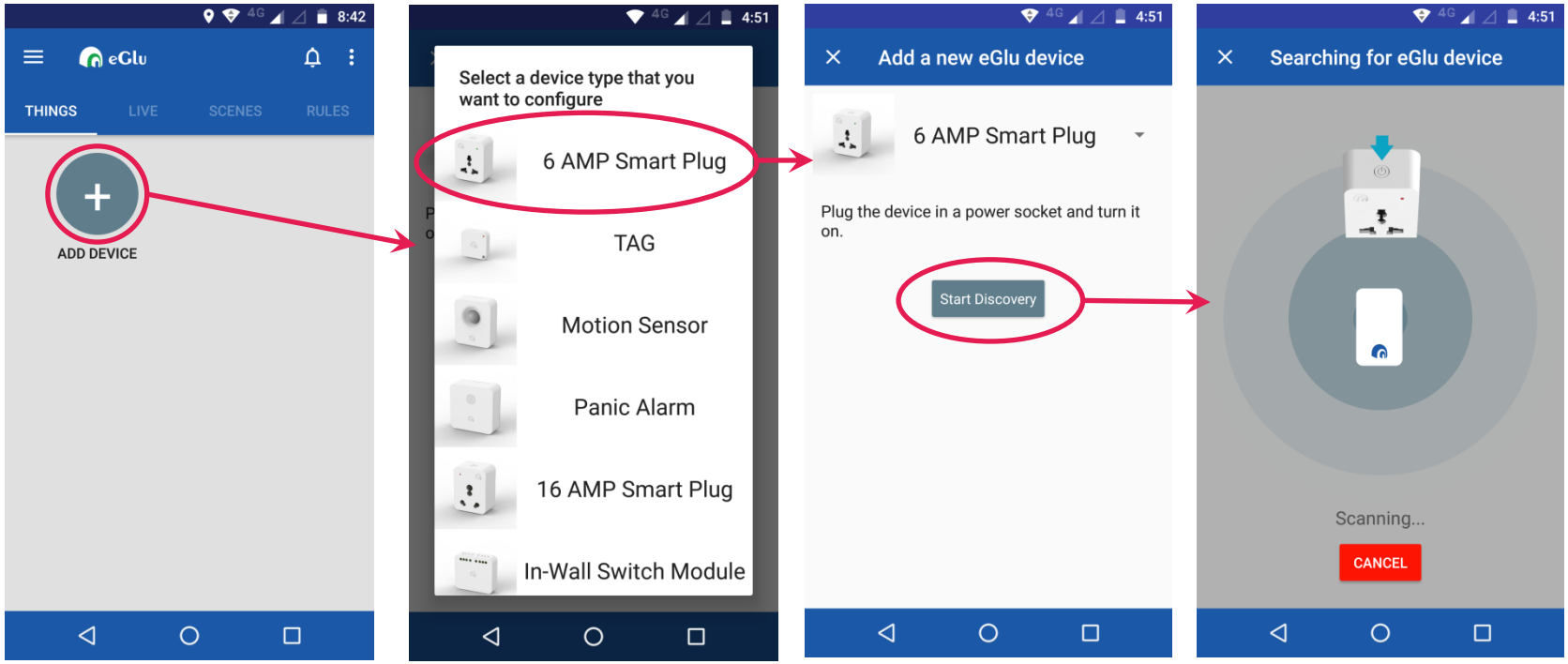
STEP 5: Add eGlu devices



Internet should be available while adding devices

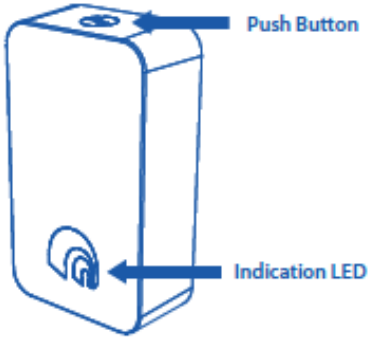
When the HUB is in scanning mode, the light indicator will blink light blue (cyan)

Press the button on the device for the APP to detect the device

Once the device is added, the APP will inform you

eGlu HUB

Know your HUB



eGlu HUB acts as a communication gateway between all the eGlu devices installed at home and your Wi-Fi router. It is a pluggable device and draws power from the AC wall outlet. A push button provided on the HUB can be used to re-configure the HUB if the Wi-Fi settings of your router are changed.

Install your HUB

Insert the HUB into an AC wall socket. Once the HUB is ready to be installed, LED indication will show blinking green light. Go to the eGlu APP and after logging-in, tap on the 'Configure your eGlu HUB' button and follow the APP instructions.

HUB Specifications

Power Input: 220-240V AC / 50 Hz

Power consumption: 1W

Operating Temperature: 0°C to 45°C

Wireless Protocol: WiZN's Glu™, Wi-Fi

Dimensions: 82 x 48 x 45 mm

Weight: 75 grams

Color: White

Model No: EGHB01

KEY POINTS:

For better range in the house, place the HUB at maximum height from the ground

Ensure that the Wi-Fi signals are good where hub is placed

All the eGlu devices should be placed at least 4 feet away from the HUB

Always have HUB and Wi-Fi router on a power back-up

In case of any issues, check the HUB Light indications for troubleshooting

To clear Wi-Fi credentials, long press the top button till indication turns blinking green, then leave the button

HUB Light Indications

Blinking Green: New HUB

Solid Blue: All good

Blinking Blue: No Internet, No eGlu Mate*

Blinking Magenta: Wi-Fi router OFF

Blinking Cyan: Device commissioning mode

Solid Green: No Internet, eGlu Mate* ON

Blinking Orange: Wi-Fi reset

Blinking Red: Error

**eGlu Mate is a separate APP which acts like a local cloud when the internet connection is lost. It has to be installed on an Android device which is connected to same Wi-Fi router as the HUB. More details about eGlu Mate are provided in Slide#30.*

eGlu Smart Plug 6A

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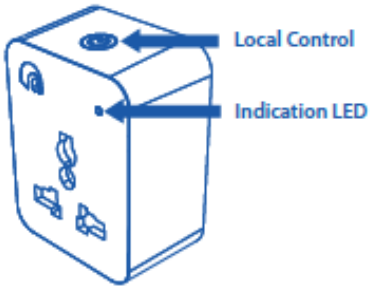
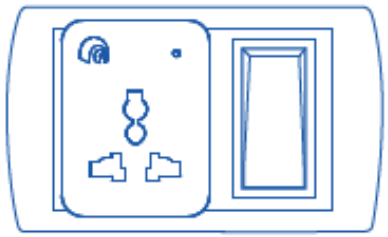
Know your Smart Plug 6A



Smart Plug 6A converts existing wall socket into a remote controlled switch. Any appliance which takes a maximum load current of 6A can be used with this plug. Examples: Lamps, Table Fans, Coffee Maker, Decorative Lights. The plug also has a push button which can be used for local on/off control.

Install your Smart Plug 6A



Insert the Smart Plug 6A into an AC wall socket. The LED indication will show blinking red light. Go to the eGlu APP and tap the '+' button to add a device. Choose Smart Plug 6A from the list and follow the APP instructions.

Smart Plug 6A Specifications

Power input: 220-240V AC / 50 Hz

Maximum Load: 6 Ampere

Operating Temperature: 0°C to 45°C

Wireless Protocol: WiZN's Glu™

Dimensions: 68 x 52 x 52 mm

Weight: 95 grams

Color: White

Model No: EGSP01

KEY POINTS:

This device is for indoor use only and is not water proof.

Maximum load allowed in 6A only. Higher load can permanently damage the device

The plug should be kept permanently on power

The button on the top can be used for the local ON/OFF of the plug

Each local press is considered as an event and can be used for event based rule

eGlu Smart Plug 16A

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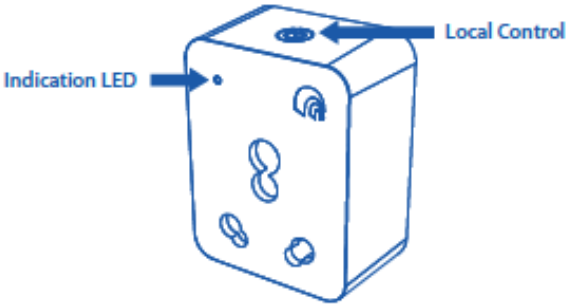
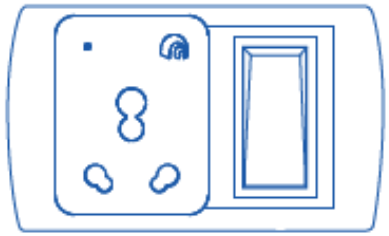
Know your Smart Plug 16A



Smart Plug 16A can we used to remotely control or automate high power appliances like geysers, air conditioners and motor pumps. The plug also has a push button which can be used for local on/off control.

Install your Smart Plug 16A



Insert the Smart Plug 16A into an AC wall socket. The LED indication will show blinking red light. Go to the eGlu APP and tap the '+' button to add a device. Choose Smart Plug 16A from the list and follow the APP instructions.

Smart Plug 16A Specifications

Power Input: 220-240V AC / 50 Hz

Maximum Load: 16 Ampere

Operating Temperature: 0^0C to 45^0C

Wireless Protocol: WiZN's Glu™

Dimensions: 73 x 57 x 62 mm

Weight: 145 grams

Color: White

Model No: EGSP02

KEY POINTS:

This device is for indoor use only and is not water proof.

Maximum load allowed in 16A only. Higher load can permanently damage the device

The plug should be kept permanently on power

The button on the top can be used for the local ON/OFF of the plug

Each local press is considered as an event and can be used for event based rule

eGlu Motion Sensor

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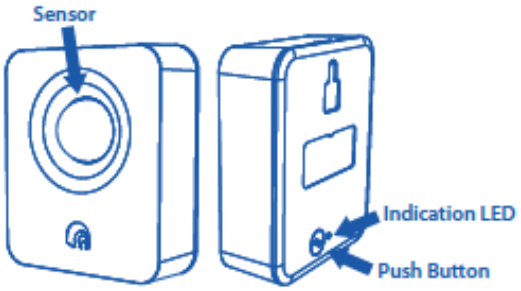
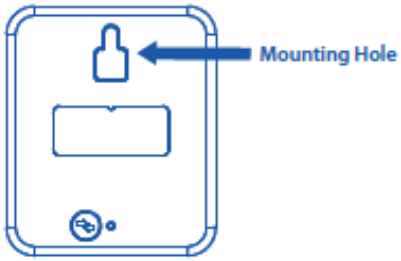
Know your Motion Sensor



Motion Sensor detects movement of people. It can be used to alert an intrusion or for detection of unoccupancy in a room. Motion Sensor is powered by batteries and can be conveniently placed on any flat surface or hung on a wall.

Install your Motion Sensor



Motion Sensor comes pre-installed with two AA batteries . Go to the eGlu APP and tap the '+' button to add a device. Choose Motion Sensor from the list and follow the APP instructions. Motion Sensor can be hung on a wall using the mounting hole.

Motion Sensor Specifications

Power Source: 2 AA Alkaline Batteries

Operating Temperature: 0°C to 45°C

Wireless Protocol: WiZN's Glu™

Detection Distance: up to 30 feet

Detection Angle: 100° x 90° (Hor. x Ver.)

Dimensions: 75 x 64 x 28 mm

Weight: 110 grams

Color: White

Model No: EGMS01

KEY POINTS:

This device is for indoor use only and is not water proof.

The Motion Sensor will detect the presence has long as there is movement

Motion Sensor should be ideally placed at a position where people will go across it

It can detect both occupancy as well as un-occupancy

The duration of occupancy or un-occupancy can be programmed in the APP

eGlu Panic Alarm

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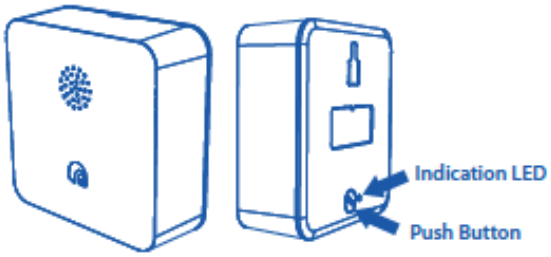
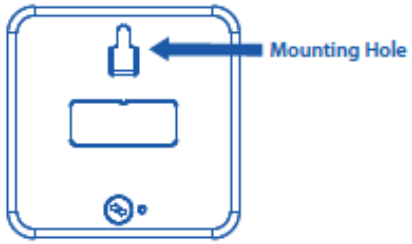
Know your Panic Alarm



Panic Alarm produces loud sound when turned on. It can be activated based on various events like intrusion, opening of a door or pressing of the panic button on the TAG. Panic Alarm is powered by batteries and can be conveniently placed on any flat surface or hung on a wall.

Install your Panic Alarm



Panic Alarm comes pre-installed with two AA batteries . Go to the eGlu APP and tap the '+' button to add a device. Choose Panic Alarm from the list and follow the APP instructions. Panic Alarm can be hung on a wall using the mounting hole.

Panic Alarm Specifications

Power Source: 2 AA Alkaline Batteries

Operating Temperature: 0°C to 45°C

Wireless Protocol: WiZN's Glu™

Maximum Volume: 105 dB

Dimensions: 75 x 75 x 28 mm

Weight: 125 grams

Color: White

Model No: EGPA01

KEY POINTS:

This device is for indoor use only and is not water proof

Panic Alarm can be triggered by the APP or from a 'rule'

It should be placed at a location which is not visible

No object should be placed with-in 2 feet of the Panic Alarm

The duration of the alarm can be set from the APP

eGlu TAG

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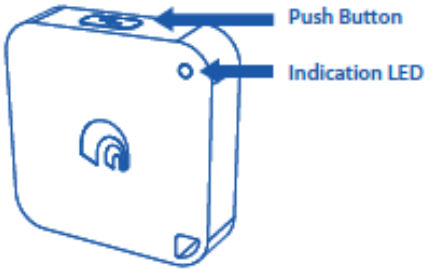
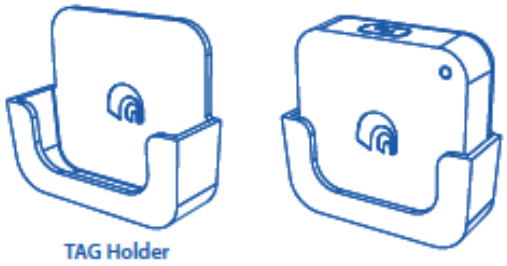
Know your TAG



TAG is a multifunctional device with audio and visual indications. It can be used as a door sensor. Hang it on a door or window, which needs to be monitored, using the provided TAG holder. You can use it to find your misplaced keys by beeping it using the App. It can also be configured to detect presence and absence of family members and pets at home.

Install your TAG



TAG comes pre-installed with a CR2032 battery . Go to the eGlu APP and tap the '+' button to add a device. Choose TAG from the list and follow the APP instructions. For the door sensing application, stick the TAG holder on a door using the double sided tape and slide the TAG into it.

TAG Specifications

Power Source: 1 CR2032 Battery

Operating Temperature: 0°C to 45°C

Wireless Protocol: WiZN's Glu™

Dimensions: 40 x 40 x 10 mm

Weight: 16 grams

Color: White

Model No: EGTG01

KEY POINTS:

TAG is for indoor use only and is not water proof.

It has four modes: (1) Door Sensor (2) Key Finder (3) Presence Sensor (4) Remote Button

For normal hinged doors, no magnet is required to be placed next to it

The door opening sensitivity can be set using the APP

For the sliding door, a small magnetic strip has to be placed on the frame of the door

The remote button has two modes: short press and long press

eGlu IWS – 3S

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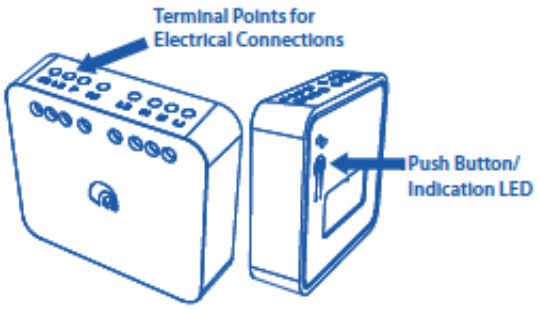
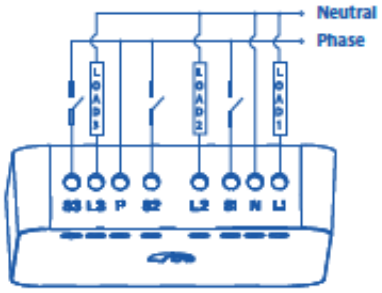
Know your IWS-3S



In-wall Triple Switch Module allows automation of regular lights, power sockets and fans. IWS-3S comes with three switches each rated at 6A load. It is installed behind the existing switch plate and works in parallel with the mechanical switches.

Install your IWS-3S



Installation of IWS-3S should be done by a professional electrician as per the above diagram. Main power should be turned off during the installation. After wiring the module, turn on the power. The LED indication will show blinking red light. Go to the eGlu APP and tap the '+' button to add a device. Choose In-Wall Switch Module from the list and follow the APP instructions.

IWS-3S Specifications

Power Input: 220-240V AC / 50 Hz

Maximum Load: 6/6/6 Ampere

Operating Temperature: 0^0C to 45^0C

Wireless Protocol: WiZN's Glu™

Dimensions: 59 x 66 x 18 mm

Weight: 70 grams

Color: White

Model No: EGIW01

KEY POINTS:

This device is for indoor use only and is not water proof. Goes behind switch plate.

Maximum load allowed in 6A/load. Higher load can permanently damage the device

Load can be controlled with mechanical switch as well as the APP

It makes a normal switch a 2-way switch. A 2-way switch becomes 3-way

Please follow the installation instructions carefully for optimal performance

eGlu IWS – 2S1D

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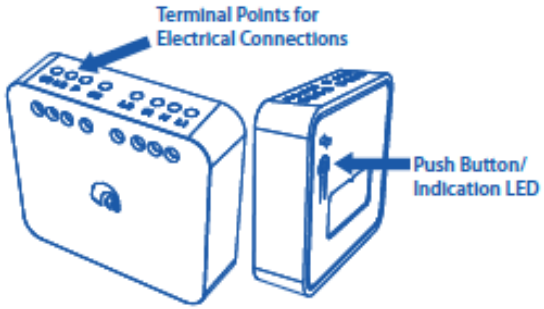
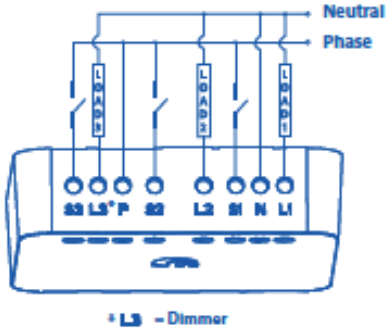
Know your IWS-2S1D



In-wall Dual Switch + Dimmer Module allows automation of regular lights, power sockets, as well as dimmable lights and fans. IWS-2S1D comes with two switches of 6A rating each and one dimmer of 0.5A rating. It is installed behind the existing switch plate and works in parallel with the mechanical switches.

Install your IWS-2S1D



* L3 – Dimmer

Installation of IWS-2S1D should be done by a professional electrician as per the above diagram. Main power should be turned off during installation. After wiring the module, turn on the power. The LED indication will show blinking red light. Go to the eGlu APP and tap the '+' button to add a device. Choose In-Wall Switch Module from the list and follow the APP instructions.

IWS-2S1D Specifications

Power Input: 220-240V AC / 50 Hz

Maximum Load: 6/6/0.5 Ampere

Operating Temperature: 0°C to 45°C

Wireless Protocol: WiZN's Glu™

Dimensions: 59 x 66 x 18 mm

Weight: 70 grams

Color: White

Model No: EGIW02

KEY POINTS:

IWS-2S1D is same as IWS-3S except that the third switch can be used as a dimmer

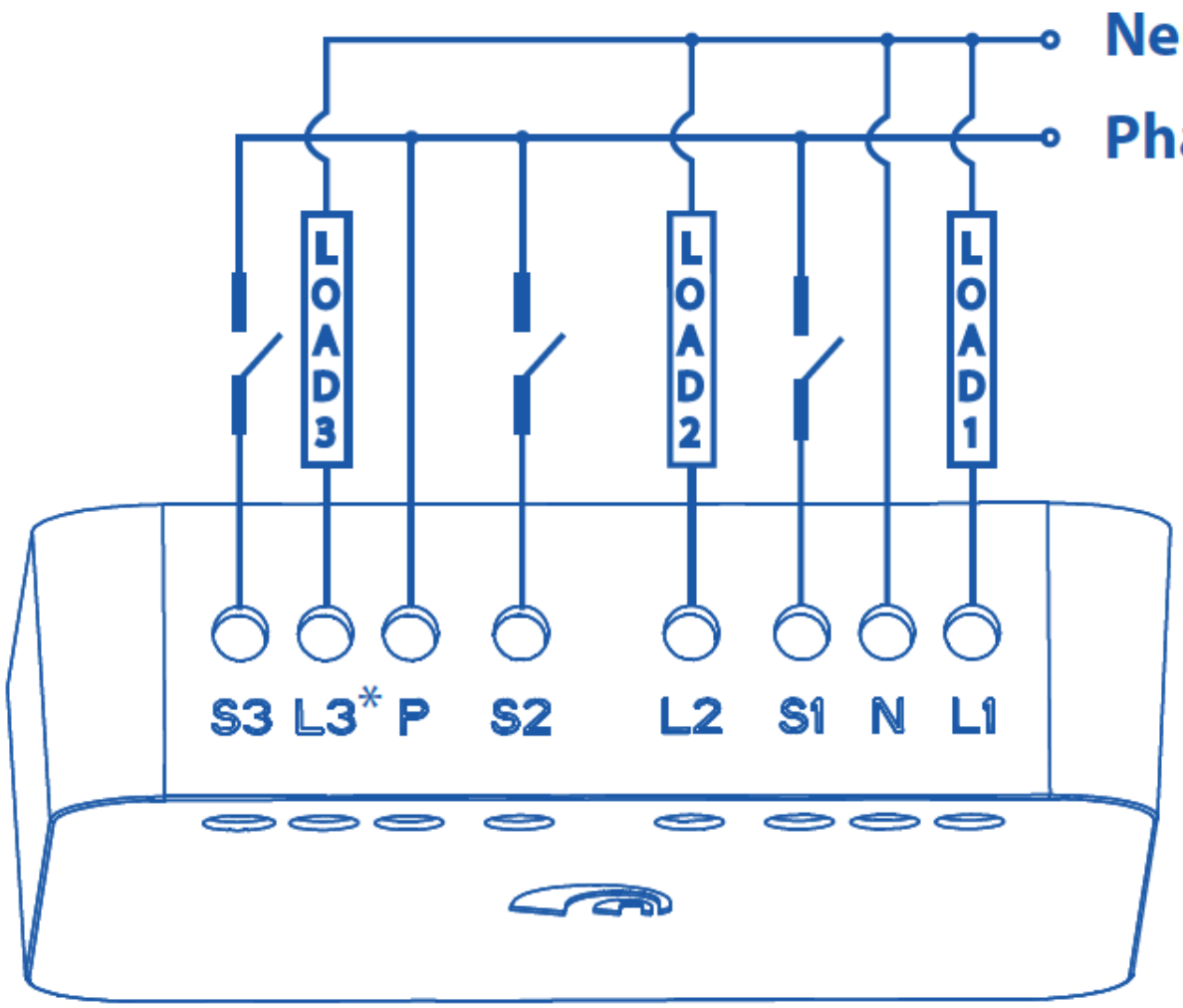
Maximum load allowed in 6A/load for L1 and L2 and 100W for the dimmer (L3)

The dimmer can also be used to regulate fan speed and also as an on/off switch

Some fans can make humming sound at lower speeds

Please follow the installation instructions carefully for optimal performance

eGlu IWS Wiring Diagram

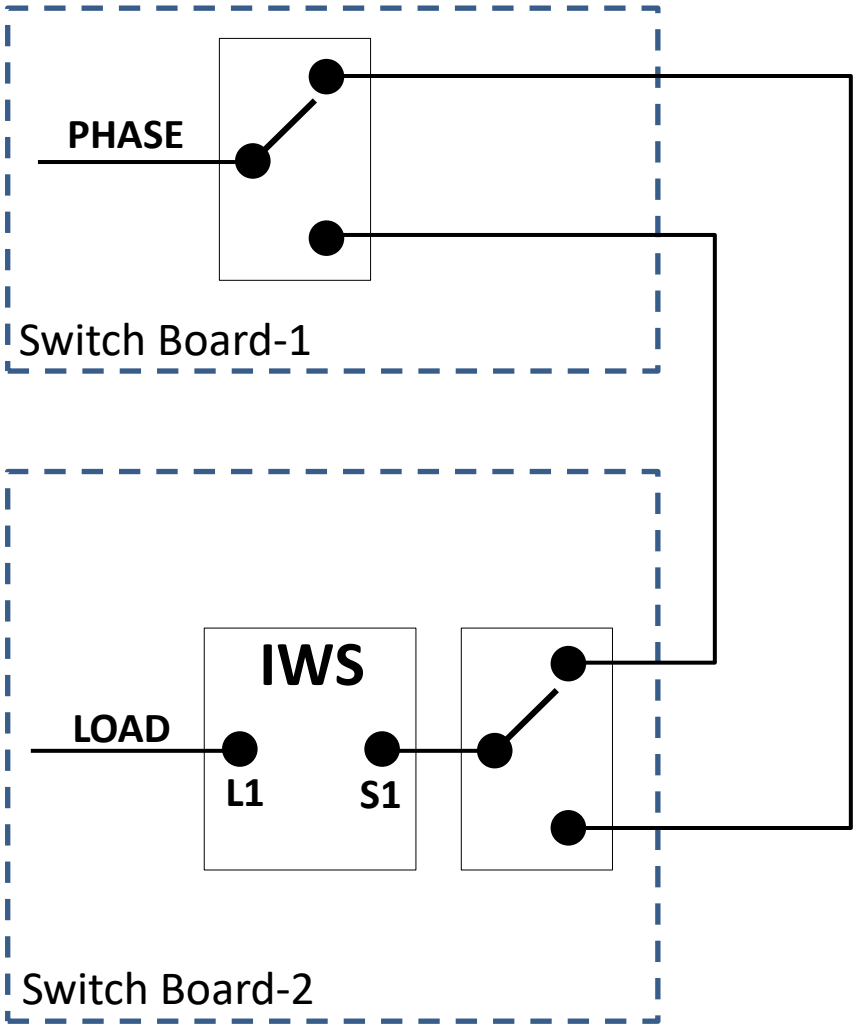


eGlu IWS is fully retrofit. No additional wiring is required

Remove the wire which is going from the mechanical switch to the load and connect it to one of the load terminals, L1,L2 or L3 of IWS

Take a small piece of wire and connect it between the switch terminal and the corresponding terminal (S1,S2 or S3) on the IWS

eGlu IWS for 2-way switches



eGlu IWS will convert an existing 2-way switch into a 3-way switch, third control being the mobile APP

For this to happen the IWS should be installed in the box in which the load wire is connected

Please ensure that the phase used in both the switch boards where the 2-way switches are located is same otherwise IWS will malfunction

eGlu IWS Placement Tips

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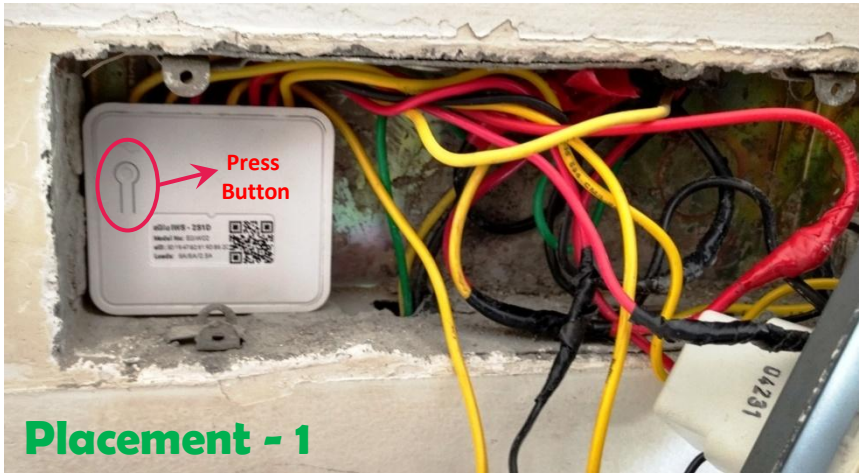
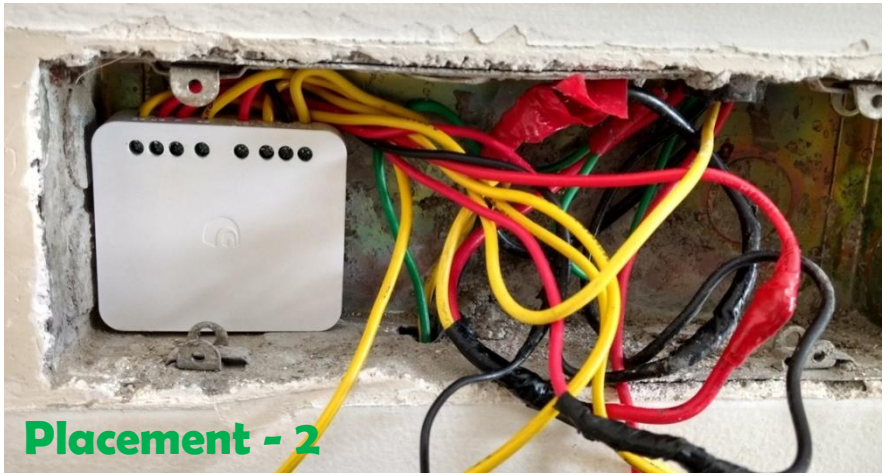




Placement Instructions:

Placement-1 is the ideal placement and provides the best RF range for IWS

But the condition is that the IWS surface should not have wires touching it

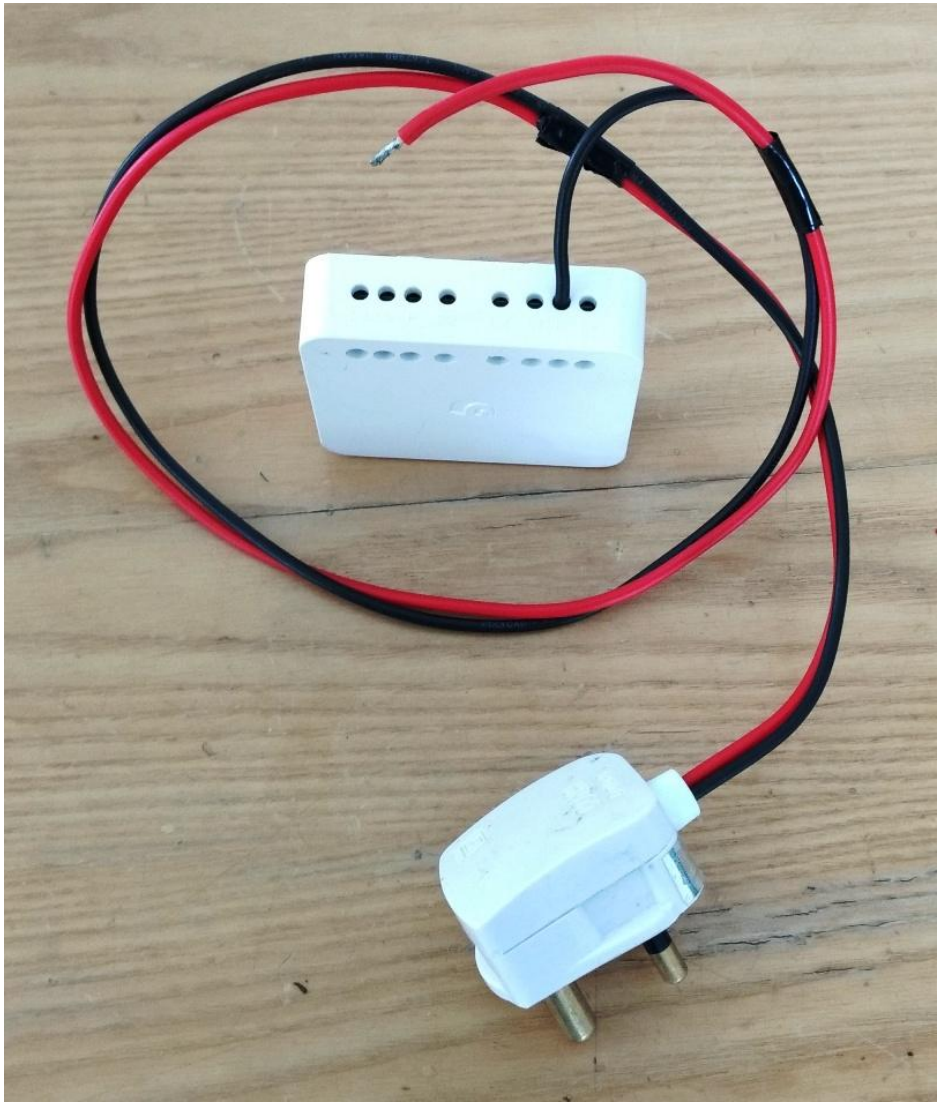
Try to move all the wires to the empty space on the sides of IWS

Also the press button should not get permanently pressed by any external object

If the switch box is very congested, then it is recommended to go for placement-2

The range would be slightly less, but wire crowding will have over all less effect

eGlu IWS Addition - Tips



A simple IWS commissioning jig can be made as shown in the picture

Connect a 6A plug with 1.5mm^2 electrical wires

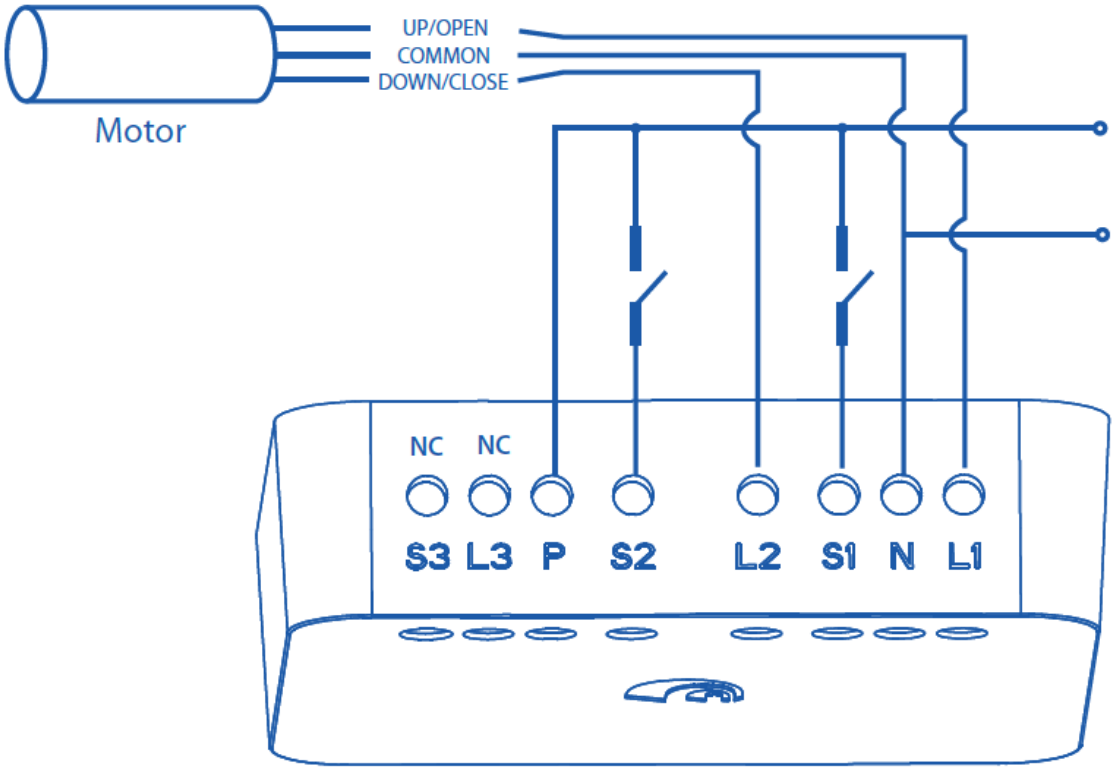
Apply solder to the tips of the electrical wires to make them hard

These wires can now be directly inserted into the phase and neutral terminals of the IWS

Multiple IWS can now be powered using the plug and commissioned to the HUB

After commissioning they can be installed at the actual location

eGlu Motor Control



Wiring Diagram

eGlu Motor Controller can be used for both curtain motors as well as main gate motors, as long as the AC load of the motor is less than 6A.

The connections have to be made as per the wiring diagram. S3 and L3 terminals are not used.

S1 and S2 are bell switches which can be used for local control (optional).

Note: *eGlu motor controller can be used only with motors which are controlled by directly connecting the AC voltage to the motor. Don't use this controller with the motors which use DC controller. Please confirm before installation.*

eGlu APP Introduction

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eGlu HUB Status
Green: Online
Red: Offline

Hamburger Menu

Overflow Menu

Main Dashboard

eGlu Log and Alerts

Device Status
Green: ON
Red: OFF
Gray: Offline

Sensor State e.g. Door open/close

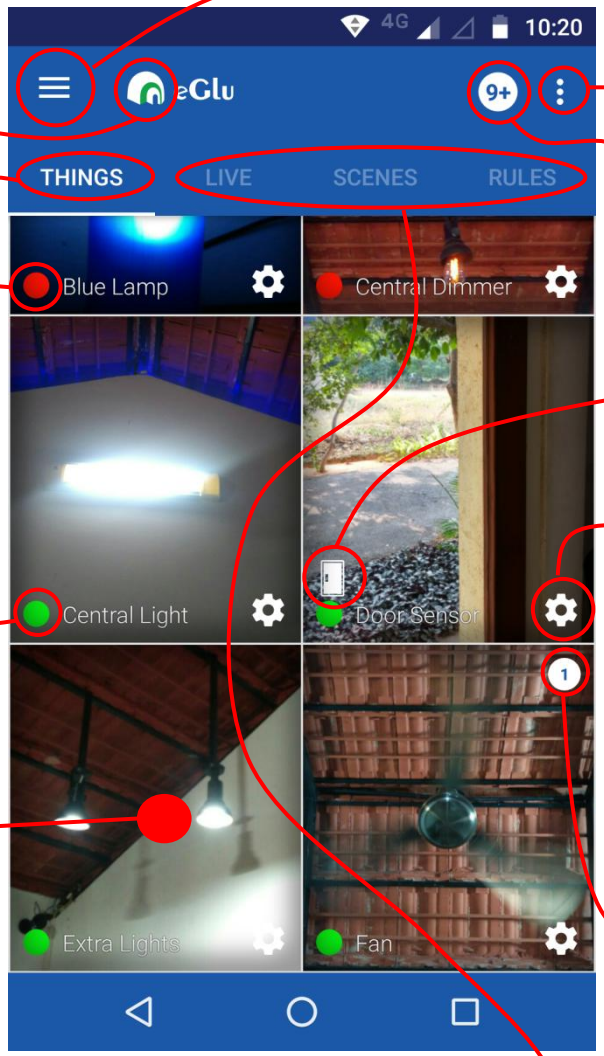
Pressing the centre of the tile turns on/off a device or enable/disable a sensor

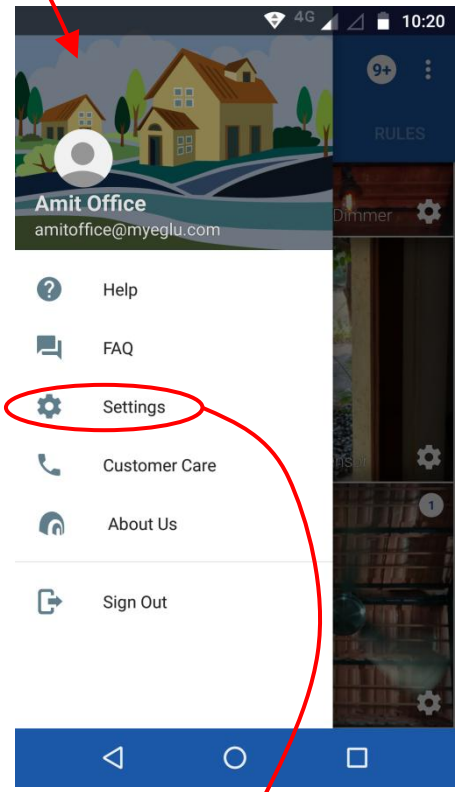
Device Settings can be used to customize the tile, check device health and select device specific settings

Device Specific Alerts

Global Settings

TABs for Live, Rules and Scenes





eGlu APP – Device Info/Settings

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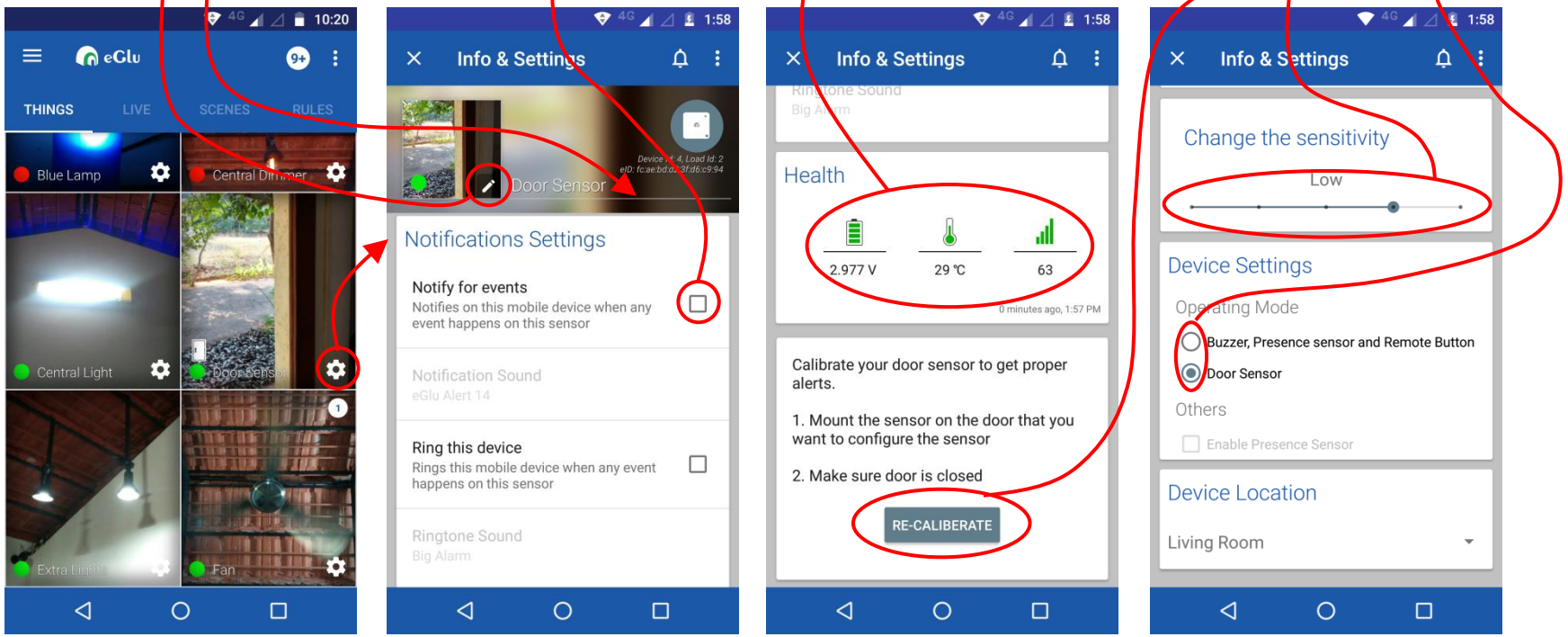
Customize the tile with picture and give it a name

Enable/disable APP notification

Device Health update every 20 minutes

Device specific settings like mode settings, calibration etc.



The above example is for a TAG being used as door sensor

Each device tile can be customized with a picture and name

Notifications for activities on a device can be turned on or off

Various modes and settings of the device can also be configured

Device health includes battery voltage, temperature and signal from HUB

eGlu APP – Creating Scene

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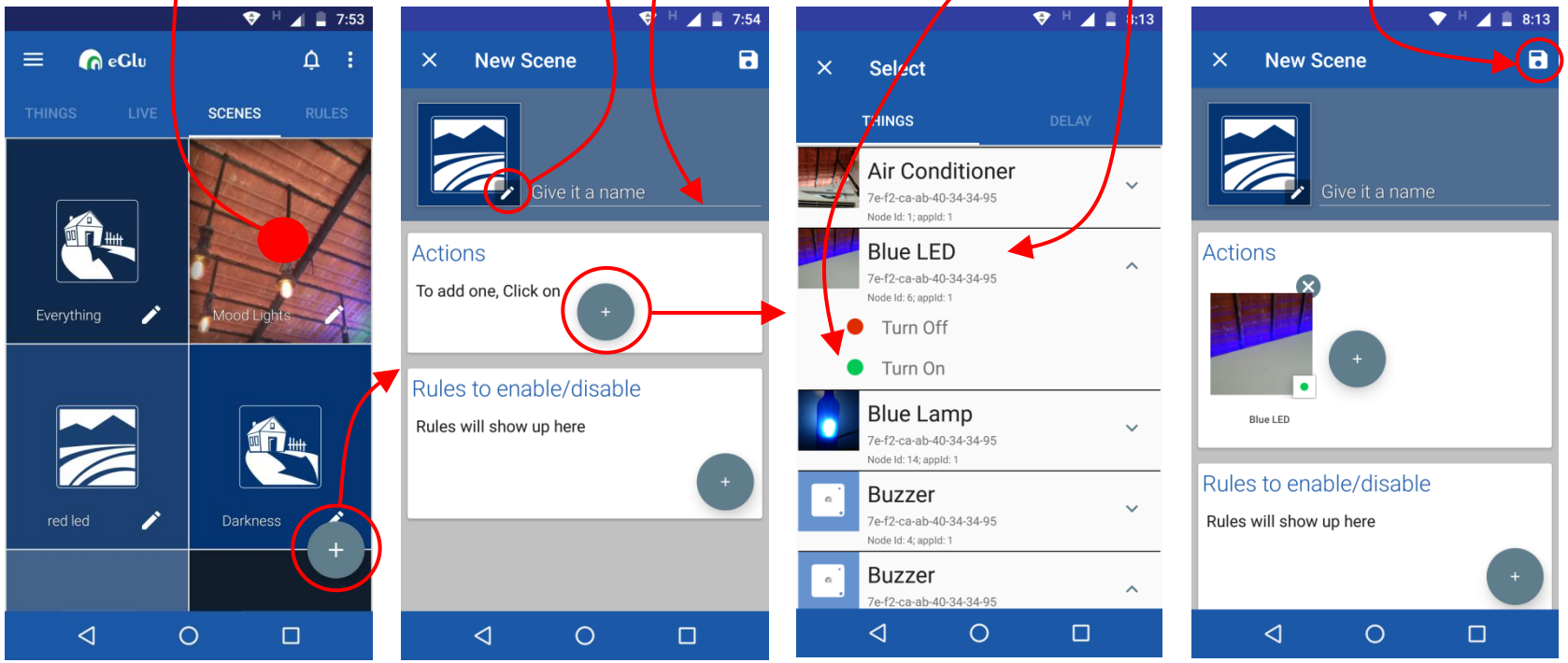
Press the tile to execute the scene

Customize the Scene Tile and give it a name

Select the Device and the Action

Add other actions and save the Scene



A **Scene** is a shortcut to multiple actions, all of which will execute together

Scene also allows enabling/disabling of **Rules** for various applications

A **Scene** can be executed by pressing the tile or can be scheduled using a **Rule**

Each Scene can be customized by a picture or icon and a name

A **Scene** can be created only when internet is available

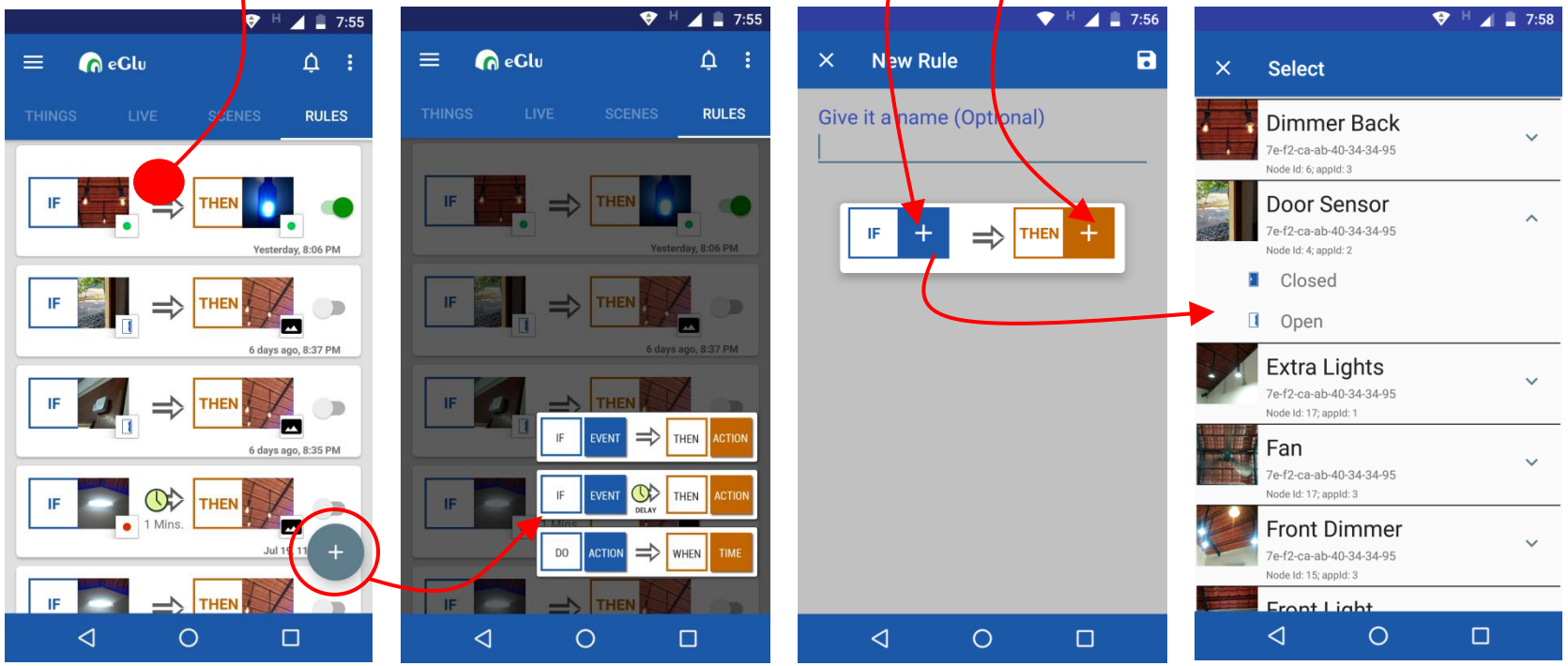
eGlu APP – Creating Rule

Click at the centre to edit an existing rule

Choose the kind of rule you want to make

Choose "IF" Event from the selector and "THEN" action

Finally, give a name and save the Rule



There are three kinds of Rules: (1) *Action on Event* (2) *Delayed Action on Event* and (3) *Scheduled Action*

Rules are very simple and intuitive to create for customized applications

Each rule can be individually enabled or disabled

Rules can be created and modified only when internet is available

eGlu APP – Adding IP Camera

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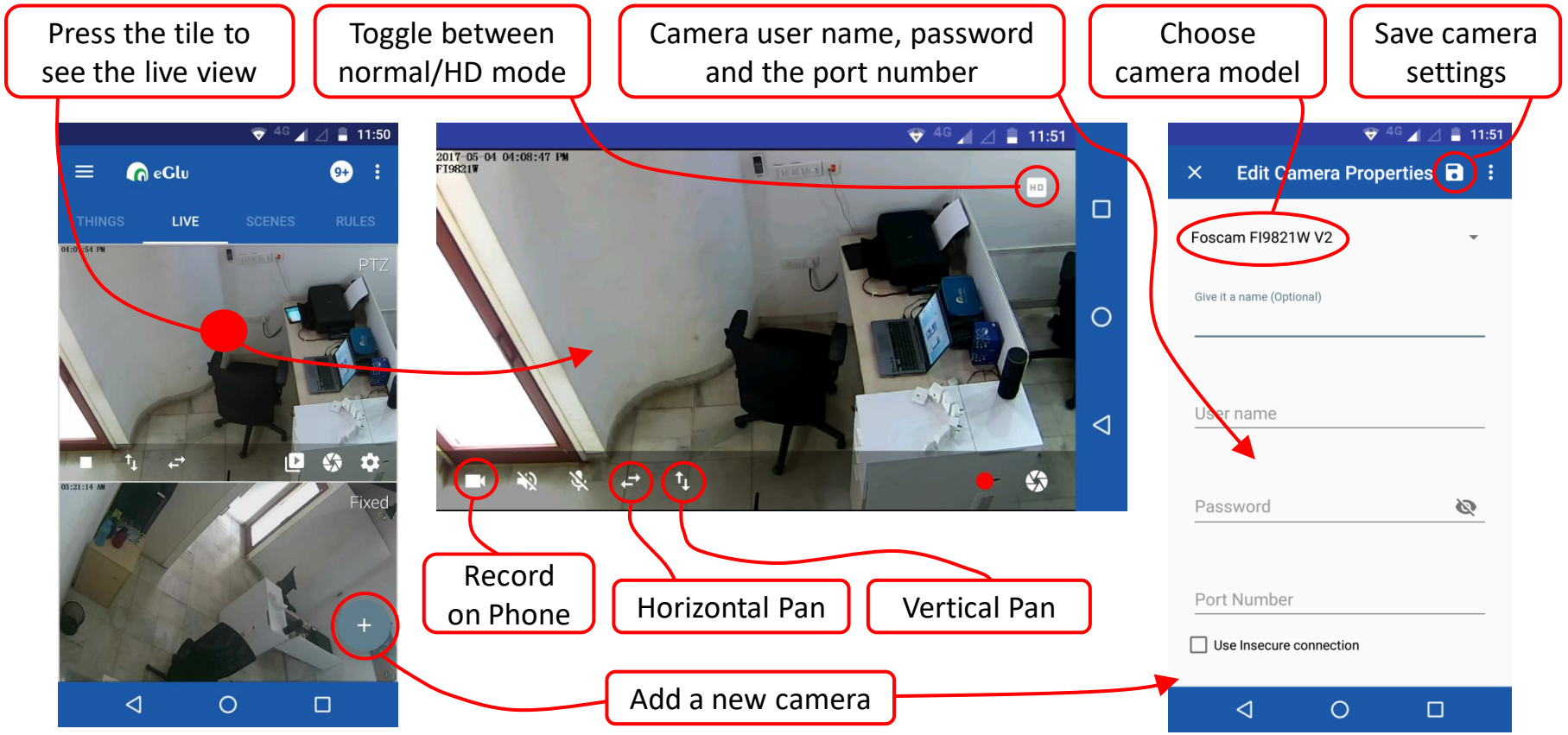

IP Camera can be directly added into eGlu APP for remote viewing

To do that the camera has to be installed on the same Wi-Fi network as eGlu HUB

The installation includes LAN IP assignment as well as port forwarding in the router

Some ISPs do not provide external IP address. This feature will not work with those ISPs

eGlu APP – Rooms View

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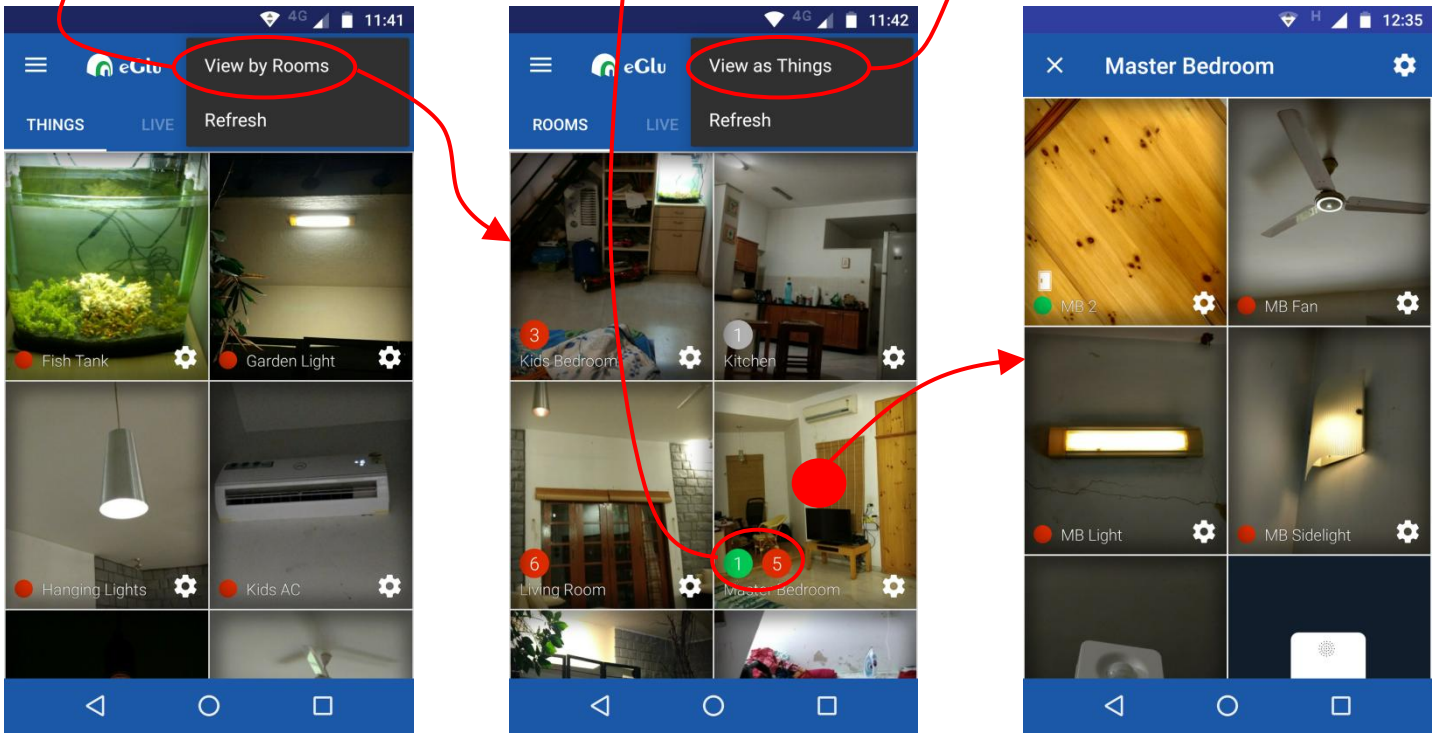
To go to the "Room View" select "View by Rooms"

Each room tile shows how many devices are or, off or offline

You can get back to "Things View by selecting "View as Things"



By default, few standard rooms are provided in the APP, which can be edited

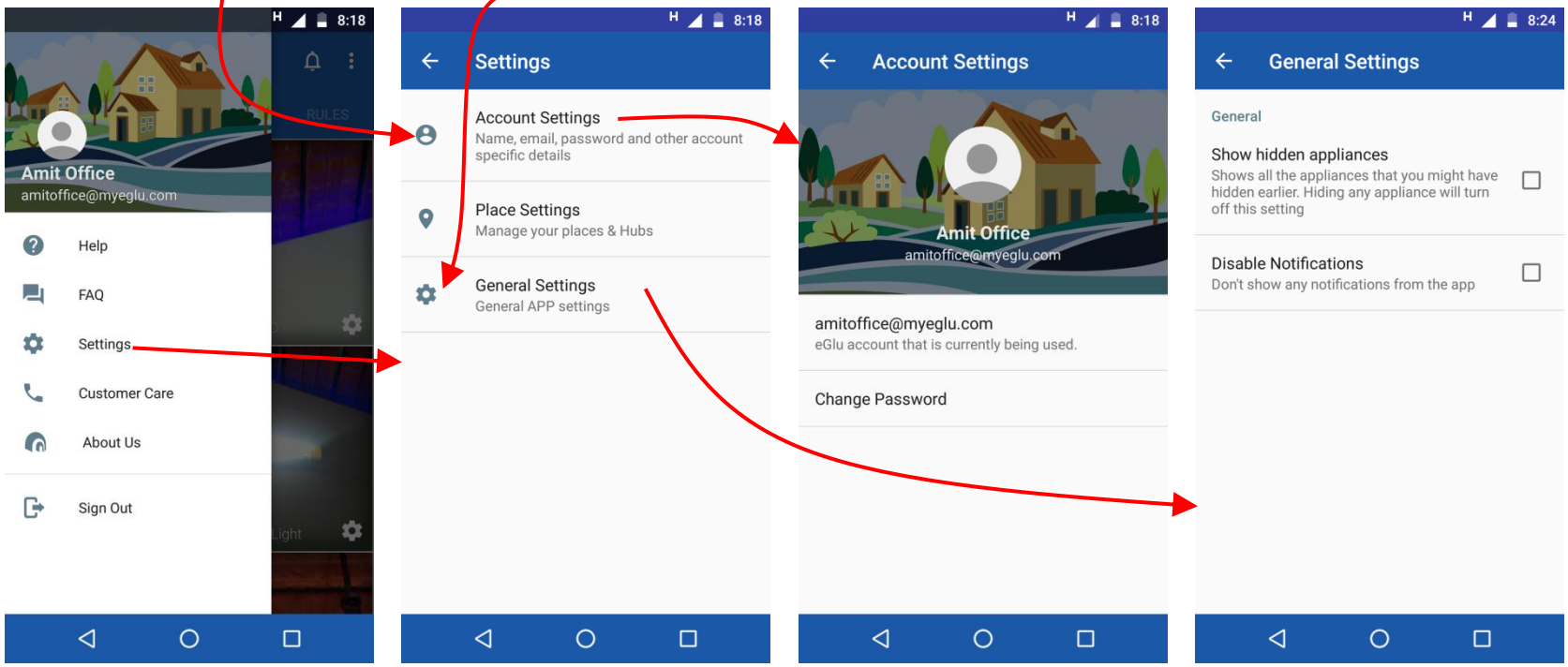
New rooms can be added any time by clicking the '+' button

Each room can be customized with a picture and devices can be added under it

eGlu APP – Global Settings

Account Settings to update user details, change password

General Settings have option to disable notifications globally and also to show/hide devices in the main dashboard



Global settings consists of *General Settings, Place Settings* and *Account Settings*

General Settings has option to disable all notifications and hide unused devices

Account Settings allow the user to change eGlu account password

Place Settings give access to all the Places and HUBs under the user account

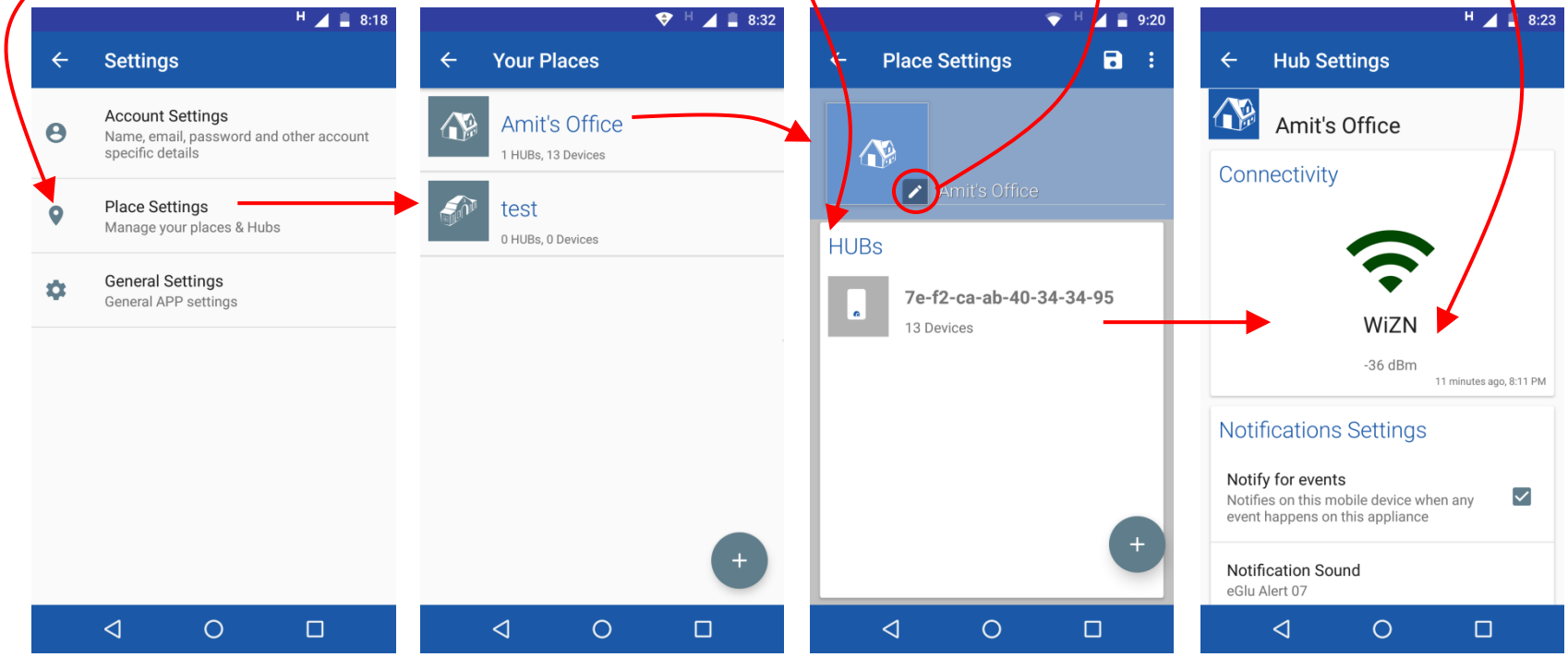
eGlu APP – Global Settings *contd..*

Place Settings gives access to multiple places user has

Each Place can have multiple HUBs

Allows editing the picture and the name

Wi-Fi SSID and signal strength of the HUB



A user can have multiple homes or places under the same account

A HUB can be installed under any of the predefined places

Each place can have multiple HUBs under it with each HUB having multiple devices

HUB settings can be accessed by clicking a particular HUB

eGlu APP – Manage Access

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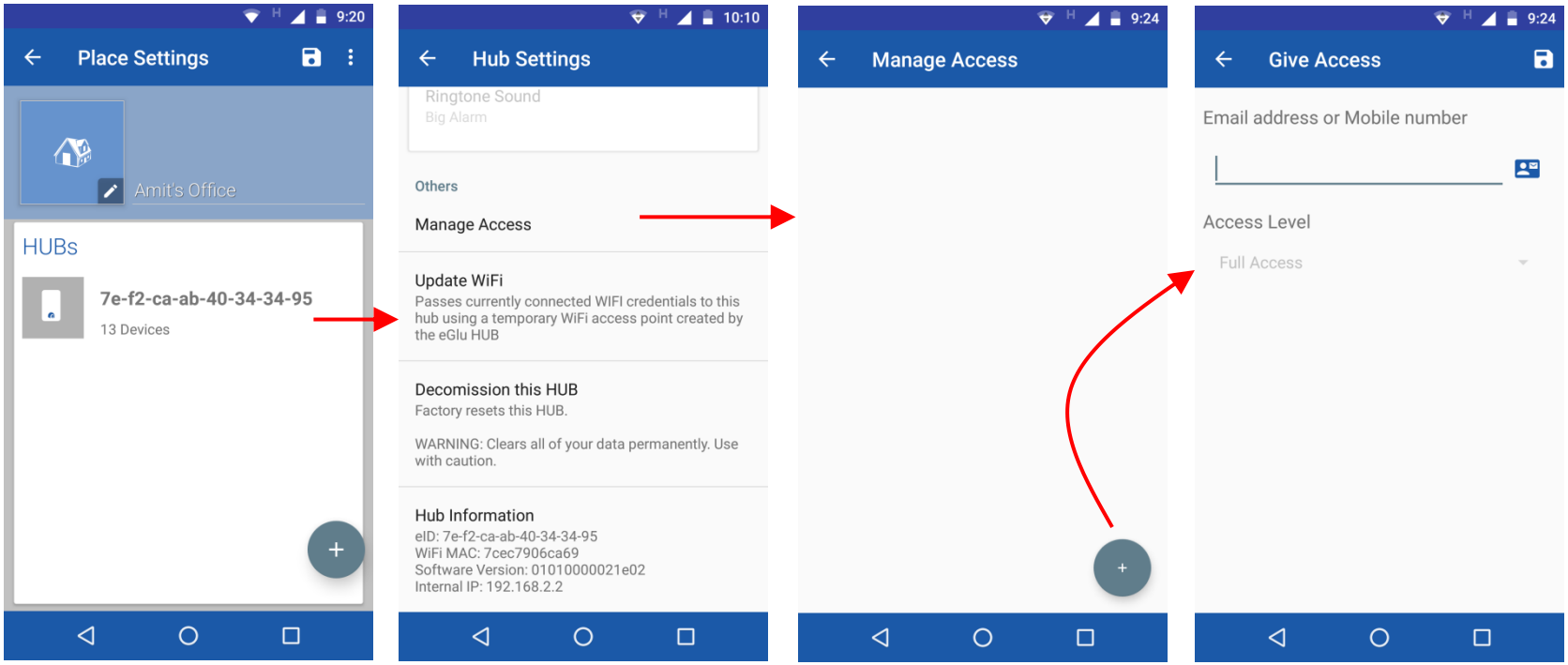

An admin user can provide access to the HUB and devices under it to another user

For this to happen, the new user should also have a verified account with eGlu

Once the access is given, the HUB and devices show up in new user's APP

This access can be revoked at any point of time by just deleting the user

The access is provided at HUB level. For multiple HUBs, it should be given individually

eGlu APP – HUB Wi-Fi Update

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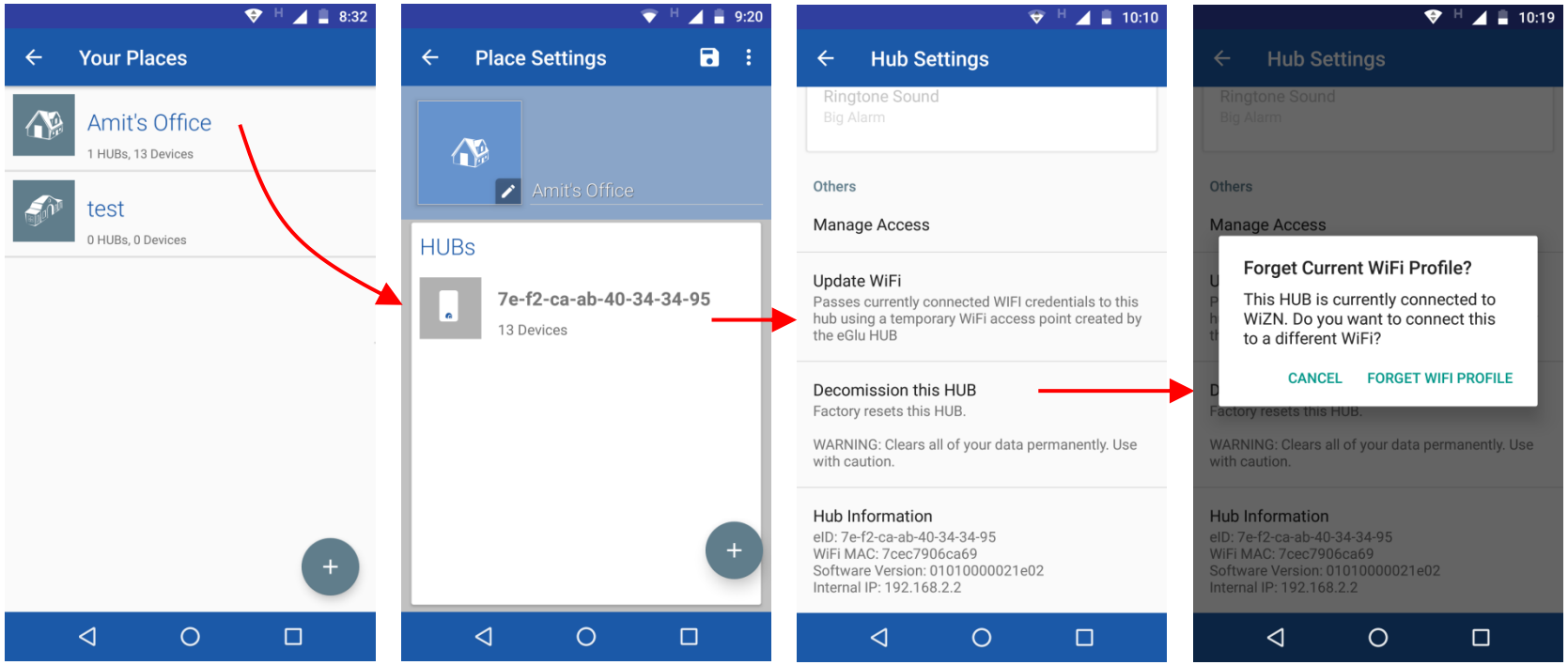


There can be a need to change the HUB Wi-Fi connectivity to a different router

This can be done by using 'Update Wi-Fi' setting under that particular HUB

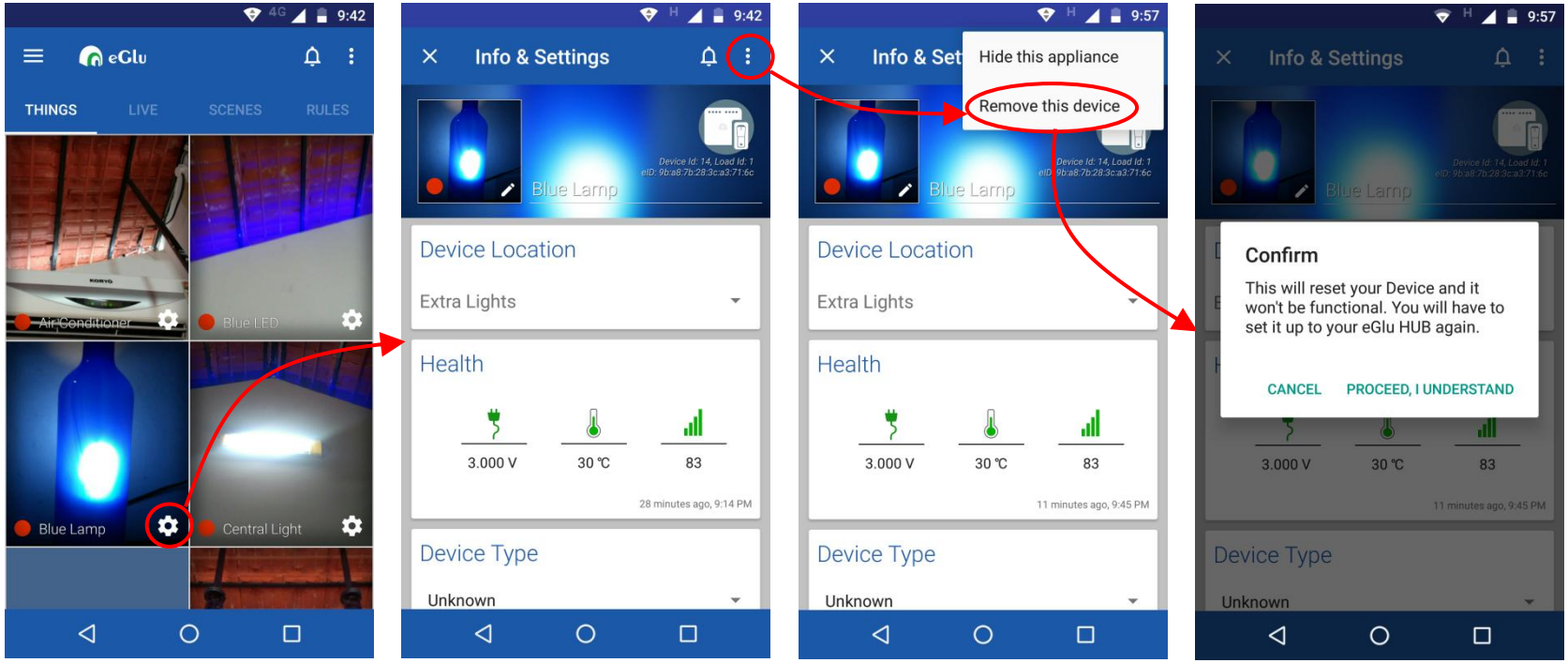
In case the router to which HUB is connected is not available, a Wi-Fi reset is needed

For Wi-Fi reset, press the button on HUB and release it only when LED blinks green

Once the Wi-Fi is reset, HUB LED indication will show blinking orange

After Wi-Fi reset, 'Update Wi-Fi' setting can be used to configure new Wi-Fi settings

eGlu APP – Device Removal



A device can be removed from the HUB using device settings

A device can be removed only when both HUB and device are on-line

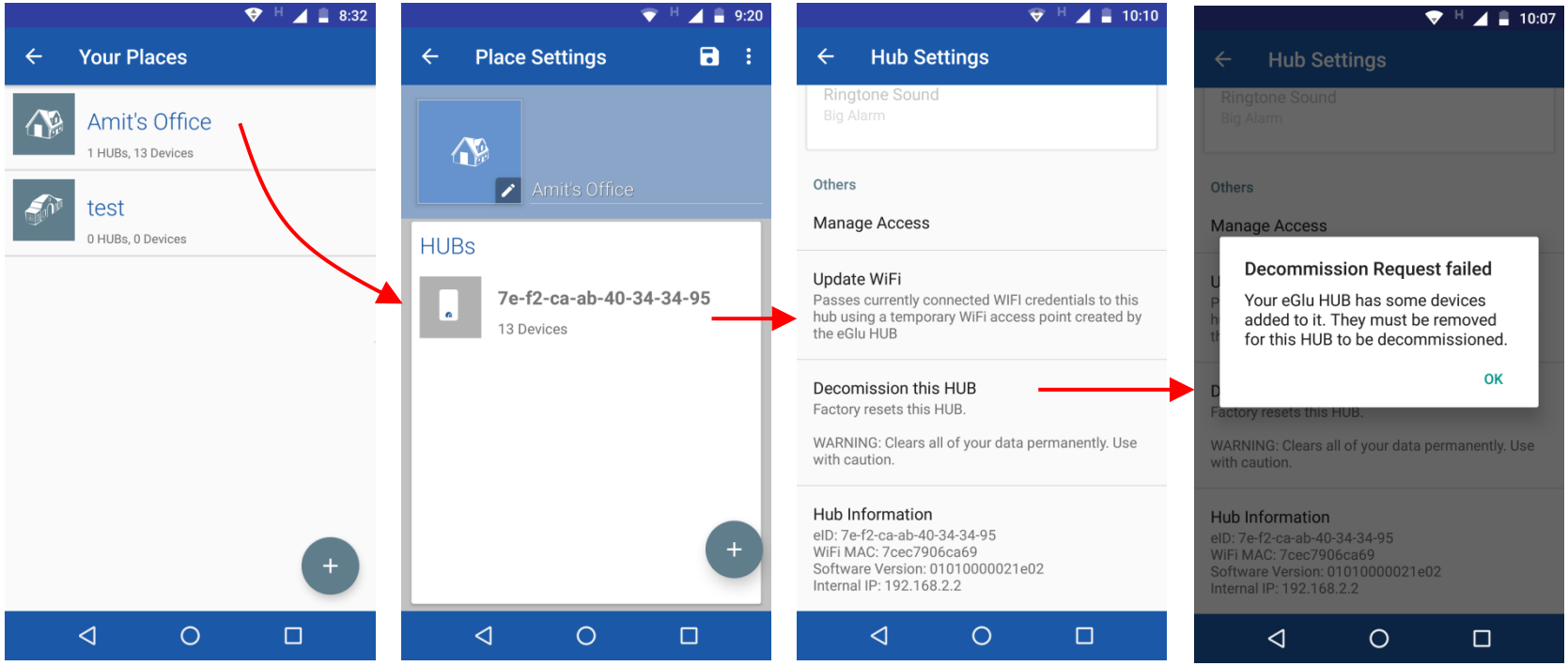
Removal of device form a HUB will also remove all the device data from the server

After removal, the device goes to factory default state and can be added again

To confirm that the device is removed, press the button on device

If there is continuous blinking of red LED, it means device is in factory default mode

eGlu APP – HUB Decommissioning



A HUB can also be decommissioned or reset to factory defaults

This can be done from the HUB settings

Once decommissioned, HUB can be commissioned to any other user account

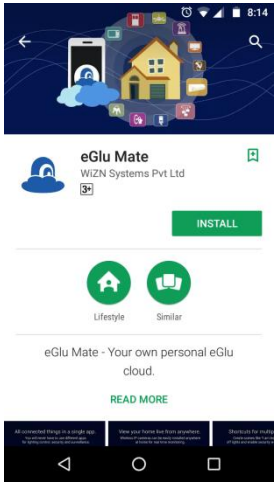
Before decommissioning a HUB, also the devices should be removed from it first

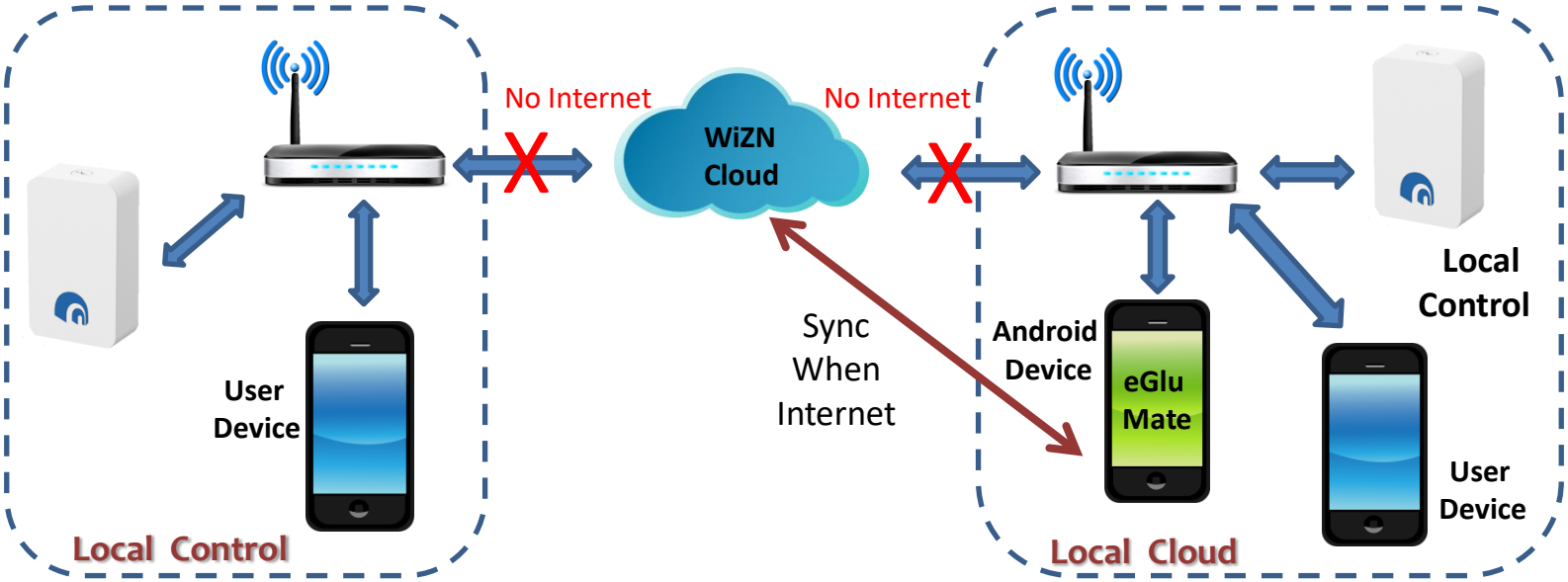
For decommissioning, the HUB should be on-line and connected to internet

Once decommissioned, LED indication on the HUB will turn to blinking green

eGlu Mate

- Install eGlu Mate on an Android Device
- Connect it to the same Wi-Fi as eGlu HUB
- Login with the same credentials
- It will locally sync user specific cloud logic
- All rules will work even without internet
- Can also make calls / send SMS to the user





Troubleshooting

Symptom	Solution
HUB and nodes are showing offline in the APP.	Check if HUB is powered. If yes, check light indication of HUB. Blinking blue light implies no internet. Blinking magenta light implies Wi-Fi router is off.
Not able to control a device from the APP. Getting failure messages.	Check the device health. If the signal level is less than 15, it implies node is losing connection with HUB. This can also happen is device is very close to the HUB, then the signal levels will be more than 60. Try to re-position the HUB or the device.
Some times my rules are not getting executed.	Currently all the rules run on our eGlu cloud. So if the internet was not available when the rule was supposed to be run, it will fail. You will see a failure message in the log. The new APP called eGlu-Mate will solve this issue, wherein the rules will run without internet as well.
One of the devices is showing offline (gray dot) and can not be controlled.	Gray dot means that the device is off-line which means it lost contact with the eGlu HUB. Check if it is not powered or the batteries are discharged. Also check the device health data to see the last reported signal level. If it is less than 15, then the distance between the HUB and device should be reduced.
Not able to see the customized pictures and names on the device tiles.	Sometimes due to intermittent internet connection, the customization data might not get downloaded fully in the APP during logging process. Use 'Refresh' option from the overflow menu to download the customization data again.
Getting too many notifications on the phone.	By default, notifications for all the devices are enabled. You can enable only the ones you are interested in from the device settings. There is a global setting to turn off all the notifications as well, if you don't want to be disturbed for some time.

Troubleshooting

Symptom	Solution
Door Sensor triggers only when the door is half open allowing someone to sneak in without detection.	Door sensing in the eGlu TAG is based on a magnetometer which senses the change in Earth's magnetic field when the door turns. Based on the position of the door with respect to the earth's magnetic field, in some cases the door needs to change its position a bit more for detection to happen. For such cases a sensitivity setting is provided in the TAG's device settings. You can make the sensitivity high to reduce the threshold of the door opening.
Motion Sensor does not detect human presence.	The eGlu Motion Sensor is based on a PIR sensor. It detects change in the infra-red (IR) radiation which is reaching it. Hence it can only detect motion of an IR radiating object. Also for proper detection the movement has to be across the Motion Sensor. Place the Motion Sensor in such a way that the person will always cross it so ensure proper detection.
Motion Sensor detects false motion.	Motion Sensor can get triggered with a sudden bright light, a warm draft of air near it, very high level of electro-magnetic interference or movement of an living being like rodent very close to it. Install the Motion Sensor at a place where all these possibilities can be avoided.
Motion Sensor is always showing detection.	The Motion Sensor is designed for in-door applications. If placed outside the house, it can keep getting triggered because of change in background temperature, movement of trees and passing by objects.
Not able to find a device in the dash board which was installed earlier	Each device tile can be hidden in the dashboard by selecting **Hide this appliance** or **Hide this Thing** from the overflow menu in the device settings screen. This could be the reason. Go to the **Settings->General Settings** and chose **Show Hidden Devices.**

Thanks

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For more information or any queries, please contact:

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