smart and green
NOMAD LIGHTING
BLUETOOTH
USER GUIDE

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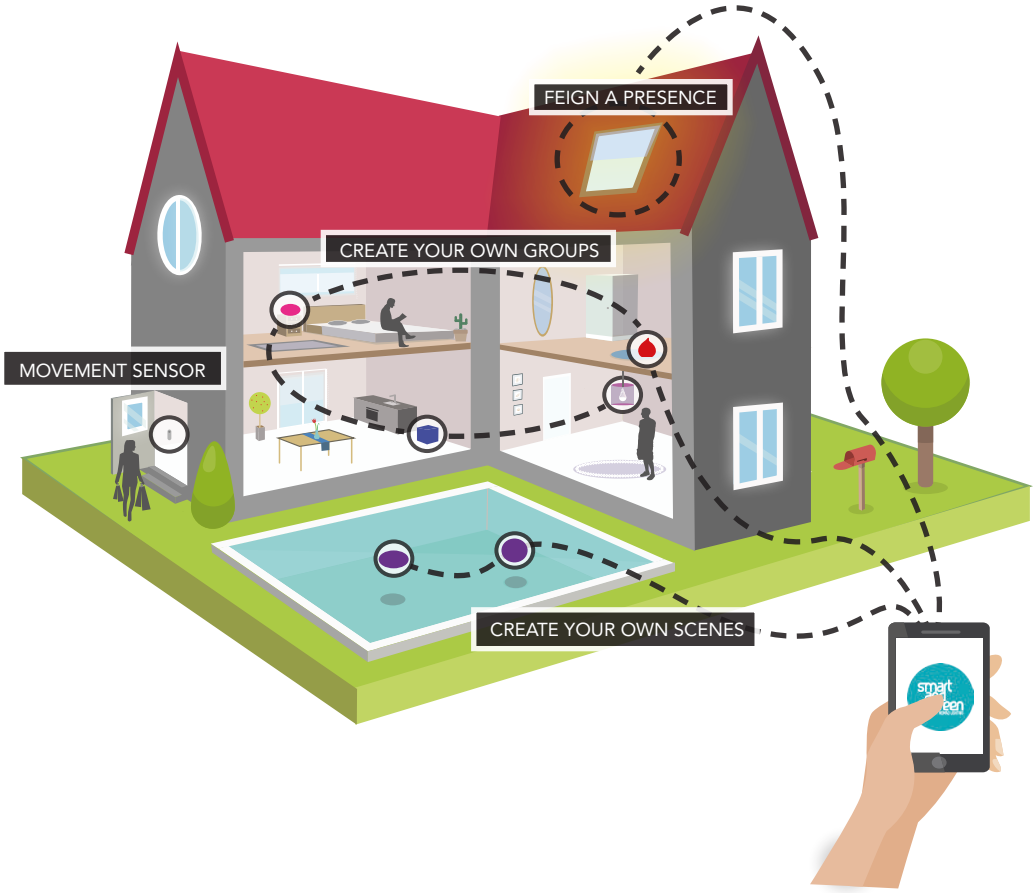
Welcome to the Bluetooth Mesh technology developed by SMART AND GREEN!

We are here to help you get you started in using your devices. You will find below all the tricks to use the tools at your disposal correctly.

MESH TECHNOLOGY



This Mesh technology is developed by CSR and operates on Bluetooth Smart (BLE) or Bluetooth 4. This is the Bluetooth used on most current Smartphones. For a more detailed list, see below.

In other words, the connected devices can communicate with each other either directly, if they are within range of one another, or via one or more nodes.

When people think of Bluetooth, usually it is music or control of the car that comes to mind. With this new protocol, whole new world opens up to us. Access to the Internet of Things (IoT) and connected homes is now available. Think of connected houses and beyond these there offices and open space. With the Mesh, it is now possible to control an entire building without moving from your chair; the only limit is your imagination.

This Bluetooth Mesh is not encumbered by the problems with the so-called star network. They had a limited number of targets and limited scope.

The network no longer has a centrepiece and there is no need for a router to manage the flow of information or repeaters; the devices run it directly. Each device in the system can relay information to its nearest neighbour. With this interconnectivity between lamps, as long as two objects are connected to the same network, they can communicate. The scope guaranteed by the Bluetooth is 10 m and may extend 20 m in an open field.

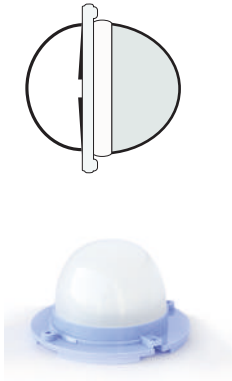
PRODUCT RANGE

BULB

The first cordless bulb to inaugurate this concept, which has already evolved towards better optical qualities, high autonomy and unmatched reliability. Its charging station easily accommodates the bulb and its diffuser so that your lamp illuminates your interior while charging.

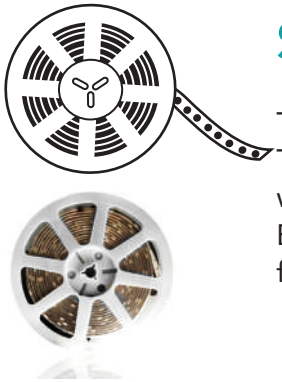
BULB-E27

The first connected bulb of the SMART AND GREEN range. This LED bulb uses less energy than a conventional bulb. In addition, you can control the color, the brightness and other aspects of your E27 light bulbs thanks to this Bluetooth technology.



BULBLITE

This bulb benefits from the expertise of our engineering teams. Small and independent, it fits into numerous table or garden lamps. In addition, its unique mounting system allows you to suspend it while remaining watertight.



STRIPLED

This is the latest SMART AND GREEN innovation. This indoor or outdoor light band associated with the control box, is now controlled remotely. Equipped with an adhesive kit, this bright band is fixed to the walls while remaining discrete.

IC AND SMARTMESH®VERSION

There are two versions of the SMART AND GREEN Bluetooth mesh: IC and SmartMesh®.

You need to make sure which version you have before you start using your SMART AND GREEN products. It's a very import detail because it will determine which APP you will download and how it works.

Turnover the following products and check the marking on the bottom: Bulb, BulbLite and you will either see -IC or -MESH after the name of the product (BULB-IC, BULB-MESH, BULBLITE-IC ou BULBLITE-MESH).

Once you have checked this, go to the respective page in this manual to learn the next steps. The BULB E27 is the IC version.

IC Version

Mesh Version

SmartMesh®

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IC VERSION

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DOWNLOAD THE APP

Available on the App Store

COMPATIBLE WITH

- iPhone 4S, 5, 5S, 5C
- iPad 3e and 4e gén., Air
- iPad Mini and Mini Retina
- iPod 5e and 6e gén.

GET IT ON Google Play

COMPATIBLE WITH

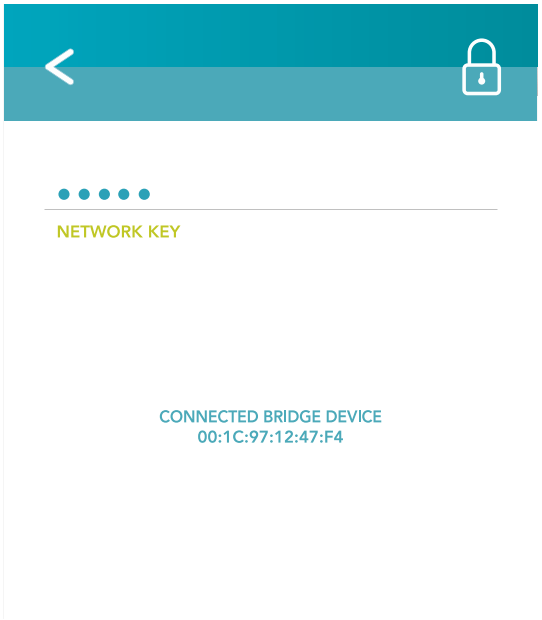
- Samsung Galaxy S3, S4, S5
- Samsung Galaxy Note II and III
- Google Nexus 4, 5, 7
- HTC One

Update

SMART AND GREEN is a complete system of connected devices. The application updates to accept all the new available tools. All remarks to improve the ergonomics of the latter will also be taken into account in its development.

FIRST CONNECTION

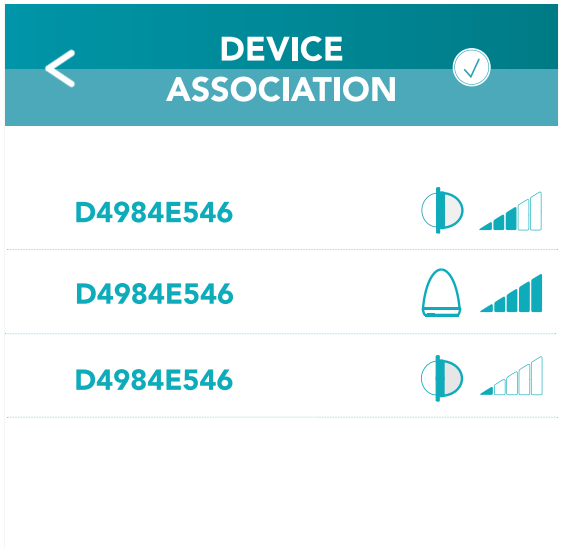
On first use of the application, you will be immediately redirected to a security page. You will then enter an activation key. This is the password the first user needs to connect the devices. It must contain a combination of letters and/or numbers not exceeding 10 characters. Do not lose it; you need to re-connect to the network or to add users.



Default password

The default password is 0000. For better security, we highly suggest you to change this password.

Once connected, you will reach a device selection screen. These appear on a white background. This is all devices within a 10 m range of your phone; the closer the device, the more the connection gauge is full.



The type of device also appears (BULB-IC, BULBLITE-IC, BULB-E27 or STRIPLED) as an icon next to the connectivity gauge. When you click it, a window appears with a progress bar. The unit flashes yellow the device is added.

Once done, your Mesh Network is created and all your added devices are connected.

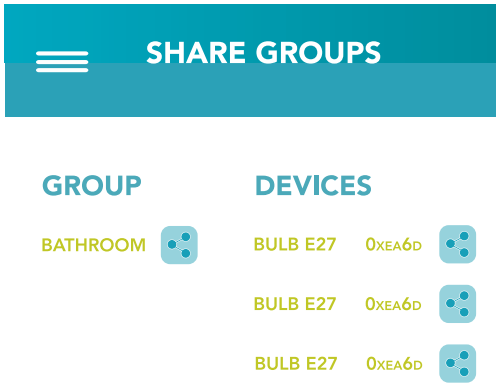
CONNECTING A SECOND DEVICE

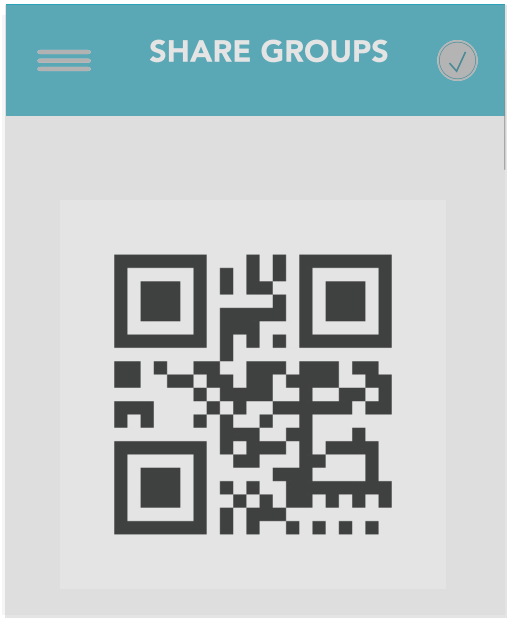
As seen earlier, the first connection allows you to connect SMART AND GREEN Bluetooth products with your principal smartphone or tablet. Once this first device is connected, other devices will not be able to connect unless this first one allows it. Once this is done through our innovative QR code sharing system, more than one device will be able to manage your products.

FIRST STEP: GENERATE THE QR CODE

The first user can generate a QR code in the menu «Settings»/«Share authorization». On this screen, you can choose single products or groups to which you would like to share access and generate the QR code.

Click on the icon next to a product or group and then generate the QR code. You can then do this again to share other products or groups.





SECOND STEP: SCAN THE QR CODE

In order to scan a QR code with the SMART AND GREEN app, first go to the main menu and click on «New device». From here, you just need to click on the QR code bar at the bottom of the screen. Then scan the QR code from principal smartphone or tablet to be able to add that it is allowing you to add.

Please note that a second smartphone or tablet can generate a QR code and authorize other devices to use SMART AND GREEN products. It can also create and modify in it's own network of products.

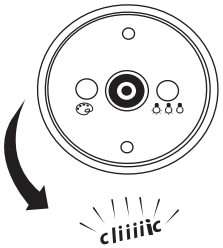
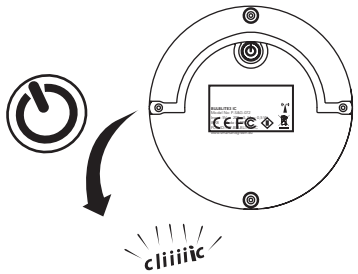
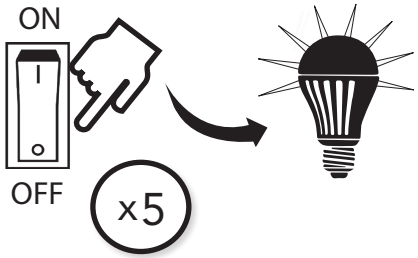
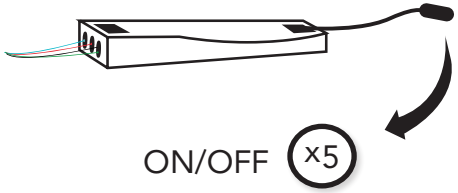
Important Note

If this is the first time you are using a QR code, the SMART AND GREEN app will connect you directly with Google Play or the App Store so that you can install a barcode scanner that will allow you to scan QR codes.

RESTART THE PRODUCTS

A restart system for each product is in place. If the primary user loses his phone or a device is no longer available due to all sorts of problems, simply follow these steps to restart the products:

You can then add the product from the paired devices.

BULB-IC	BULBLITE-IC	BULB-E27	STRIPLED-IC
			

ADD DEVICES

You can add new products to the Mesh network.

To do so, in the left menu, select «Pairing». You are redirected to the device pairing page. You are not required to enter the password again as it is the same one as for your Mesh network. If you want to change the password in the menu on the left of the screen, select «Settings» then «Security Setting».

Warning

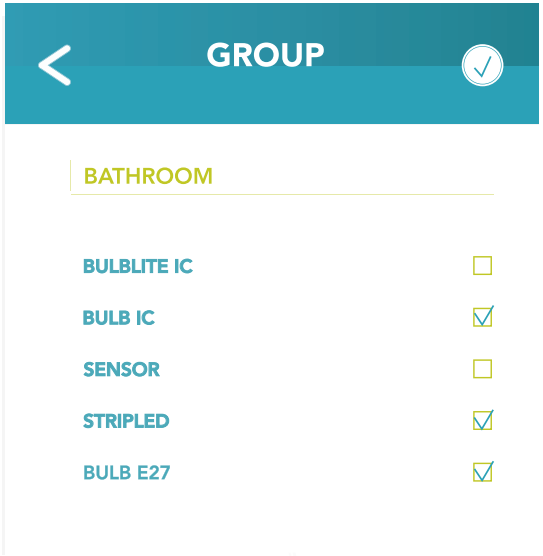
To avoid any kind of problems when sharing connections, it is strongly advised to connect all devices with the same Smartphone, called the «principle» and then share and distribute access to all other Smartphones, called «secondaries».

MAIN MENU

GROUPS

A group is a collection of devices connected to the same Bluetooth network. Thanks to the SMART AND GREEN application, you can create, control, modify and delete groups. By controlling a group, you change the colour, light intensity, create events and scenes for each device assigned to this group.

To create a group, go to the «Group» menu. Then, by clicking on the cross, the following page appears.

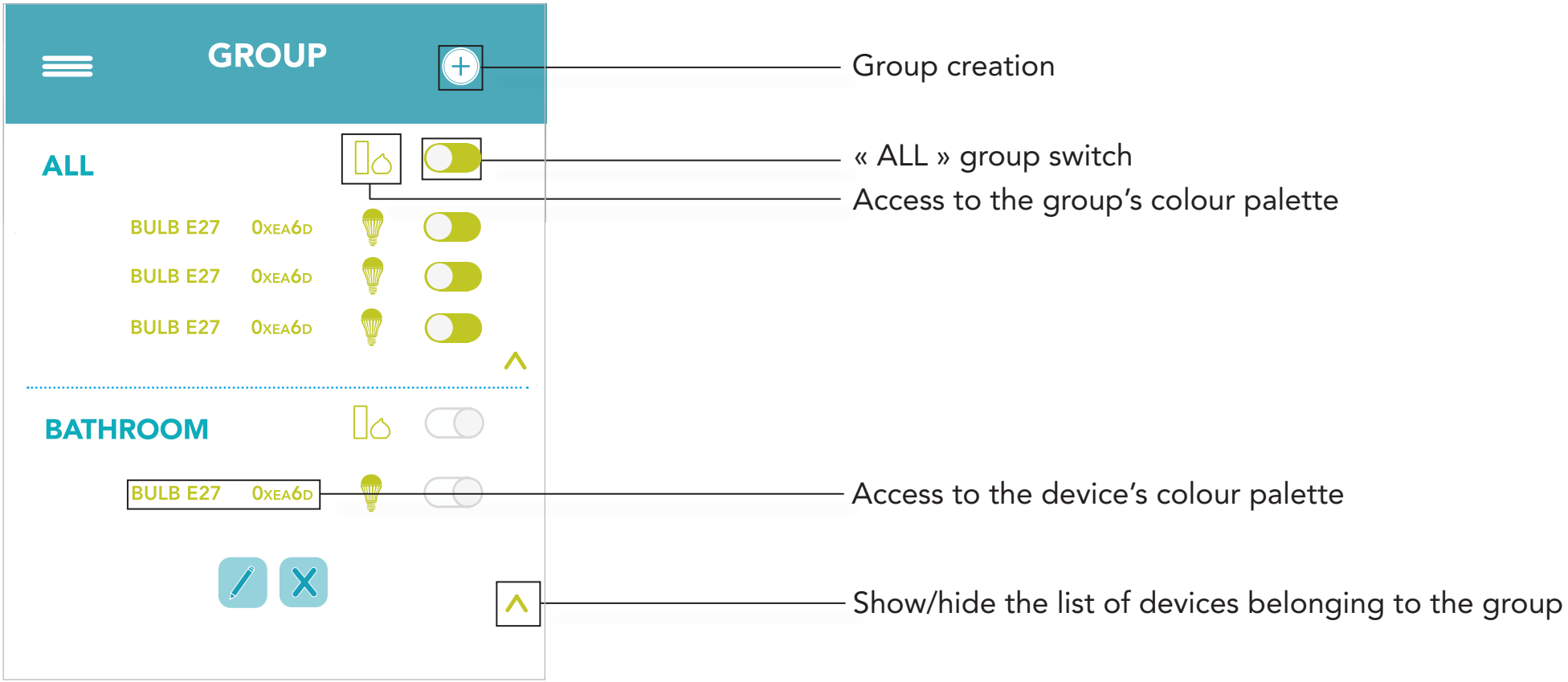


You can choose the group name and the devices assigned to the group you want to create. Then, simply validate it.

You can easily create as many groups as you like to better control your Mesh network. A default group is «ALL». This group contains all devices assigned to the Bluetooth network.

GROUP CONTROL

Use the switch on the right of the screen to switch the devices on or off. By clicking on the name of a device or by clicking on the icon, you are redirected to the colours and ambiance palette. You can control the colour of the group or the selected device.

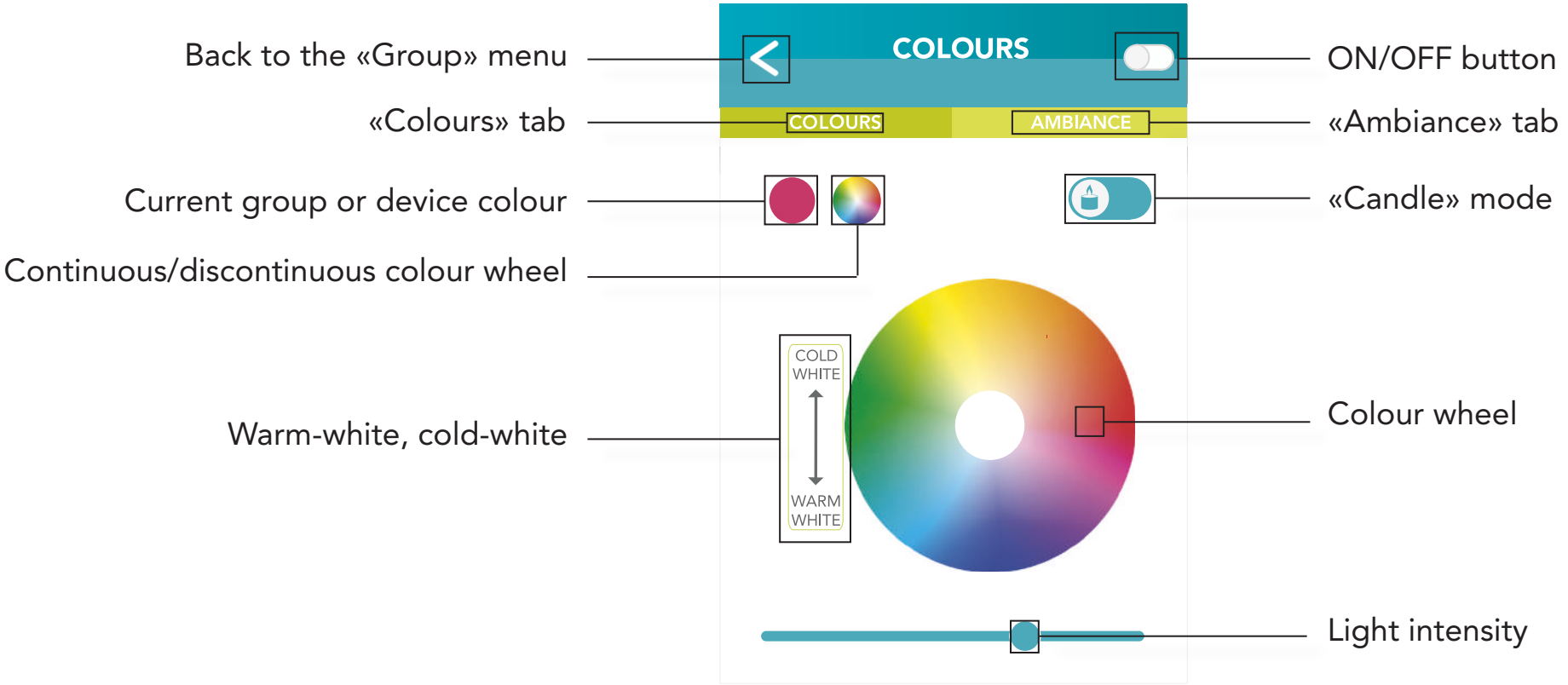


COLOUR PALETTE

On the colour palette screen, you can change the colour of the group or the device you have selected. To change the colour, three objects are set up:

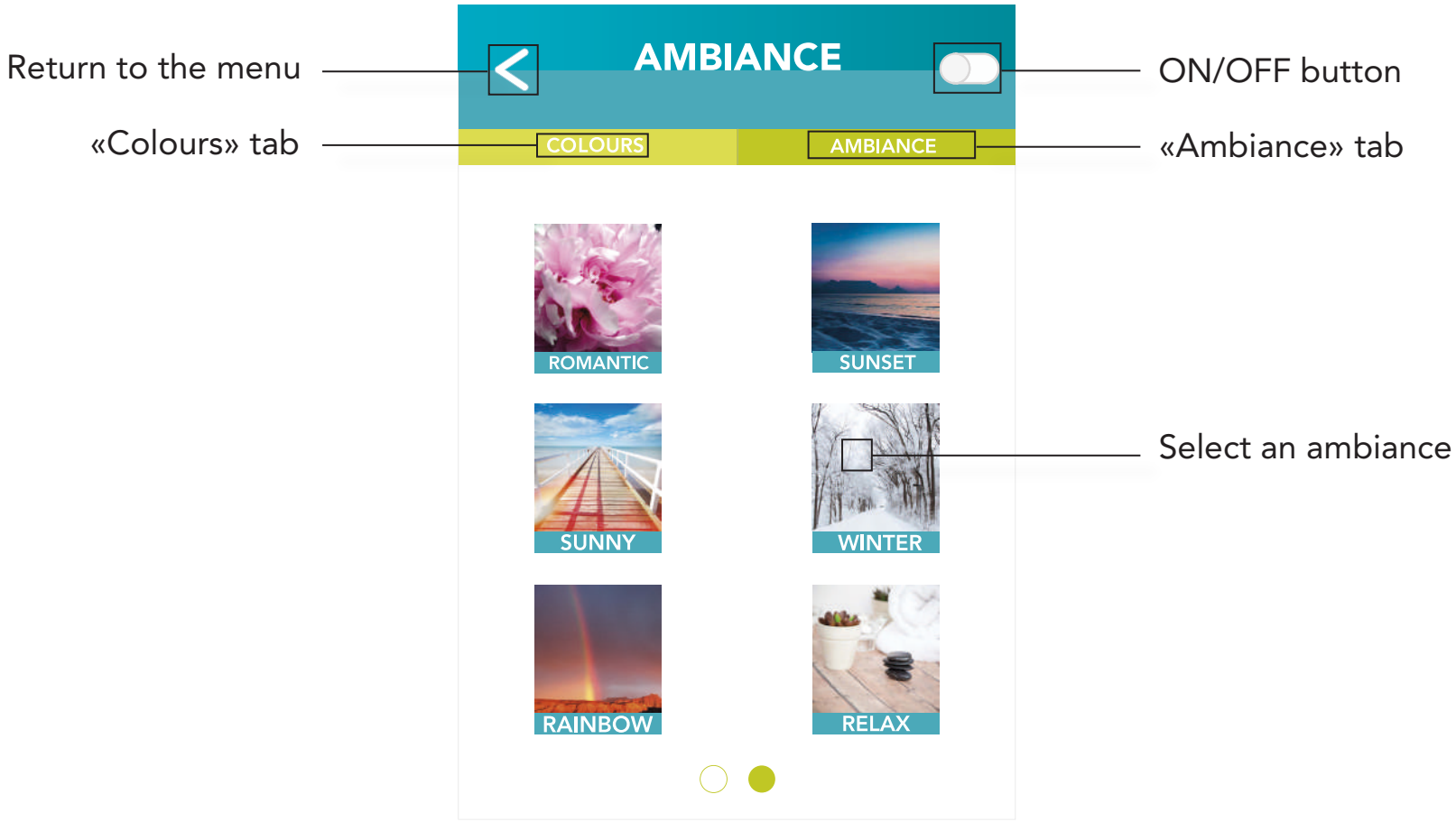
- the conventional wheel with 7 colours
- the continuous wheel
- the warm-white, cool-white bar.

You can also adjust the brightness and activate the «candle» mode. In the «Atmosphere» tab, you can select a theme corresponding to your environment.



AMBIANCES

The «Ambiance» tab allows you to select a theme. This theme is an arrangement of predefined colours. For example, the «Rainbow sky» atmosphere cycles through the colours over time, while the «Romance» atmosphere gives a pink and pure colour to the environment. The ambiances act somewhat as favourites by letting you choose a colour or colours for very common uses: reading, resting, waking up, going to bed, etc.



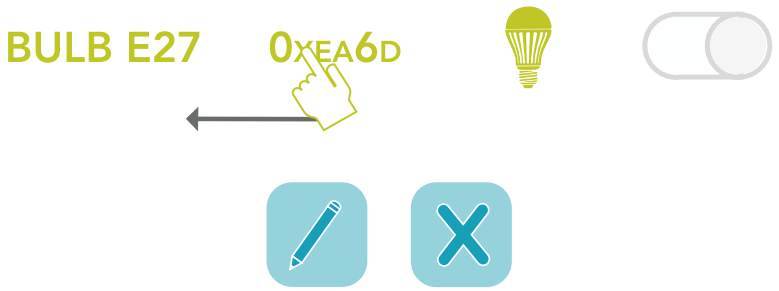
AMBIANCES

Ambiances are used to change the state of a lamp over time. They are often accompanied by a particular effect that we cannot reproduce. They are also available for events and scenes.

NAME	POSITION	DURATION/SPEED	COLOUR CYCLE
CHILL	Rotation of white shades		Purple, blue, green, blue, purple
ROMANCE	Rotation of red shades		Pink, red, purple
RAINBOW	Rotation of all colours		Red, orange, yellow, cyan, blue, purple
WARM	Rotation of yellow shades		Yellow
AFTER MOVIE	Increases the intensity from 0 to 100%	Duration control	Choice of colour
SUNRISE	Increases the intensity from 0 to the selected one for white shades	Speed control	Warm white to cold white
SUNSET	Reduces the intensity of the selected lamp to 0%	Speed control	From cold white to warm white
AT HOME	Low intensity yellow light	Choice of start and switch off time	Choice of colour and intensity
RELAX	Reduces the intensity of the selected lamp to 10%	Duration control	Choice of colour and intensity
DISCO	Intermittent flash	Timing control	Choice of colour
MY AMBIANCE	"Favourite": choice of colour and intensity		Choice of colour

MODIFY OF GROUPS AND DEVICES

To access the modification of a group or device, hold your finger on the name of the item you want to change and swipe from right to left. Two hidden options appear.



	« ALL »	GROUP	DEVICE
	The «All» group cannot be changed.	Redirects to the group creation page. You can rename the group and reassign the devices to the group.	Allows you modify the name of the device.
	Disconnects all Mesh network devices. In addition, all groups/events/scenes that were created are permanently deleted.	Deletes the group and all assigned events/scenes. The devices in this group are connected to the Mesh network.	Deletes a device from the Mesh network. This cannot be controlled by a Smartphone. This device does not appear in the list of groups to which it was assigned. Its removal also deletes the events/scenes to which it was assigned.

EVENTS

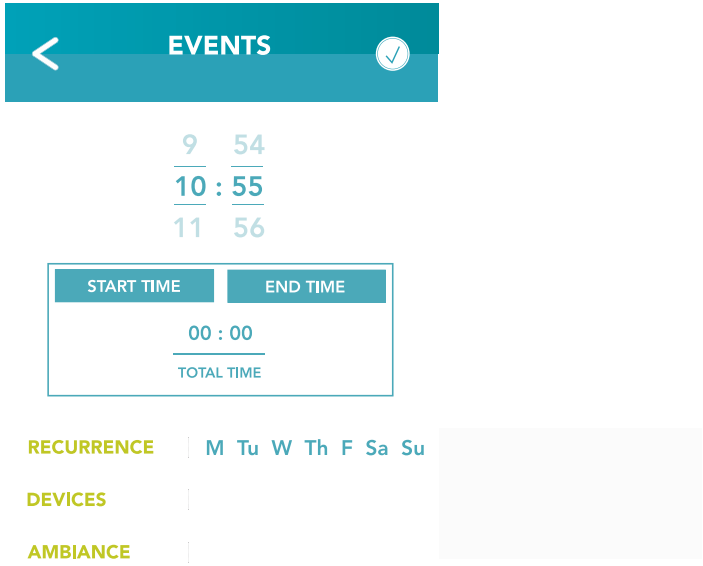
Events allow control of the switching on and off of a group or device. Once registered, the event is recorded in the device memory; you do not need to have your Smartphone close by for the event to occure.

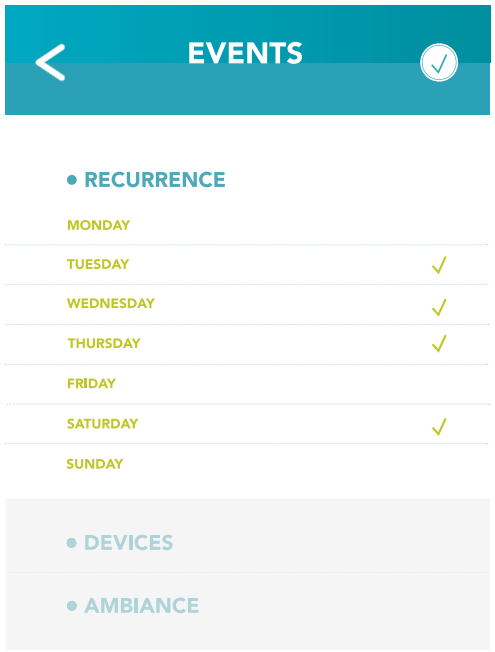
NEW EVENT

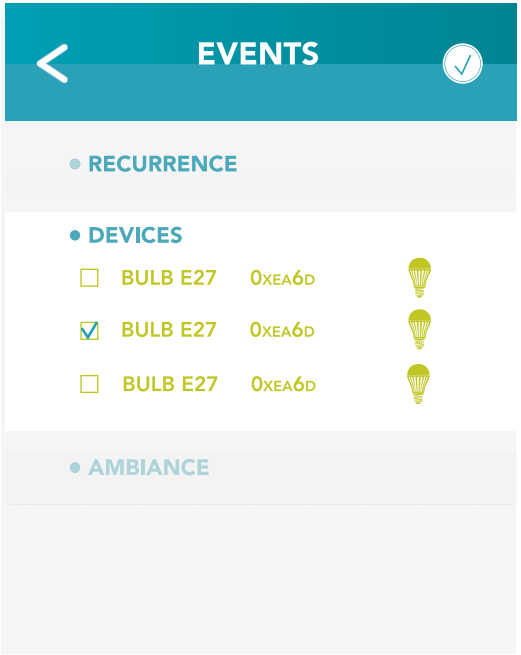
Every Smartphone can create up to 200 events. Each device can contain up to 10 alarms. However, too many events will slow down the system.

To create an event, go to the group menu and press the + in the upper right of the page. You can then set your new event:

> The event's switch on and switch off time,
> Frequency and days of the week associated with the event,
> Devices in the event,
> Atmosphere associated with the event,
> Enabling/disabling an event.







ENABLE/DISABLE AN EVENT

You can choose to disable or enable an event at any time by pressing the switch. You do not need to delete an event if you just want to disable an event.

MODIFY/DELETE AN EVENT

To **modify**: click on the event name
To **delete**: place your finger on the name of the group you want and drag it from right to left of the screen. The cross appears. Press the cross to delete the event.

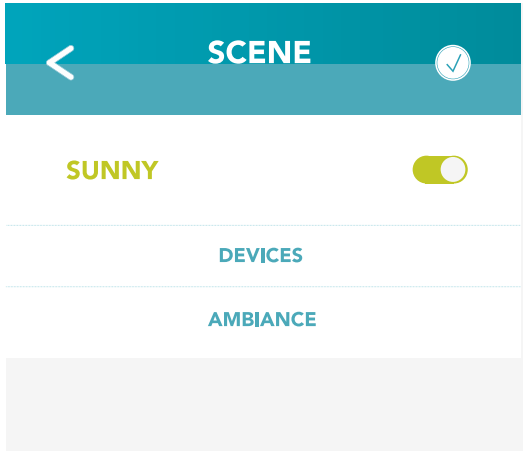
SCENES

A scene is a combination of devices or groups and a colour or atmosphere. This feature is like a favourite or a recording of a particular environment. You can, for example, in a simple click progressively light the lamps in your living room after a movie.

NEW SCENE

To create a scene, go to the «Scene» menu and press the cross in the upper right of the screen. You can then set your new scene:

> Scene name,
> Devices in the scene,
> Ambiance coupled with the scene.



USE

With the switch, you can start or stop a scene at any time.

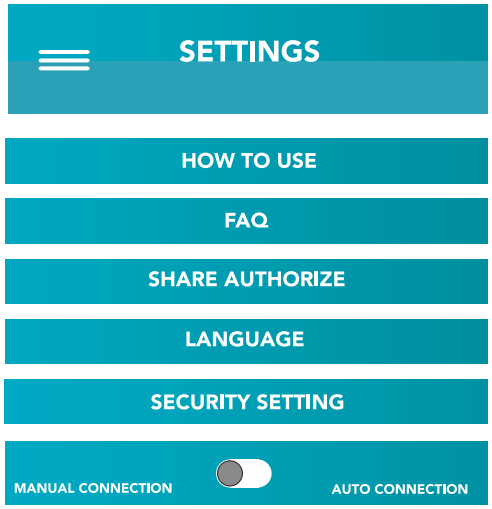
MODIFY/DELETE

Click on the name of the scene to modify it.

To delete the scene, place your finger on the name of the group you want and drag it from right to left of the screen. The cross appears. Press the cross to delete the scene.

AUTOMATIC CONNECTION

When you start the SMART AND GREEN application, it is already connected to a device: the bridge. It is the only device connected directly to the phone. It receives the commands first and then transmits them to other products. When the bridge is too far away, the Mesh connection is lost. Two cases may operate depending on the selected mode:



> **Automatic mode**
The app automatically searches for a new device with a better signal strength, i.e. a new bridge.
> **Manual mode**
The app restarts and you will be redirected to the homepage. This connection mode saves your smartphone's battery.

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DOWNLOAD THE APP

Available on the App Store

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COMPATIBLE WITH
iPhone 5 et +
iPad 3e and 4e gén., Air
iPad Mini and Mini Retina
iOS9 and +

COMPATIBLE WITH
Samsung Galaxy S6, S7, S8
Samsung Galaxy Note
Google Nexus 4, 5, 6, 7
Android 5.0 and +

Update

SMART AND GREEN is a complete system of connected devices. The application updates to accept all the new available tools. All remarks to improve the ergonomics of the latter will also be taken into account in its development.

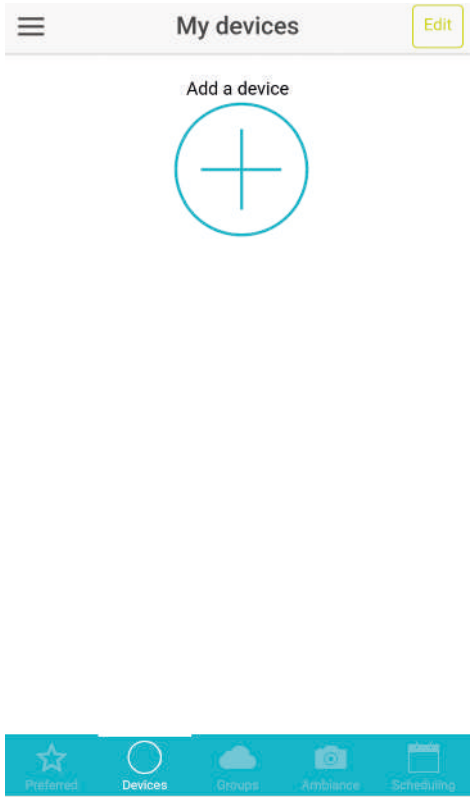
FIRST CONNECTION

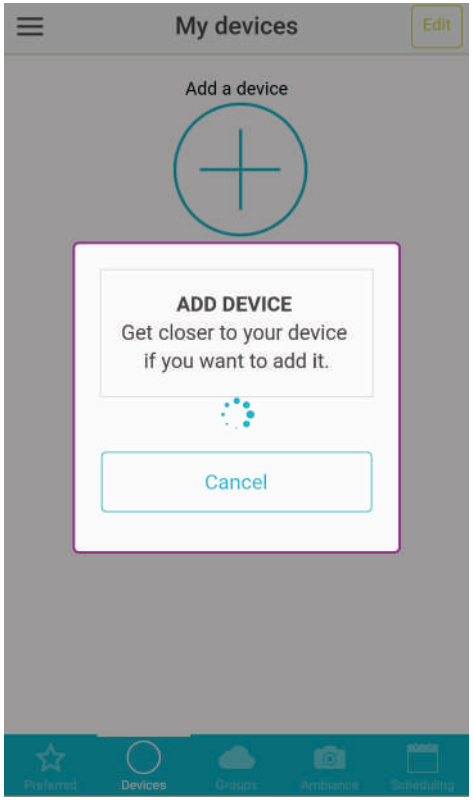
When using the application for the first time, you will be redirected to the page allowing you to connect your phone or tablet to your Bluetooth devices.

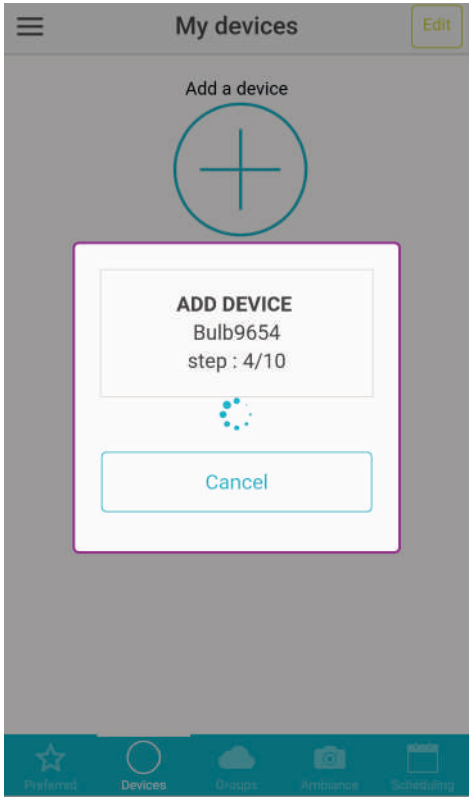
In order to connect your first Bluetooth device and start building your mesh network simply press the function «Add a device» ensuring that your device is located close to the smartphone (1.5 m in general, but this distance also depends on the quality of your phone or tablet's Bluetooth transmitter). In general, the shorter the distance, the faster the pairing.

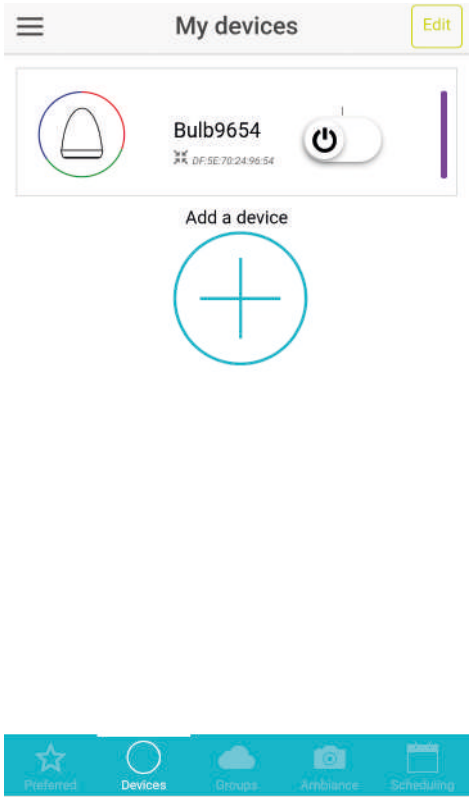
Once the button «Add a device» is selected, your Bluetooth device should briefly flash green and the pairing process displays on the screen of your smartphone or tablet. Once past these two steps you will see your device in the list located above the pairing button.

Then in order to build your mesh network you simply have to repeat the task for all your SMART AND GREEN Bluetooth products.

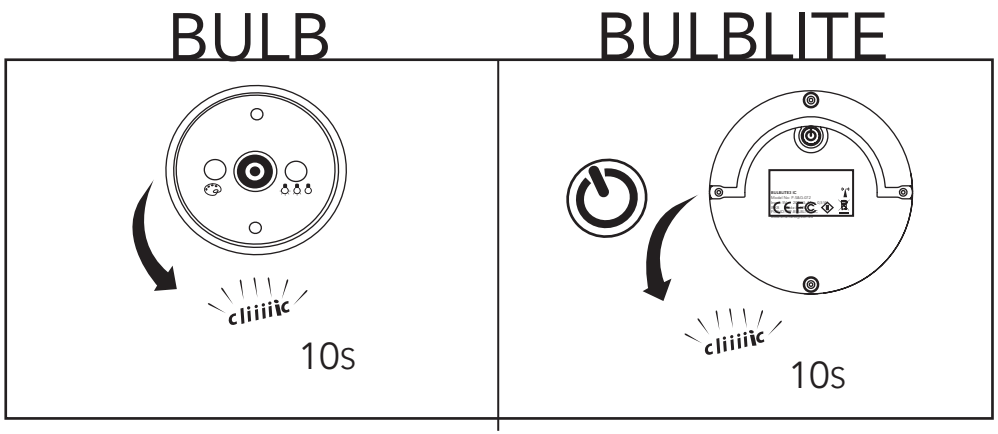








RESTART A PRODUCT



A procedure can be used to restart the products. If the user loses their smartphone or a device is not working properly for some reason despite a properly charged battery, simply follow the procedure below to restore the device to factory settings (it will also probably be necessary to delete the device causing the issue in the device listing in your smartphone's application. Please refer to the additional functions for this procedure).

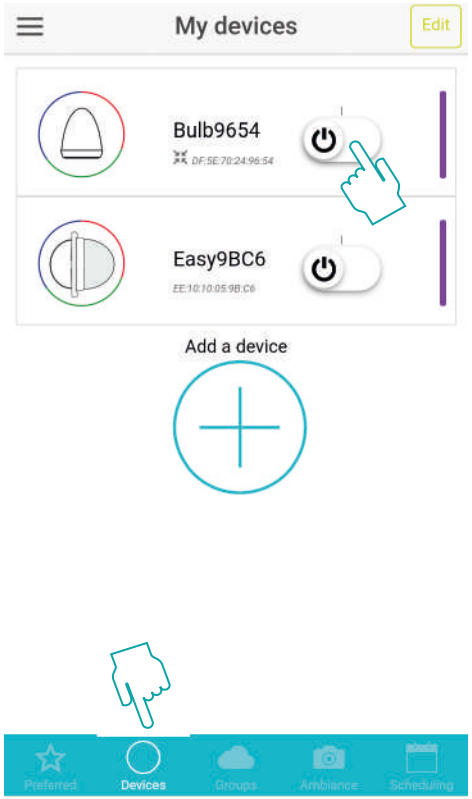
Once the process is complete, your device should flash according to the rotation of the next color: red, green, blue, white.

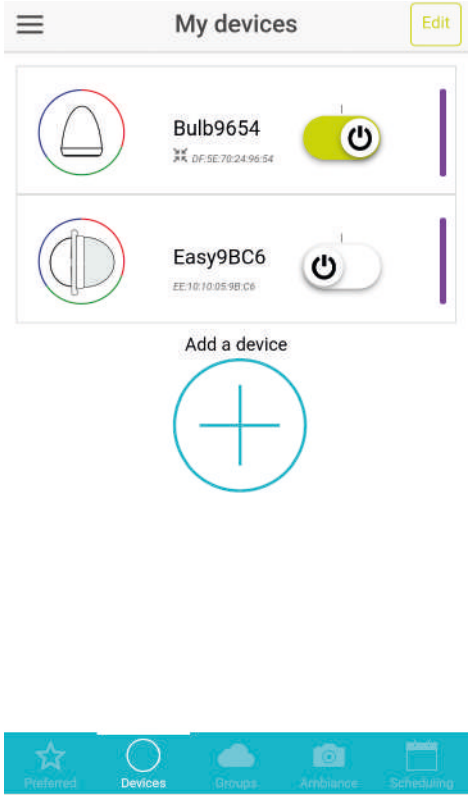
BASIC FEATURES

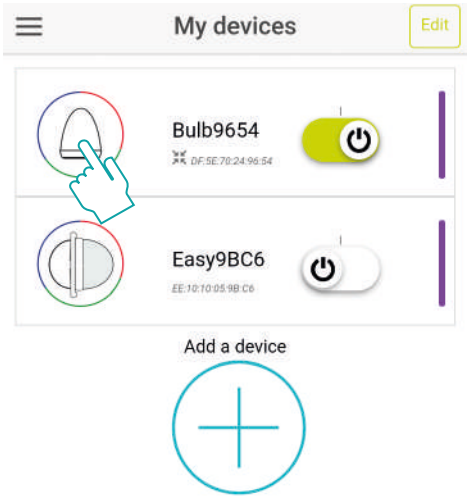
DEVICE MENU

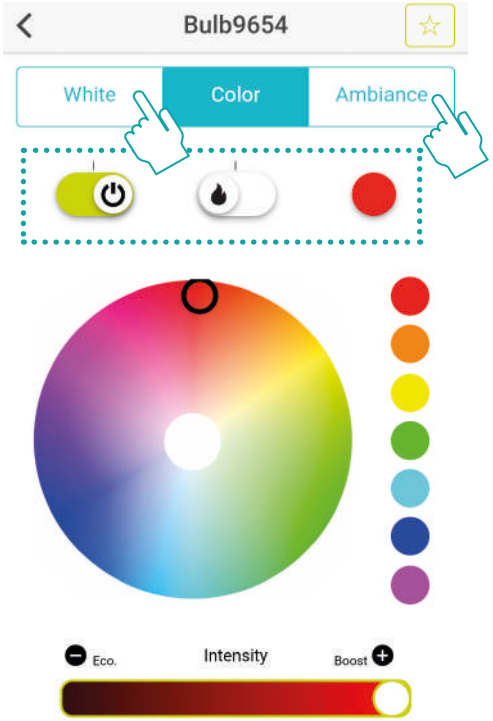
The «Devices» menu enables individual control of all Bluetooth products previously added to your smartphone mesh network.
By clicking and dragging the side selectors you can initially simply turn on or off a product to its original purple color.

You will then have access to advanced settings by pressing the tri-color circle icon. By default, this accesses the «color» tab, which enables the setting of predefined colors in the precision palette as well as the light brightness level.





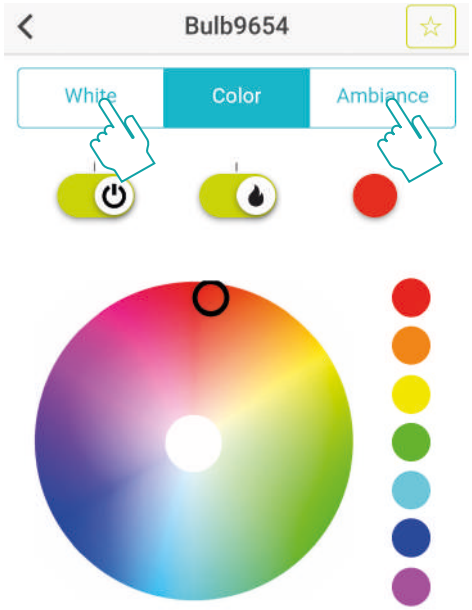


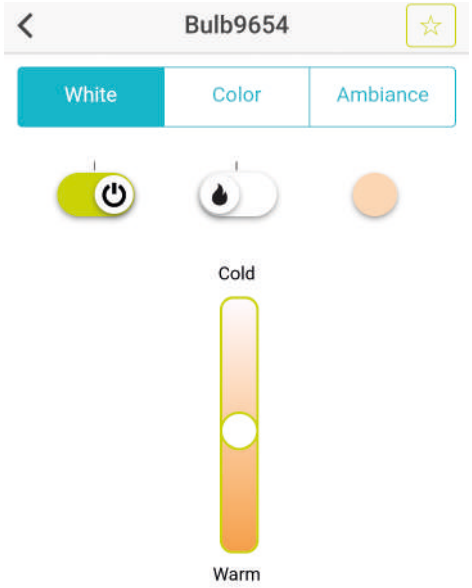


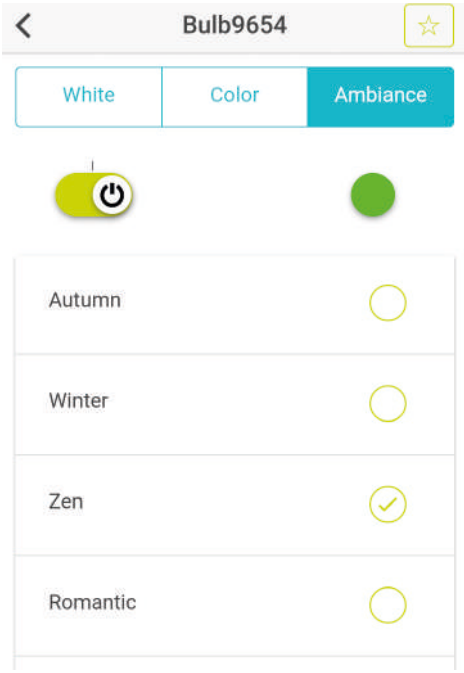
Note

The zone opposite, located above the color palette allows you to turn off the device, switch to candle mode or access an overview of the pre-defined color on the palette.

In addition to the «Color» tab, the « Ambiance » and « White » tabs can adjust the shade of hot/cold white according to various predefined brightness levels or moods such as Zen, Romantic, Rainbow Sky etc.



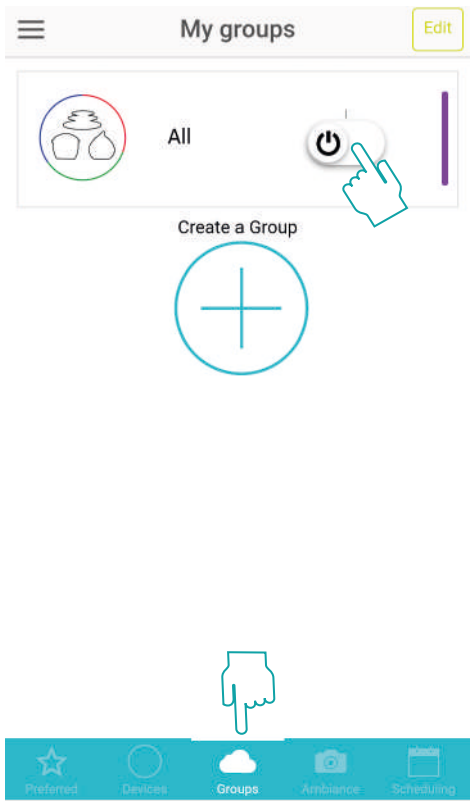


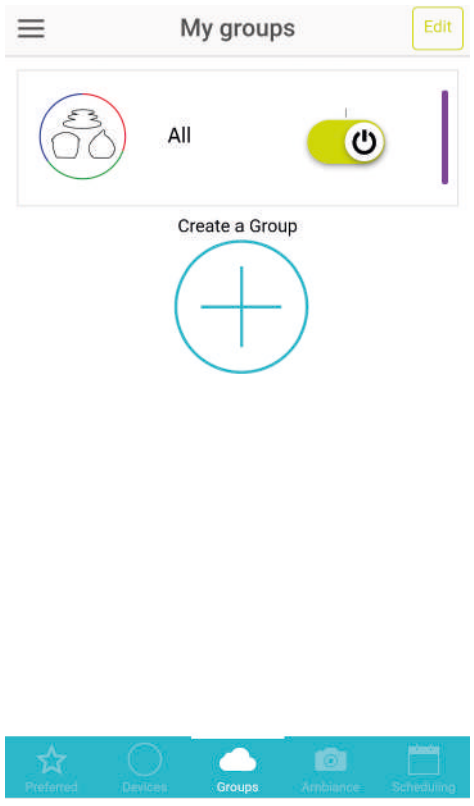


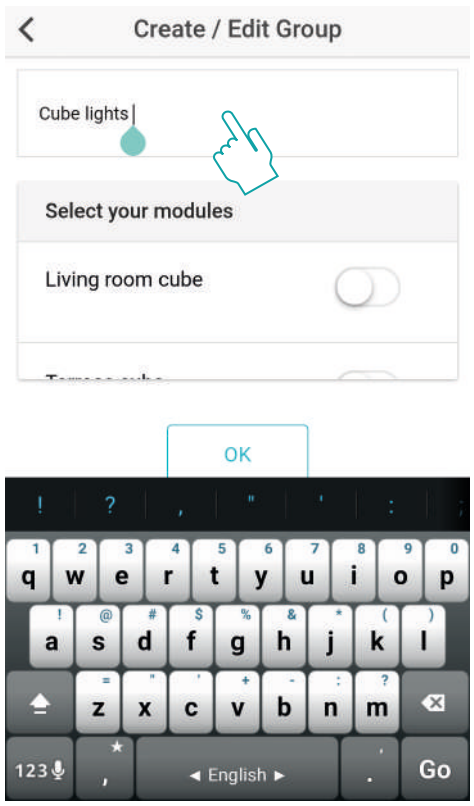
GROUPS MENU

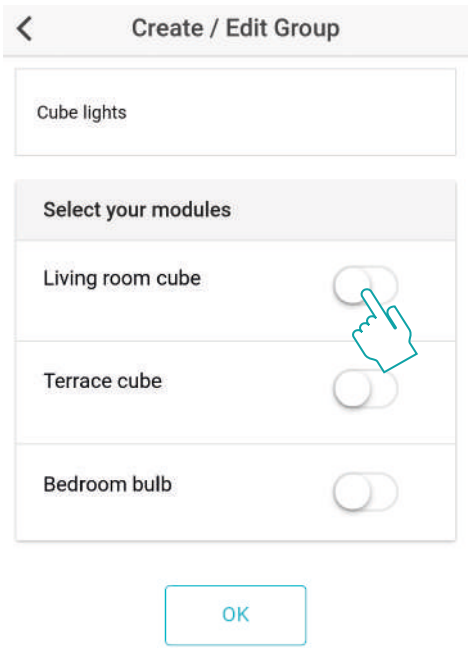
The menu «Groups» enables product control as a group. The list has a default group «All», enabling the management of all Bluetooth products added to the mesh network via the user's smartphone. In the same manner as for a single product, it is possible to access a precise setting of the group's color or mood by clicking on the tricolor circle icon.

It is of course possible to create custom groups as required. For example, you can create groups corresponding to areas of the house, or even groups corresponding to certain types of products (such as the type of BULB or BULBLITE module, or the shape of diffuser BALL, CUBE etc.). Group management is limited only by your imagination.





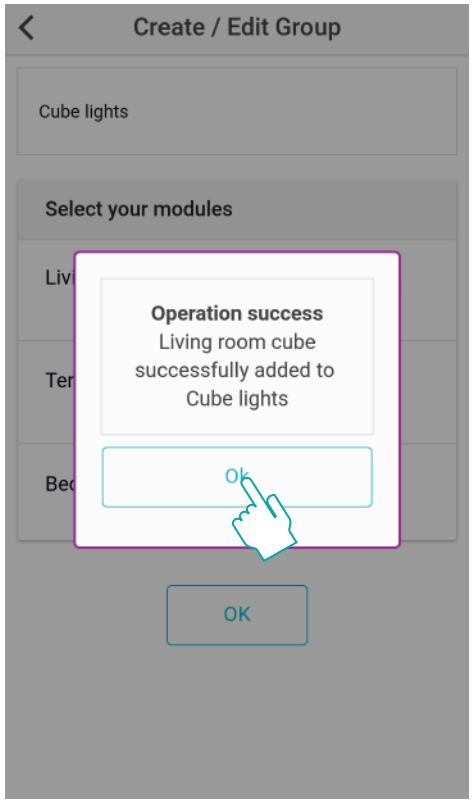


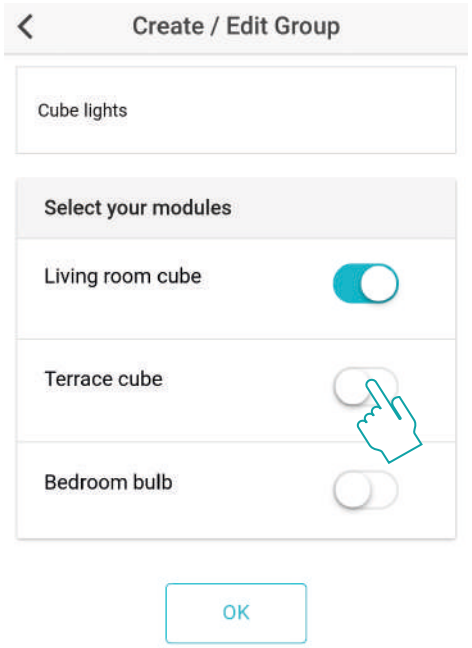


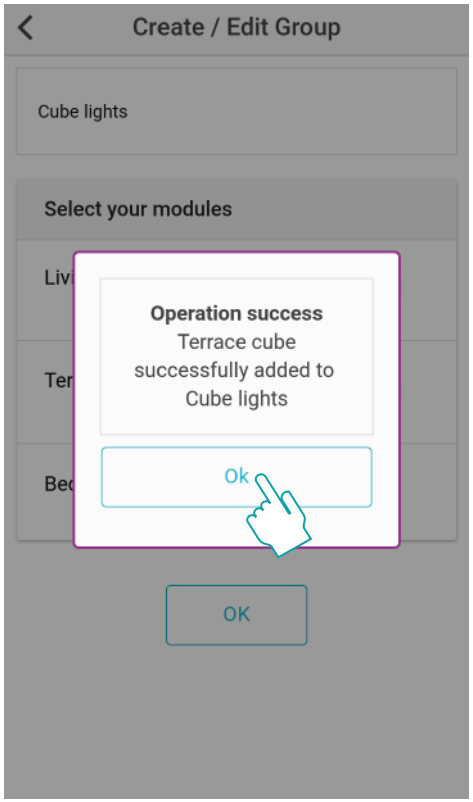
BASIC FEATURES

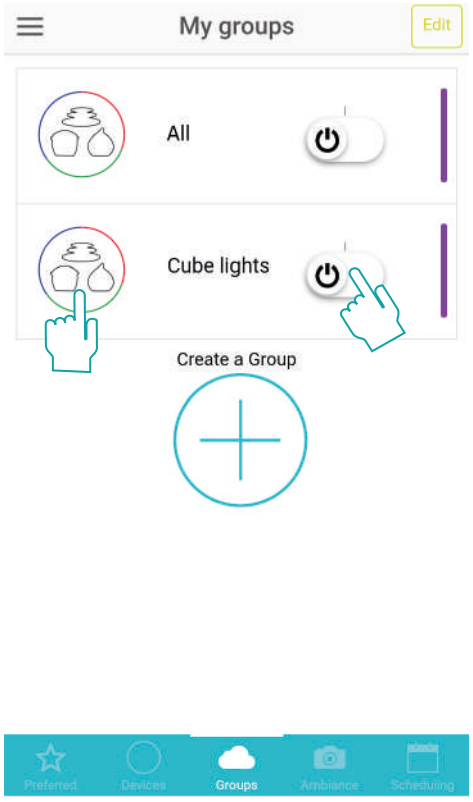
To create a custom group, simply press the «Create a group» button to first choose a name for this new group. Once the group has been created and named you just add Bluetooth products to the group by simply pressing the button corresponding to the product in the module selection list.

Note however that a module added to the group successfully would normally briefly flash green. In addition, the application should display a confirmation message. Once the customized group has been set up, it is possible to access the specific control of colors and moods using once again the tricolor circle icon.





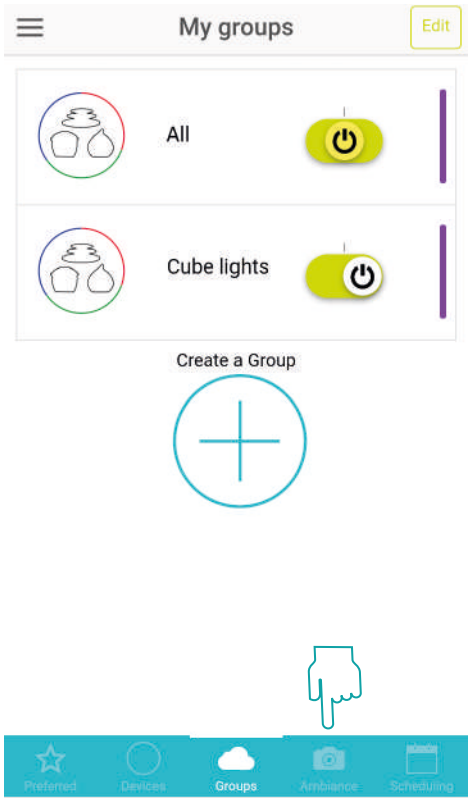


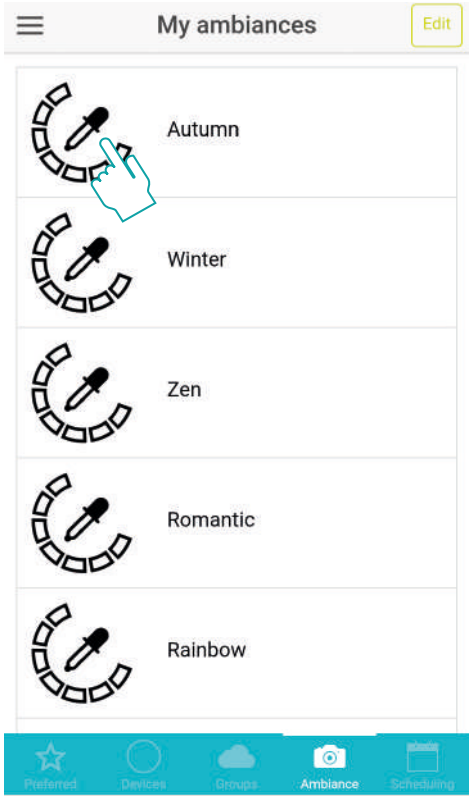


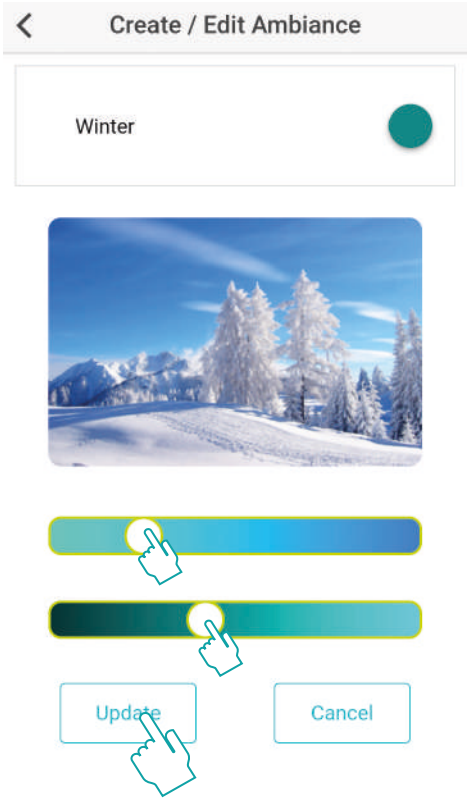
AMBIANCES MENU

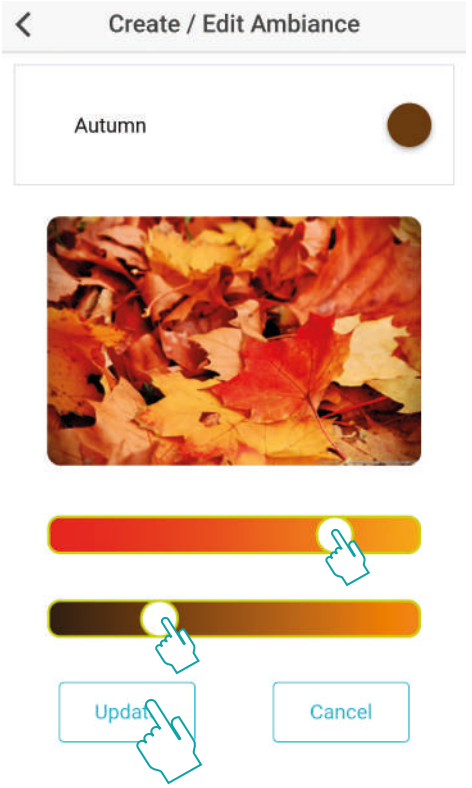
It has previously been described that a single module or group containing several modules could receive commands according to colors or moods.
The ambiances are predefined color settings corresponding to the following names: Autumn, Winter, Zen, Romantic, Rainbow and Flashing.

By accessing the ambiances menu tab you can change these predefined color settings, in order to adjust them according to your own tastes.









Simply access the ambiances menu, for example press the color choice eyedropper icon for the autumn or winter mood. You can now modify the shade via the horizontal settings bar, then press save to validate your new settings.

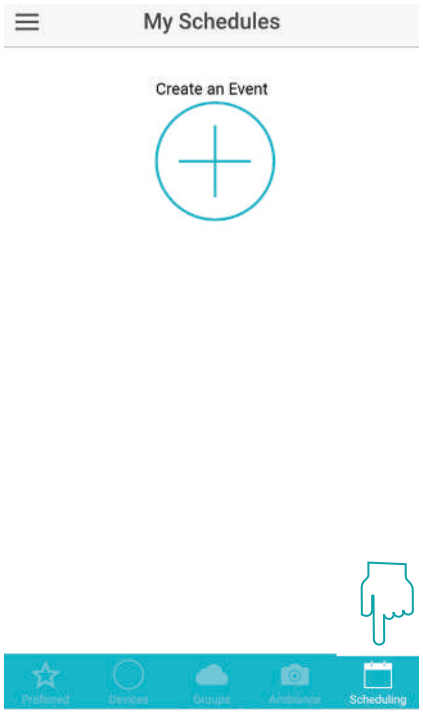
Note

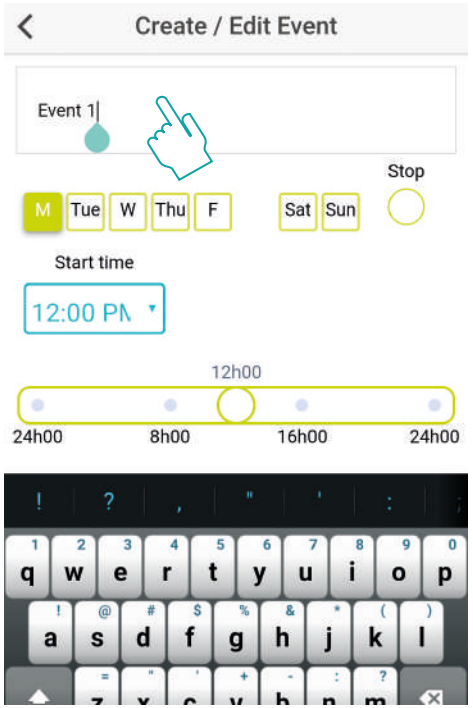
When you change your mood settings like this, you have access to a preview of the new color at the top right of your screen.

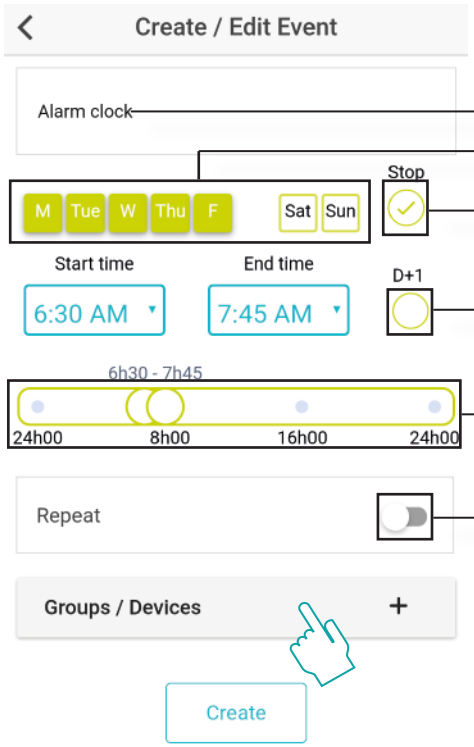
PROGRAMMING MENU

The programming menu enables the creation of events managing actions of turning on and off Bluetooth modules over time. For example, you can program an event to automate the switching on and off of lamps for a certain period of time during waking, or a night based program.

The configuration of an event is very comprehensive, since it defines the following criteria:
- Choice of a custom name for the event
- Choice of the day of the week concerned by this event
- Choice of a start time for the launch of the event
- Choice of an end time for stopping the event.
- Activation of the «repeat» mode to obtain repeatability of the event over time
- Choice of the Bluetooth devices affected by this event
- Choice of colors or moods for the devices concerned by the event







Name

Days of the week

Set the time at which the event finishes

Ending time of event the following day

Time setting graphic

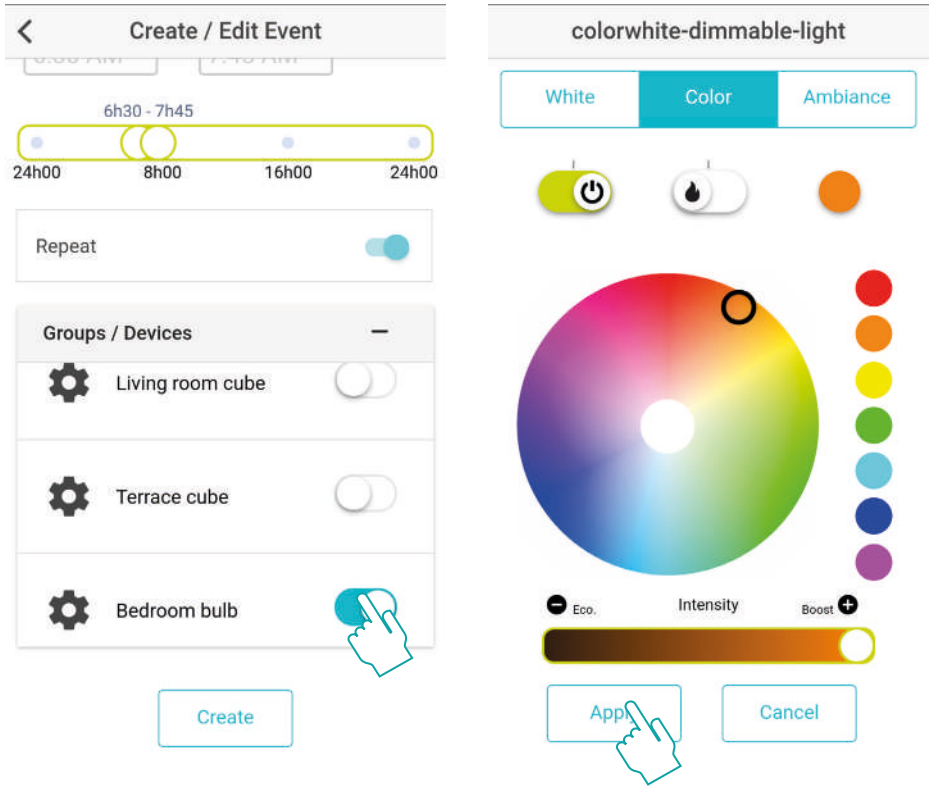
Activate event repetition

Create a waking event

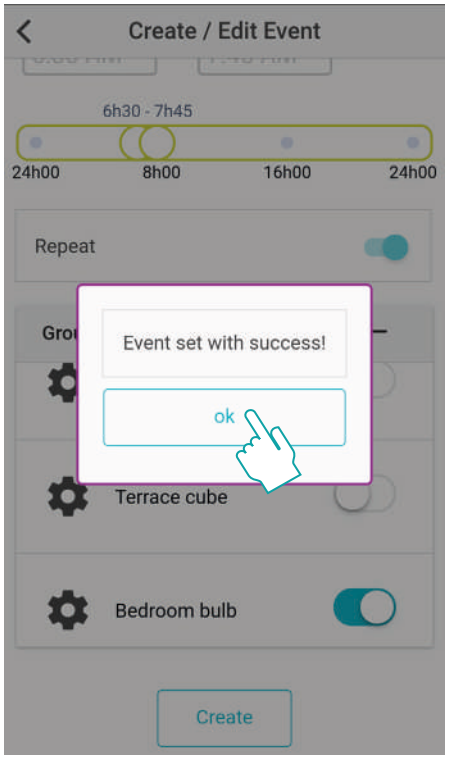
First go to the 'Programming' tab and press the «Create an event» button. You can then rename the event, and begin its configuration.

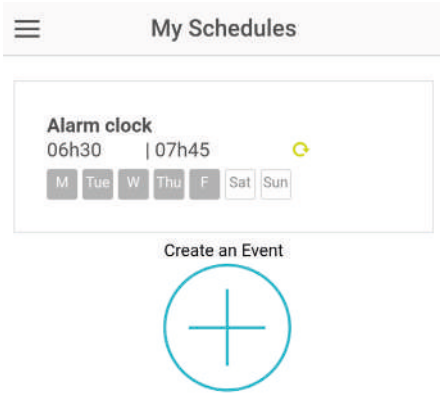
PROGRAMMING MENU

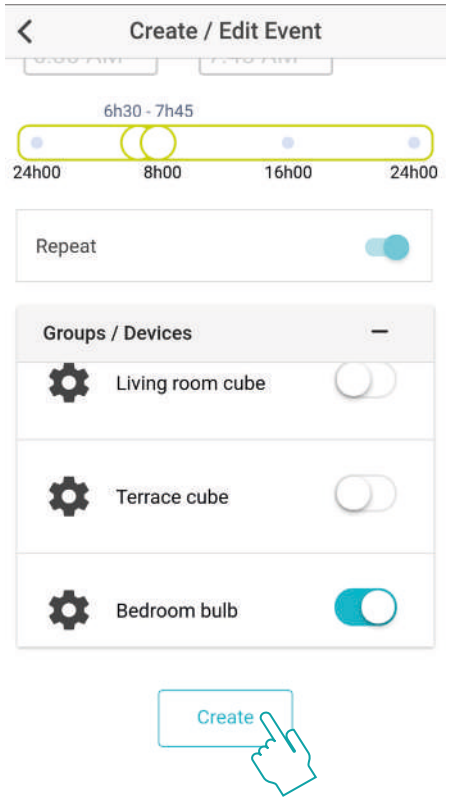
After having determined all options related to the days of the week, time slots, as well as potential repetitions it is now necessary to access the bottom of the settings page and press the menu button «Groups/devices». Once this button is pressed, you can select the devices that will be activated in the event.



When activating a device, the application switches directly to the color and moods choice menu in order to define how the devices will light up during the programmed start of the event. Once the color setting has been carried out, simply press the «Apply» button.





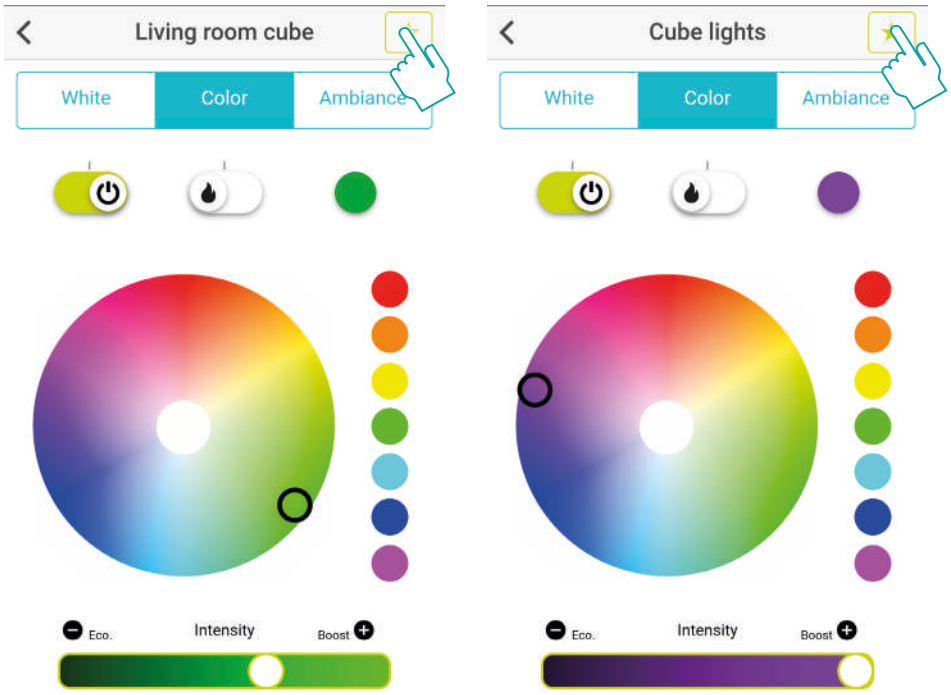


After pressing the « Apply » button, the successful programmed message appears, you can then repeat the operation several times for all the modules you want to add to the event.

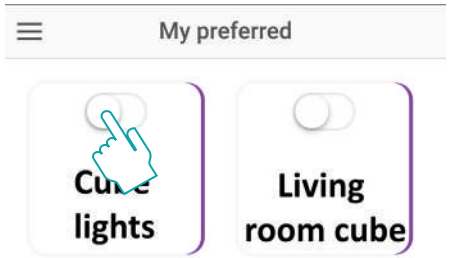
Once the addition of devices is complete, press the « Create » button and note the appearance of the new event in the « My schedules » menu, meaning that it should take place according to the earlier defined settings.

FAVORITES MENU

When you enter the color scheme menu corresponding to an individual module (from the «Devices» menu), or corresponding to a group (from the Groups menu), you can press the «Star» button in order to select a single module or a group as Favorite.



Once the button is pressed, the «Star» symbol normally switches to a green colored background (by default the symbol has no color fill).



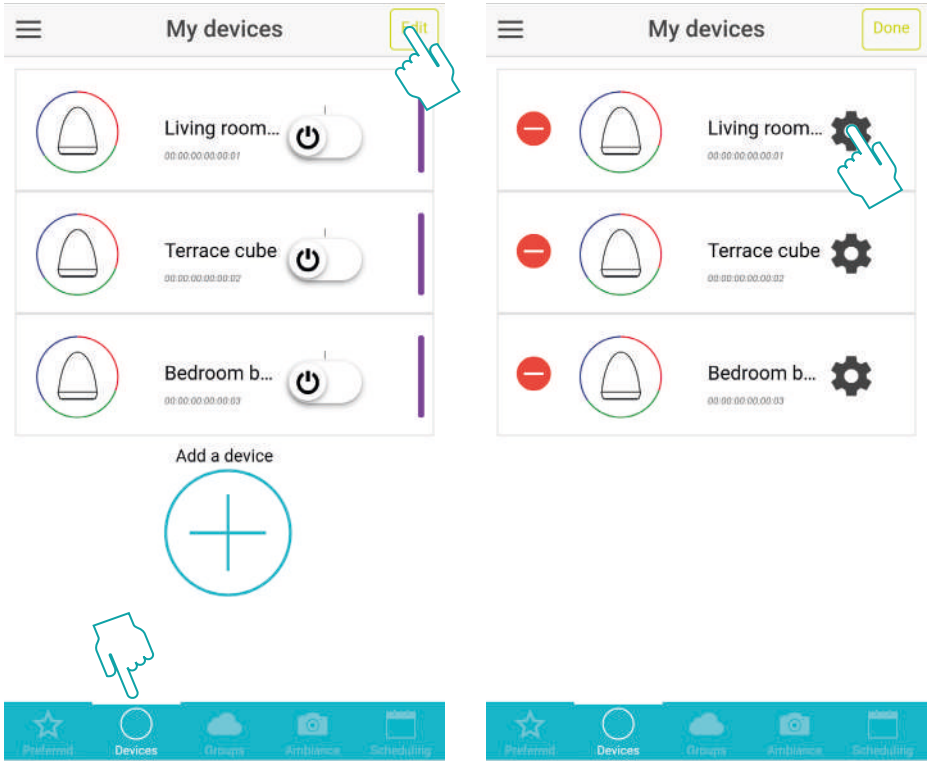
Once your favorite modules or groups have been added to your « Preferred » menu, you can quickly access their ON/OFF switch.

Note

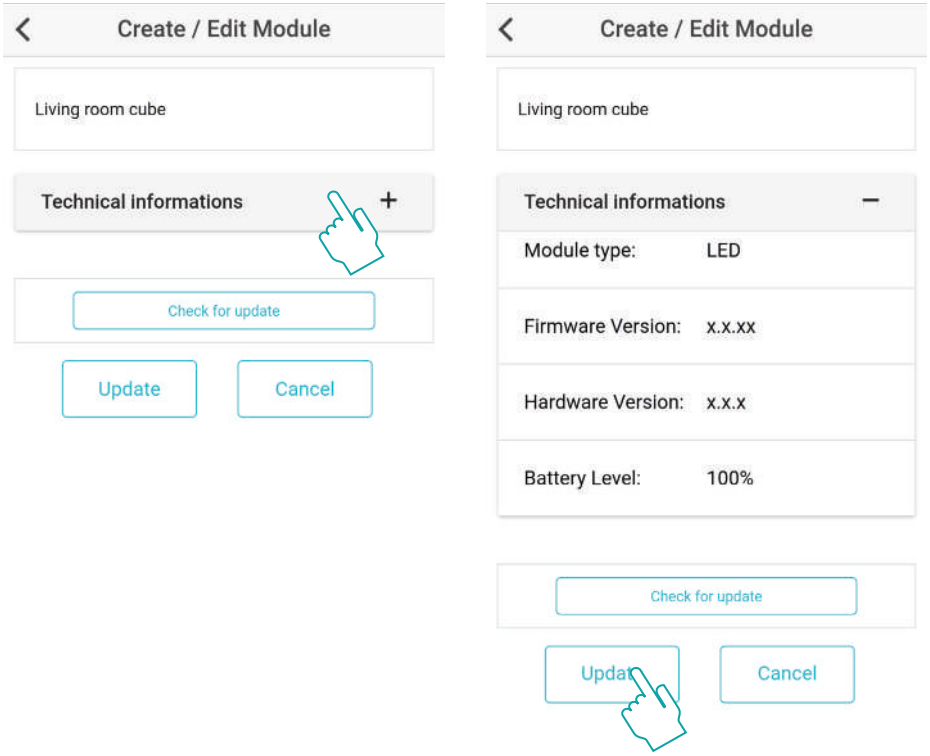
The Favorites menu cannot currently be used to modify modules and group colors, simply their switching on or off.

DEVICE MANAGEMENT

When you are in the «Devices» menu, you can press the «Edit» button, the gear wheel symbol then appears next to the device name. You will then have the possibility to change the name of the device, check that there is no necessary update for your product, and finally access various technical information such as the software version or even the Bluetooth device address.



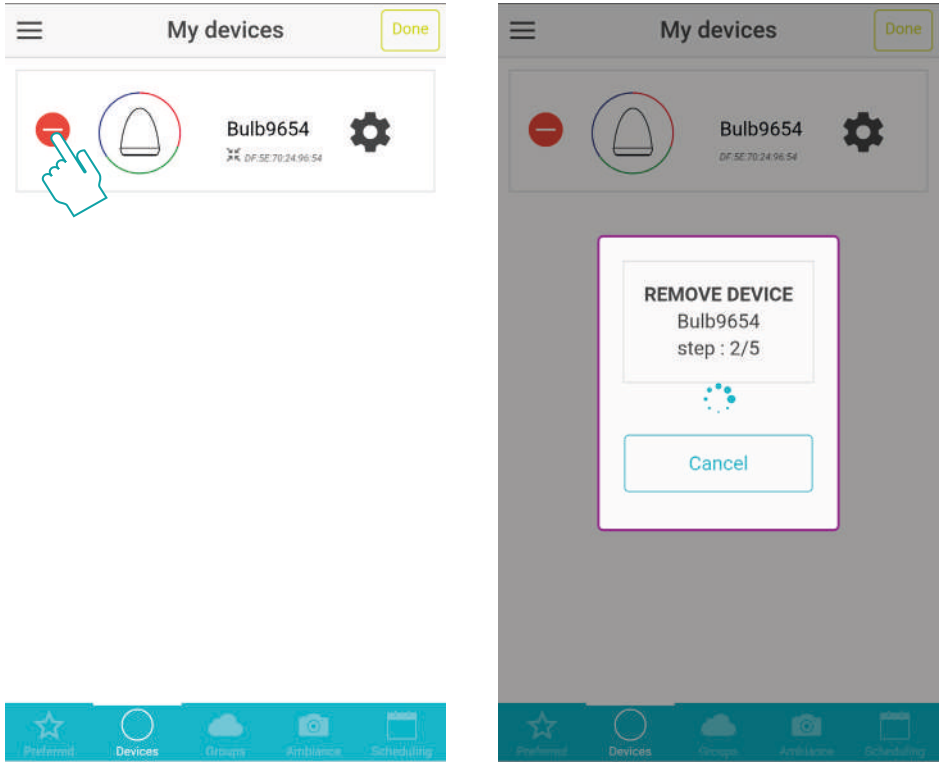
Certainly, in addition to updates of your SMART AND GREEN application available directly on the download portal corresponding to your smartphone (Google Playstore or Apple Appstore), an internal software update of your devices may also be available.



Then simply press the « Update » button to validate a change in the device name, or a freshly installed update.

DELETING A DEVICE

When you are in the «Device» menu, press the «Edit» button, the red-circle symbol appears to the left of the device name in order to delete it from your mesh network.



When a device is removed from the Bluetooth mesh network you should see it flashing briefly in red, a delete message appears on the screen of your smartphone then the module disappears from the device list.

Note

To remove a device in the best possible condition it is important to ensure that it and your smartphone are currently connected to your mesh network, and therefore the device in question is now controlled via your smartphone application. If these conditions are met, the removal of your Bluetooth module from your mesh network should be carried out without any problem.

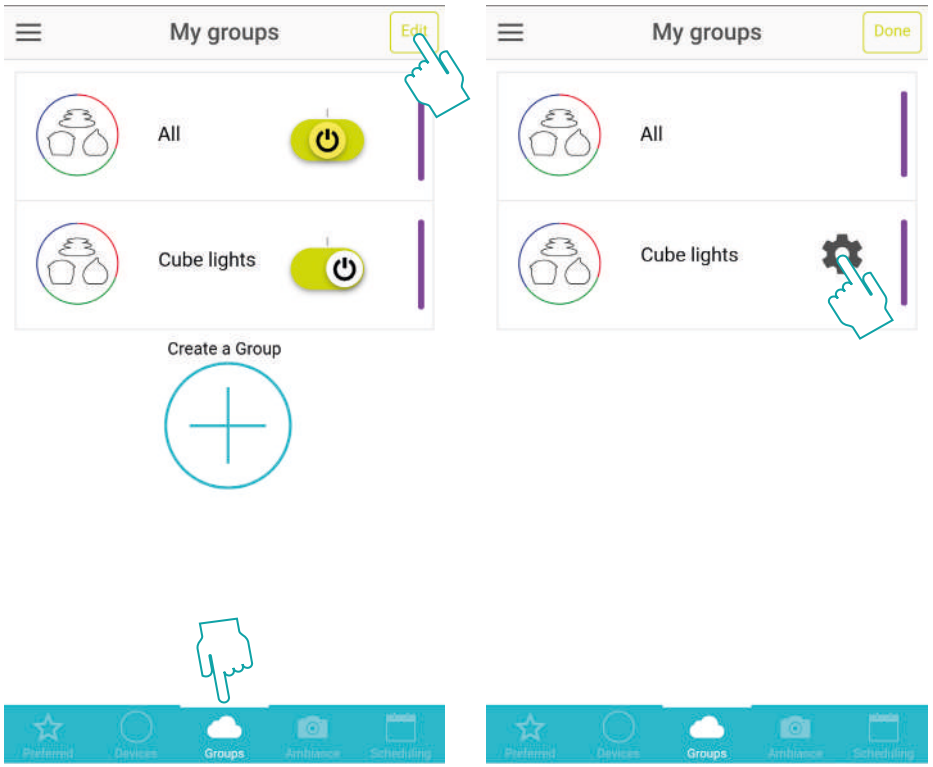
If you wish, you can delete a device when it or your smartphone are not connected to your mesh network. This may happen, for example, if your smartphone is not located close enough to at least one of the devices in your mesh network, or if the battery of the module you want to delete is simply empty.

In this case, the module removal procedure launched after pressing the red circle icon should not succeed, however, the application should indicate that your product could not be found or removed from the network but you can press a button to remove it locally. This involves the removal of the device from your smartphone application list.

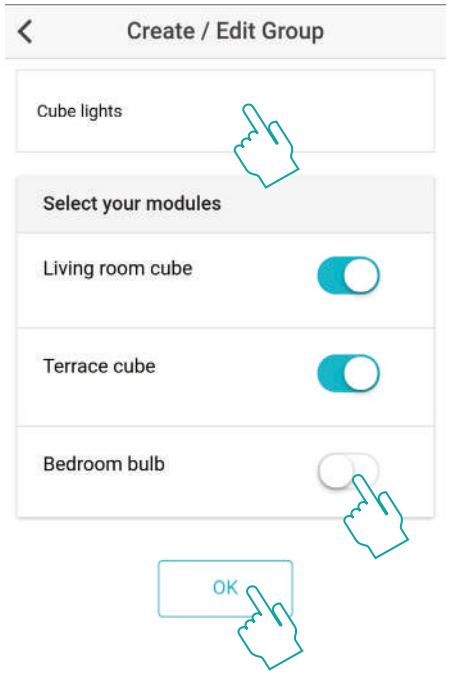
Be aware that the device will no longer appear in your SMART AND GREEN application list, however the product itself will remain locked, with only the old connection information in its memory. In its current state the product will not be connectable and before you can add it back to a mesh network via your SMART AND GREEN application, the device restart operation as described earlier in the user guide will be required.

MANAGING A GROUP

When you are in the «Groups» menu, you can press the «Edit» button and then the gear wheel symbol next to the group name.



Once in the group modification menu, it is possible to modify the group name or to modify its content simply by adding or removing modules in the corresponding list.

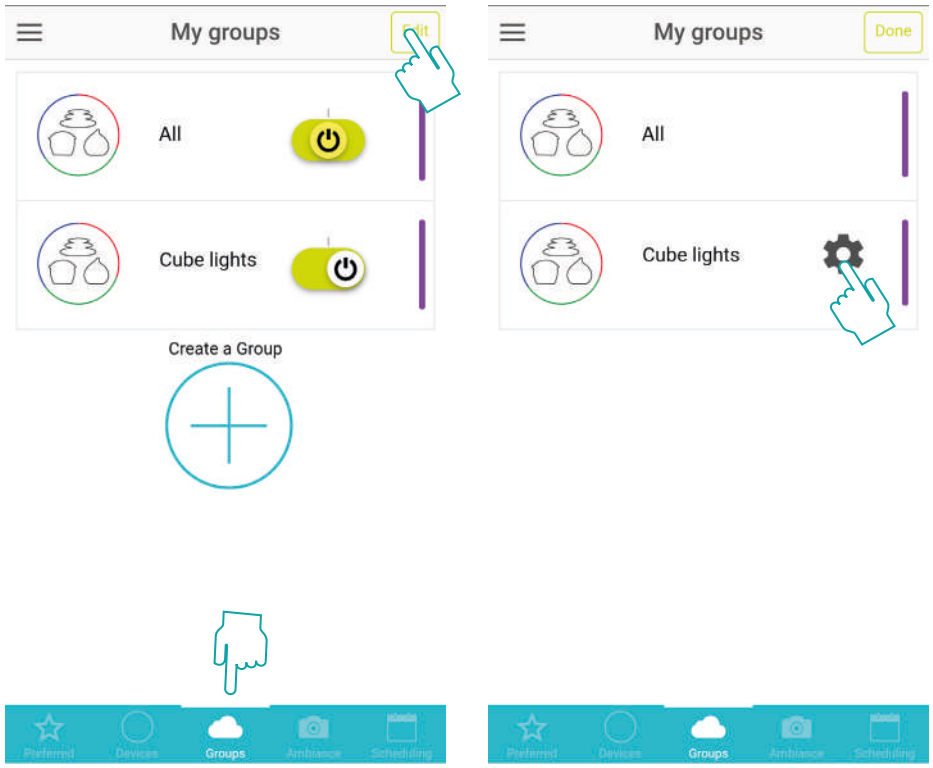


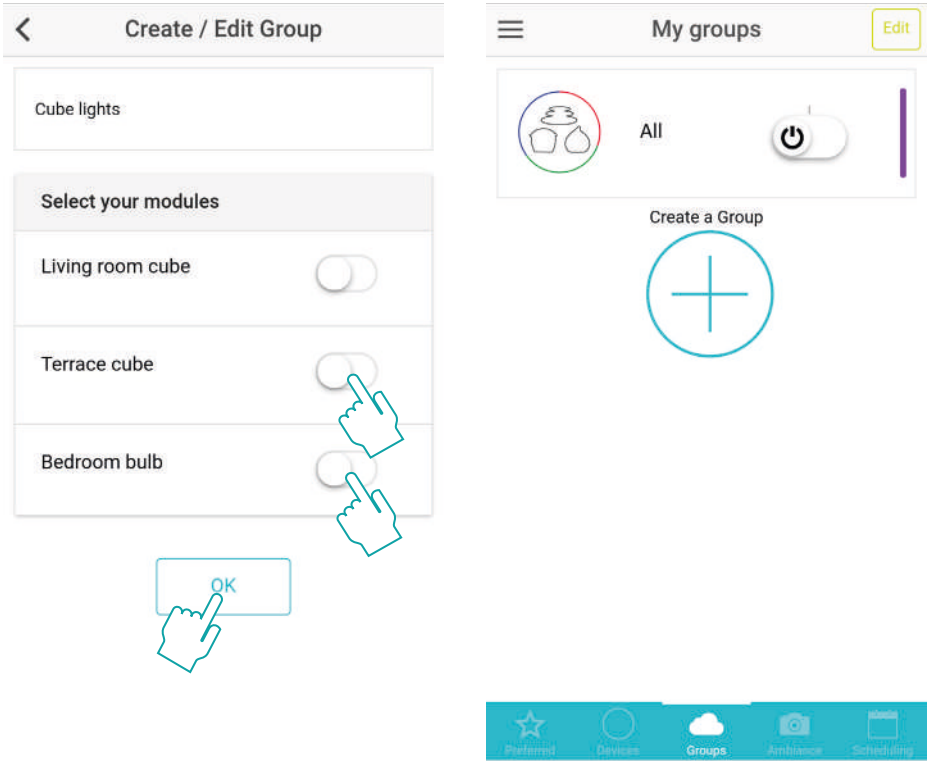
Once the modifications are complete, just press the « OK » button to validate the changes and return to the main screen of the group menu.

DELETING A GROUP

To delete a group, you must first access the management menu of the group to be deleted. To do this, simply go to the «Groups» tab and then press the «Edit» button and then the gear wheel icon.

Once the management menu of a group is open, you just have to uncheck the activated modules inside the group.

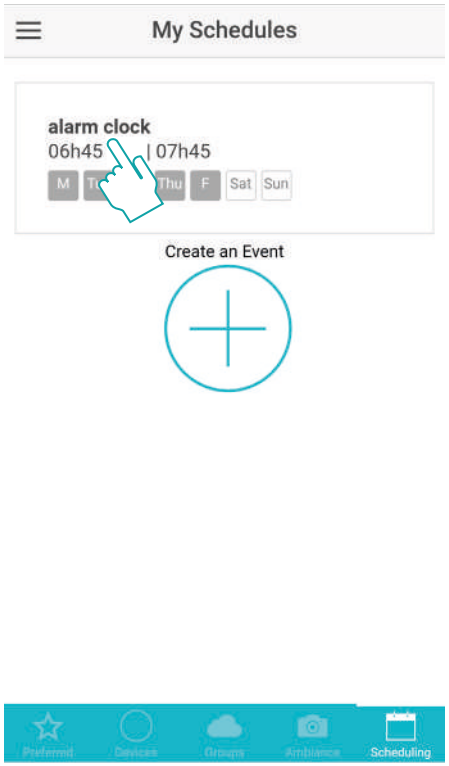


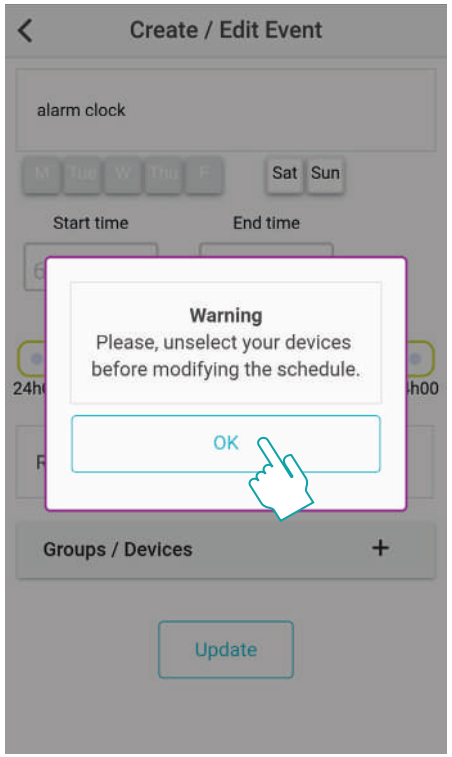


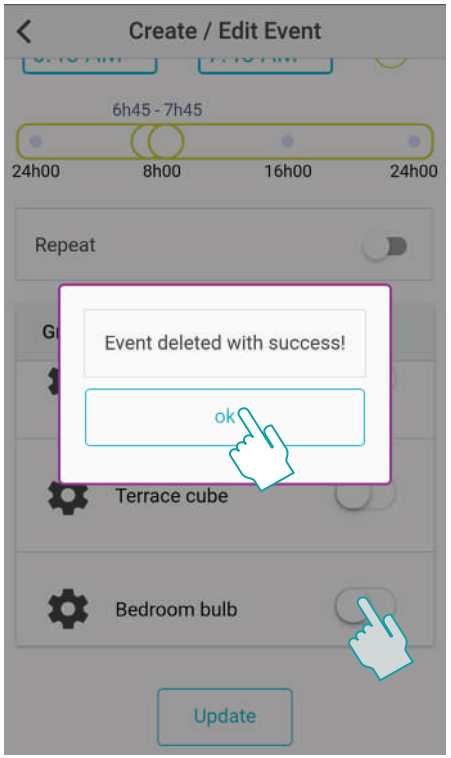
Once all the modules have been deactivated, press the «OK» button to validate the deletion of all the devices inside the group and consequently delete the group from the list.

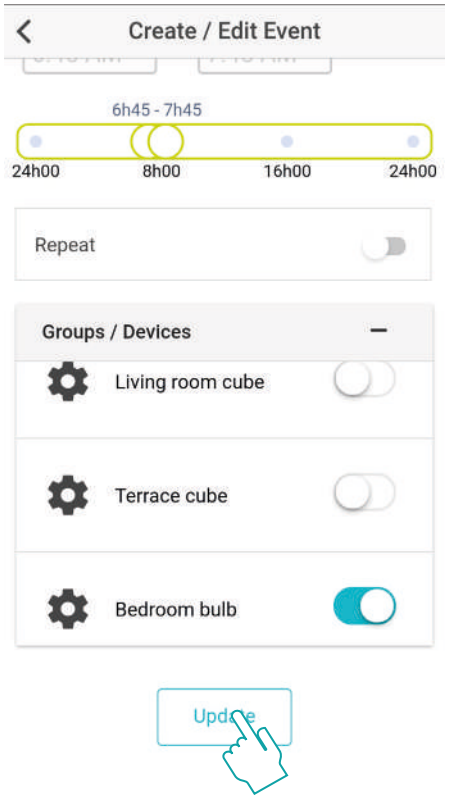
MANAGING AN EVENT

When you are in the «Scheduling» menu, you have the option of pressing the zone corresponding to the name of the event in order to access the event settings. By default the application tells you to first remove the devices from the list of modules affected by the event in order to make changes to the settings of days or hours.





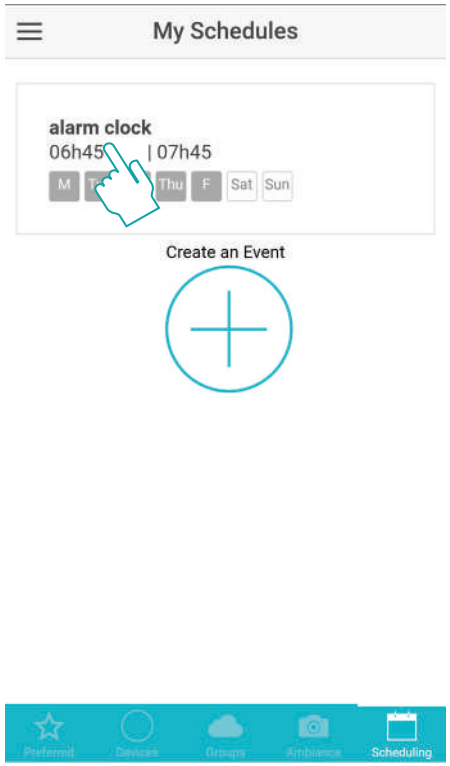


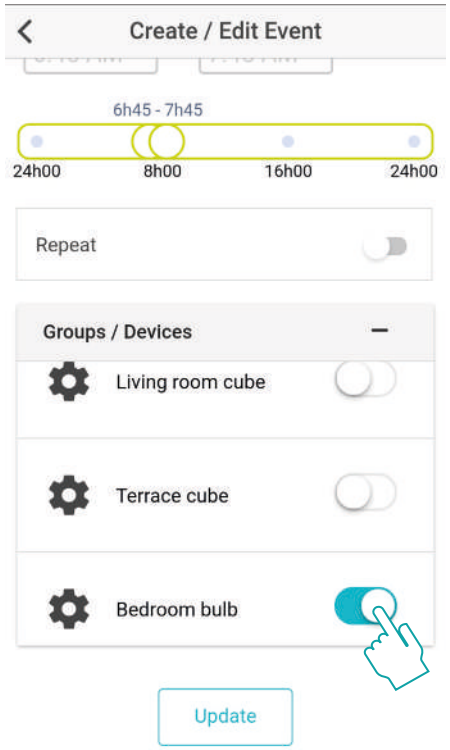


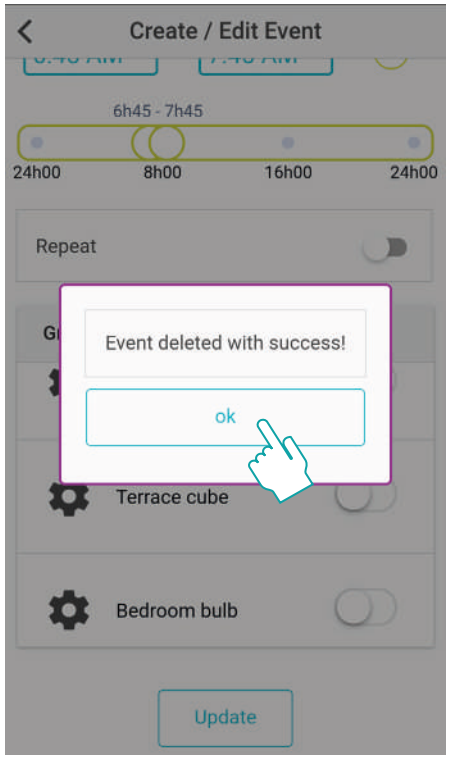
Once you have made the changes to the configuration of the event, you can add modules to the list of devices concerned, and define the color or mood they must comply with when they are switched on. After making all these changes simply press the «Update» button to validate the changes and return to the screen listing the events stored in your SMART AND GREEN application.

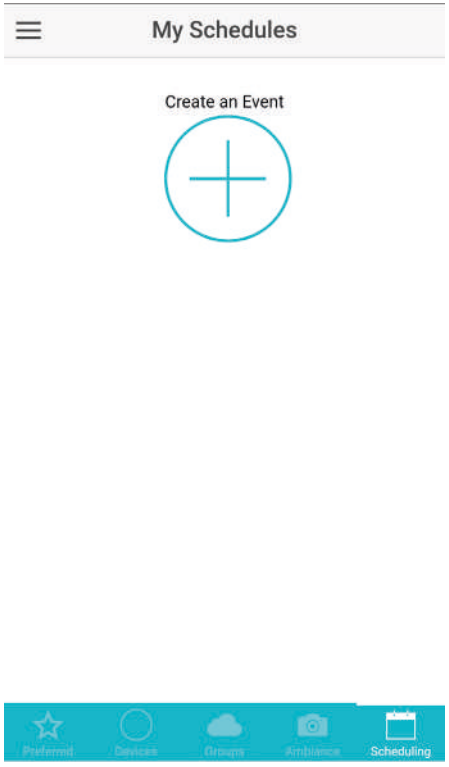
DELETING AN EVENT

When you are in the «Scheduling» menu, you have the option of pressing the area corresponding to the name of the event in order to access the settings of the event. In the same way as for deleting a group, deleting an event simply requires disabling all the devices in the list of modules concerned by the event and then pressing the «Update» button, the application switches to the «Scheduling» menu and you will note that the event has been removed from the list.



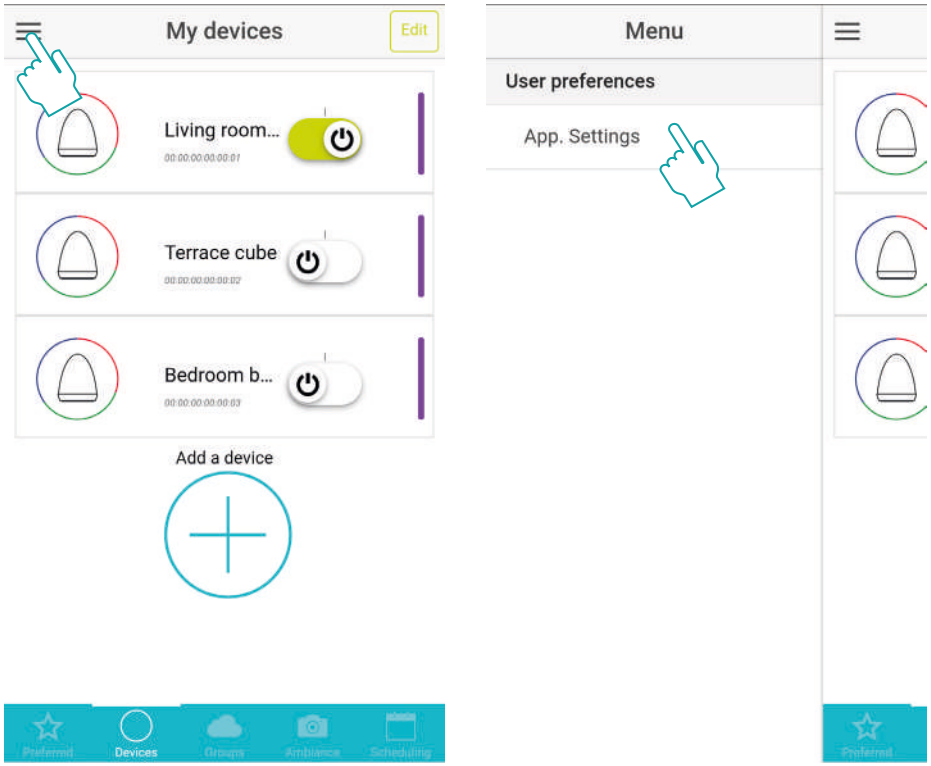




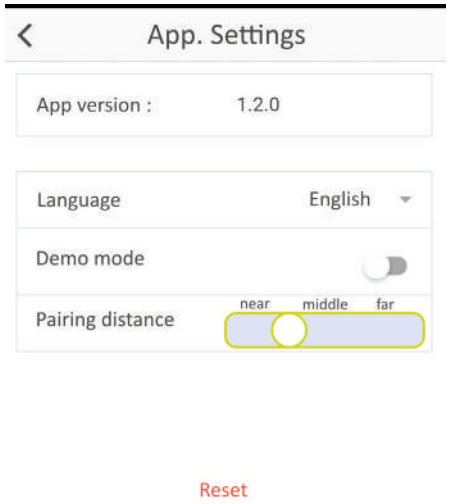


OPTIONS MENU

You can press the «Settings» button located at the top left and symbolized by three black horizontal bars to access the «User Preferences» menu and then press the «App. Settings» button.



Thanks to the App settings menu you can access the version number of your SMART AND GREEN application or change the language of the interface (French or English only in the current version).



Demo mode allows you to present the features and menus of the application without a nearby physical module.

The pairing distance indicates how far your smart device can be when first connecting to a SMART AND GREEN product. The default range will be, on average, 2 meters, but this depends on your smart device and the environment (other products in the same frequency, walls or other obstacles).

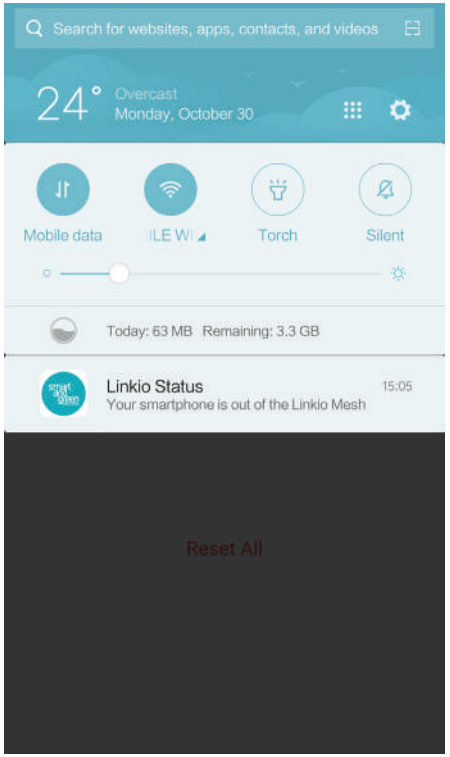
Finally, the « Reset » button returns to the default settings of the application for the above parameters, but it also removes all modules, groups, events and favorites.

Warning

If you delete your modules via the «Reset» button, be aware that in the same way as for a «Local» deletion of your module, it will be necessary to follow the restart procedure before any other pairing.

ANDROID/IOS APP NOTIFICATIONS

During your use of the SMART AND GREEN application, you will notice more or less frequent notifications. These Android or iOS notifications are present to inform you of the status of your smartphone in the mesh network that you have set up at home or in your business through the addition of devices in the application.



These notifications indicate in real time whether or not your smartphone has successfully connected to your device network. When you add your Bluetooth products to your application you are creating your mesh network. Subsequently if you leave the zone, your products remain linked together regardless.

In short, when you move too far away from your mesh network, your smartphone via the application SMART AND GREEN, will not be able to connect, and you will receive a notification to say you are no longer in the network.

If you return close to your mesh network, making sure your SMART AND GREEN application is up and running, that your Bluetooth is activated, it will only take a few seconds for your smartphone to be able to connect to the nearest module in order to join the others on the network. In this case the application should normally notify you that you are back in the mesh network.

It is not necessary to be at the center of your products in order to control the entire network. Each module acts as a repeater which means that if the distances are respected between all modules, you just need to be close to at least one device so that your smartphone can connect to it and then you have access to control over your entire device network.

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