

System manual
LUXORliving SMARTstart
Version 3



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1 General information

With the growing demands for sustainable construction, the importance of refurbishing and retrofitting existing buildings is also increasing. But how can rented flats, single and multi-family homes, classrooms, shops or offices be retrofitted with KNX-based smart home functions if no KNX cable has been laid? And with as little effort as possible? LUXORliving SMARTstart makes it possible! LUXORliving SMARTstart is the radio-based complete solution for the smart home with all the functions you really need today and in the future. Without KNX bus. Without a control centre and power supply in the distribution board. Without a media coupler. And above all: without ETS.

Getting into the smart home can be so simple and future-proof.


LUXORliving SMARTstart enables simple retrofitting of up to 30 functions such as switching, dimming, drive control or room temperature control and is based on radio communication.

The LUXORliving SMARTstart central device serves as an interface between the local IP network and wireless communication with the LUXORliving components. Furthermore, all functions can be controlled simply and intuitively on the central device. Further operating options are available via buttons that can be integrated into the system, the LUXORplay app or control via personal assistants such as Amazon Alexa or Google Assistant.

LUXORliving SMARTstart is always commissioned with the LUXORliving SMARTstart system central and the LUXORplug software. The LUXORplug software can be downloaded free of charge from the website:


<https://www.luxorliving.co.uk/for-professionals/software-and-apps/>

All function assignments are made with LUXORplug, which can be changed again later.

 System requirements for **LUXORplug**:
- Windows 7 to Windows 11 (64 bit)

It is operated using the LUXORplay app, which you can also download to your smartphone/tablet free of charge.

For Android: ([LUXORplay - Apps at Google Play](#))
For iOS: ([LUXORplay in the App Store \(apple.com\)](#))
For Windows: (<https://www.luxorliving.co.uk/for-professionals/software-and-apps/>)

 System requirements for **LUXORplay**:
- Windows 7 to Windows 11 (64 bit)

2 System

- All LUXORliving components communicate via a radio link that complies with the KNX standard (868.3 MHz, KNX-RF S-Mode).
- The connection to the home network is made via the LUXORliving SMARTstart system central. This enables operation via the LUXORplay app.
- The system central can be connected to up to 30 radio devices.

System devices

- LUXORliving SMARTstart (system central)



Sensors

- LUXORliving SMARTstart (central operating unit)
- Binary inputs of the wireless actuators, for connecting push-buttons or temperature sensors (LUXORliving S1 S RF, LUXORliving H1 S RF, LUXORliving E1 S RF, LUXORliving J1 S RF, LUXORliving D1 S RF, LUXORliving D1 DALI S RF)
- LUXORliving T4 S RF (push-button interface for connecting push-buttons or temperature sensors)



Actuators

- LUXORliving S1 S RF (switching actuator, 1-channel)
- LUXORliving H1 S RF (heating actuator, 1-channel)
- LUXORliving E1 S RF (actuator for electric heating, 1-channel)
- LUXORliving J1 S RF (blind actuator, 1-channel)
- LUXORliving D1 S RF (dimming actuator, 1-channel)
- LUXORliving D1 DALI S RF (DALI actuator, 1-channel)



Push-button/actuator combinations

- LUXORliving PS1 RF (switching actuator, 1-channel, with 4 touch points)
- LUXORliving PJ1 RF (blind actuator, 1-channel, with 4 touch points)
- LUXORliving PD1 RF (dimming actuator, 1-channel, with 4 touch points)
- LUXORliving PB4 RF (push-button module with 4 touch points)



- Operation takes place via the push-button/actuator combinations, conventional push-buttons, which are integrated via the binary inputs of the flush-mounted actuators, directly on the LUXORliving SMARTstart system central or via the LUXORplay app (iOS, Android, Windows PC).

3 Installation

i For assembly and installation, the information in the operating instructions for the respective device must be observed!

- The LUXORliving SMARTstart system central and all other sensors and actuators are designed for installation in appliance boxes.
- The recommended installation height for the LUXORliving SMARTstart system central is 1,50 - 1,60 m.

i Communication takes place via radio. Therefore, the installation location must be centralised and away from sources of interference (e.g. computer, microwave, etc.).

3.1 Radio communication

The KNX RF radio standard uses a frequency from the SRD frequency band (Short Range Device), which also has a relatively short range due to its particularly low output power. It therefore has a high electromagnetic compatibility and does not interfere with other systems.

It is a licence-free frequency range for low power and can therefore generally be used in all countries that recognise the standards and directives of the European Union. However, the 868 MHz frequency range used is not reserved exclusively for KNX RF, but is also used by various other devices/systems, e.g. door drives, wireless alarm systems and various other building automation systems.

Each transmitter has the LBT function (listen before talk → Listen before transmitting). This means that each transmitter first listens to see if the radio channel is free before transmitting anything.

In addition, each transmitter waits for a random, constantly changing time before it actually transmits. This avoids radio collisions as far as possible.

The following negative effects occur during radio transmission:

- Attenuation/absorption: Signal is swallowed up
- Reflection: Signal is reflected back
- Refraction: Signal is deflected in a different direction
- Scattering: Signal multiplication

Material	Damping	Examples
Wood	low	Furniture, ceilings, partition walls
Plaster	low	Partitions (without metal grille)
Glass	low	Window panes
Water	medium	People, damp materials, aquariums
Bricks	medium	Walls, ceilings
Concrete	high	Solid walls, steel-reinforced concrete walls
Coated glass	high	Glasses coated with metal
Plaster	high	Partitions with metal mesh
Metal	Very high	Reinforced concrete structures, fire doors, lift shafts

3.2 Reach

Under good conditions, the range inside buildings can be up to 30 metres. In unfavourable cases, however, it can be just a few metres. In the open field, ranges of up to 100 metres are possible.

-
- ⓘ When planning, consider the radio range conservatively to ensure functional reliability.
-

3.3 Installation location

The following points must be considered when planning KNX RF systems with regard to the installation location must be observed:

-
- ⓘ Observe structural conditions with regard to shadowing, reflections, attenuation, absorption, refraction and scattering.
-

-
- ⓘ Keep as wide a distance as possible from larger metal surfaces, e.g. doors, frames, distribution cabinets, aluminium roller shutters ...
-

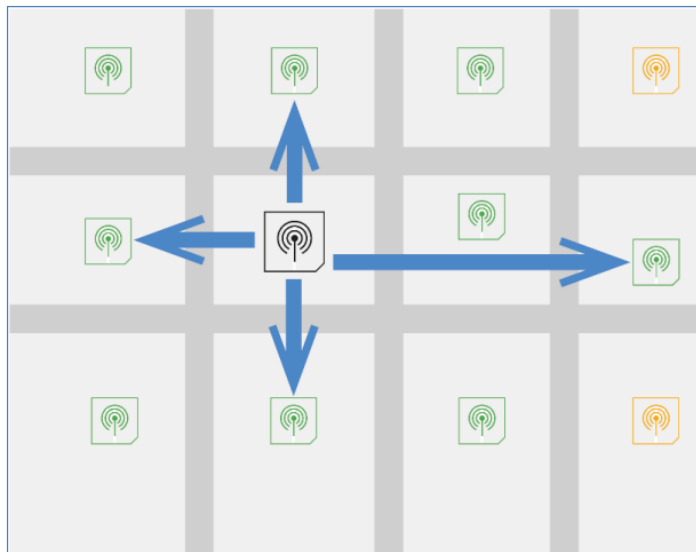
-
- ⓘ Penetrate walls and ceilings over the shortest possible distance (as the crow flies).
-

-
- ⓘ Keep as far away as possible from the following devices: Electronic transformers, electronic ballasts, microwaves, motors, cordless telephones, WIFI devices...
-

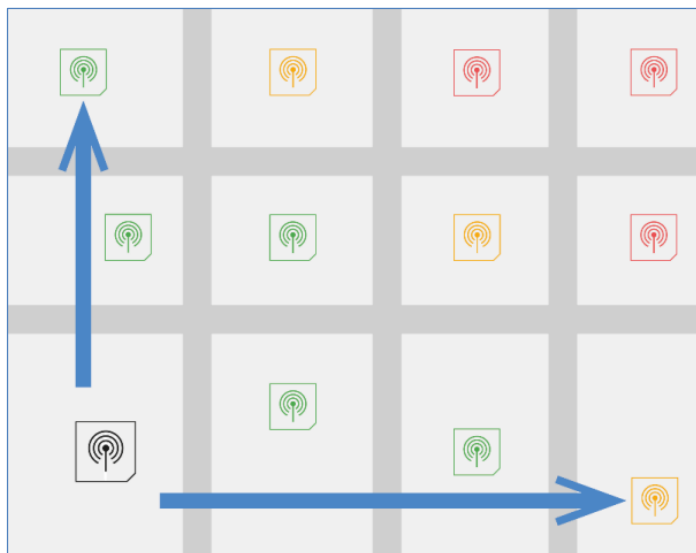
-
- ⓘ If possible, do not install RF devices close to the floor.
-

-
- ⓘ Do not install RF devices in metallic housings such as switch cabinets.
-

Example of a good central positioning of the LUXORliving SMARTstart system central



Example of poor positioning of the LUXORliving SMARTstart system central



3.4 Repeater function

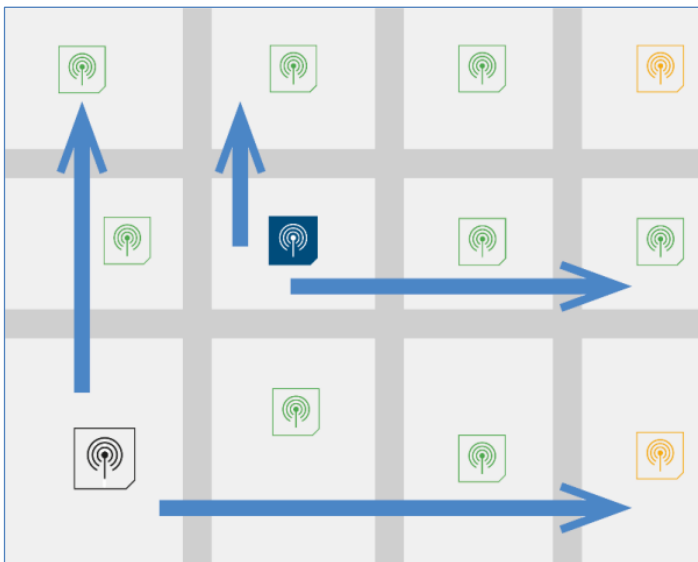
It is also possible to use any radio device as a repeater to amplify the RF signal in the system. This repeater function can be activated in the device list in LUXORplug.

i However, it is not advisable to activate the function for every or many devices in the system!

The following diagram shows which device is suitable for being parameterised as a repeater in the system.

i It is therefore essential to know the spatial arrangement of the devices and to use the "Repeater" function in a targeted manner.

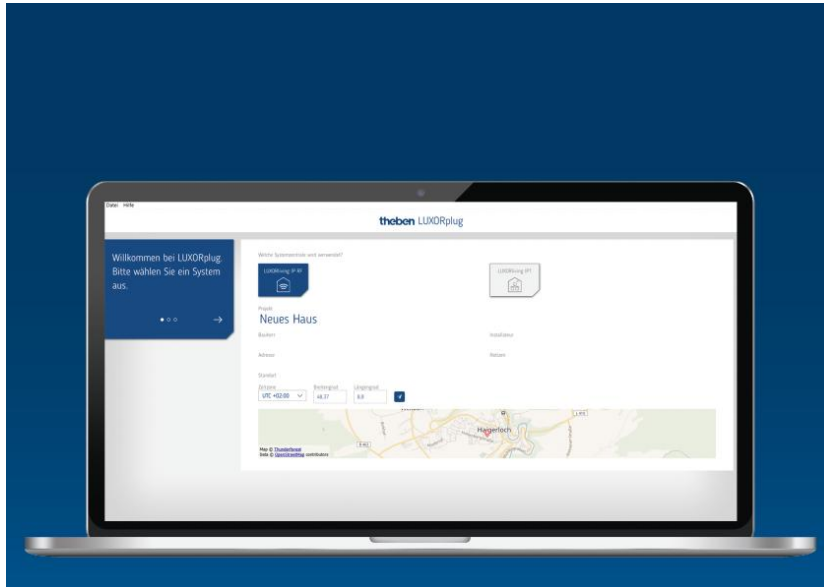
Example with activated repeater function for a wireless actuator (blue)



4 Simple commissioning in 6 steps

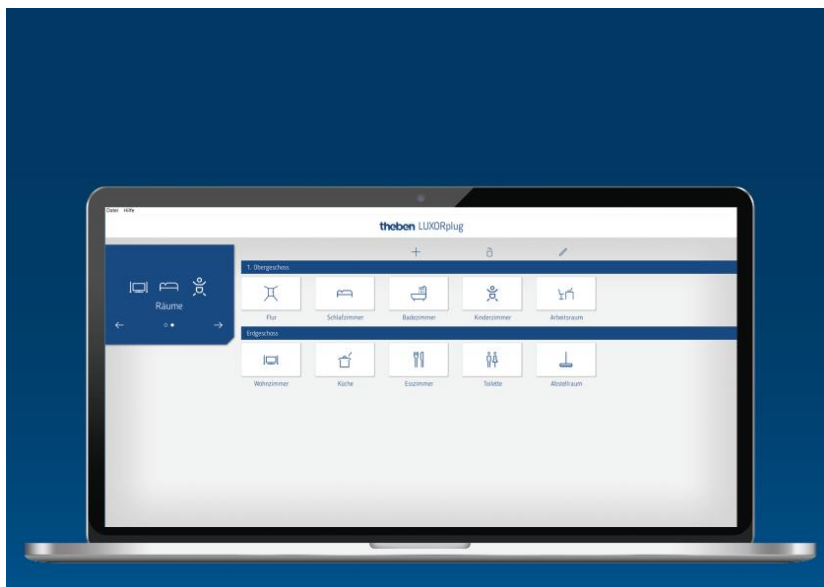
4.1 Start project

- First complete the formalities by inserting all relevant product information such as the property name, client, address, installer and the time zone with coordinates.



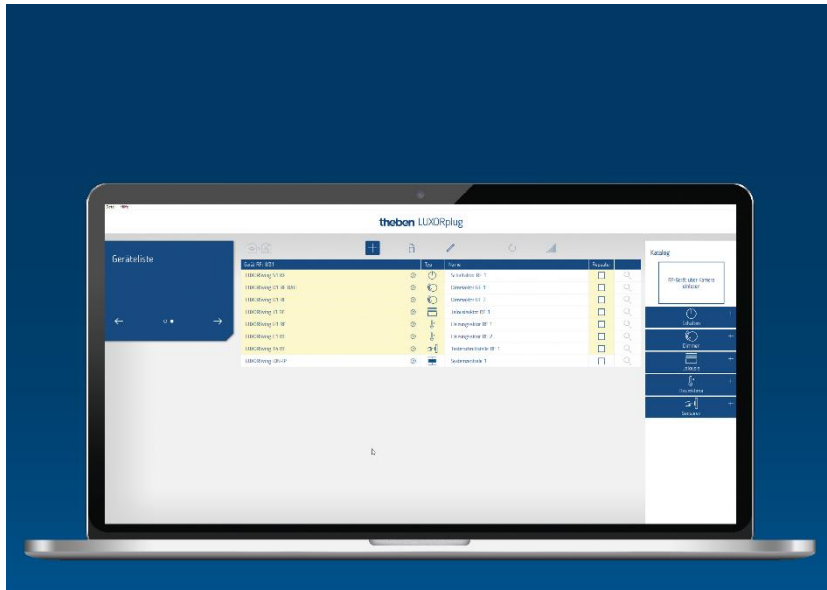
4.2 Create overview

- Use drag & drop to add the rooms to the corresponding floors and assign them individual names.



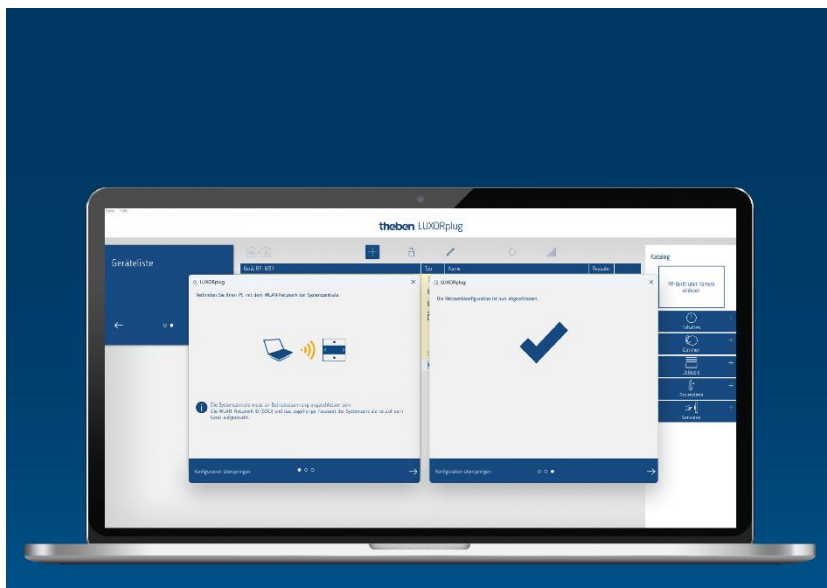
4.3 Integrate devices

- Devices that have already been installed can be added to the system and named. This can also be done offline.



4.4 Connection to the home network

- The integrated network wizard allows you to connect the central device to your home network with just a few clicks.



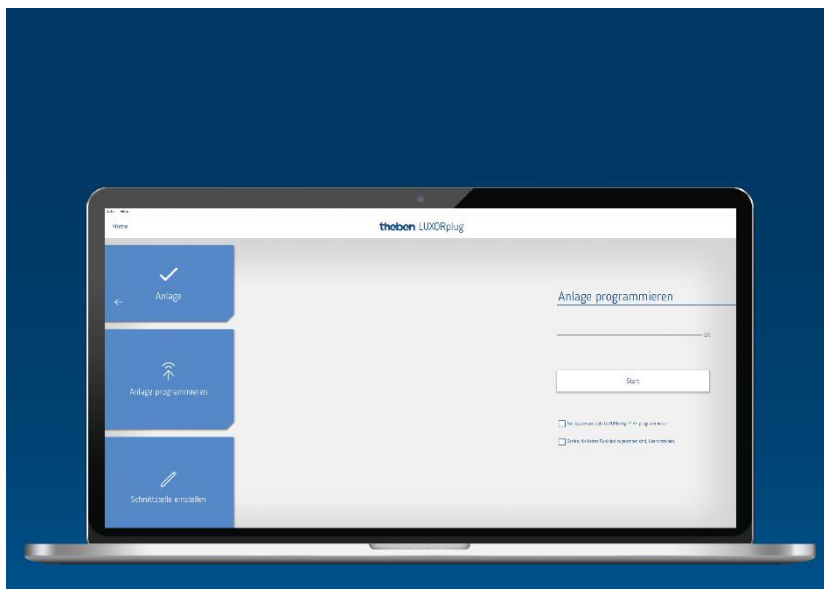
4.5 Set functions

- You add functions to the devices per room using drag & drop. This determines which devices communicate with each other.



4.6 Programming functions

- These functions can be transferred at any time. The project planning does not necessarily have to be fully completed for the devices to be programmed.

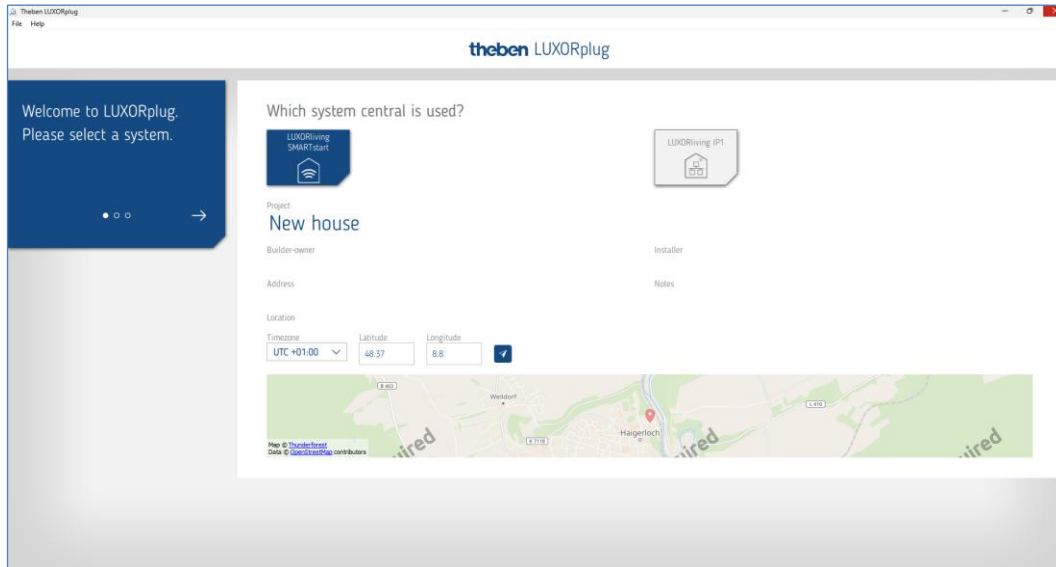


5 Commissioning with LUXORplug

The following steps must be taken when creating a project:

- Project details (project name, address, etc.)
- Create building structure (floors and rooms)
- Create device list (create device list manually)
- Integrating the LUXORliving SMARTstart system central into the network (IP setup)

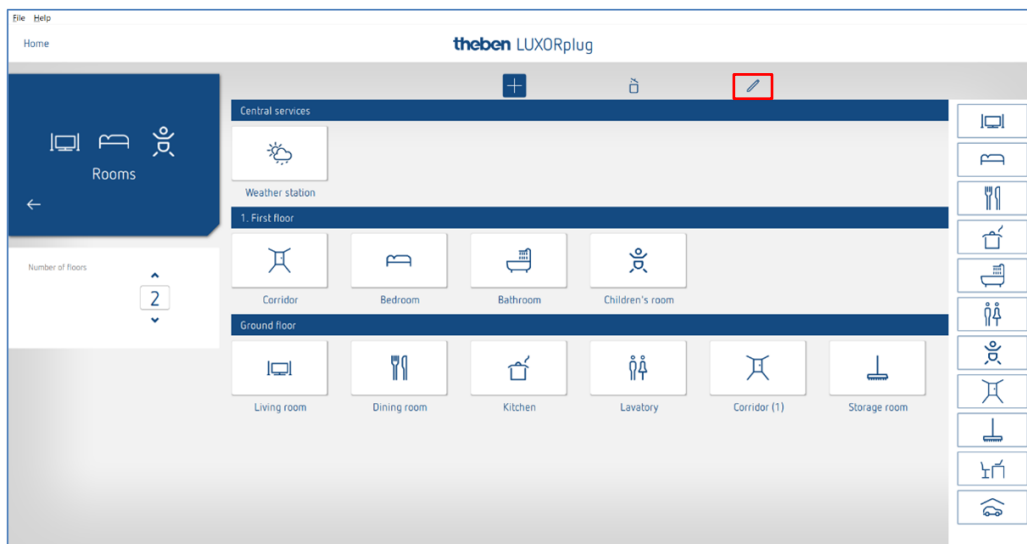
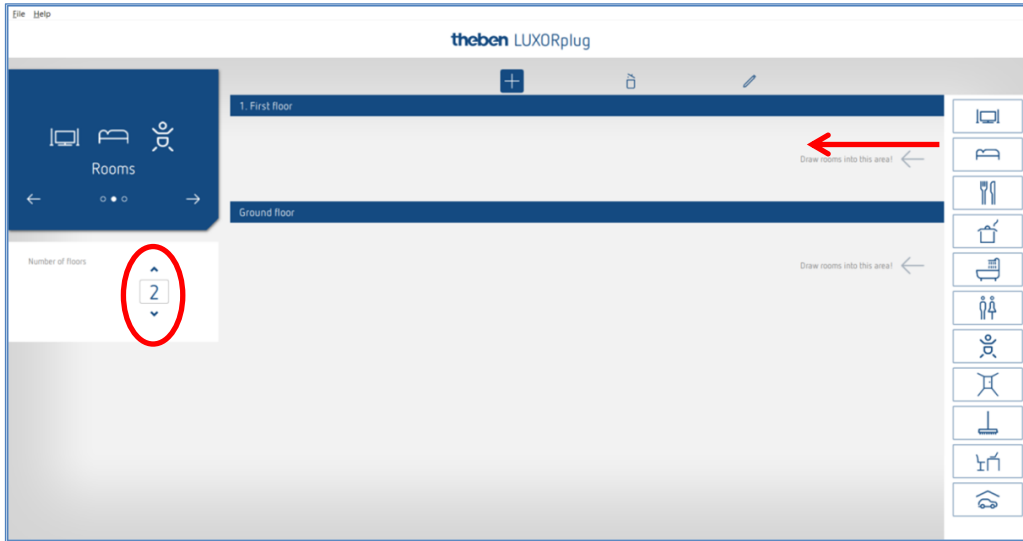
The start page appears with the following information about the project:






- Selection of the system central: LUXORliving SMARTstart or LUXORliving IP 1.
- Enter the project name, address, installer, etc.
- Enter the current location for Astro switching times.

5.1 Define floors and rooms

Use the navigation with the arrow symbols to go one menu step further (→) or back (←). In the next step, you can specify the number of floors and insert the corresponding rooms on each floor. This building model is used for display and operation in the LUXORplay app.



5.1.1 Further functions

-  Add further floors or rooms
-  Delete floors or rooms
-  Edit floors or rooms

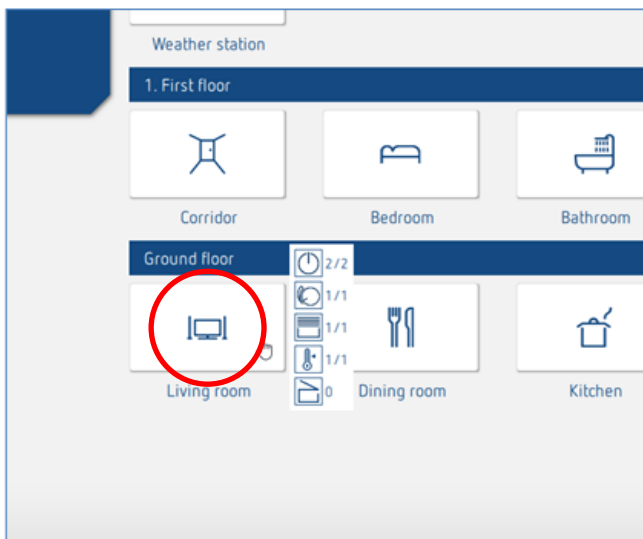
- Click on the pencil. The names of the rooms and floors can be changed in this way.
- Click on a room (e.g. bedroom).

A selection of alternative symbols for the respective room appears.



- Place the mouse pointer on a room in the room view.

The functions configured in this room are displayed.



5.1.2 Parameterisation/commissioning of RF components

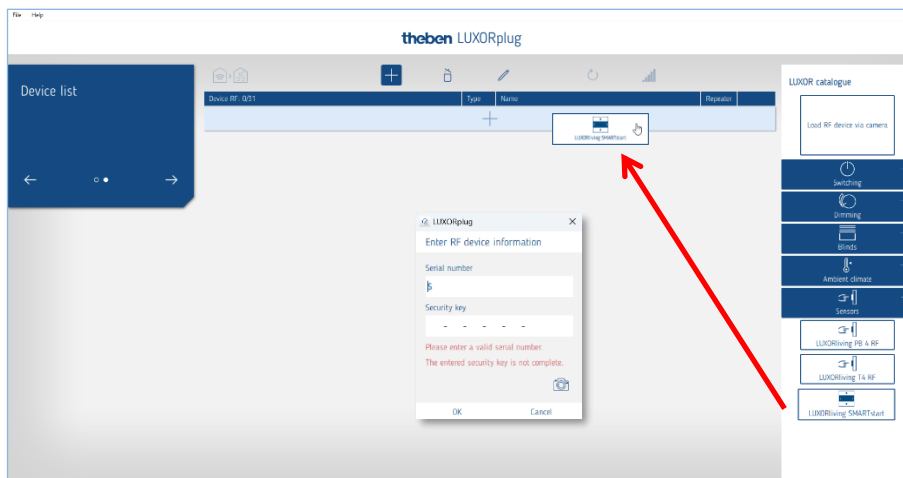
There are two ways of integrating the LUXORliving RF devices into the system.

1. **Manually drag devices from the catalogue into the device list:**

In the "Attachment" view, the catalogue opens via the "+" sign.

- Drag and drop the RF device from the catalogue into the device list.
- Enter the serial number and FDSK manually or click on the camera symbol.

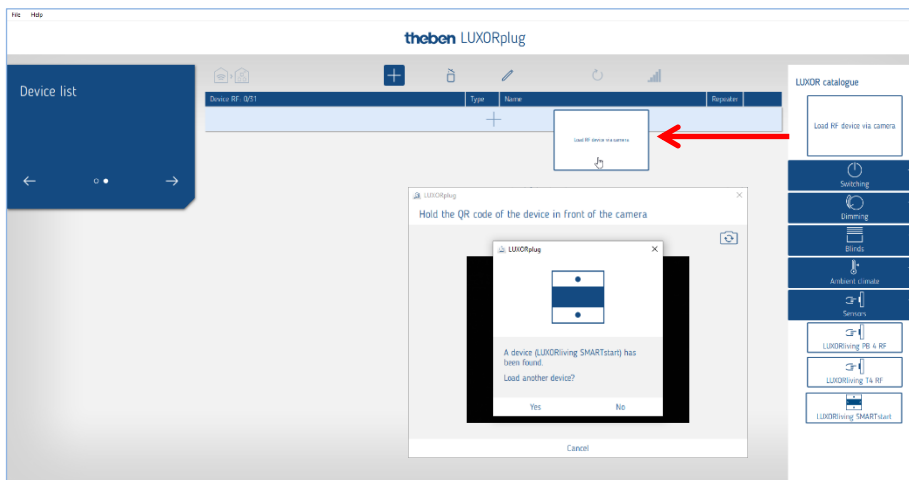
i If the devices are not yet installed or available, this entry can also be skipped. However, the serial number and FDSK must be entered before programming.



2. **Devices via the QR code:**

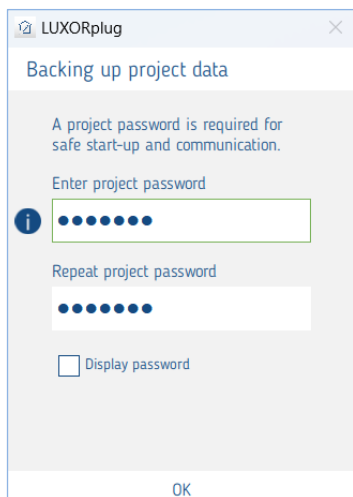
Each RF device has a QR code on the underside, which can be read in using the "Read RF device via camera" function. The function is dragged into the device list; the camera window opens.

- Hold the QR code in the camera until the device is recognised. The serial number and the FDSK (Factory Default Setup Key) are automatically recognised and entered.



- To read in another device, select "Yes". Pressing "No" cancels the read-in process.

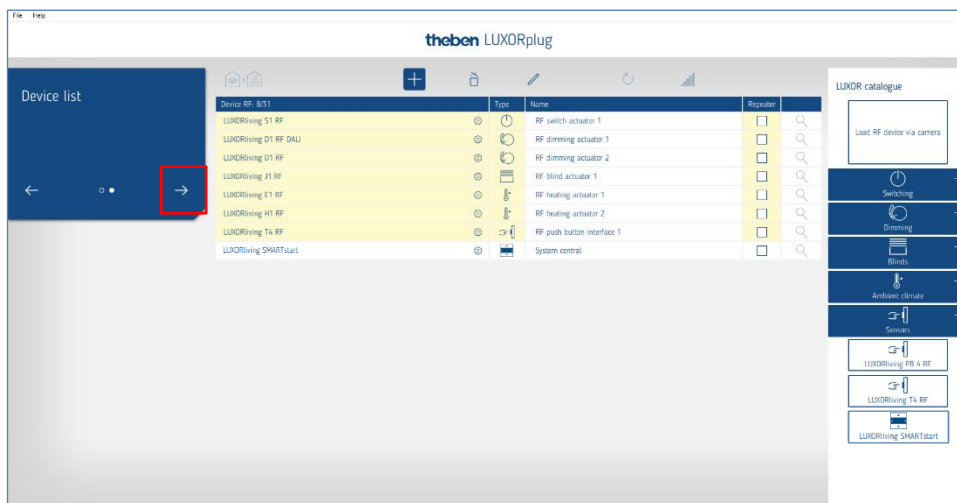
5.1.3 Project password



The project must be protected with a password for secure communication in the system. This project password protects the keys for communication and must always be entered when opening the project file. The project password can be changed at any time under "File / Settings".

If the devices have been correctly read into the system, they are highlighted in colour. After programming the system, this colour coding is removed.

This completes the commissioning of the RF devices. Click on the right arrow to integrate LUXORliving SMARTstart into the network.



This device list can be used to continue the project planning and use the individual functions of the added devices in the rooms.

i The addressing or assignment of the RF domain of the LUXORliving RF devices only takes place during programming.

5.1.4 LUXORliving SMARTstart Network Assistant "IP Setup"

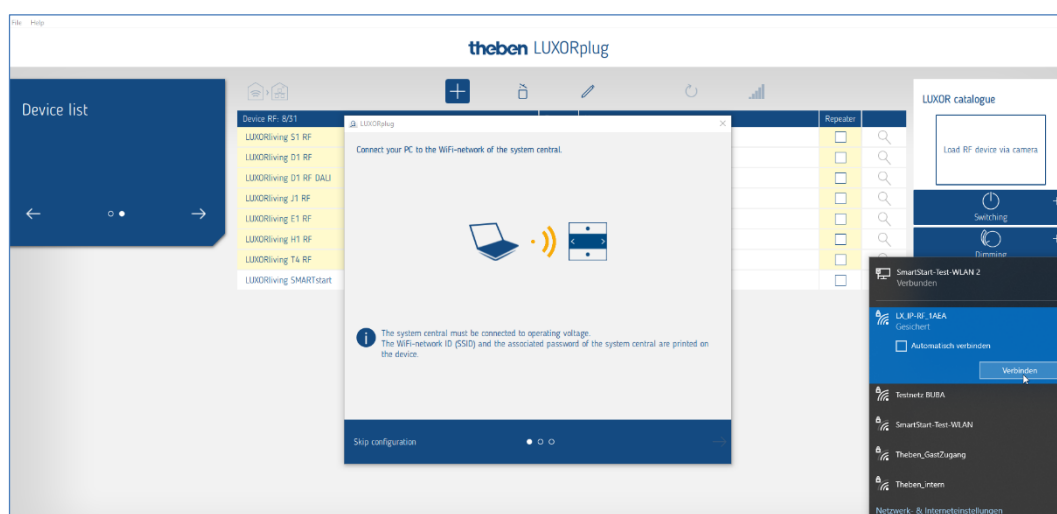
To integrate the LUXORliving SMARTstart system central into the home network, the WIFI of the system central must first be selected in the WIFI settings of the PC and the corresponding security key entered.

On delivery, the system central sets up its own network (access point); this is shown on the LUXORliving SMARTstart display and in the WIFI settings of the PC:

1. On your PC, select the network shown on the LUXORliving SMARTstart display and select "Connect".
2. Enter the security key (often referred to as the "password").

i The factory setting for the security key is "luxorliving".

The following window appears after a successful connection:

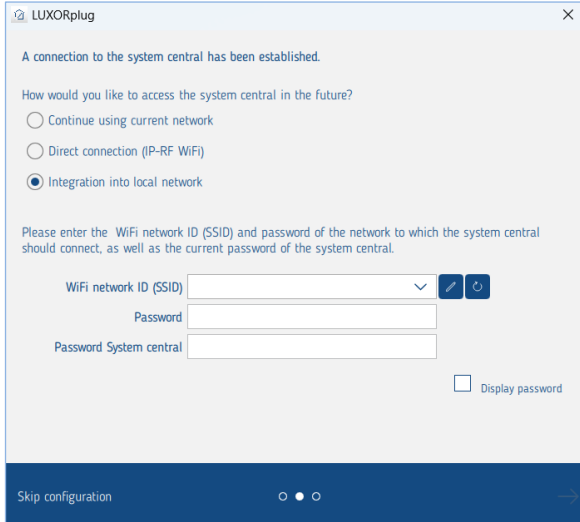


You now have two options for putting the system central into operation:

1. Direct connection (access point mode)

i The system central can only be put into operation if the PC is connected to the WIFI of the system central.

2. Integration into your own (local) WIFI. This is the typical application.

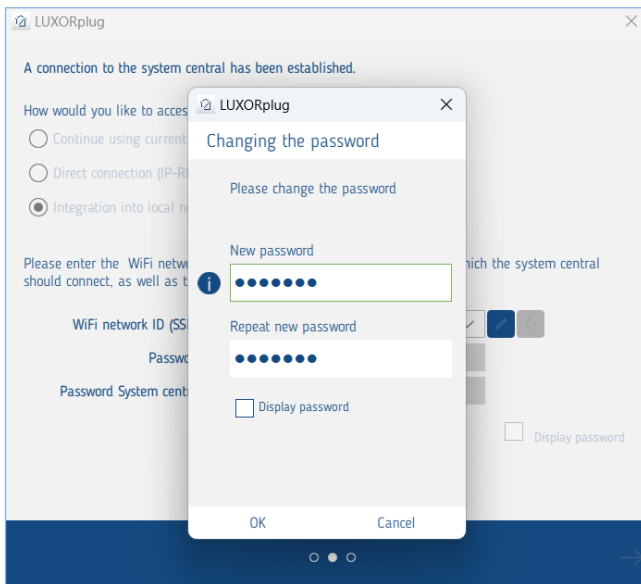


To integrate the system central into your own WIFI, select the corresponding WIFI from the list, enter the corresponding security key (password) and the password for the system central.

i The factory setting for the system central password is "admin".

i No open networks are supported.

For security reasons, the password for the system central must be changed below.

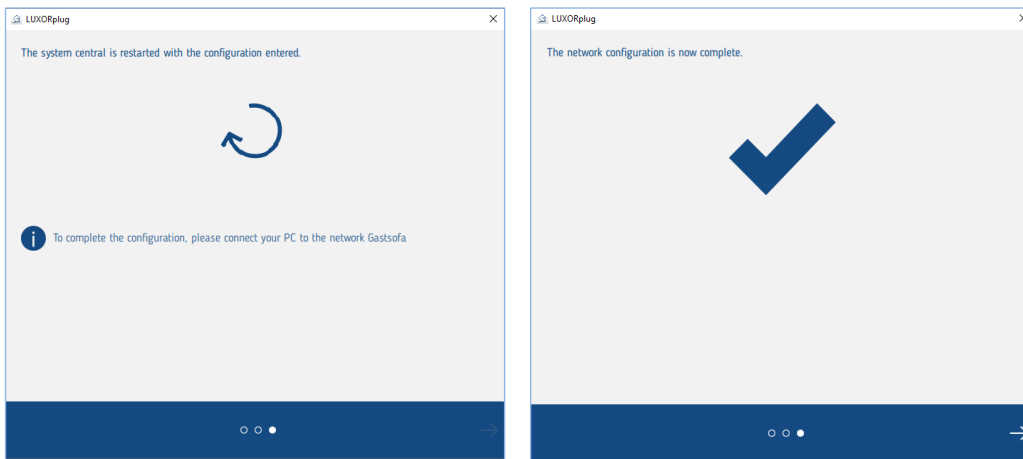


➤ Enter your own password. This must consist of at least 6 characters and one digit.

i For security reasons, the password must always be entered when programming the system.

i The password can be changed at any time under "File / Settings".

To complete commissioning, the PC must now also be connected to the local network.



Commissioning is therefore complete.

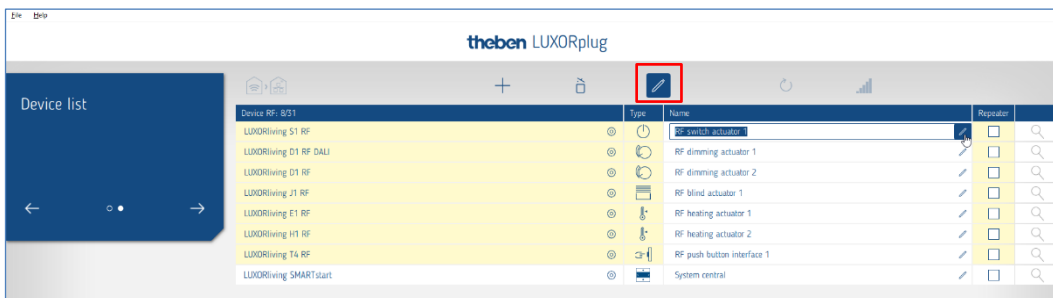
i If the system central has been successfully integrated into the local WIFI, the network SSID of the system central is no longer displayed in the list of available WIFI connections. To reconnect directly to the network of the system central, use the network wizard (IP setup) again and select: "Direct connection" (IP-RF WIFI)".

i The network wizard can be restarted at any time to change the network connection of the system central. The wizard can be found under System > Set interface > "IP setup".

5.1.5 Functions in the device list

5.1.5.1 Name devices

Each device must be clearly labelled (with the "pencil" symbol) so that it can be assigned to functions and rooms. Each device can be labelled with the installation location, function or other identifier, for example.

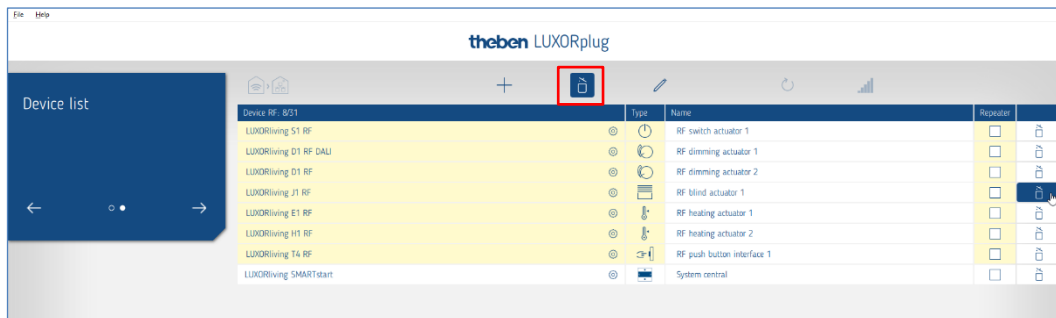


5.1.5.2 Delete devices

The "rubbish bin" symbol (delete) is used to remove individual devices from the device list.

The deleted devices are temporarily saved in a clipboard until the project is closed. The advantage of this is that the Ph. address of the device is retained and only the link in the rooms is deleted.

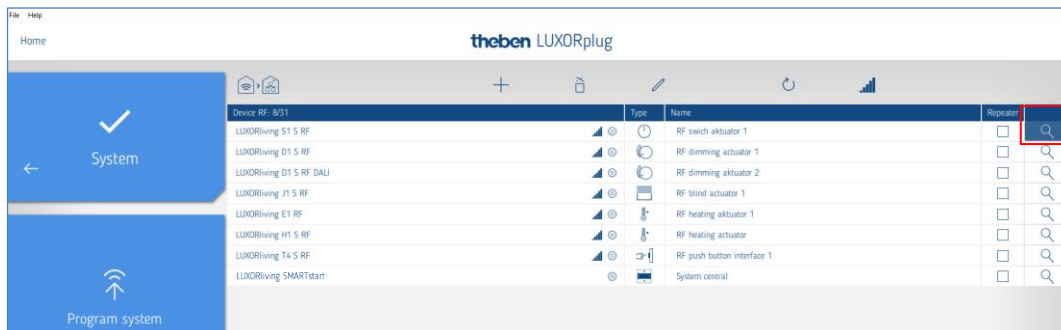
This can be helpful if the device is to be used elsewhere in the project or if individual triggers/channels can no longer be found. The previously deleted device can be added back to the list using the "+" symbol.



5.1.5.3 Identify devices

The "magnifying glass" is used to identify the device in the installation.

- Click on "Magnifying glass": The red LED on the device flashes and enables identification. In addition, the so-called "WINKEN" function is activated on the device. This means that the connected devices are briefly signalled by their function. Switching/dimming: On/Off, blinds up/down.



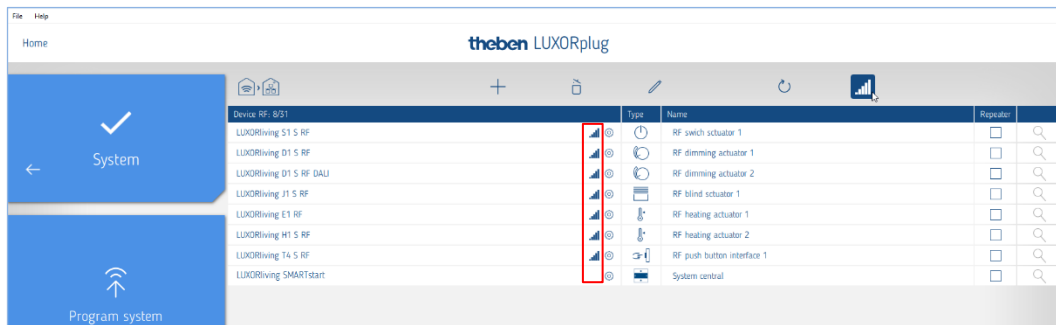
i This function is only available once the system has been successfully programmed.

5.1.5.4 Determine the range of the RF devices

The "range symbol" in LUXORplug can be used to determine the range of the radio devices. Click on the symbol to determine the radio range for each individual device in the system. This process can be repeated as required and is particularly useful for commissioning.

History:

- All bars blue = full reception
- No bar blue = device is present in the system, but programming is not possible
- Grey symbol with X = device is not responding, check power supply



i The RF range check can only be used after successful programming.

5.1.5.5 Repeater" function

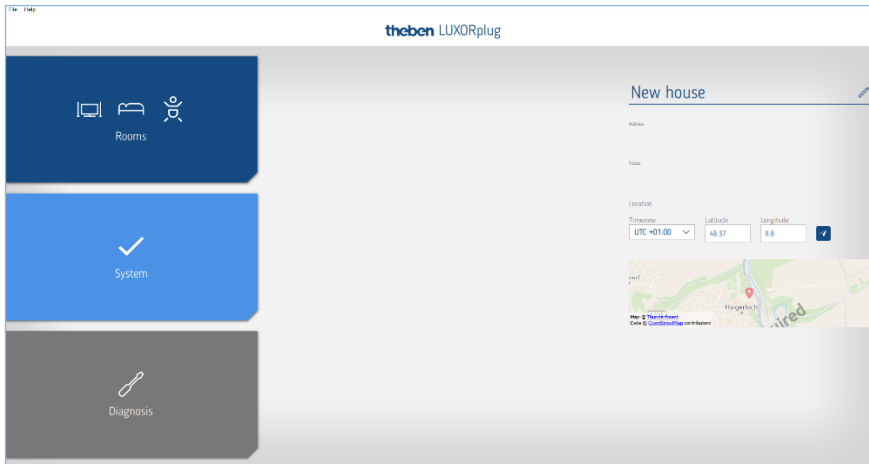
All LUXORliving RF devices have a parameterisable repeater function, i.e. received telegrams can be sent again if required to increase the range.

To optimise the range, individual RF devices can be used as "repeaters" so that more distant RF devices can also be reached.

i However, it is advisable not to use too many devices as repeaters, as this can lead to increased radio communication in the system and the signals negatively influence each other.

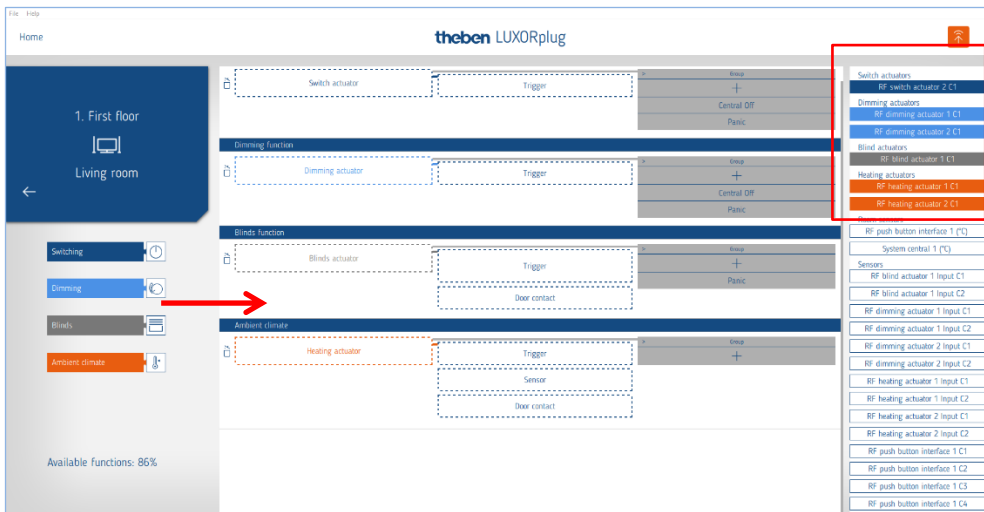
5.1.6 Insert functions

Once the device list has been edited and finalised, the **main menu** is displayed.



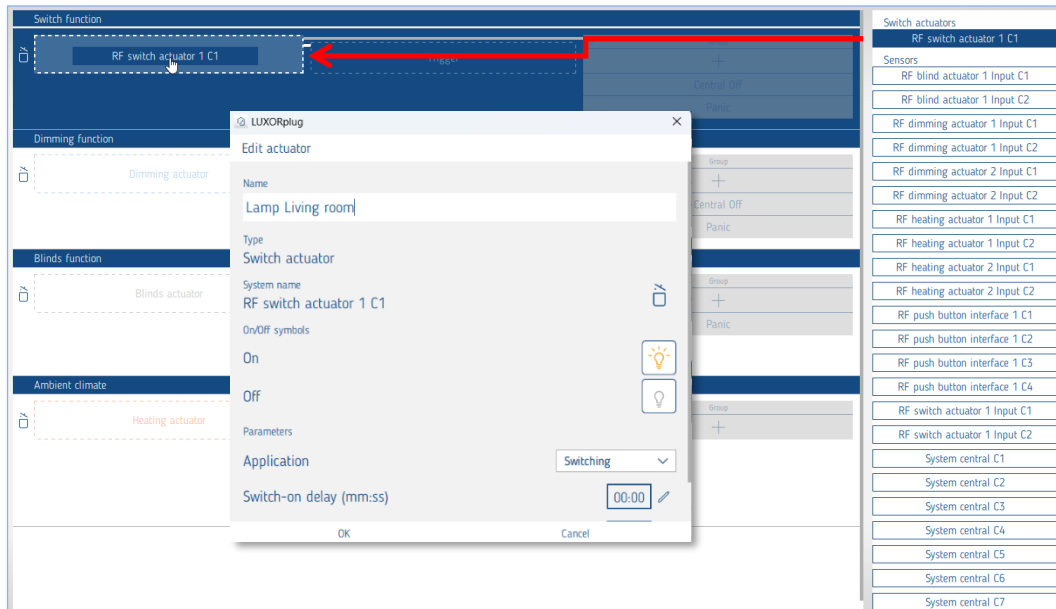
- Click on the "Rooms" field.
 - The building view opens and enables room-related configuration of functions.
- Then click on the desired room, for example the living room.
- Drag the desired functions to the right into the room.

The devices matching the selected function are displayed on the right-hand side.



5.1.6.1 Switching with LUXORliving S1 and PS1 RF

- Drag the corresponding channel marked in blue (e.g. switching actuator 1 C1) of a switching actuator onto the "Switching actuator" area.
The parameter window for this switching function opens.



The functions can be named, and various parameters can be set in the parameter window.

Use cases

- Switching:** on/off with optional switch-on and switch-off delay
- Basement light:** Switching on/off with additional automatic switch-off after the set time (optionally with switch-off warning)
- Staircase lighting:** Switches on with automatic switch-off after the set time. (optionally with switch-off pre-warning)
- Pulse:** Switches on with automatic switch-off after the set time (can be ended prematurely by pressing and holding the button)

i Function after voltage recovery: Channels configured as basement and staircase lighting function switch ON for the set time.

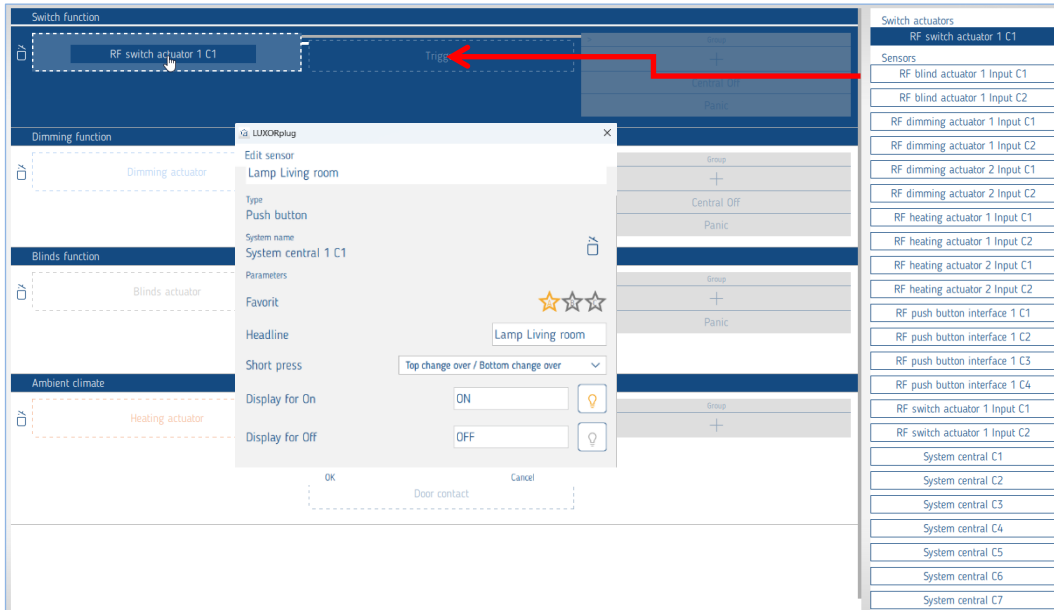
A "trigger" can then be assigned to the switching channel (a maximum of 8 triggers can be assigned to a channel).

Available triggers:

- T1 - T35 Push-buttons of the LUXORliving SMARTstart
- C1 - C4 Push-button module LUXORliving T4 RF
- C1 - C2 Binary inputs of LUXORliving S1, D1, D1 DALI, J1, H1, E1 RF
- C1 - C4 Push-button sensors of LUXORliving PS1, PD1, PJ1 and PB1 RF

(C2 can optionally also be used as a temperature sensor for heating control)

Assignment of a trigger for the LUXORliving SMARTstart system central:

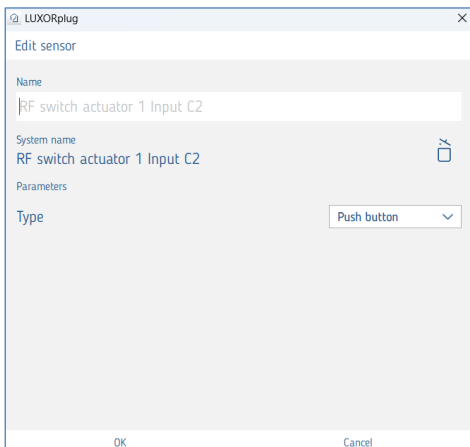


The function can be named and various parameters can be set in the parameter window.

Parameters:

- Favourite:** Selection of whether the function should appear as a favourite.
- Heading:** Labelling of the function
- Short operation:** Selection of how switching should take place during short operation
- Text for ON:** Individual text for switching on
- Text for OFF:** Individual text for switching off

Assignment of a trigger input C1 from an RF actuator:

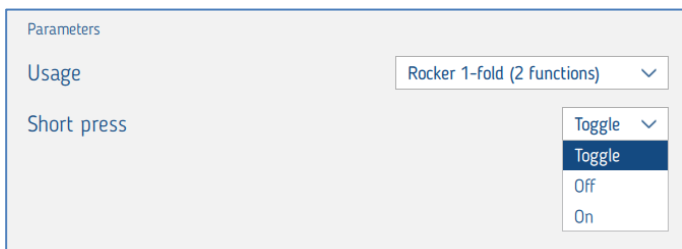


Type:

- Push-button:** Toggle function each time the push-button is pressed
- Motion detector:** "Switch" function (rising edge = On / falling edge = Off)

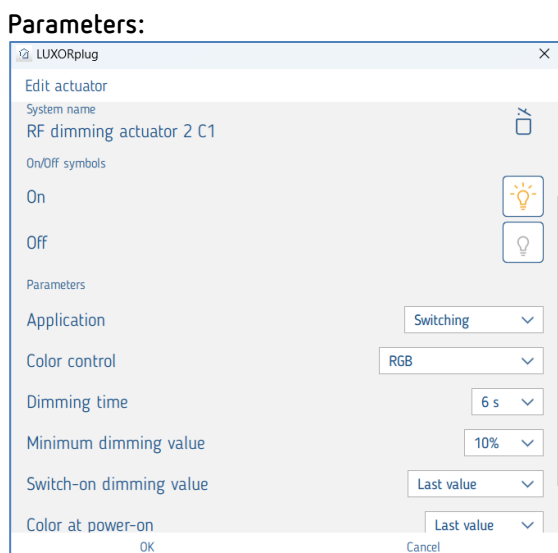
Additional parameter: "Two-surface operation"

The LUXORliving PB4, PS1, PJ1, PD1 RF devices support in addition to the standard parameter **Toggle switching (single-surface operation)**, also **two-button operation (ON/OFF)** for switching.



5.1.6.2 Dimming with LUXORliving D1 and PD1 RF

- Drag the corresponding channel of a dimming actuator or a DALI actuator onto the "Dimming actuator" area. The parameter window for this dimming function opens.



The function can be named, and various parameters can be set in the parameter window.

Use case:

- Switching:** Manual ON and OFF switching
- Staircase lighting:** Switching on with automatic switch-off after the set time. Staircase lighting time: Selection of the time after which the time is automatically switched off

Load selection:

Auto: The connected load type is automatically recognised by the dimming channel.

Inductive: Dimming channel operates with **leading edge phase control**

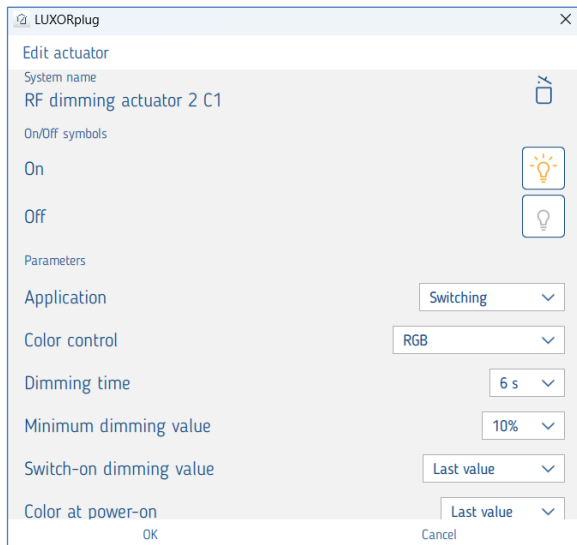
RC load (LEDs): Dimming channel works with **trailing edge phase control**

ATTENTION:

- No load detection active!**
- Do not connect any inductive loads!**

- ESL-L and ESL-RC:** Settings for dimmable energy-saving lamps/ Compact fluorescent lamps
- Dimming time:** The dimming time defines the dimming speed for the entire dimming period.
Dimming range 0 ...100 %.
- Minimum dimming value:** Adaptation to the connected light source. If the light source flickers, e.g. at dimming values < 10 %, the minimum dimming value must be limited to 10 %.
- Switch-on value:** Selection of the switch-on value. The value can be set from 10 % - 100 %; the value before switching off or the minimum value can also be set.

Additional parameters LUXORliving D1 RF DALI



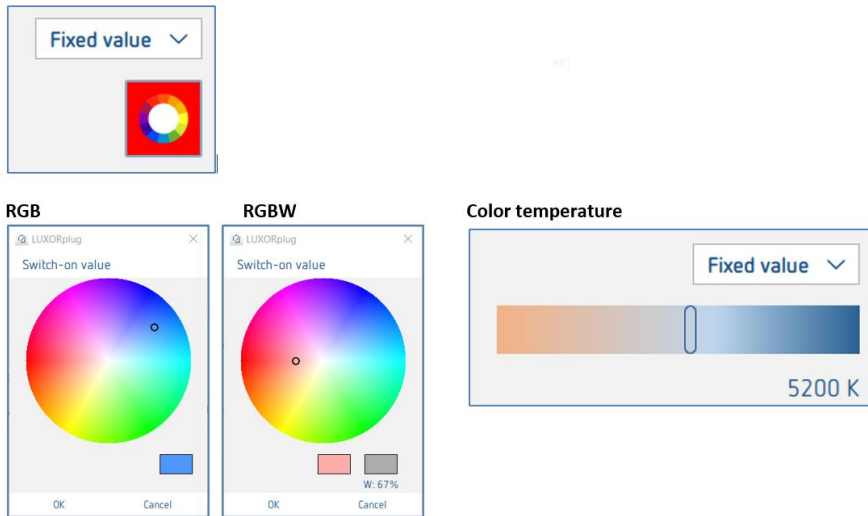
Colour control: Here you can select which colour control is to be used on the respective channel. You can choose between "None", "RGB", "RGBW" or "Colour temperature".

Colour when switching on: **Last value:** The last colour value is used.
Fixed value: The colour picker that appears is used to set which colour or colour temperature is used when switching on.

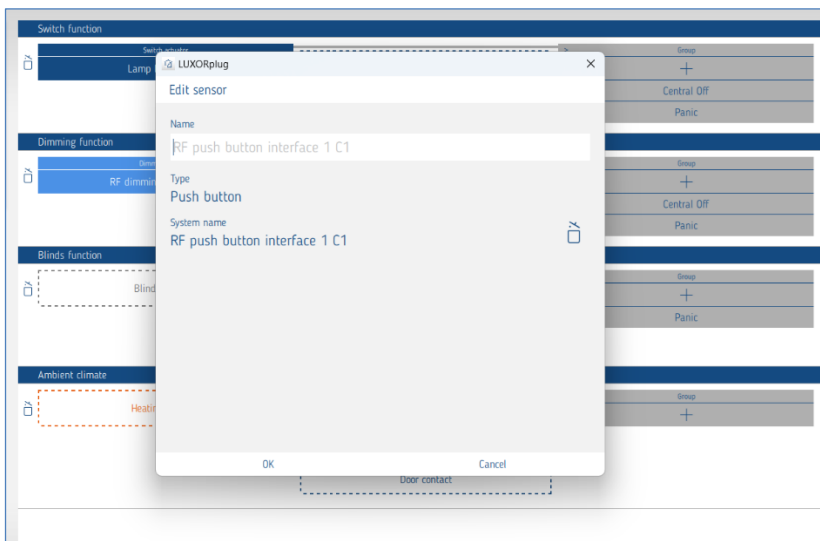
Time for colour change: This parameter is used to decide how quickly the colour value is changed.

Colour selection for the "Fixed value" setting when switching on

If you press the colour picker symbol, you can change the colour or colour temperature in the colour field which is to be activated when switching on.



A "trigger" can then be assigned to the dimming channel (a maximum of 8 triggers can be assigned to a channel).



The function can be named in the parameter window.

Additional parameter: **“Two-button operation”**

The following devices support **“Two-button operation”** in addition to the standard parameter **“Single-surface operation”** when dimming.

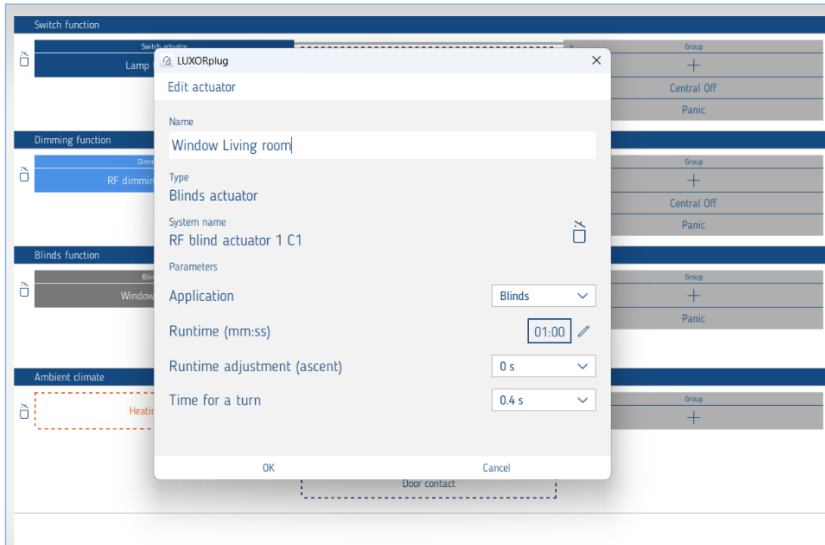


Functional description:

Designation	Values	Description
<i>Response to long / short</i>	Single-button operation	The push-button distinguishes between a long and a short press and can therefore perform two functions. The dimmer is operated using a single push-button. Short press = ON / OFF Long press = brighter / dimmer Release = Stop In the other variants, the dimmer is operated using two buttons (rocker).
	Brighter / On	Short press = On Long press = brighter Release = Stop
	Brighter / Toggle	Short press = On / Off Long press = brighter Release = Stop
	Dimmer / Off	Short press = Off Long press = dimmer Release = Stop
	Dimmer / Toggle	Short press = On / Off Long press = dimmer Release = Stop

5.1.6.3 Blind with LUXORliving J1 and PJ1 RF

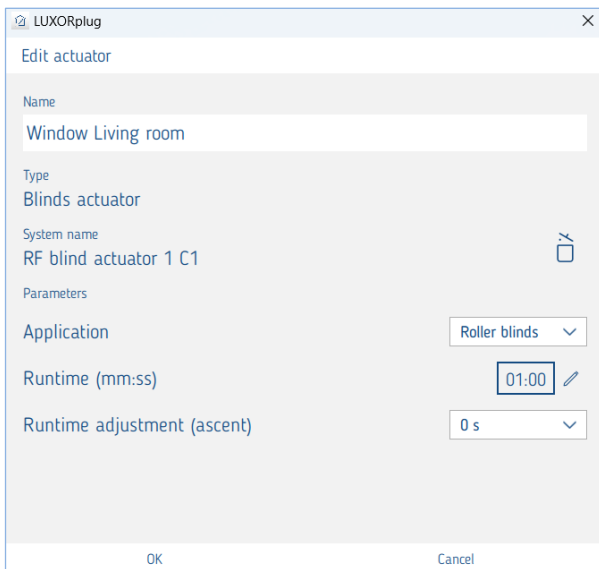
- Drag the corresponding channel of a blind actuator onto the blind actuator surface.
The parameter window for this blind function opens ("Blinds" use case).



The function can be named, and various parameters can be set in the parameter window.

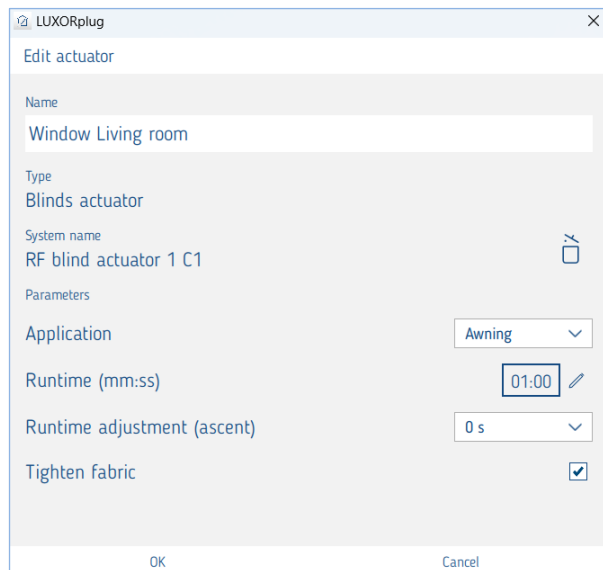
For each blind channel, the total running time, the time for a slat adjustment (step), as well as a runtime correction (additional running time that is **only applied during upward movement**) can be configured individually.

"Roller blinds" use case



The total running time and a running time correction can also be set individually for each roller shutter channel.

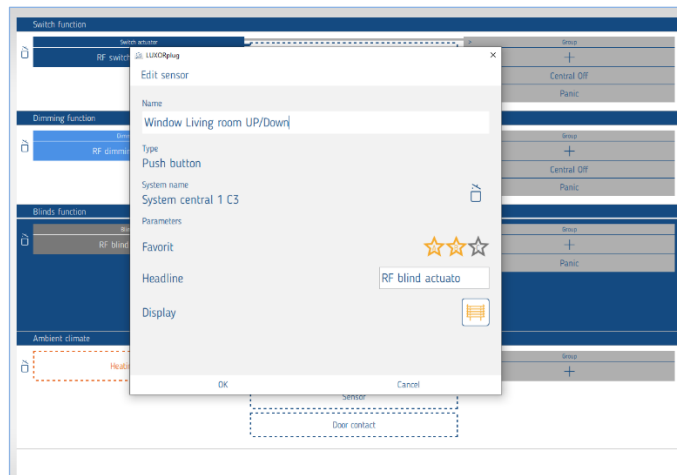
"Awning" use case



The total running time, fabric tensioning and participation in weather station functions can be set individually for each awning channel.

In the case of an awning, the reaction to one of the alarm functions means: "Close" = "Extend awning".

A "trigger" can then be assigned to the blind channel



For the control of a blind, a roller shutter or an awning:

1. Two inputs required (up/down) when using the binary inputs of the RF devices. This input pair is assigned automatically.
2. One input is required when using the push-button function of the LUXORliving SMARTstart system central.

The following must be taken into account when using the buttons on the T4 RF push-button interface:

- Button/command OPEN = C1, C3
- Button/command CLOSE = C2, C4

5.1.7 Button assignment for sensor/actuator devices LUXORliving PS1, PD1, PJ1 and PB1 RF

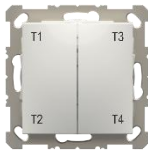
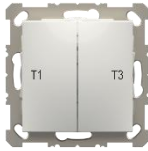
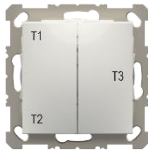
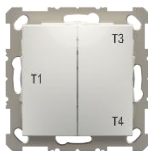
2-way push-button

When using a 2-gang push-button, either individual push-buttons (T1/T2) or rockers (T1) can be parameterised.

Type of operation	Key assignment
Single push-button (T1/T2)	
Rocker (T1)	

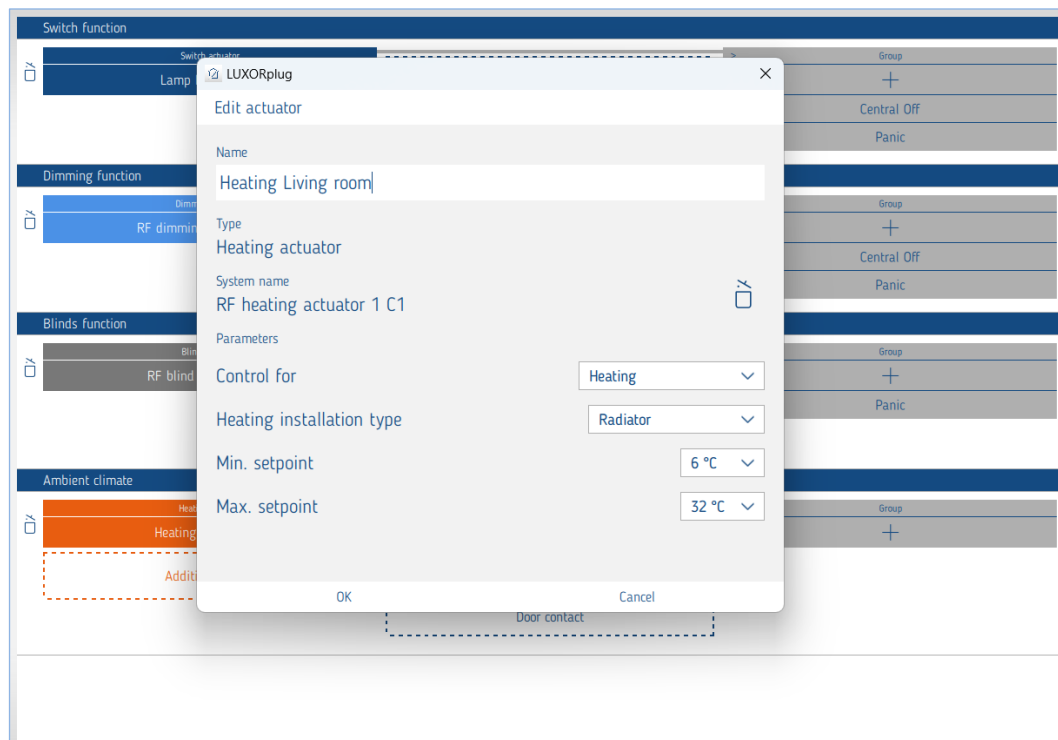
4-way button

When using a 4-way push-button, a distinction is made between left (T1/F2) and right (T3/F4). You can also choose between single push-button and rocker. This results in 4 configuration options.

Type of operation left	Type of operation right	Key assignment
Single push-button (T1/ T2)	Single push-button (T3/T4)	
Rocker (T1)	Rocker (T3)	
Single push-button (T1/T2)	Rocker (T3)	
Rocker (T1)	Single push-button (T3/T4)	

5.1.7.1 Heating with LUXORliving H1 RF

- Drag the corresponding channel of a heating actuator onto the Heating actuator area.
The parameter window for this heating function opens.



The function can be named, and various parameters can be set in the parameter window.

The control supports the operating modes "Heating" and "Heating and cooling". The system type can be set for each operating mode.

Heating system type:

Radiator: For fast heating systems such as radiator or fan-assisted heating systems

Floor: For slow heating systems such as water-bearing underfloor heating

Cooling system type:

Chilled ceiling: For slow cooling systems such as water-bearing chilled ceilings

Fan coil: For fast cooling systems such as fan coil units

User-defined setting (system type heating / cooling):

Proportional band of the heating and cooling controller:

Professional setting for adapting the control behaviour to the room. Small values cause large changes in the control value, larger values cause a smaller change.

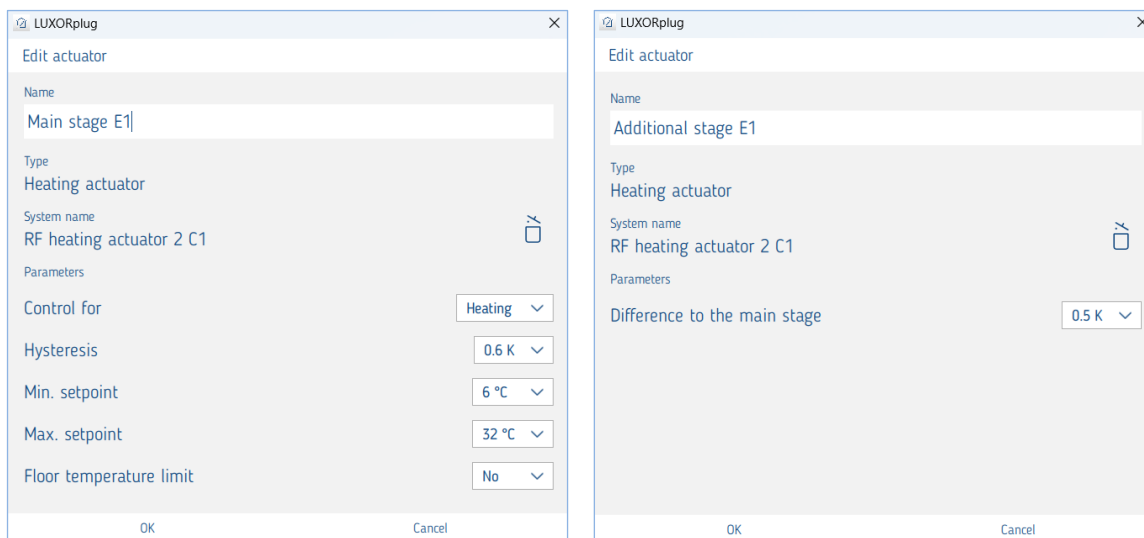
Integration time of the heating and cooling controller:

The integration time determines the response time of the control. It specifies the gradient with which the output manipulated variable is increased in addition to the P component. The I component remains active as long as there is a control deviation. The I component is added to the P component.

5.1.7.2 Heating with LUXORliving E1 RF

LUXORliving E1 RF is a heating actuator for controlling electric heaters, switching (2-point). LUXORliving E1 can be used as a room temperature controller (heating or cooling) or as an additional heating stage.

LUXORliving E1, E1 RF parameters for "Main stage" and "Additional stage":



Control for: The control function used is selected here:
"Heating" or "Cooling"

Hysteresis: Selection of the hysteresis of the 2-point controller, which is centered on the setpoint value.

Min. setpoint: If a setpoint is received that is lower than the value set here, it is limited to this value.

Max. setpoint value: If a setpoint value is received that is higher than the value set here set here, it is limited to this value.

Floor temperature limitation:
 If the set maximum floor temperature is exceeded, the controller switches the heating off.
 For the heating to switch on again, the temperature must first fall below the set value. The amount by which the temperature must drop is determined by an adjustable **hysteresis of 1 K to 5 K**.

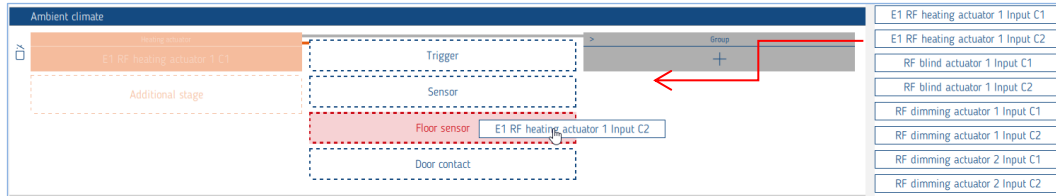
Example:
 If the maximum temperature is set to 29 °C and the hysteresis is set to 2 K, the heating will only switch on again once the floor has cooled down to 27 °C.
 The current floor temperature is monitored internally.
 This function is **not a safety temperature limiter**.

Additional level: difference to the main level:

The setpoint of the additional stage is calculated from the difference the setpoint of the additional stage is calculated.

Additional stage function: The channel receives the setpoint and the actual value of the main controller via the bus and generates the control value independently via an internal controller. The additional stage can only be used for the control mode "Heating" control mode. The additional stage of E1 can be used with any LUXORliving heating actuator.

External inputs: The device has 2 external inputs for buttons, switches, etc. Input I2 can also be used as a temperature input, e.g. as a floor sensor. For example. ¹⁾



¹⁾ available sensors:

9070496 Temperature sensor flush-mounted



9070321 Floor sensor



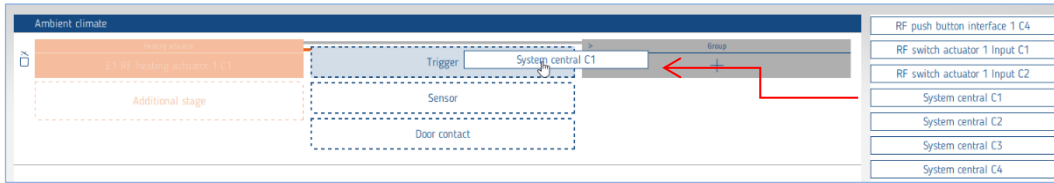
9070459 Temperature sensor IP65



5.1.8 Heating and cooling control in LUXORliving Smart Start

Trigger:

Only one LUXORliving SMARTstart channel may be used as a trigger. In this way, the desired setpoint can be set in the system central display.

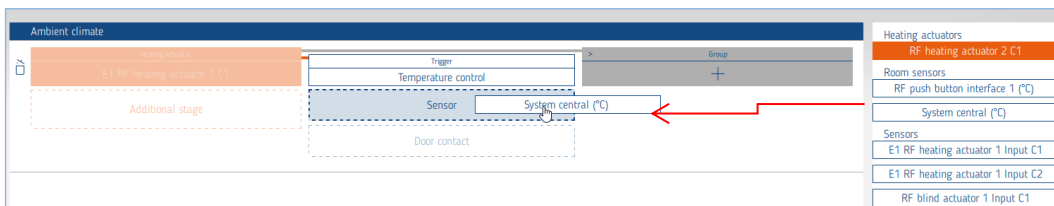


Sensor:

The following channels support temperature detection:

Device name	Channel designation	Temperature range
LUXORliving S1 RF	C2	-5 °C ... 45 °C
LUXORliving J1 RF	C2	
LUXORliving D1 RF	C2	
LUXORliving H1 RF	C2	
LUXORliving E1 RF	C2	
LUXORliving D1 DALI RF	C2	
LUXORliving T4 RF	Push-button interface (°C)*	
LUXORliving PB RF	Push-button sensor (°C)*	
LUXORliving SMARTstart	System central (°C)*	

* Internal temperature sensors



LUXORplug

Edit sensor

Name
Temperatur Living room

Type
Push button

System name
RF blind actuator 1 Input C2

Parameters
Calibration value: 0 K

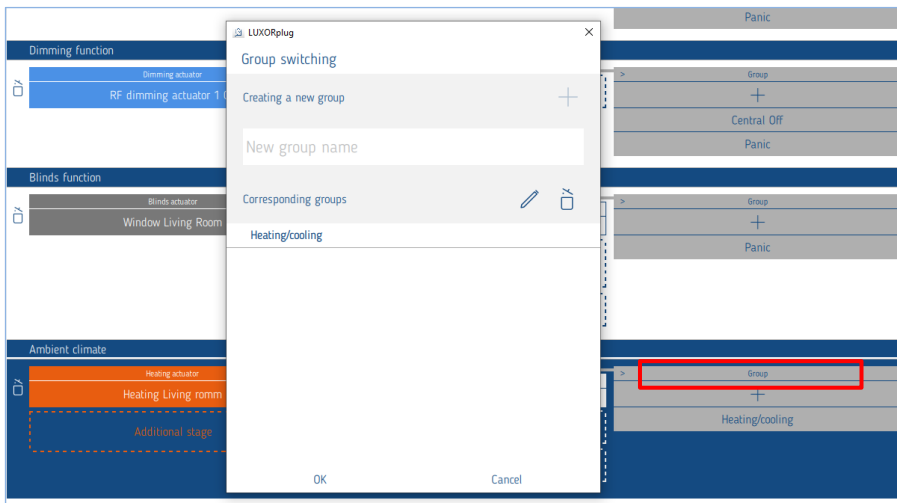
OK Cancel

The function can be named and a room calibration can be set in the parameter window. Room equalisation enables subsequent adjustment of the temperature measurement.

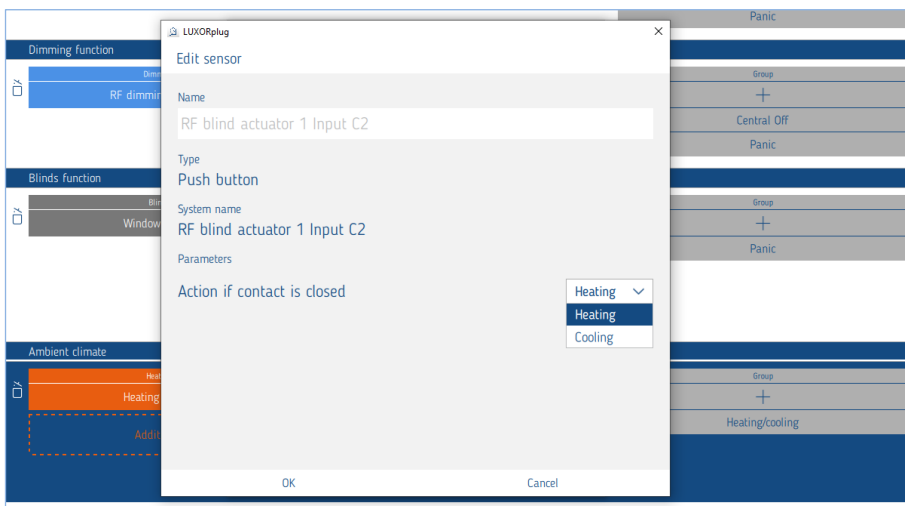
- i** The temperature measurement with the internal temperature sensor (System central (°C)) requires a certain amount of time during initial commissioning until the measured temperature corresponds to the actual room temperature (warm-up phase). The warm-up phase usually lasts 1 hour. After this phase, the measured temperature corresponds to the actual room temperature.
- i** A usable offset (room calibration) should therefore only be applied after the warm-up phase and in a bright environment.

Heating/cooling switchover (LUXORliving H1 RF only)

- Click on the "Group" field.
The window with the central and group functions opens.



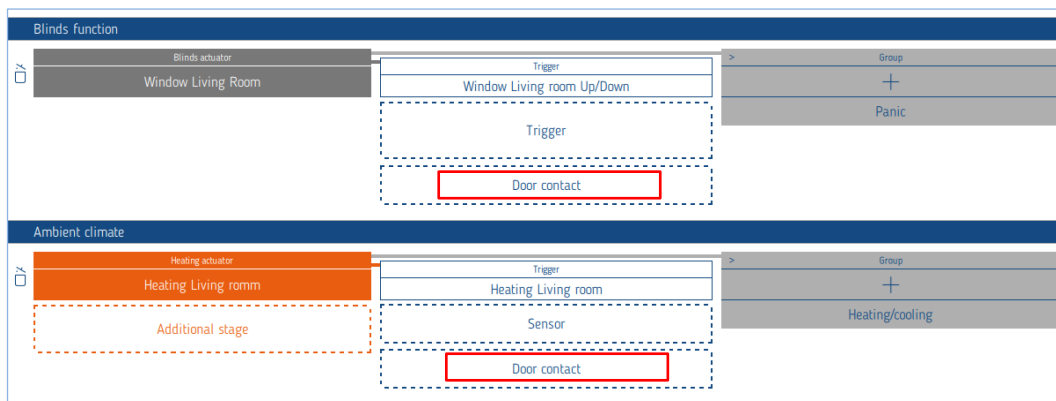
In the **heating and cooling** control mode, a "trigger", e.g. a channel of the binary input, can be dragged to the **heating/cooling** group function and the function type can be set.



5.1.8.1 „Door contact" function

It is possible to connect each channel of the heating actuator and/or each channel of a blind actuator to a door contact. Only the binary inputs of the RF actuators are used for this, which are simply dragged into the "Door contact" field (except T4 RF).

It is also possible to use one and the same window contact for both the heating function and the blind function.



Door contact heating channel

If the door or window is opened, the actuator switches to frost protection mode (6 °C). This interrupts heating for as long as the door / window is open.

Any number of door contacts can be added per channel.

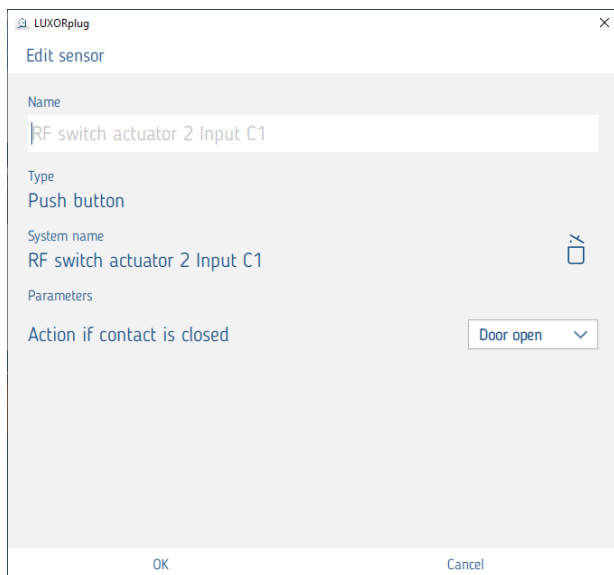
Door contact shutter channel

The door contact prevents automatic movements when the door or window is open.

The following functions are disabled: Switching times.

Manual operation commands (up/down) are executed unchanged even when the door is open.

Only one window contact per channel may be assigned.



The "Action on closed contact" setting depends on the contact used (normally open contact (NO) or normally closed contact (NC)).

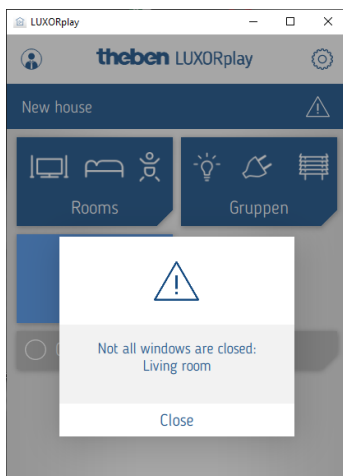
All connected door contacts are stored separately in the LUXORplug app and can be used several times or with other heating and blind channels.

Door contacts
Binary input 4 C1
Push button interface 5 C1
RF switch actuator 3 Input C1

i The window contacts that are already assigned in one room can no longer be used in another room.

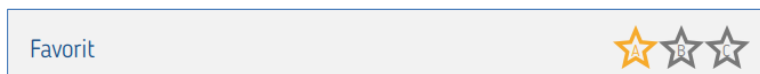
Door and window contacts in LUXORplay

Every open door contact is also displayed in our LUXORplay visualisation:
 Press the "Attention" symbol to display the rooms in which the windows are open.



"Favourite" function for the trigger of the LUXORliving SMARTstart system central control unit

If the LUXORliving SMARTstart triggers are used, each channel offers a favourites option. Three favourites can be defined.
 You can switch between the three favourites A and B and C by pressing and holding the right or left button on the system central. Press the button briefly to exit the favourites menu.

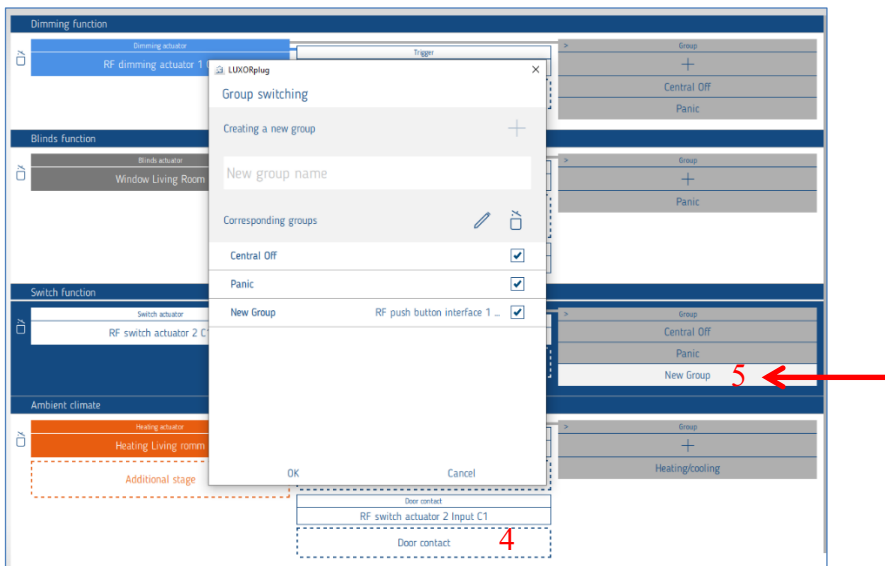
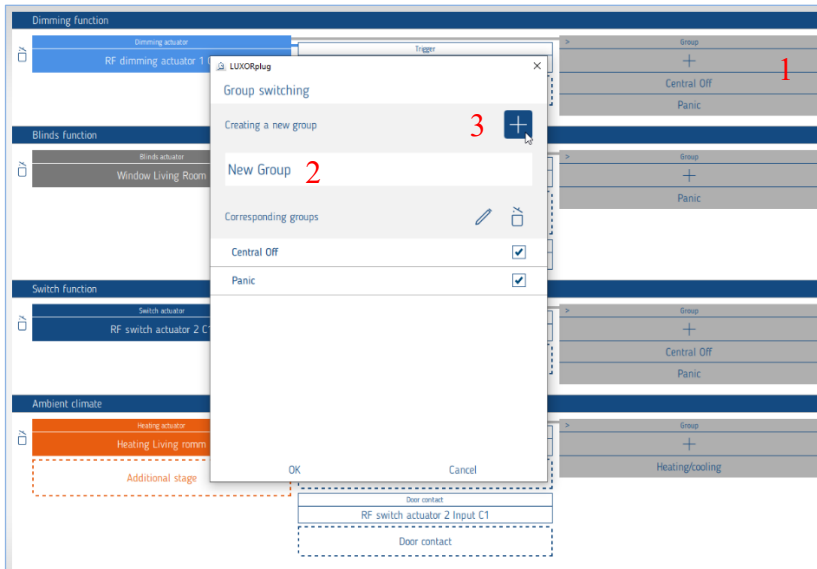


5.1.9 Group function

The group function allows you to control multiple participants who are part of the same group. New groups can be created, assigned or edited in the "Group" field. Once the group has been assigned, a trigger can then be dragged onto the group to trigger it. All sensors can be used as triggers.

Only ON/OFF (switching/dimming) or UP/DOWN commands (blinds/shutters) are supported.

1. Click on the "Group" field. The window with the central and group functions opens.
2. Set group name.
3. Press the "+" symbol.
4. Assign group for the participant (tick the box).
5. Pull the trigger into the group.

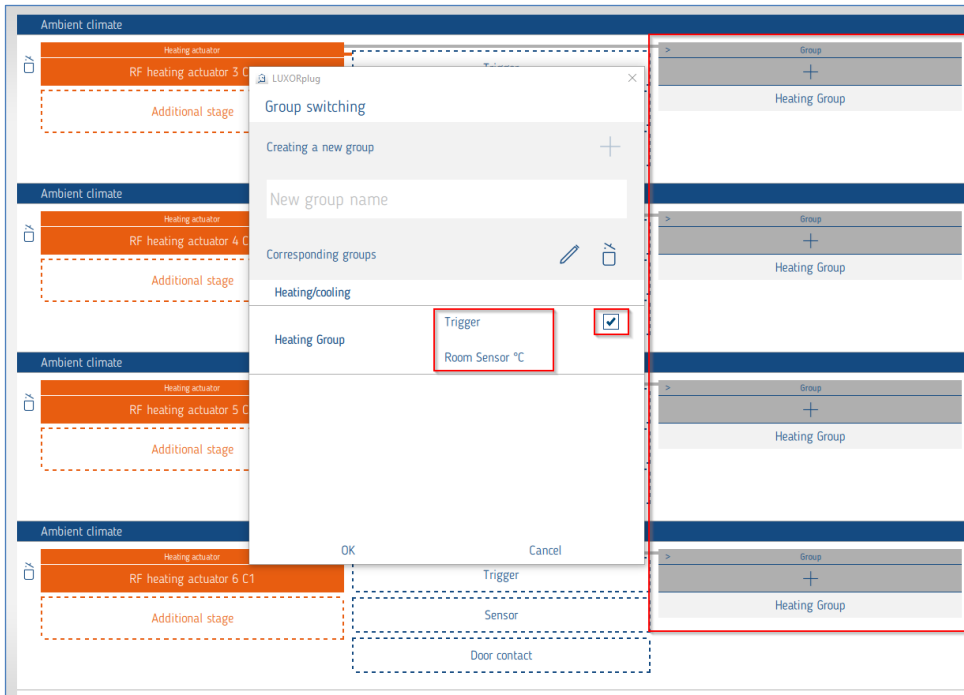


5.1.9.1 Grouping of channels of the heating actuators

In the heating group, several heating channels can be connected to a room temperature sensor and a trigger of the system central. The temperature sensor detects the current room temperature. The desired temperature can be set on the device via the linked trigger.

Create heating group:

1. Click on the "Group" field. The window with the central and group functions opens.
2. Set group name.
3. Press the "+" symbol.
4. Assign group for the participant (tick the box).
5. Drag a temperature sensor **and a trigger** into the group.



The red marker shows the participating channels in the "Heating group", which is linked to a room sensor and a trigger.

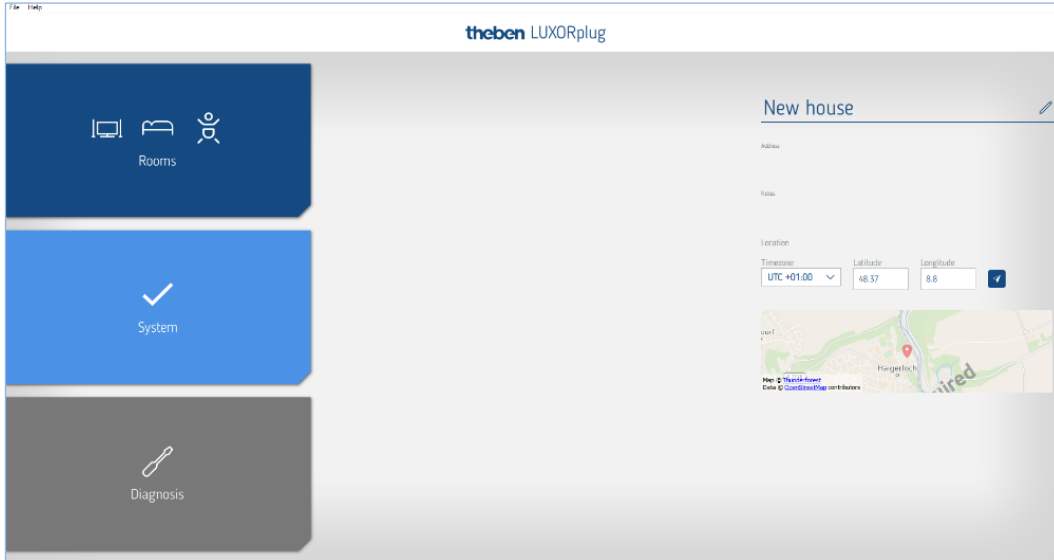
i Only triggers of the system central may be linked in the heating group.

5.2 Programming with LUXORplug

Once the functions have been added to the rooms and set, the system can be programmed.

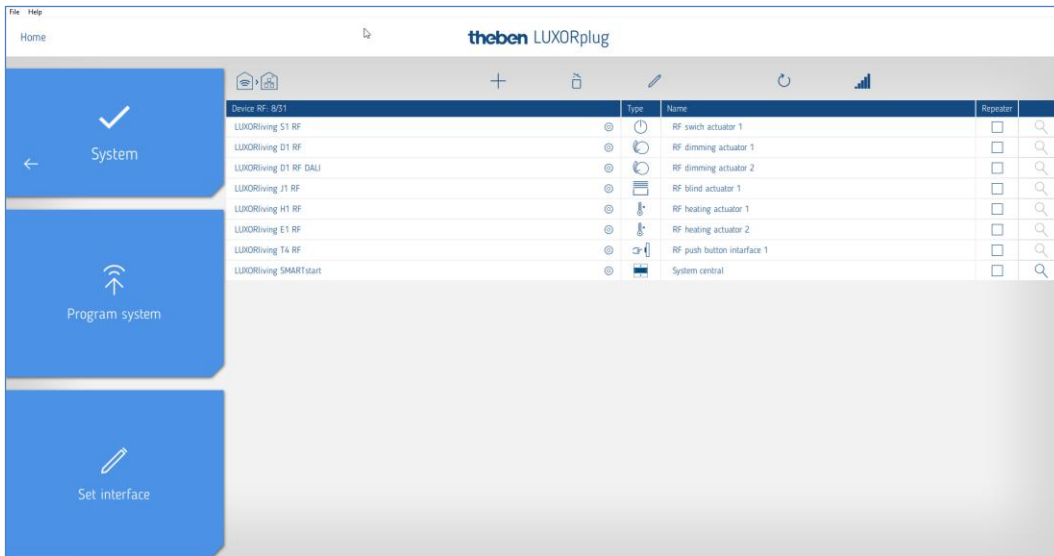
This step is possible at any time, even if only individual functions have been added.

1. Switch to the **main menu** for programming.

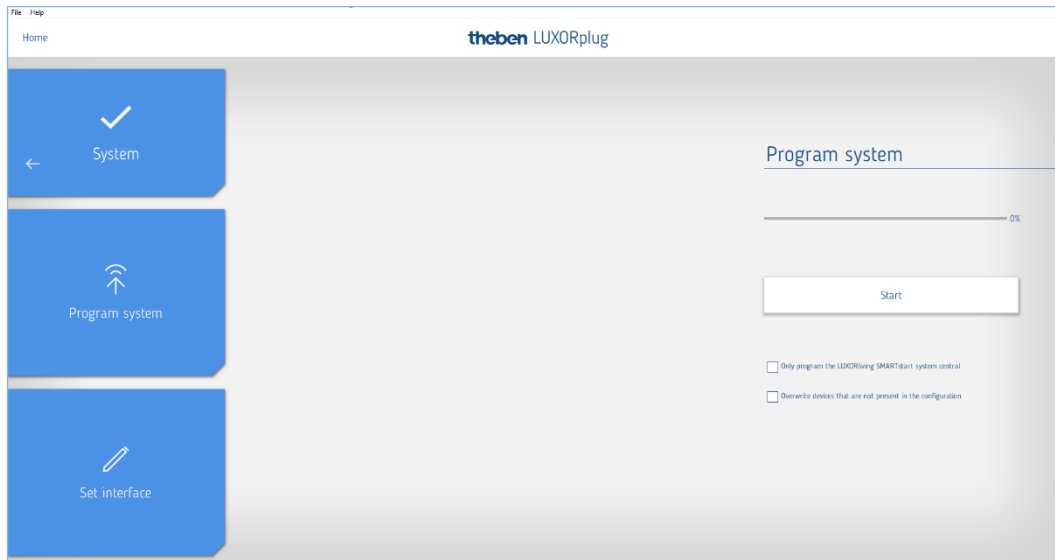


2. Click on the **attachment** field.

The submenu opens.

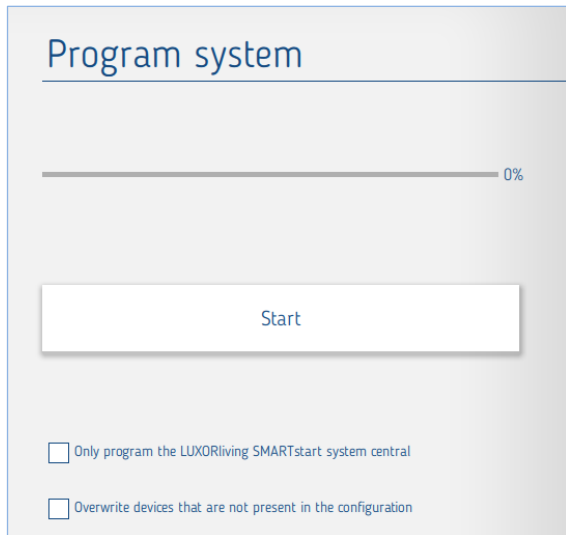


3. Click on the **Programming system** field and then on "Start". All parameterised devices in the system are programmed and the project is loaded into the system central.



Programming takes a little longer the first time, as all device parameters have to be transferred. Subsequent programming is completed more quickly.

Successful programming is reported back.



Parameter "Only program the SMARTstart system central"

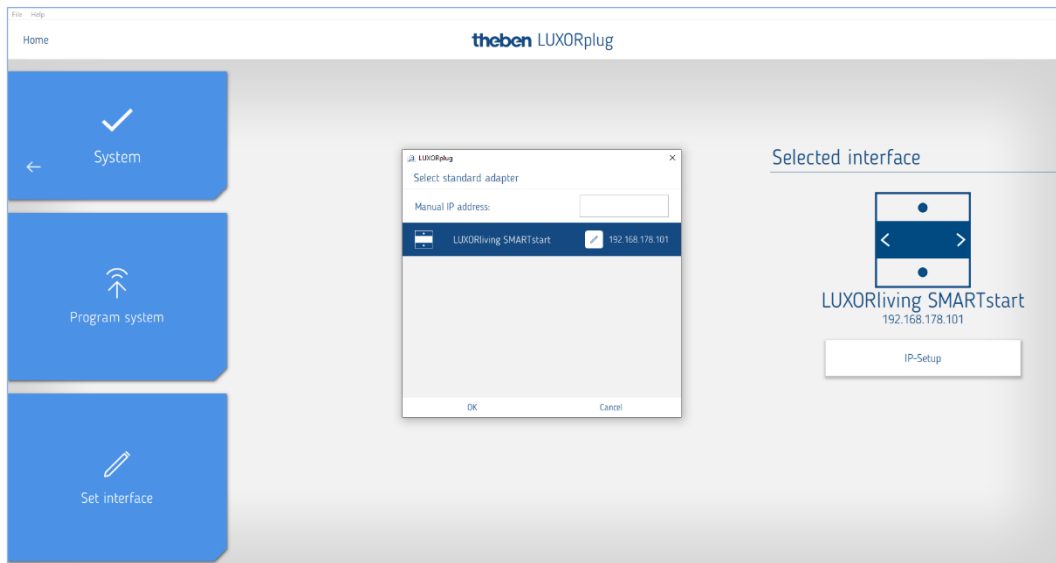
Only the system central is programmed, which may be necessary, for example, after a reset of the system central or if programming has previously failed.

"Overwrite devices that are not assigned to a function" parameter


Existing devices that are not yet assigned to a function are overwritten so that they do not affect the configured functions.

5.2.1 Set interface

Another function in the **System** menu allows you to set the LUXORliving SMARTstart system central. The system central is generally recognised automatically. If this is not the case, the IP address of the connected system central can be entered manually in this menu.

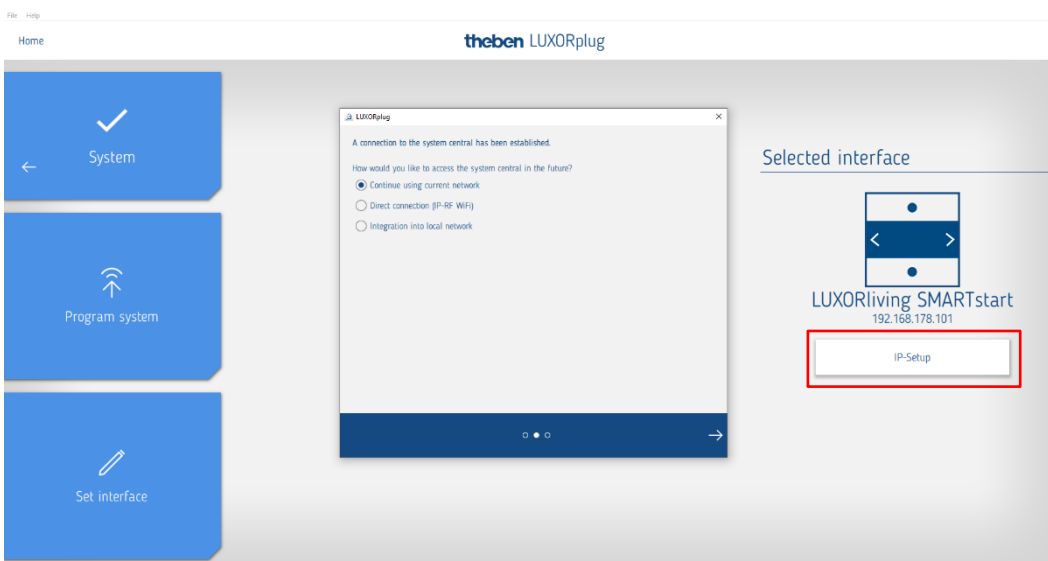


5.2.2 Adjust the name of the system central

The name of the system central can be changed in the interface settings popup. Edit the name by pressing the "pen" button.  Once the change has been successfully entered, **press the "pen" button again** and enter the system central password to apply the change.

5.2.3 Network wizard "IP-Setup"

On the same page, the network wizard can be started manually to make any changes to the network connection of the system central.



5.2.4 Diagnosis

The **Diagnostics** menu offers a number of functions that can make commissioning and any troubleshooting easier.

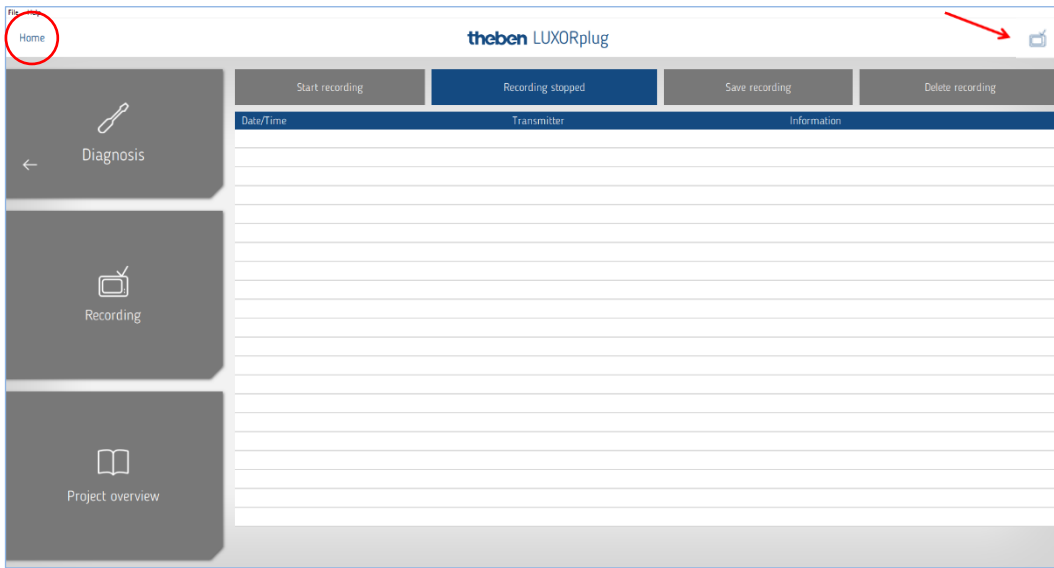
- Recording of bus communication
- An overview of the project

4. Click on the "Home" menu and then select the diagnostics menu.

5.2.4.1 Recording

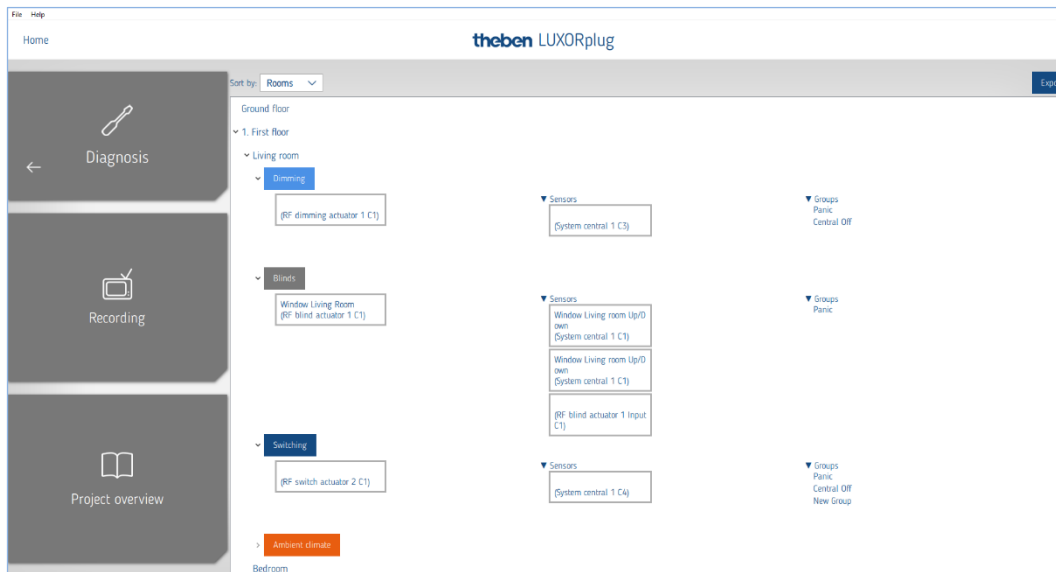
The recording can be started, stopped and saved. You can also leave the recording running in the background when the diagnostics window is closed.

The recording can also be displayed in a separate window by clicking on the "Screen icon".



5.2.4.2 Project overview

The project overview allows the display to be sorted by device or room. This overview shows both the use of the devices and the connections between the devices. The project overview can be exported as a text file (.csv) for further processing or documentation.



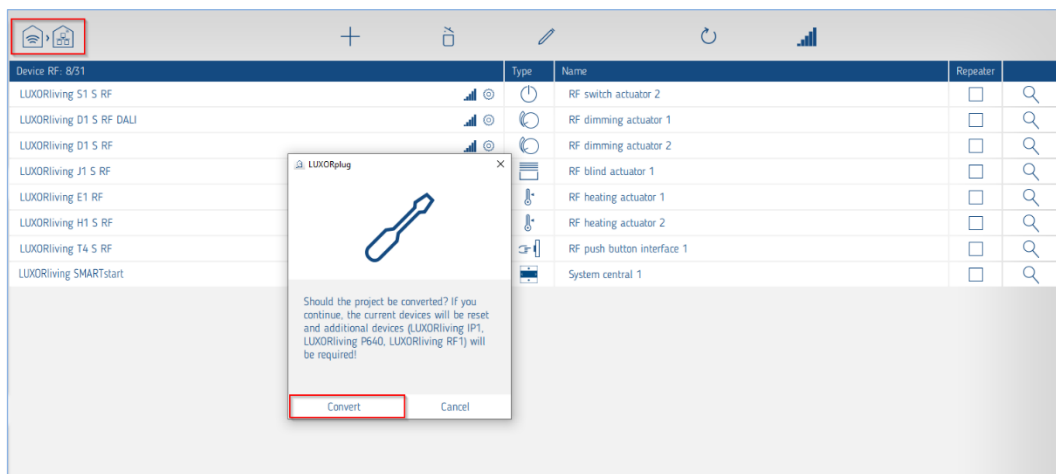
5.3 Convert project

It is possible to convert the Smart Start RF system into a classic LUXORliving system. Additional LUXORliving system components are required for this.


To do this, the Smart Start project must first be converted.

i The LUXORliving IP1 system central, the LUXORliving P640 power supply and the LUXORliving RF1 media coupler are also required.

The previous LUXORliving SMARTstart system central no longer serves as a system central, but only as a central operating device.



Procedure:

1. Press "Convert project" (top left) and confirm again.
2. All devices in the system are reset for the conversion.
3. Save project.
4. Establish a connection to IP1 and set the new interface under System > Interface in LUXORplug.
5. Integrate the RF media coupler into the system in the device list using the manual search . 
6. Programme the system.

5.4 "File" menu

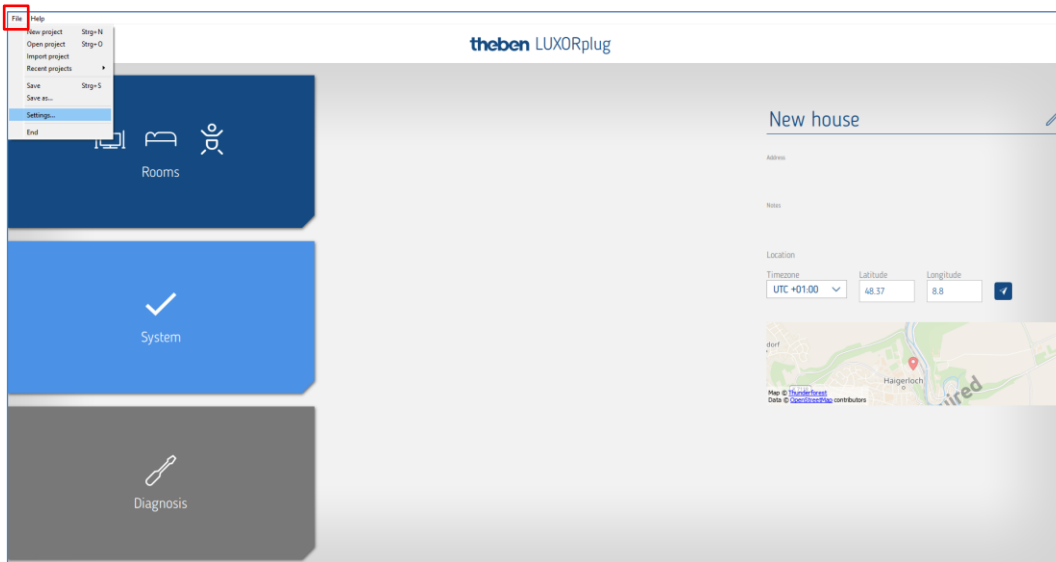
Various functions are available in the "File" menu:

- New project:** Create a new project
- Open project:** Open an existing project
- Import project:** Read project file from the LUXORliving SMARTstart
- Last projects:** List of the most recently edited projects
- Save:** Saves the current project with the last selected file name and storage location
- Save as:** Save the current project with dialogue (file name and location selectable)

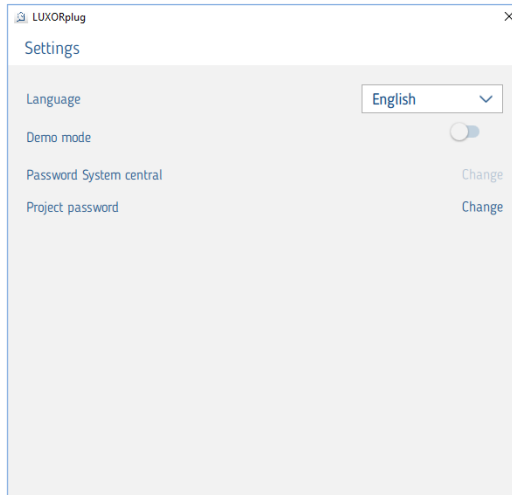
Convert Project for LUXORliving: See [chapter 5.3 Convert project](#)

Settings: Set menu language of LUXORplug, demo mode, direct connection, change the system central password, change project password and activate debug mode

Exit: Exit and close LUXORplug



Functions in the "File" - "Settings" menu



Demo mode

In demo mode, the connection to a system is simulated. This mode is only used to display the LUXORplug functions and must be deactivated if there is an actual connection to a LUXORliving system.

Change system central password

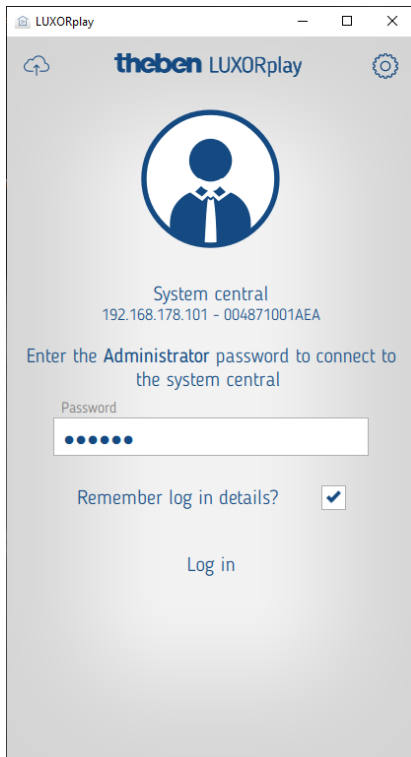
Here you can subsequently change an existing password.

Change project password

You can subsequently change an existing project password here.

6 Operation with LUXORplay

With the free LUXORplay app, the LUXORliving smart home system can be operated conveniently and easily. Various additional functions are also available.



The first time, the administrator must log in with the admin password changed in LUXORplug. Optionally, the login data can be saved.

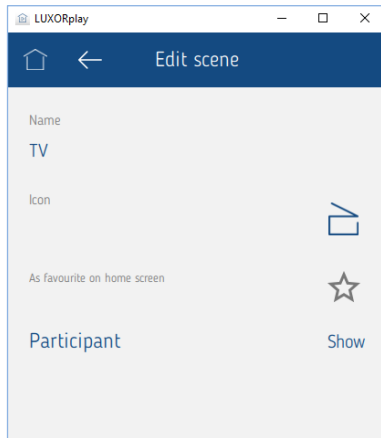
Advantage: The administrator is automatically logged in when the app is reopened.

i Loading the project can take up to 30 seconds when the LUXORplay app is first started up.

6.1 Scenes

Customised scenes can be created in the LUXORplay app. An icon can be selected in addition to the scene name. If the scene is marked as a favourite, it appears on the home screen for quick access.

The scene can either be triggered in the LUXORplay app or with a defined trigger, e.g. a push-button. The scene can also be started time-controlled. (see chapter "Entering switching times").



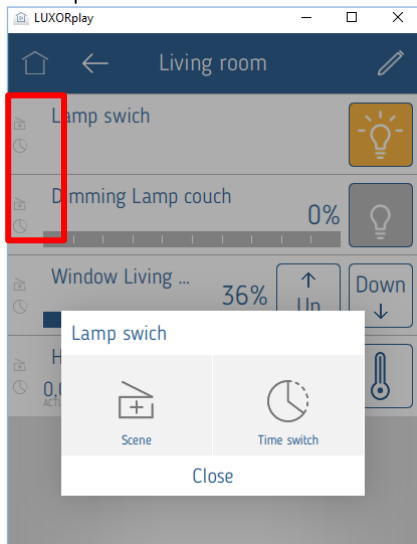
List of participants



The assignment of participants is activated by clicking on the checkbox. The current status is displayed immediately in LUXORplay (current dimming value, current position (height/louvre), switching status).

The pen can be used to individually change the status and automatically add it to the scene.

Participation in a scene can also be defined directly in the function /room.

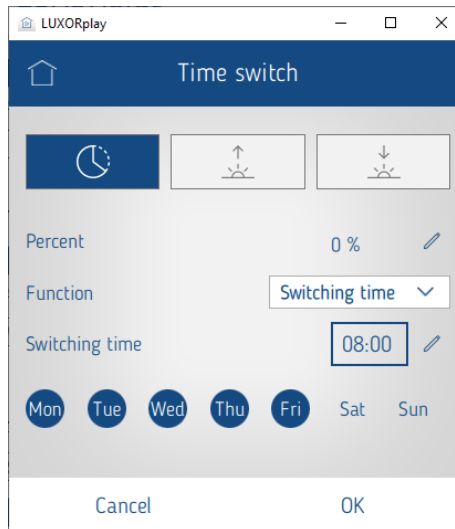
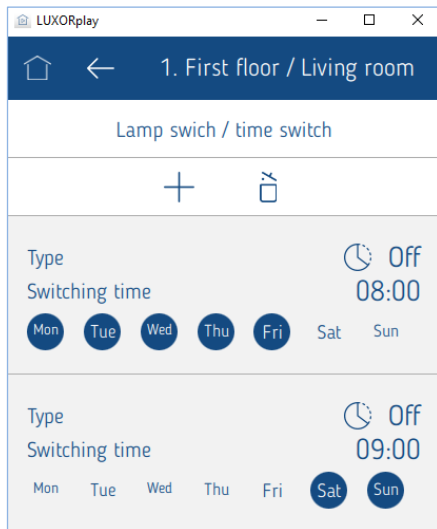


6.2 „Timer“ function

6.2.1 Switching time

You can switch a function or a scene time-controlled. To realise this, switching times are created that trigger a function or scene at a specific time.

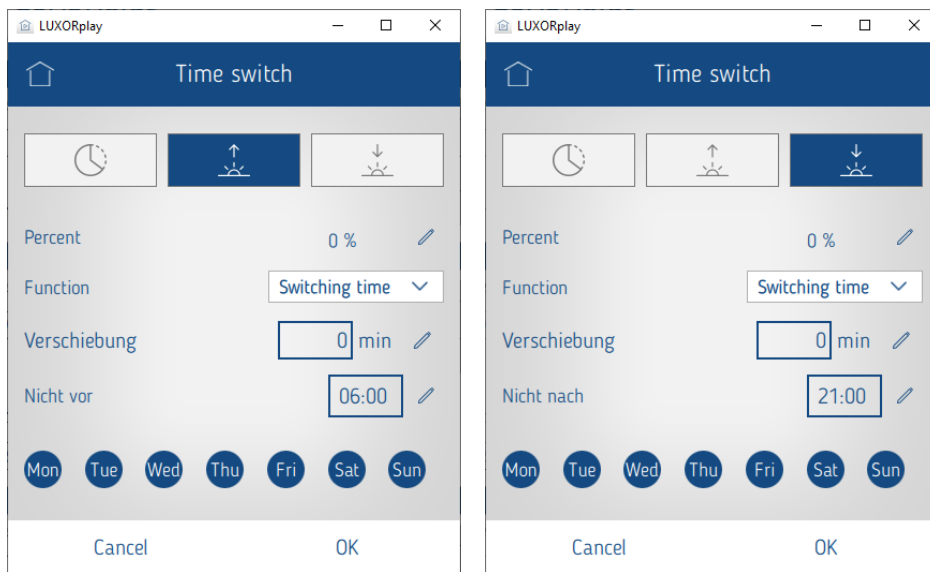
If the "Timer" symbol is pressed in a function or scene, the switching times can be entered in a new window.



i If several functions are to be executed at the same switching time, it is recommended to implement this using a scene with a switching time.

6.2.2 Astro - Switching time

Astro times show the sunrise and sunset times over the course of a calendar year. The switching commands adapt to the different sunrise and sunset times are automatically adjusted throughout the year.



Postponement:

The astronomical switching times can be customized. This can be done with the astro time shift. The astro time shift can be entered separately for sunrise and sunset in the range from - 2 hours to + 2 hours.

Not before:

A time can be specified here before which no astro switching time should be executed. The switching process is executed (astronomically), but not before 06:00 as in the example

Not after:

A time can be specified here after which no astro switching time should be executed. The switching process is carried out (astronomically), but not after 21:00 as in the example

An astro switching time depends on the coordinates entered in LUXORplug for the project. Can be found in LUXORplug under "Home".



In the LUXORliving SMARTstart system, all astro switching times are based on civil twilight.

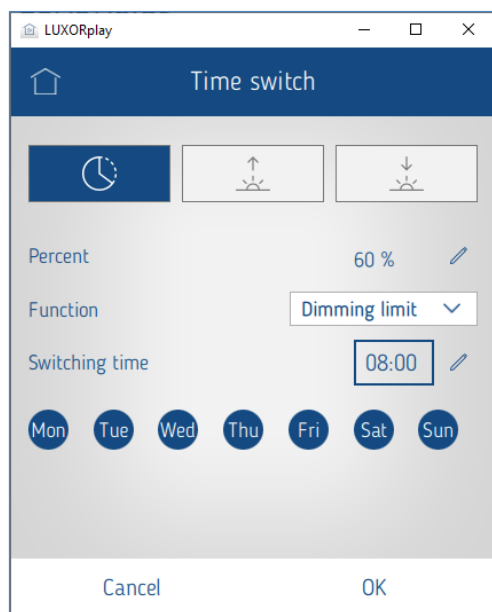
6.2.3 Timed Dimming Limit

In addition to a switching schedule, a timed dim limitation can be defined for the *dimming* function.

- The entered dimming value is applied as the maximum brightness level and executed at the scheduled time like a standard switch event.
- The dimmer automatically adjusts to the defined brightness at the specified time.
- Manual dim control via the app slider or push-button remains possible at any time.
- The dim limitation only affects **1-bit switching commands** (e.g. simple On/Off commands).

Example:

During the night, a reduced base lighting level can be enforced that cannot be exceeded, while the full dim range remains available during the evening hours.



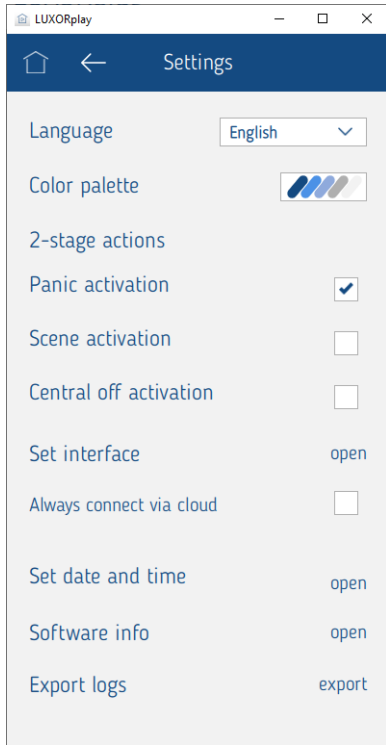
Removing the Dimming Limit

If a previously configured dim limitation is no longer required, it can be removed in two ways:

- **Delete the limitation**
Remove the defined dimming value inside the time schedule configuration.
No timed dim limitation will be active afterwards.
- **Switch to "Switching mode"**
Change the time function from *Dimming* to *Switching*.
This also deactivates the dim limitation.

6.3 LUXORplay - Settings

Various parameters can be customised in the "Settings" menu.



2-step actions

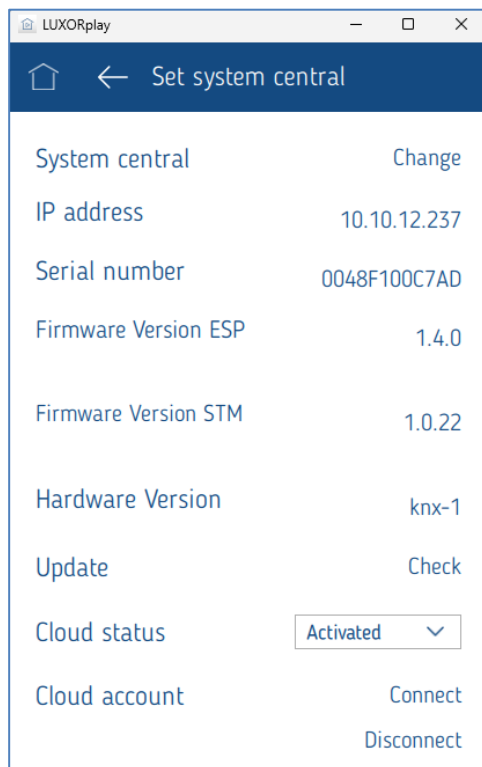
To prevent unintentional activation of the panic, scenes, central off and holiday functions, 2-step activation can be set for each function. The respective function is only executed when it is confirmed in a second step.



Configure Interface

In this menu, you can view information about the connected system central unit.

Additionally, it is possible to change the system central unit or check whether a firmware update is available.



Cloud connection available Q4/2026

Parameter: Cloud Status

The Cloud Status indicates whether the system control unit is currently connected to the Theben Cloud.

This parameter can also be used to disconnect from and reconnect to the cloud.

This can be helpful if you want to disconnect the control unit from the Theben Cloud without removing it from the user account (Disconnect from Cloud Account).

Always connect via Cloud

If the option **“Always connect via Cloud”** is enabled, LUXORplay will always try to establish a connection to the system central via the cloud first — regardless of the currently available network.

Requirements

- An active cloud account (Theben Cloud) must be available.
- User credentials must be saved during cloud login (checkbox **“Save login data”** must be enabled).

Behavior

- If the option is enabled and the requirements are fulfilled, the connection via cloud is prioritized.
- If a cloud connection is not possible, LUXORplay will fall back to a local connection (if available).

Date and time

In this setting, the date and time of the system central can be set manually or, alternatively, synchronisation with the system time (smartphone or tablet) can be activated.

Software info

Information about the installed version as well as contact details and terms and conditions.

Export logs

In the event of a malfunction in LUXORplay, so-called "logs" can be exported for diagnosis. In iOS and Android, the e-mail programme opens, from where you can send these logs directly to our hotline.

Under Windows, LUXORplay creates a folder C:\Documents\export_logs; the encrypted diagnostics file is stored there.

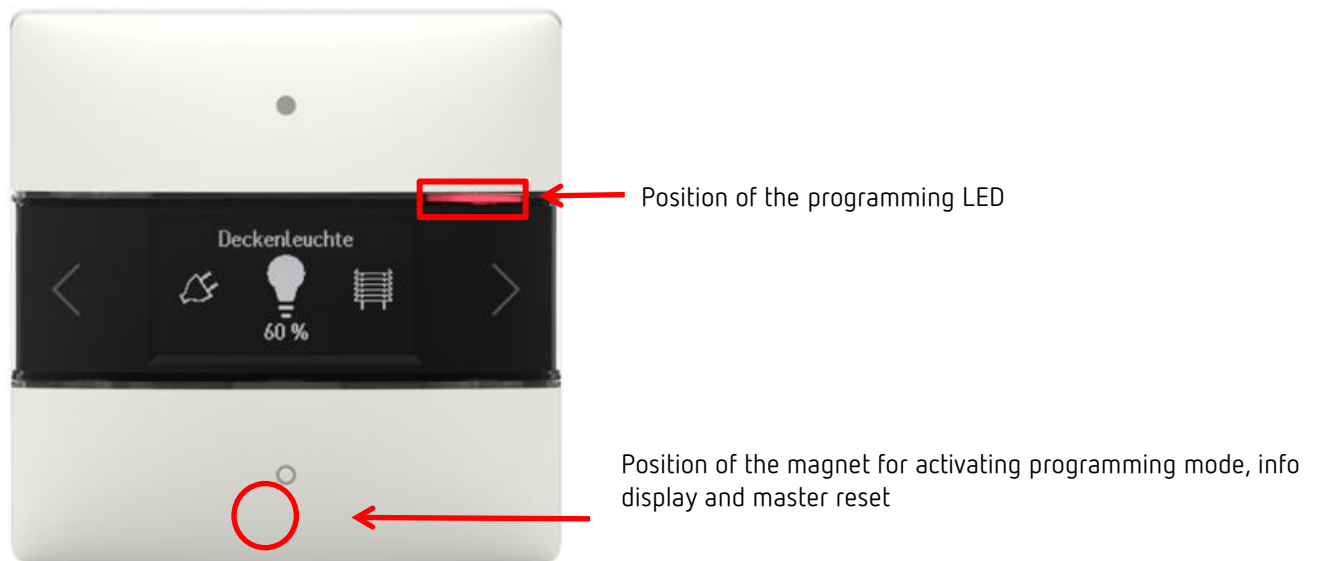
7 Appendix

Notes on the password, master reset, FDSK and programming mode of the LUXORliving SMARTstart

i If the **password** has been forgotten, the LUXORliving SMARTstart system central must be reset with a master reset. This is done directly on the device. A magnet is required for this.

Master reset

- Place the magnet at the front at the bottom (centre), the red LED starts to light up (picture).
- Hold the magnet until the LED starts flashing (image).
- Now remove the magnet and hold it again within 2 seconds. The LED now flashes quickly. The master reset has been carried out successfully.



i The default password after a master reset is always "**admin**".

i **FDSK (security key):** Devices that have already been programmed with a project **cannot** be used in a new project. During programming, the FDSK is replaced by a **project toolkey** and the FDSK loses its validity. To reactivate the FDSK, a master reset must be carried out on the device. The device can then be transferred to a new project.

7.1 Master reset of the LUXORliving RF devices

The LUXORliving RF devices are reset to the factory settings as follows:

- Disconnect the appliance from the mains voltage.
- Press and hold the programming button.
- Reconnect the appliance to the mains voltage while holding down the programming button.
- Release the programming button after approx. 1 second.
The programming LED goes out and the device is reset to the factory settings.


7.2 Programming mode and master reset of the LUXORliving RF devices PS1, PD1, PJ1 and PB1 RF

7.2.1 Activate programming mode

Programming mode is activated regardless of the charge status of the application by pressing any function key (T1-T4) with 6 clicks. After successful activation, this is indicated by a red LED on the front of the device and also by a status LED on the back of the device.

Programming mode is ended immediately by pressing any other function button.
Programming mode is automatically cancelled after 4 minutes of inactivity.

 The 6-fold click must take place within 3 seconds.


 The LED for the physical address on the front of the device is only visible when the rocker switch is removed.

7.2.2 Factory settings/master reset :

To reset the device to the factory settings using a master reset, the following key combination must be used:

The device must be in programming mode (6-click any function button).

- Press any button for 10-15 seconds.
- Release the button briefly (< 1 s).
- Press the same button again for 10 - 15 seconds.
The successful master reset is signaled after the button is released by LED of the physical address flashing rapidly 3 times.

 The FDSK key remains valid. Direct switching of the actuator is again possible via all 4 buttons.

7.3 Info display

The system information on the display is shown automatically when programming mode is active. See [chapter 7](#)

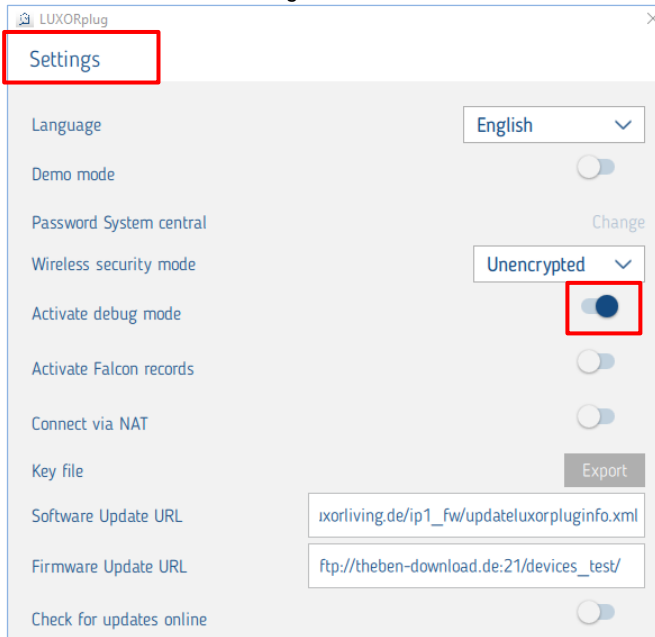
The following information is displayed:

- The network ID (SSID)
- The IP address of the system central
- The serial number or domain address of the RF line
- Both SW versions: ESP and STM



7.4 Debug mode

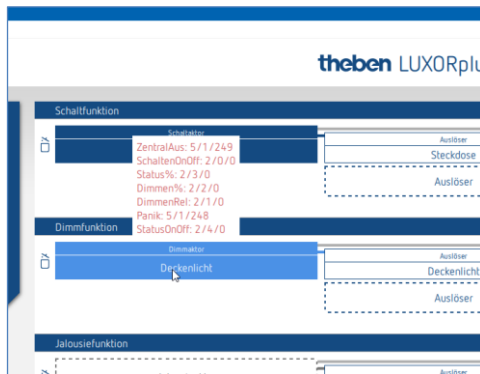
The Debugmode parameter only becomes visible after the submenu has been activated. This is achieved by clicking 5 times on the word "Settings".



Functions in Debug Mode

Group Addresses

Displays the linked group addresses of a function when the cursor is placed over it.



Physical Addresses

Enables the display of physical addresses of devices in the device list.

Master Reset

A Master Reset can be executed for each **RF device** directly from **LUXORplug** – without any physical interaction with the device.

Status

Indicates whether an RF device has been successfully programmed.

A **check mark** means the device was programmed successfully.

Gerät: RF: 29/31	Typ	Name	Dummy	Repeat	Reset	Status
LUXORliving S1 5 R (9.15.6) 0048:F100C7AD		Schaltaktor RF 1	<input type="checkbox"/>	<input type="checkbox"/>		

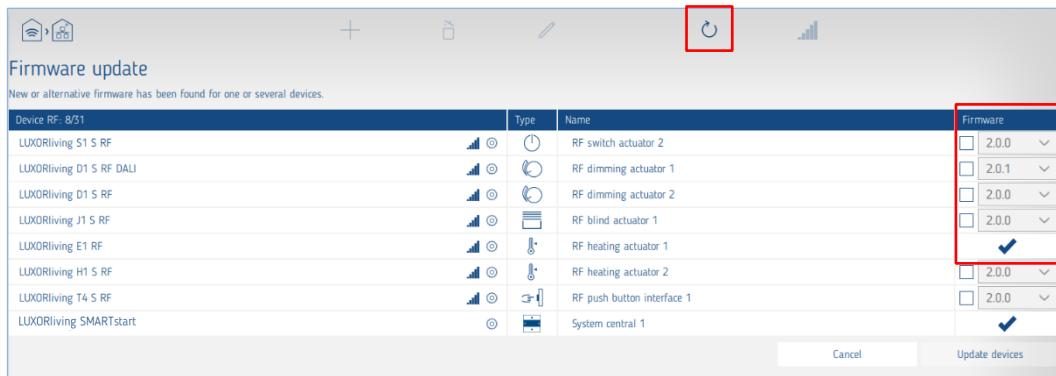
7.5 Device update from the device-list

By pressing the displayed symbol, LUXORplug starts a check of the device software; each device in the device list is checked for a new software version.

If a new software version is found, it can be selected and updated to the latest version using the "Update devices" button.

Depending on the device, a software update can take up to 30 minutes. If the device software is up-to-date or has been successfully updated, a blue tick appears under "Firmware".

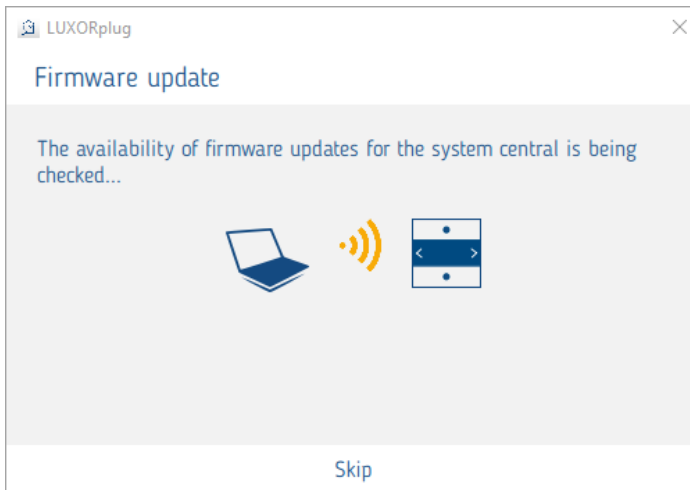
The process can be cancelled at any time using the "Cancel" button. The device will then contain the last installed software.



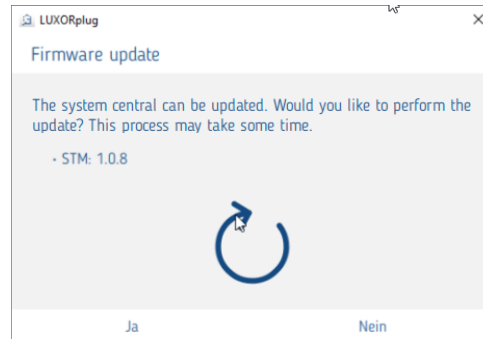
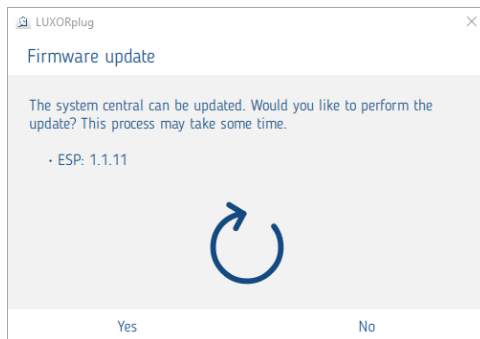
7.6 Firmware update of the LUXORliving SMARTstart system central

Before each programming of the system, the firmware of both controllers is checked. This is indicated by a pop-up and only occurs once a day. If an update is offered, it should be carried out. The process can be skipped if necessary.

-
- i** The updates of the system central contain important functional and security-related changes. It is recommended that you always install the latest available firmware.
-



If a new firmware update is available, it can be installed below.



-
- i** The SMARTstart system central has two processors: an ESP controller and an STM controller. When updating the device from the device-list, only the STM controller can be updated.
-

7.7 Troubleshooting

7.7.1 No WLAN network of the system central is displayed in the WLAN settings

The LUXORliving SMARTstart system central may already be connected to your local home network. In this case, start the network wizard "IP Setup" under "Set interface" and check the type of commissioning.

7.7.2 Programming was abruptly interrupted and the system central no longer responds

In rare cases, programming of the LUXOR system may remain incomplete due to an abrupt termination. This leads to the system central application coming to a standstill. In such a case, it is not possible to repeat the programming using the LUXORplug software without first performing a master reset of the LUXORliving SMARTstart system central.

7.7.3 Procedure after a master reset of the system central if the system has already been programmed:

After a master reset, the device always starts in the access point, i.e. when restarting the existing project, the following procedure must be followed:

1. First, the WLAN of the system central must be selected in the WLAN settings of the PC and a connection established.
2. Open the existing project. Go to "System" and select "Set interface", search for and select the connected system central. Use the "[IP-Setup](#)" network wizard to select the desired access type: "Direct connection" or "Integration into your own WLAN network".
3. Program the system again > DONE

7.7.4 Replace of a faulty system central unit

In the event of a defect, the old system central in the project must be replaced with a new one.

1. Go to "System" and press the "+" symbol, drag a new LUXORliving SMARTstart from the catalog (sensors) onto the old one in the project.
2. A message appears asking if you want to replace the old system central with another one, click "YES" here
3. In the WiFi settings, switch to the access point of the new system central and reprogram the system.

7.7.5 Error Message During Programming: "Hardware not available"

In larger installations, it may happen that one or more devices cannot be programmed during the initial commissioning.

In this case, the message "**Hardware not available**" appears.

Cause:

Devices with weak signal reception may not be fully detected or loaded during the first programming process.

In most cases, this is **no cause for concern**.

During programming, **LUXORplug** sends a request to each device to be programmed.

If no response is received within a certain time frame, the message "**Device not responding**" or "**Hardware not available**" will be displayed.

Solution:

1. **Restart the programming process**

Run the programming procedure again.

LUXORplug will then only attempt to contact devices that were not successfully programmed during the first run.

Devices that have already been programmed will be skipped.

2. **Perform a Master Reset**

If programming fails again, perform a **Master Reset** on the affected devices and restart the programming process afterwards.



Ensure sufficient wireless signal quality during initial commissioning.

Unfavorable positioning, long distances, or metallic obstacles may impair communication and lead to error messages.

7.8 FAQ

"Show the temperature of the system central on the display without the room climate function"

1. Drag a heating actuator H1 RF into the device list and set it to dummy (debug mode must be switched on).
2. Drag a room climate function into a room, connect it to the heating channel, the temperature sensor (system central (°C)) and a trigger of the system central.

8 Contact

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