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LIGHTIFY Pro

Commissioning and control via Smart Device (Tablet / Smart Phone)

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Welcome to LIGHTIFY Pro

Many thanks for purchasing a LIGHTIFY Pro product.

For more detailed information about the LIGHTIFY Pro system, including descriptions of use, data sheets and installation information, please see:

www.osram.com/lightify-pro

1. LIGHTIFY Pro – System overview and operating principle

The LIGHTIFY Pro system contains of hardware and software components

Hardware of LIGHTIFY Pro system:

- LIGHTIFY Pro Gateway
- LIGHTIFY Pro system components
 - LIGHTIFY Pro DSE
 - LIGHTIFY Pro PBC
 - ...

Software / Apps of LIGHTIFY Pro system:

- LIGHTIFY Pro Commissioning App
 - Mandatory to commission LIGHTIFY Pro system (→ see chapter 4.)



- = LIGHTIFY Pro Commissioning App
- Tablet – iOS 8.x
 - PC – Windows (available later)

- LIGHTIFY Pro Control App
 - Mandatory to control LIGHTIFY Pro system (→ see chapter 5.)



- = LIGHTIFY Pro Control App
- Smart Phone / Tablet – iOS 8.x / Android 4.x
 - PC – Windows (available later)

For downloads and further information on available App versions, please visit our homepage:

www.osram.com/lightify-pro

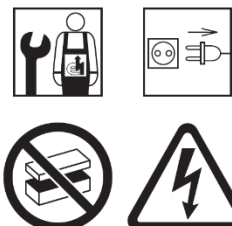
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2. Installation information

The installation should be carried out by an authorized electrician.

Please see the respective installation information of each LIGHTIFY product!



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3. Setup – First steps

Step 1: Download latest app(s): www.osram.com/lightify-pro and install the app(s) on your Smart Device / PC.



= **LIGHTIFY Pro Commissioning App**

- Tablet – IOS 8.x
- PC – Windows (available later)



= **LIGHTIFY Pro Control App**

- Smart Phone / Tablet – IOS 8.x / Android 4.x
- PC – Windows (available later)

Step 2: Choose from system operating possibilities:

Independent use without IT network integration

- **HOTSPOT mode (without Router)**



OR

Integration in an already existing IT network

- **CLIENT mode (with Router)**



Step 3: Please connect the Gateway, depending on your system operating preference with or without router, and switch it ON. A wireless Gateway connection has to be established as following:

- **HOTSPOT mode (without Router)**
Connect your Smart Device / PC with the Gateway WIFI.
The Gateway WIFI access code will be found on the backside of your Gateway.
- **CLIENT mode (with Router)**
Connect your Smart Device / PC with the Router WIFI (IT network).
For the Router WIFI access code, please contact your IT system administrator.



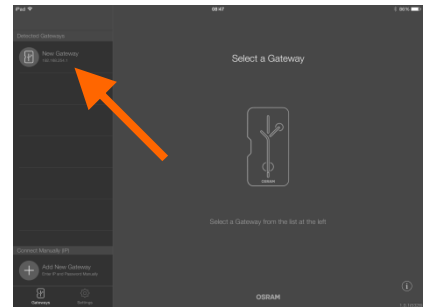
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3. Setup – First steps

Step 4: Activate the **LIGHTIFY Pro Commissioning App**



and **select** your Gateway from the list of **WIFI / LAN connected Gateways**.

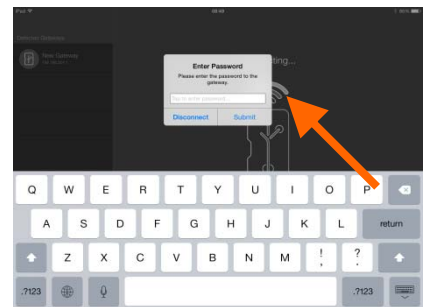


Step 5: After Gateway selection you will be asked to enter a personal password:

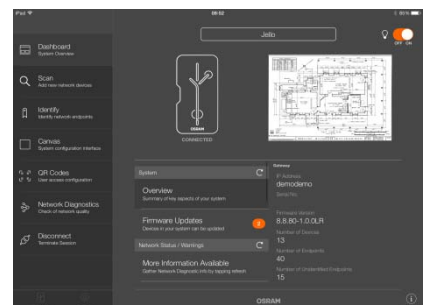
- During initial commissioning please decide whether to assign password **NOW**

OR

to proceed without entering password. (Password assignment can be done at any time later during commissioning → please see 4.2.3.: System settings)



READY: Now your LIGHTIFY Pro **system status** will be activated and system commissioning can be started.





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4. Configuration with the LIGHTIFY Pro Commissioning app

4.1. How to connect the LIGHTIFY Pro Gateway

Activate the App and select the gateway to be activated from the list on the left.

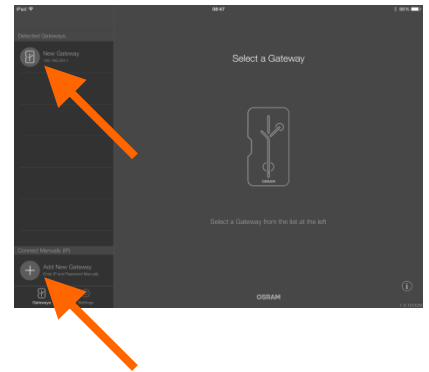
Please note: ONLY Gateways with established WIFI / LAN connection will be shown!



– Following activation, all the system parameters are loaded and made available on the graphical user interface.



– If the Gateway to be activated is not shown, it is possible to establish connection manually.

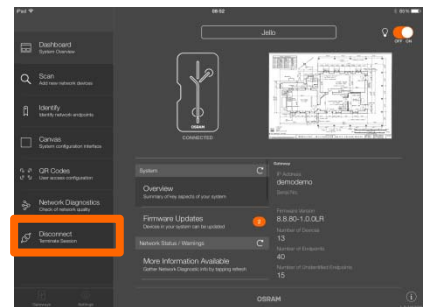


Change between Gateways

Please note: If you want to change between Gateways, please make sure to disconnect first from existing Gateway connection before establishing a new connection!



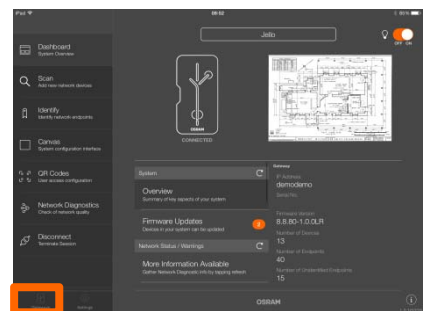
– Disconnect (→ see 4.2.2.6.: Disconnecting)



During change process following steps have to be carried out:



– Please press within the Dashboard on the „Gateway“ symbol in the lower left corner to activate and show list of all WIFI / LAN connected Gateways.



Option 1: You activate another Gateway running already in CLIENT mode from the list **OR**

Option 2: You establish a new WIFI connection to another Gateway in HOTSPOT mode and activate this Gateway afterwards.

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4.2. Configuration menu and functions

By activating the Gateway all system parameters will be transferred and the configuration menu will be shown.

- a) Functions
- b) System status / Canvas
- c) Gateways
- d) Settings
- e) Information


Starting from the configuration menu you are able to choose between different available functions (a) to perform system configuration. Furthermore you are able to switch from any open canvas to one of the following overviews:

-  b) System status
-  c) Gateways
-  d) Settings
-  e) Information

4.2.1. Dashboard (System overview)


The system status (b) will be automatically shown after Gateway activation

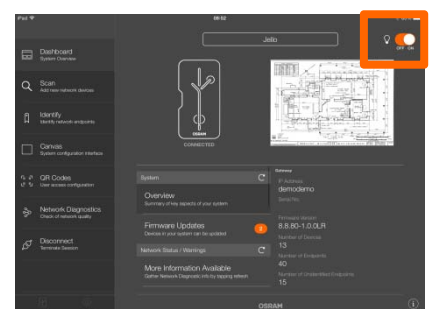
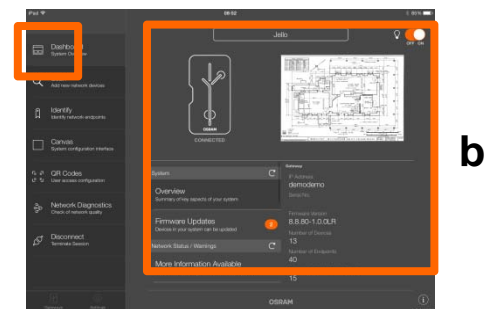
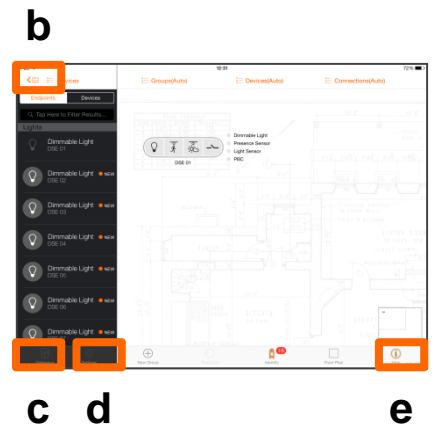
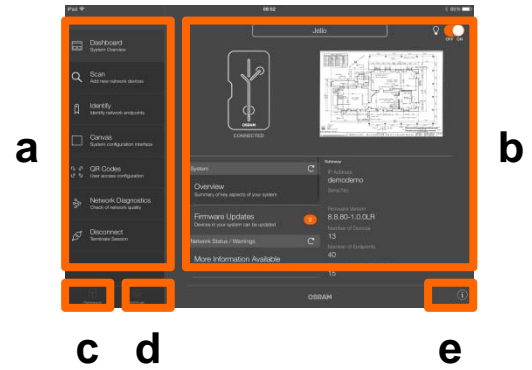
AND

-  – 1x Press on the function „Dashboard“ top left

The Dashboard informs you about:

- Floor plan (if already uploaded and used)
- System status (e.g. available software updates)
- Network status (e.g. reachability of network devices)
- Gateway data (e.g. IP address)

-  – **Direct system control** is already available on the Dashboard top right.










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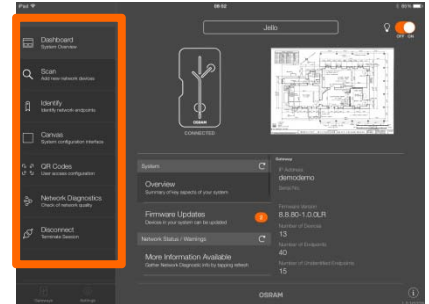


4.2.2. Functions

Starting from the Dashboard following functions (a) to perform system configuration can be used:

-  **Dashboard** (siehe: 4.2.1.)
-  **Scan** (siehe: 4.2.2.1.)
-  **Identify** (siehe: 4.2.2.2.)
-  **Canvas** (siehe: 4.2.2.3.)
-  **QR Codes** (siehe: 4.2.2.4.)
-  **Network Diagnostics** (siehe: 4.2.2.5.)
-  **Disconnecting** (siehe: 4.2.2.6.)

a

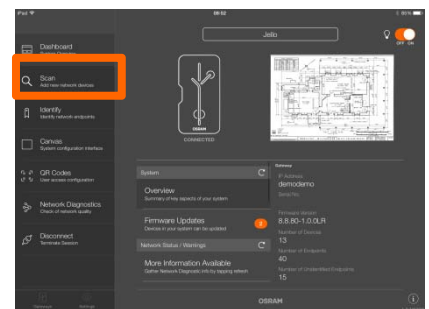


- Automatic user navigation:
Please pay attention to the grafically highlighted and pulsating symbols.

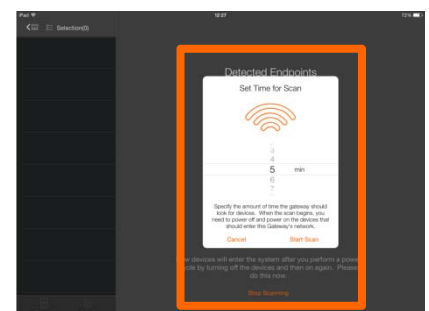
4.2.2.1. Scan (Add new network devices)



- In the system overview, press **Scan**.



- Step 1: **Disconnect new devices / network devices**
- Step 2: **Select the time for the scan process**
(Please note: The more devices there are to be read in, the longer the time selected should be)
- Step 3: **Start the scan process**
- Step 4: **Switch ON new devices / network devices**



If the process was aborted during scanning or if devices / network devices could not be correctly identified / read in, restart the scanning process.

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4.2.2.2. Identify (Identify network endpoints)



– In the system overview, press **Identify**.

The list on the left shows ALL network endpoints / devices.
Newly scanned endpoints / devices will be marked with **NEW**.

You can identify the following 3 product types:

1. Lights (lamps, luminaires)
2. Push-buttons / switches (manual operating interface)
3. Sensors (motion and daylight sensors)

Tip: By clicking the symbols you will be informed about the specific operating principle during identification.

Now please select the first network endpoint – directly nearby your current location – and start the process.



– To **start identification**, press the specific symbol below the dedicated device type and follow the instructions.

First identification completed:

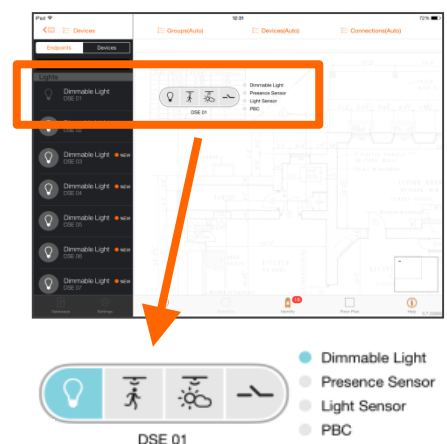
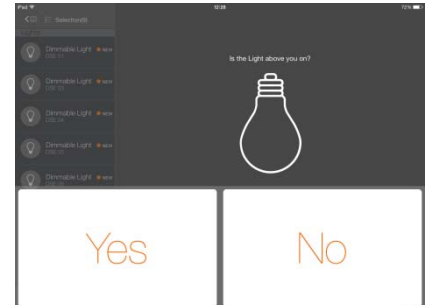
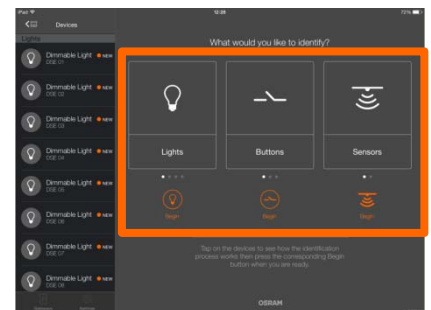
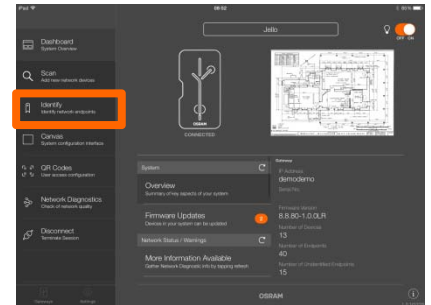
If the network device selected has been identified, it can be directly used, renamed and configured.

(→ see 4.2.2.3.: Canvas)

Please note: A network device may contain several configurable endpoints, e.g. LIGHTIFY Pro DSE → **see picture on the right**

Carrying out further identifications:

Restart the process to identify other network endpoints / devices.



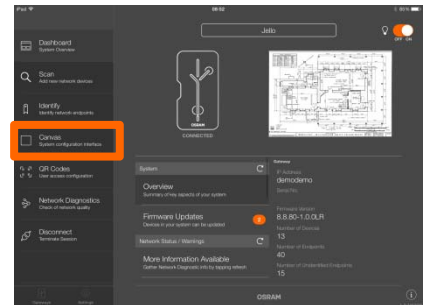


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4.2.2.3. Canvas (System configuration interface)



– In the system overview, press the **Canvas**.



Orientation:

LEFT (list): Available network endpoints / devices

The view can be changed between "**Endpoints**" and "**Devices**"

TOP: Display settings

The view can be changed between "**Groups**", "**Devices**" and "**Connections**"

CENTER: Canvas

Main function for configuration, grouping and parametrising of network endpoints / devices

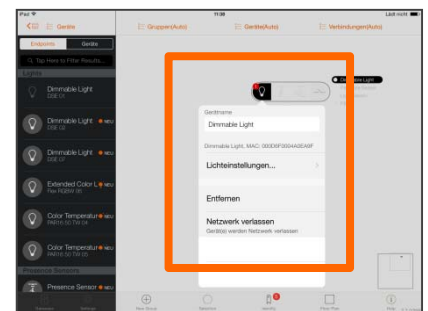
BOTTOM: Functions for system configuration

"**New group**", "**Selection**", "**Identification**", "**Layout**" and "**Help**"



Operating the canvas:

- Selection of endpoint / device = **1x short press**
- Endpoint / device parameter list = **2x short press**
- Move endpoint / device (drag&drop) = **press and hold**
- Establish a connection = **draw connection between endpoints / devices with your finger**
- Delete a connection = **1x short press on connection and confirm deletion**



Configuration of network endpoints / devices:

(see 4.3: Configuration)

Data saving:

Data is automatically saved after each configuration step is implemented. This process is indicated by a data transfer symbol during data saving.



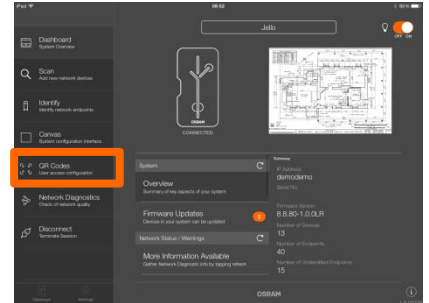
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4.2.2.4. QR Codes (Creating QR Codes for system control)

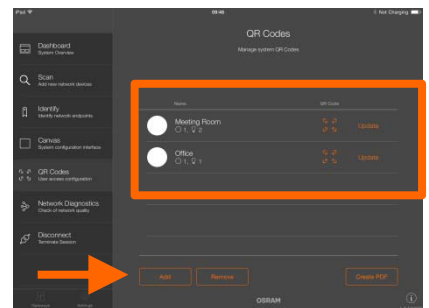


– In the system overview, press **QR Codes**.

Please note: QR Codes determines which functions used by the **LIGHTIFY Pro Control App** (→ see 5.) are enabled.



- Step 1: **Press “Add”** and name the **QR Code**
- Step 2: **Choose your group(s)** out of the list provided, which shall be activated for specific QR Code usage.
- Step 3: By pressing on each group, **select the functions** you wish to enable for **Control App** use and **press “Done”**
- Step 4: The QR code will be generated and it can be shown by **pressing the QR symbol** behind each QR code name listed.
- Step 5: **Press “Create PDF”** to choose your favored print layout



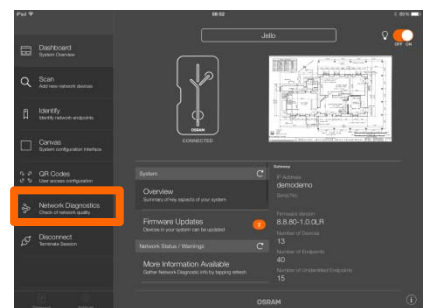
The generated QR code can be read in by any **smart device with a camera** with use of the **LIGHTIFY Pro Control app** (→ see 5.). The functions enabled by the system permissions are automatically made available for use on the smart device used.

4.2.2.5. Network diagnostics (Check of network quality)



– In the system overview, press **Network diagnostics**.

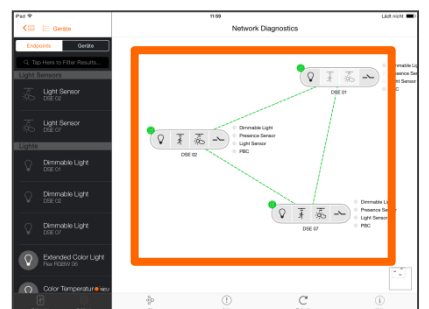
The network diagnostics will be started automatically and the network quality shown by colored status symbols for each existing connection between network devices.



Status symbols:

- Green** - connection / signal available
- Orange** - connection / signal is moderate
- Red** - no connection / signal

Please note: The diagnostics will be executed for existing network devices **ONLY**. Devices not scanned yet or belonging to another network will not be considered.



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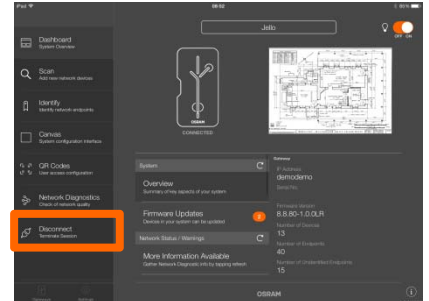
4.2.2.6. Disconnecting (Disconnect gateway connection)



– In the system overview, press **Disconnecting**

Establishing a new Gateway connection:

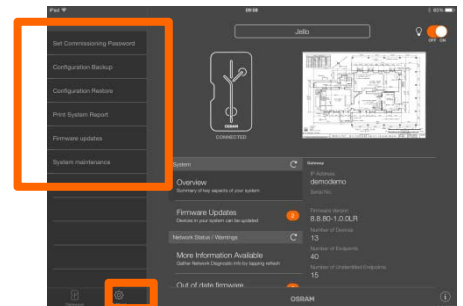
→ see 4.1.: How to connect the LIGHTIFY Pro Gateway



4.2.3. Settings



– In the system overview, press **Settings**



Set Commissioning Password

This function enables you to **assign or change system password** of the connected Gateway.

Configuration Backup

This function enables you to **save all configuration data as backup** on an USB stick.

Configuration Restore

This function enables you to **recover a system configuration backup**.

Print System Report

This function enables you to **print a complete report of the system configuration**.

Firmware Updates

This function enables you to download / install new firmware to your system devices.

Step 1: **Download Firmware Updates** from the internet first

Please note: Internet connection required!

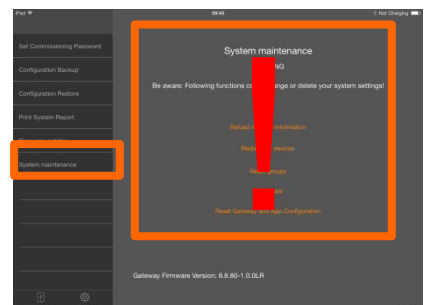
Step 2: **Install Firmware Updates** to your system components

System Maintenance

This function enables you to reload / rediscover / reset / fix system data.

ATTENTION!

The System Maintenance functions can change or delete your system settings.





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4.3. Configuration (Setting system parameters)

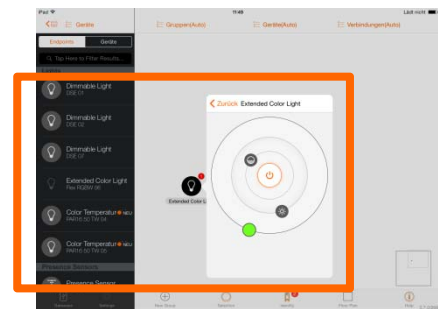
The configuration of individual network devices is implemented in the canvas.

(→ see 4.2.2.3: Canvas (System configuration interface))

4.3.1. Activating and setting system parameters



– In the system overview, press the **Canvas**.



Operating the canvas:

Selection of endpoint / device = **1x short press**

Endpoint / device parameter list = **2x short press**

Move endpoint / device (drag&drop) = **press and hold**

Establish a connection = **draw connection between endpoints / devices with your finger**

Delete a connection = **1x short press on connection and confirm deletion**

Please note:

Different network devices will show different parameter lists in regard to their implemented functions.

Data saving:

Data is automatically saved after each configuration step is implemented. This process is indicated by a data transfer symbol during data saving.

4.3.1.1. Removing existing network devices

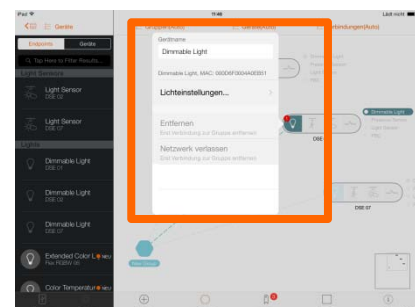
Step 1: **Activate the parameter list (2x short press) of device**, which shall be removed / deleted from canvas.

Step 2: Please note:

Choose between:

a) „**Remove from Canvas**“ to remove device from configuration interface – Device still exist in network!

b) „**Delete from Network**“ to delete device out of the network – Device will be reseted and can be used in another network!



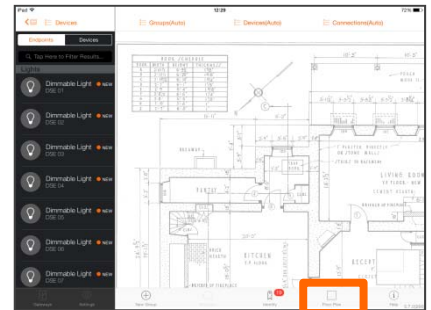
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4.3.1.2. Uploading / using floor plan

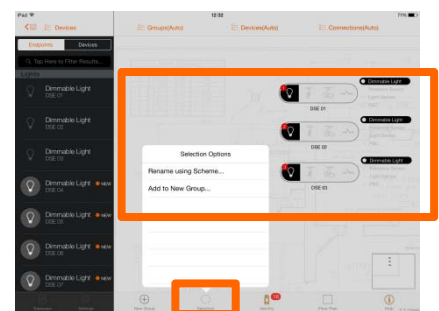
Important: Useable data formats: PDF, JPG, GIF

- Step 1: **Copy** floor plan to an existing **USB stick** and connect stick to USB input on Gateway
- Step 2: **Select "Floor Plan"** in Canvas and **upload** floor plan from **USB stick**



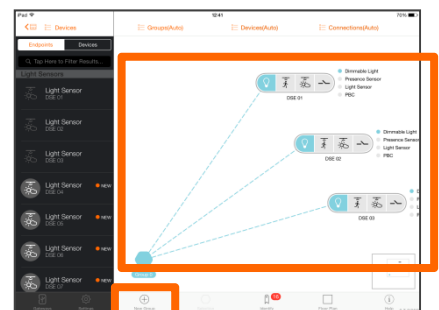
4.3.1.3. Creating groups

- Step 1: **Via drag & drop**, move the **devices** to be grouped from the list of network devices onto the Canvas
- Step 2: **Select the end points** of the products to be grouped
- Step 3: **Activate the "Select" function** and **select "Add to new group"**



OR

- Step 1: **Via drag & drop**, move the **devices** to be grouped from the list of network devices onto the Canvas
- Step 2: **Activate the "New group" function**
- Step 3: **Connect the end points** of the products to be grouped with the **newly established**



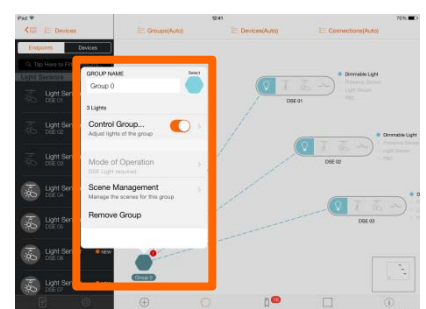
4.3.1.4. Saving scenes

Please note: Scenes are saved at group level.

- a) Assign a scene to a complete group
- b) Assign a scene to an endpoint / device within a group

a) Assign a scene to a complete group:

- Step 1: **Activate** the **parameter list** (2x short press) of the **group** for which the scene is intended
- Step 2: **Select "Control light"**
- Step 3: **Configure the light setting** according to your requirements and press **"New scene from current settings"**
- Step 4: **Name the scene** that is then automatically saved with the assigned name

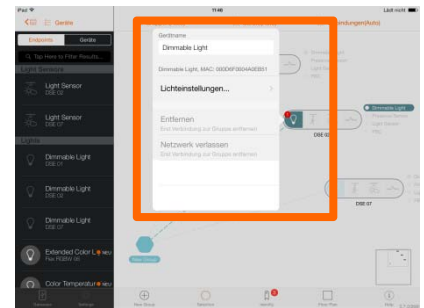


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b) Assign a scene to an endpoint / device within a group:

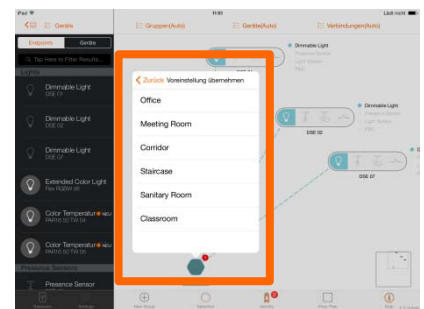
- Step 1: **Activate the parameter list (2x short press) of the end point / product** for which the scene is intended
- Step 2: **Select "Control light"**
- Step 3: **Configure the light setting** according to your requirements
- Step 4: **Activate the parameter list (2x short press) of the group** containing the end point / product
- Step 5: Select **"Scene management"** in the parameter list
- Step 6: **Add a scene to the list and name the scene.** It will be automatically saved under the assigned name



Please note: All saved scenes can be displayed, edited and activated under **"Scene management"** in the parameter list.

4.3.1.5. Calling and setting the operating mode

- Step 1: **Activate the parameter list (2x short press) of the group** for which the operating mode is intended
- Step 2: **Select "Operating mode"**
- Step 3: **Select "Display selection"** for the following pre-configured operating modes:

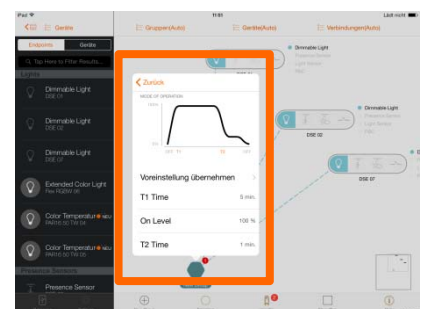


- | | |
|-----------------|------------------|
| 1. Office | 4. Staircase |
| 2. Meeting room | 5. Sanitary room |
| 3. Corridor | 6. Classroom |

OR

Configure the required **operating mode** yourself by using the **parameter list**:

- | | |
|-----------------|-------------------|
| 1. ON-Time (T1) | 3. Hold-Time (T2) |
| 2. ON-Level | 4. Hold-Level |



- Step 4: **Activate / deactivate additional functions** in the parameter list:

Semi-automatic	= manual switch-on required via push-button / switch
Staircase function	= light signal / power dip shortly before switch-off

Please note: Activated parameters and functions during operating mode setting **will be saved automatically** after exiting the parameter list.

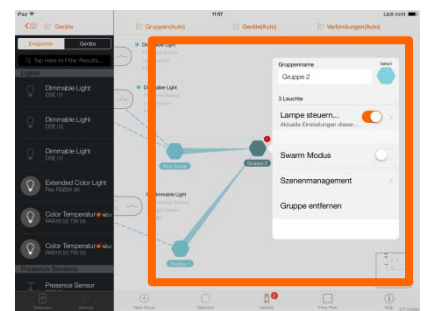


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4.3.1.6. Activate the group-in-group function (swarm)

Please note: A group-in-group function is based on a minimum of 2 single groups. Each single group must still be individually configured, but can be additionally integrated into a higher-level group (swarm group) for higher-level functions, e.g. central ON/OFF for all groups via single Switch/Push-button.

- Step 1: **Establish at least 2 groups**
(→ see: 4.3.1.3.: Creating groups)
- Step 2: **Activate the "New group" function**
- Step 3: **Connect the already created groups with the newly created swarm group**
- Step 4: **Activate the parameter list (2x short press) of the swarm group**
- Step 5: **Activate "Swarm mode" in the parameter list**

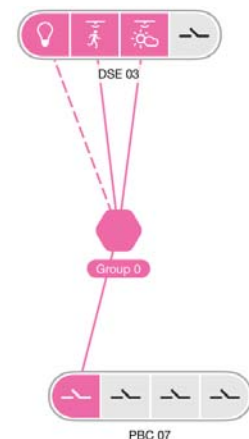


Please note: The single-groups in the swarm still keep their parameter settings as long as they are not modified on single-group level.

4.3.2. Device parameter activation and configuration

Please note: Activation of devices / network devices is a **group function**, means **creating a group** before activating certain devices is necessary first hand (→ see: 4.3.1.3.: Creating groups) and this group has to be connected to **min. 1 light point** (lamp, luminaire).

- Step 1: **Via drag & drop**, move the **device** to be grouped from the list of network devices onto the Canvas
OR
Use already existing device endpoints on canvas
- Step 2: **Connect the end points** of the products to be activated with the **newly created group or an existing group**
- Step 3: **Activate the parameter list (2x short press)** for required configuration settings





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Device parameters and group parameters

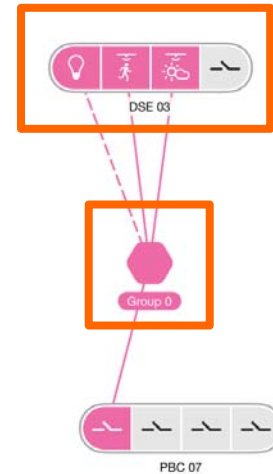
Please note: It is important to distinguish between device parameters and group parameters as they will influence the system / network differently.

Device parameters:

Will effect **only the device** on which the parameter list had been activated.

Group parameters:

Will have effect **on the group** and therefore on **one or more devices** connected to this group.



4.3.2.1. Parameter setting / change

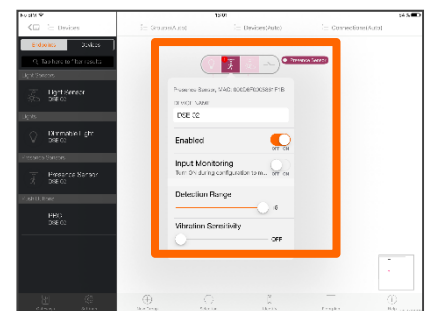
Please note: A device can have more than one configurable endpoint

→ see picture on the right



Parameter setting:

- Step 1: **Activate the parameter list (2x short press) of the endpoint to be set up.**
- Step 2: **Select the parameter out of the list provided.**
- Step 3: **Change parameter value as required within the provided value range.**






Data saving:





Data is automatically saved after leaving the parameter list and started with immediate effect. This process is indicated by a data transfer symbol during data saving.



4.3.2.2. Index of available parameters - What / Where / How



What:	Where:	How:
 Gateway		
Firmware updates for network devices	1st option: Dashboard 2nd option: Settings	1x short press: „Firmware updates“
System configuration – Backup / restore	Settings	1x short press: „Configuration Restore“ / „Configuration Backup“
System password – Setup / change	Settings	1x short press: „Set Commissioning Password“
System report – Print	Settings	1x short press: „Print System Report“
System maintenance	Settings	1x short press: „System maintenance“
WIFI password	Backside of Gateway	WPA2 Key: xxxxxxxx
 Light point (luminaire / lamp)		
Device name / light name – Setup / change	Canvas	2x short press: Light point symbol 1x short press: „Light Name“ or „Device Name“
Light point (luminaire / lamp) switching / dimming / change	Canvas	2x short press: Light point symbol 1x short press: „Control Light“
 Push-buttons / switches and coupler		
Device name – Setup / change	Canvas	2x short press: Switch symbol 1x short press: „Control Name“ or „Device Name“
Device configuration – Act as push-button or switch	Canvas	2x short press: Switch symbol „Should act as Button = NO/YES“

4.3.2.2. Index of available parameters - What / Where / How

What:	Where:	How:
 Push-buttons / switches and coupler		
Push-button / Switch – Activation / Deactivation	Canvas	2x short press: Switch symbol „Enabled = OFF/ON“
Push-button / Switch – Input monitoring	Canvas	2x short press: Switch symbol „Input Monitoring = OFF/ON“
Push-button / Switch – Short & long press actions	Canvas	2x short press: Switch symbol 1x short press: „Short Press Actions“ / „Long Press Actions“
 Sensors based on   movement and daylight detection		
Device name – Setup / change	Canvas	2x short press: Movement / daylight symbol 1x short press: „Control Name“ or „Device name“
Sensors – Activation / Deactivation	Canvas	2x short press: Movement / daylight symbol „Enabled = OFF/ON“
Sensor MOVEMENT – Input monitoring	Canvas	2x short press: Movement / daylight symbol „Input Monitoring = OFF/ON“
Sensor MOVEMENT – Detection range / sensitivity	1st option: <u>HF</u> sensor = Canvas 2nd option: <u>PIR</u> sensor = Range ONLY mechanically adjustable!	<u>HF</u> sensor: 2x short press: Movement symbol „Detection Range = -5 to +5“ / „Vibration Sensitivity = OFF to MAX“ <u>PIR</u> sensor: ONLY mechanical adjustment at sensor lense possible!
Sensor „DAYLIGHT“ – Activation / Deactivation of automatic daylight regulation	Canvas	Group function: 1x short press: Group symbol „Light Regulation = OFF/ON“
Sensor „DAYLIGHT“ – Light level	Canvas	2x short press: Daylight symbol „Actual Level = xx%“



4.3.2.2. Index of available parameters - What / Where / How

What:	Where:	How:
		movement and daylight detection
<p>Sensor DAYLIGHT – Light level setup</p>	<p>Canvas 1st option: <u>Store light level</u> 2nd option: <u>Set target level</u></p>	<p>Group function: <u>Store light level:</u> 1x short press: Group symbol 1x short press: Control Group → Adjust light level 1x short press: „Store light level for daylight regulation“ <u>Set target level:</u> 1x short press: Group symbol 1x short press: Light Regulation 1x short press: A. Set to current light level B. Target level</p>



5. Control with LIGHTIFY Pro Control App

In this chapter the LIGHTIFY Pro system control is shown by using the **LIGHTIFY Pro Control App**.



- Open the app on your smart device.

Functions and control

Please note:

ONLY QR codes created by the **LIGHTIFY Pro Commissioning App** can be used → see 4.2.2.4.: QR Codes

Step 1: **Access the LIGHTIFY Pro Control App.**

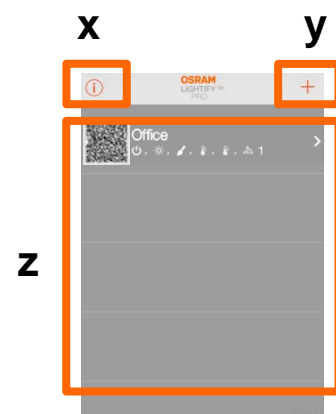
- a) During first use of App the scan function will be started automatically and the camera activated.
 - **Scan a QR-Code.**
- b) If QR codes had been scanned and saved already, they will be shown after App access is granted.
 - **Choose a QR-Code** out of the list provided.



Please note: A QR code created by using the LIGHTIFY Pro Commissioning App contains **ALL light groups and their respective light functions enabled during the commissioning process** and they will automatically made available for control on the smart device used.

Control menu:

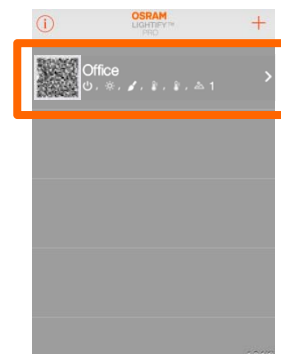
- x) **Information**
- y) **Adding QR Codes**
- z) **List of already scanned QR Codes**



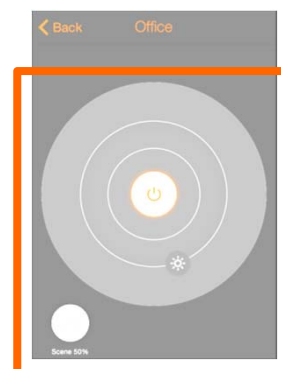
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Step 2: **Select a QR code (= light group)** to open the respective light functions available. ALL enabled light functions for this group will be shown under the group name in symbolic order.



Step 3: **Control your light installation** by operating the intuitive user interface.



Please note: The **LIGHTIFY Pro Control App** can only be used to **control the light** installation. Requested changes on control functionality or a re-commissioning of the light installation has to be done by using the **LIGHTIFY Pro Commissioning App**. After re-commissioning a **new QR code** has to be created to ensure activation of new light functions on your smart device!