

# eConfigure KNX Lite

## LSS900100

### User Guide

This document describes the eConfigure KNX Lite software tool for designing, configuring, and maintaining the KNX building automation systems at different project stages (quotation, commissioning, maintenance).

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# Cybersecurity Hardening Guidelines

- Use **VPN service** to encrypt your internet traffic and hide your IP with physical location.
- Use secure protocol access **HTTPS://IP:Port**.
- Do not use **port forwarding** to access a controller from the public Internet.
- If your router supports a **guest network** or **VLAN**, it is preferable to locate your controller there.
- Set up the **network security at the appropriate level**.  
The security method is determined by the ability of other network elements (firewall, protection against viruses and malware threats).
- Make sure your **antivirus** is updated.
- Use the strongest **Wi-Fi encryption** available.
- Turn on the **User Account Control** on Windows.
- Use **BitLocker** to encrypt the Windows operating system drive.
- **Do not share** your Windows account with another user.
- Make sure all your **passwords are uncrackable**.

In case you find cyber security incidents or vulnerabilities, please go to <https://www.se.com/ww/en/work/support/cybersecurity/security-notifications.jsp> and contact us.

You can read more on system hardening here: [https://www.se.com/ww/en/download/document/AN002\\_107/](https://www.se.com/ww/en/download/document/AN002_107/).

Software from Schneider Electric is digitally signed.

Verify the authenticity of the executable file from Schneider Electric before you run it as follows:

1. Find the downloaded file in the File explorer at your local storage.
2. Right-click the file to display its properties.
3. In the **Digital signatures** tab of the **Properties** dialog, you can find the digital signature details.

If there is any problem or you have doubts, do not install the software and contact customer support.

# eConfigure KNX Lite Software

The eConfigure KNX Lite software is a tool for designing, configuring, and maintaining the KNX building automation systems at different stages of the project:

- Quotation
- Commissioning
- Maintenance

The eConfigure KNX Lite is free. If you want to do commissioning, you need to buy a dongle.

## **Do I need a dongle license?**

You do not need to purchase a dongle if you are not commissioning the devices.

You need a dongle license to be able to log in and download the software to your devices.

The dongle is available as LSS900100.

You can find an initial version of the software on the enclosed USB memory. After the software is installed, a tool for updating is installed on your desktop.

eConfigure does not replace a good trade knowledge. For example, it is recommended to have knowledge of basic heating applications to install heating management devices.

You do not have to be an expert on ETS to be able to work with eConfigure KNX Lite.

# Compatibility and Software Installation

Details on the computer compatibility and installation of the software are available in the **Quick Starter Guide** available in the package LSS900100 at [www.se.com](http://www.se.com). You receive the package together with purchased software licence.

eConfigure KNX Lite requires a minimum of 3,5 GB of free memory space on your disc.

The installation of the software leads to the automatic installation of the last version of the ETS software from the KNX association and ETS app.

If you already have ETS on your computer, it gets updated to the latest version. Your projects will be retained.

When using eConfigure KNX Lite, the ETS runs in the background of your computer (the ETS tab might appear in the Windows task bar).

**NOTE: If you use the eConfigure KNX Lite for ETS5, close it after the catalog update to complete the eConfigure KNX Lite installation.**

If you update your eConfigure KNX any existing ETS catalog will be updated to the latest version coming with the latest eConfigure KNX Lite version.

## Software Limitations

The eConfigure KNX Lite software allows the fast and easy implementation of KNX/ZigBee devices with a limitation of the parameters compared to the ETS software.

Not all KNX functionalities are available with eConfigure KNX Lite (versus ETS).

Check whether all the features needed for your project are available in eConfigure KNX Lite.

You can find the list of compatible KNX/ZigBee devices in eConfigure KNX Lite.

eConfigure KNX Lite is limited to projects with a maximum of 1000 KNX devices and 50 ZigBee devices.



# Implementation

## Best Practice for Your Project

eConfigure KNX Lite allows you to perform a complete installation of home and building automation. We recommend you to follow these steps:

- **DESIGN** the building structure, add loads and devices to the floor plan. Link them together.
- **QUOTE** your installation with eConfigure KNX Lite to provide the full content of your commercial proposal to your customer or engineering office.
- **CONFIGURE** the installation and validate the system with your client.
- **MAINTAIN** on site for 1 or 2 months after completion of the project to have the maximum return on the part of the customer and to minimize travel.

Prepare each step of your project before on-site service. It saves you time.


## Wiring

The good wiring of your installation is essential.

If you have any doubts, get training on KNX installation or ask our experts.


- Use a KNX certified cable.
- Do not loop the KNX cable on itself.
- Always install repeaters for any facility with more than 64 devices or a consumption above 1280 mA.
- Do not forget the KNX power supply.
- If you want to use wireless devices, install the Hybrid module (see more at [https://www.productinfo.schneider-electric.com/spacelogic\\_knx\\_hybrid/](https://www.productinfo.schneider-electric.com/spacelogic_knx_hybrid/)).

# Manage Your Project



The user parameters and project management sections are accessible by clicking on the **Menu** button  at the top left of the screen.

## Creating New Projects

To create a new project:

1. Click  > **Projects** > **New project** at the bottom right.
2. Fill in the minimum required information for your project and click **Start**.

Open, edit, duplicate, delete, and export your projects:

1. Click  > choose your project.
2. Click  in the upper right corner of your project > choose your option.

You can search between projects using the search bar in the middle at the top.

Export all your projects: Click **Export all**.

Your projects are saved in the folder *Documents\Schneider Electric\Configure\Backup Files*.

Import your projects: Click **Import** > select your project (.zip file) > click **Open**.

## My User Settings

User settings are default for all new projects. You can customize them:

1. Click **My user settings**.
2. Fill in the information:
  - **Basic parameters**
    - Company name
    - Application language
    - Product catalog for a country (allows you to display only the devices available in your country)

**NOTE:** Select the correct catalog carefully, because you cannot change it later in the project.
  - **Advanced parameters**
    - Free spaces (%) – choose the available free space when using automatic composition
    - Group address rules (incremental or structured scheme)
    - Enable advanced device parameters (yes/no)

## If You Need Help

If you need help on how to start with eConfigure click **Help** and choose from the following options:

- Video tutorials
- User guide
- Online content

We recommend you an official training to use the software in the best conditions.

Ask your local Schneider Electric contacts for more details.

## Shortcuts

While managing your project, you can use the following shortcuts:

Shortcut	Command
<b>CTRL C</b>	Copy.
<b>CTRL V</b>	Paste. The paste of an item is not immediate; it is necessary to position the item on the plan and click to validate the paste.
<b>CTRL A</b>	Select all items on the floor or all text of a selected area.
<b>CTRL R</b>	Draw the contours of a rectangular room.
<b>CTRL P</b>	Draw the outline of a polygon room (max. 15 faces).
<b>CTRL S</b>	Multiple selection modes.
<b>ESC</b>	Return to classic mode (from any mode).
<b>CTRL + mouse wheel</b>	Zoom in/out.
<b>CTRL + N</b>	Create solution

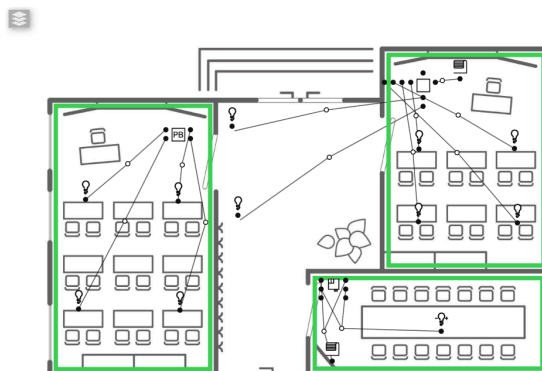
# Floor

In the **Floor** tab, you can create a floor plan with rooms, add devices from the catalog and set their parameters. You can also create and control scenes.

**NOTE:** The **Undo** function is not supported. Keep this in mind as you create your floor.

In the **Floor** tab, there are the following tools and areas:

- The work area with a floor plan:



- Toolbar:
  - create floors
  - create rooms
  - copy
  - paste
  - delete
  - multiple selection 

(Click the icon > hold the left mouse button while moving over the floor plan and mark with a rectangle all the devices that you want to select.)
  - search
  - filter
  - view options
  - help
- **Catalog** (Loads, Devices, Virtual Devices, Solutions)
- **Scene** module (Create/Control scenes)
- **Parameters** (select a device, load, or virtual devices and change their parameters)

## Creating Floors and Rooms

The **Floor** is the tab to start with when you create new projects.

You can create 10 floors maximum in eConfigure KNX Lite.

You can insert an image as a background of your floor (the floor plan) to allow graphic work in the design of your project.



Acceptable formats are:

- JPEG
- BMP

- PNG
- PDF
- JPG

The maximum size of the image is 5000 × 4490 pixels.

To create floors and rooms, follow these steps:


1. In the **Floor** tab, click **Add floor**.
2. Fill in the **New floor** form and upload the background image.
3. On your floor plan, draw rooms on each floor:
  - Click one of the two room creation tools according to the shape of your room:  
  - Draw the outline of your room (rectangle or polygon).
  - Name your rooms: Room names are given by default. If you want to rename them, click the pencil next to the default room name > type new name of your room > press **Enter** on your keyboard.
4. Drag and drop devices and loads into the plan and change the parameters for each item (if necessary).
5. Link devices with loads (or other devices).

## Manage and Edit Group Addresses

You can manage and edit group addresses in your project.

Manage group addresses as follows:


1. Select the right floor and your device.
2. Click the device connection line.
3. On the right side of the screen, click **Manage group addresses**.
4. If you want to change the group address (define your own) of your device, type the new address into **Forced address** column click **Close**.


DALI Gateway  
Switchboard 1

DALI Gateway 3  
MTN6725-0004

D2 - Group 1

Datapoint	Address	Other links addresses	Forced Address
In - On / Off (OO) - 1 bit (1.001)	1/0/26	12/0/95	<input type="text"/>
In - Incr. / Decr. lighting (DC) - 4 bit (3.007)	1/0/27		<input type="text"/>
In - Dimming value (DV) - 8 bit (5.001)		12/0/96	<input type="text"/>
Out - Info On / Off (IOO) - 1 bit (1.001)	1/0/25		<input type="text"/>
In - Lock (LCK) - 1 bit (1.002)			<input type="text"/>
Out - Failure status 1bit (1bit) - 1 bit (1.)	15/0/1		15/0/1
Out - Info dimming value (IDV) - 8 bit (5.001)		12/0/97	<input type="text"/>
In - Scene number (SN) - 8 bit (17.001)			<input type="text"/>


DALI Gateway  
Switchboard 1

DALI Gateway 3  
MTN6725-0004

D2 - Group 2

Datapoint	Address	Other links addresses	Forced Address
In - On / Off (OO) - 1 bit (1.001)	1/0/26	12/0/44	<input type="text"/>
In - Incr. / Decr. lighting (DC) - 4 bit (3.007)	1/0/27		<input type="text"/>
In - Dimming value (DV) - 8 bit (5.001)		12/0/45	<input type="text"/>
Out - Info On / Off (IOO) - 1 bit (1.001)		12/0/159	<input type="text"/>
In - Lock (LCK) - 1 bit (1.002)			<input type="text"/>
Out - Failure status 1bit (1bit) - 1 bit (1.)			<input type="text"/>
Out - Info dimming value (IDV) - 8 bit (5.001)		12/0/46	<input type="text"/>
In - Scene number (SN) - 8 bit (17.001)			<input type="text"/>

Edit project addresses as follows:

1. On the right side of the **Floor** tab, click **Edit project addresses**.
2. A list of all group addresses of your project opens where you can:
  - **Force supervision addresses** (The **supervision address** is an address that is used to control the device directly from the Touch application. The controller itself assigns the **supervision address** to individual devices.)
  - **Reset forced addresses** (remove forced addresses).
  - **Delete all addresses**

Edit project addresses					
Datapoint	Address name	Address	Forced	Supervision	Configured
Switchboard 1 - SpaceLogic KNX Dimming Master 230/2x350W 1/Channel 2 - DV (Dir	01/Room 1 - Dimming 2 - DV (Dimming value)	12/0/10	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Switchboard 1 - SpaceLogic KNX Dimming Master 230/2x350W 1/Channel 2 - IDV (In	01/Room 1 - Dimming 2 - IDV (Info dimming value)	12/0/11	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Switchboard 1 - SpaceLogic KNX Dimming Master 230/2x350W 1/Channel 2 - IOO (In	01/Room 1 - Dimming 2 - IOO (Info On / Off)	12/0/30	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Switchboard 1 - SpaceLogic KNX Dimming Master 230/2x350W 1/Channel 2 - OO (On	01/Room 1 - Push-button 1/Button Bottom Left - OO (On / Off)	1/0/0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Switchboard 1 - SpaceLogic KNX Dimming Master 230/2x350W 1/Channel 2 - OO (On	01/Room 1 - Dimming 2 - OO (On / Off)	12/0/9	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Switchboard 1 - SpaceLogic KNX Dimming Master 230/2x350W 1/Extension 1 - charn	01/Room 1 - Push-button 1/Button Bottom Left - DC (Incr. / Decr. lighting)	1/0/1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Switchboard 1 - SpaceLogic KNX Dimming Master 230/2x350W 1/Extension 1 - charn	01/Room 1 - Dimming 3 - DV (Dimming value)	12/0/13	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Switchboard 1 - SpaceLogic KNX Dimming Master 230/2x350W 1/Extension 1 - charn	01/Room 1 - Dimming 3 - IDV (Info dimming value)	12/0/14	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Switchboard 1 - SpaceLogic KNX Dimming Master 230/2x350W 1/Extension 1 - charn	01/Room 1 - Dimming 3 - IOO (Info On / Off)	12/0/31	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Switchboard 1 - SpaceLogic KNX Dimming Master 230/2x350W 1/Extension 1 - charn	01/Room 1 - Dimming 3 - OO (On / Off)	12/0/12	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Switchboard 1 - SpaceLogic KNX Dimming Master 230/2x350W 1/Extension 1 - charn	01/Room 1 - Push-button 1/Button Bottom Left - OO (On / Off)	1/0/0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Switchboard 1 - SpaceLogic KNX Dimming Master 230/2x350W 1/Extension 1 - charn	01/Room 1 - Dimming 4 - DV (Dimming value)	12/0/16	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Switchboard 1 - SpaceLogic KNX Dimming Master 230/2x350W 1/Extension 1 - charn	01/Room 1 - Dimming 4 - IDV (Info dimming value)	12/0/17	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Switchboard 1 - SpaceLogic KNX Dimming Master 230/2x350W 1/Extension 1 - charn	01/Room 1 - Dimming 4 - IOO (Info On / Off)	12/0/32	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Switchboard 1 - SpaceLogic KNX Dimming Master 230/2x350W 1/Extension 1 - charn	01/Room 1 - Push-button 1/Button Bottom Right - OO (On / Off)	1/0/3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Switchboard 1 - SpaceLogic KNX Dimming Master 230/2x350W 1/Extension 1 - charn	01/Room 1 - Dimming 4 - OO (On / Off)	12/0/15	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Switchboard 1 - SpaceLogic KNX Dimming Master 230/2x350W 1/Extension 2 - charn	01/Room 1 - Dimming 5 - DV (Dimming value)	12/0/19	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Switchboard 1 - SpaceLogic KNX Dimming Master 230/2x350W 1/Extension 2 - charn	01/Room 1 - Dimming 5 - IDV (Info dimming value)	12/0/20	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Switchboard 1 - SpaceLogic KNX Dimming Master 230/2x350W 1/Extension 2 - charn	01/Room 1 - Dimming 5 - IOO (Info On / Off)	12/0/33	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Switchboard 1 - SpaceLogic KNX Dimming Master 230/2x350W 1/Extension 2 - charn	01/Room 1 - Push-button 1/Button Bottom Right - OO (On / Off)	1/0/3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Switchboard 1 - SpaceLogic KNX Dimming Master 230/2x350W 1/Extension 2 - charn	01/Room 1 - Dimming 5 - OO (On / Off)	12/0/18	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Switchboard 1 - SpaceLogic KNX Dimming Master 230/2x350W 1/Extension 2 - charn	01/Room 1 - Dimming 6 - DV (Dimming value)	12/0/22	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Switchboard 1 - SpaceLogic KNX Dimming Master 230/2x350W 1/Extension 2 - charn	01/Room 1 - Dimming 6 - IDV (Info dimming value)	12/0/23	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Switchboard 1 - SpaceLogic KNX Dimming Master 230/2x350W 1/Extension 2 - charn	01/Room 1 - Dimming 6 - IOO (Info On / Off)	1/0/5	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Switchboard 1 - SpaceLogic KNX Dimming Master 230/2x350W 1/Extension 2 - charn	01/Room 1 - Push-button 1/Button Bottom Right - OO (On / Off)	1/0/3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Switchboard 1 - SpaceLogic KNX Dimming Master 230/2x350W 1/Extension 2 - charn	01/Room 1 - Dimming 6 - OO (On / Off)	12/0/21	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Force supervision addresses			Reset forced addresses		Delete all addresses
Close					

# Catalog

When creating a new project, select the correct catalog carefully, as you cannot change it later in an existing project.

Name your loads/devices because they appear in different places in the software and in the documentation.

## Loads

**Loads** are all the non-communicating elements of the installation.

Each load is connected to an actuator of the **Switchboard** tab.










**Loads** are not compatible with all actuators. It is important to choose the right loads in the **Floor** tab.



In the automatic composition of actuators, each load is linked to a specific family of actuators and has its icon.

When you hover the cursor over the load icon, the parameters of the load appear.

Drop and drag loads directly into your floor plan and name them.

There are the following types of loads available:

	Lighting area 10 A	Compatible with: MTN6492xx (used in automatic composition < 2 ch) MTN6705-0008 (used in automatic composition > 2 ch)
	Switch area 16 A	Compatible with: MTN647x93 (used in automatic composition)
	Dimming area	Compatible with: 350 W: MTN6710-0102 (used in automatic composition), MTN649350, MTN649310 500 W: MTN649350 (used in automatic composition), MTN649310 1000 W: MTN649310 (used in automatic composition)
	Group of ballasts 1 - 10 V	Compatible with: MTN64xx91 (used in automatic composition)
	Group of ballasts RGB DALI	Compatible with: MTN6725-0101 SpaceLogic KNX Dali Gateway Pro (used in automatic composition)
	Group of ballasts DALI (FW 1.x.x)	Compatible with: MTN6725-0001 (used in automatic composition)
	Group of sockets	Compatible with: MTN647x93 (used in automatic composition)
	Shutter/Blinds Parameter 230 V	Compatible with: 350 W: MTN6710-0102 230 Vca: MTN6498xx (used in automatic composition) 24 Vcc: MTN6497xx (used in automatic composition) 230 Vca: MTN6705-0008 (used in automatic composition > 2 ch)
	Floor heating area	Compatible with: MTN6730-0002 (used in automatic composition)

	Fan coil controller	Compatible with: MTN645094 (used in automatic composition)
	Binary input	Compatible with: MTN644492 / MTN644592 (used in automatic composition) MTN644892 / MTN644792 (used in automatic composition) MTN644992 / MTN644692 (used in automatic composition)

**NOTE:**

If you want to remove a device/load already added to a **Moment**, remove the device/load group addresses from your **Moment**.

Find out more in chapter 18 **Scenes**, of your controller user guide here:

<https://www.se.com/eg/en/product/LSS100200/spacelynk-logic-controller/> or  
<https://www.se.com/eg/en/product/LSS100100/wiser-for-knx-logic-controller/>

## Devices

The term *devices* means all the communicating devices that can be installed in the rooms:










- KNX
- Wireless

The devices are represented by icons. When you hover the cursor over the device icon, the parameters of the device appear.

You can use filters to display a selection of devices. Filtering categories and ranges (for push buttons) is possible.

You can drag and drop devices directly to your floor plan.

There are the following types of devices available:

	Push buttons	Push buttons control the installation. They are available with 2, 4, 6, and 8 keys.  Some devices have an IR function to allow the remote-control infrared commands.
	Push button interfaces	Push button interfaces control the installation. They are installed in the installation box behind all kinds of conventional push buttons. They can have 2 or 4 inputs.
	Push button Pro T	Push button Pro controls the installation. You can set the number of keys (1, 2, 3 or 4). It allows an adaptation on site without changing the reference.
	Thermostat	Thermostats allow heating area management and/or a cooling zone setting.  Some thermostats have buttons, whose functions are the same as the push buttons.
	Multitouch	The multitouch controls the installation (lighting, shutters, ...) as well as heating and cooling. It has a built-in touchscreen.
	Presence/Movement detectors	You can set monitoring of presence or movement with the presence/movement detectors.  Some of them allow the lighting regulation.
	Various sensors	CO <sub>2</sub> , humidity, temperature – indoor or outdoor (weather station). It is possible to back up the information in real time and to automate specific functions of the building.
	Valve drive	The valve drive controls the valves of the water heating system.
	Actuators embedded	Built-in actuators manage loads closing. They are used in projects where the electric cables do not allow installation of KNX components.



**NOTE:**

If you want to remove a device/load already added to a **Moment**, remove the device/load group addresses from your **Moment**.

Find out more in chapter 18 **Scenes**, of your controller user guide here:  
<https://www.se.com/eg/en/product/LSS100200/spacelynk-logic-controller/> or  
<https://www.se.com/eg/en/product/LSS100100/wiser-for-knx-logic-controller/>

## Virtual Devices

**Virtual devices** are all virtual functions that are not devices or loads. You can drop and drag them into your project.

Central linking creates a widget for scenes in the controller (**Scenes**, page 18).

When you use schedulers or central linking, the software automatically adds a controller to your installation (Wiser for KNX or spaceLYnk logic controllers).

All schedulers are created automatically in the controller user interface. The easiest way to create and set up a scheduler is as follows:

1. Create and name the scheduler in eConfigure.
2. Go to **Switchboard** tab and configure/reconfigure your controller. Adding the scheduler returns your configured controller to the list of unconfigured devices on the left.
3. Once the controller is reconfigured (it appears on the right in the list of configured devices in the **Switchboard** tab), you can set up a new scheduler directly in the controller environment (**Schedulers** or via **Configurator** as described in controller user guide available here: <https://www.go2se.com/ref=LSS100100/routedFrom=QRCode/DownloadDocuments>).

## Solutions


The solution is a set of devices and loads with predefined parameters to perform specific functions.

By default, the solution folder is empty. Once you create a solution, you can use it in all your projects (Import solution from your local storage).

There are 2 types of solutions:

- Created by Schneider Electric (Available on the online forum of Schneider Electric. Go to the **Help** section of the software and get the direct link.)
- Solutions created by the user as follows:
  1. Open the floor plan > click the **Solutions** tab > mark the devices/loads you want to include in your solution hold the **Shift** key and mark the devices/loads one by one with the left mouse button.
  2. Click **Create Solution** (CTRL + N).
  3. Fill out the **Create solution** form: Name, category, thumbnail, and icon.
  4. Click **OK**.

Your new solution appears in the **Solutions** list on the left:

- You can drop and drag solutions into your plan.
- If you click , you can edit, delete, and export your solutions.
- Save the exported solutions on your computer (\*.Sls file).
- Import solutions from your computer.

# Scenes

The scenes are combinations of actions triggered by a single command. You can create your scene from scratch or use scene templates. You can easily edit and delete your scenes in the **Scene** tab.

When creating a scene, you can only select the channels connected and compatible with the scenes.

## Creating Scenes without Using Templates

You can create custom scenes without using templates.

1. Click **New scene** down on the left.

2. Select your **Link type**.

**KNX scene:** The KNX scenes are activated, a sensor device (e.g., a push button) sends a scene number. The actuator activates an output action stored at this scene number.

**NOTE:** Wireless devices do not support KNX scenes.

**Central linking:** The sensor (e.g., a push button) sends a value directly to one or many actuators (e.g., 95% for dimming).

3. Fill in the scene name and your description (optional).
4. Select **None** in the **From template** menu.
5. Include devices and loads of your project in the scene.
6. Click **OK**.

Your new custom scene appears in the list of scenes on the left.

In the next step, assign loads to your scene:

1. Click your scene on the left select loads you want to add to your scene by clicking the connection point on the floor plan.
2. Select your floor.

3. On your project map, select the loads you want to include in your scene - click the black dot next to your load.



After the black dot turns orange, your load becomes part of the scene.

4. Go to the **Parameters** section on the top right and configure each load according to the function assigned to it:

Loads		
Name	PARAMETERS	
My Project / Heating	Off ▾	
My Project/Room 2 / Shutter 1	80% ▾	
My Project/Room 2 / Multitouch 1 - Thermostat	Standby ▾	

- Management of lighting intensity, rather than switching on/off
  - Opening/closing of roller shutters or specific level
  - You can enter thermoregulation (heating and cooling) by selecting the thermostat channel of the control devices (e.g., Multitouch Pro).
5. The last step to complete the scene function is choosing the control device from which you activate the scene. To do this, select at least one (free) channel of the control device (e.g., Multitouch Pro, Pro Button, contact interfaces, push-buttons).

Maximum number of scenes per items:

- Lighting and dimming – 5
- Switch and socket loads – 5
- Thermostats (except Multitouch) – 8
- Multitouch – 4

**NOTE:** Some thermostats are not possible to be integrated into scenes (Altira, Unica).

## Creating Scenes from Templates

**eConfigure** offers 10 scene templates that you can further customize.

Click **New scene** > fill in the scene name and its description > select your template from the following options:

Name	Function
Leave the building	<ul style="list-style-type: none"> <li>• Close blinds</li> <li>• Turn off lights</li> </ul>
Enter the building	<ul style="list-style-type: none"> <li>• Open blinds</li> </ul>
Light off building	<ul style="list-style-type: none"> <li>• Turn off lights</li> </ul>
Light on building	<ul style="list-style-type: none"> <li>• Turn on lights</li> </ul> <p>In the case of adjustable lights, bring the intensity to 100%.</p>
Light off floor	<ul style="list-style-type: none"> <li>• Turn off lights</li> </ul>
Light on floor	<ul style="list-style-type: none"> <li>• Turn on lights</li> </ul> <p>In the case of adjustable lights, bring the intensity to 100%.</p>


Name	Function
Blind down building	<ul style="list-style-type: none"><li>• Close blinds</li></ul>
Blind up building	<ul style="list-style-type: none"><li>• Open blinds</li></ul>
Blind down floor	<ul style="list-style-type: none"><li>• Close blinds</li></ul>
Blind up floor	<ul style="list-style-type: none"><li>• Open blinds</li></ul>

You cannot include the DALI lights of your project in scenes.

However, it is still possible to create group commands involving DALI lights. You must carry out this function by connecting DALI lights to a channel of a control device (for example, push buttons) and use the **Set value** function (between 0% and 100%). Then all the lights connected to the channel will turn on to the set intensity at the press of the corresponding button.


# Hide, Show, Filter, Zoom

In this mode, it is possible to select either a device or a load and view links related only to this item. This comes in handy when you are checking the installation.

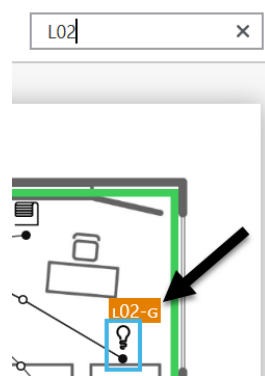
Click  and filter your links. Tick the function category of links you want to display:

- lighting
- blind
- HVAC
- socket
- other

You can zoom in and out of your map in two ways:

- Use CTRL + the mouse wheel.
- Click  > adjust the zoom (or image and link opacity)

You can search for objects in your plan by name. Type the search term in the search box.



# Channels and Links

Each device visible on your plan has black points called channels. You can set parameters of the channels to adjust behavior of your device.

You connect the devices or loads through their channels.

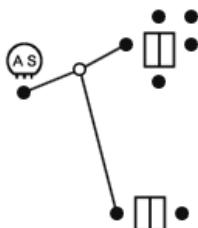
If connection is not possible, the channels are not compatible (there are no group objects in common).

You create the connection lines as follows:

1. Click the connection point of your load/device > hold the left mouse button > mark the other end of the connection line. The connection point turns blue if the connection is possible. It means there is at least one group object in common.

**NOTE:** If you right-click on a connection point, you will see a list of available data points.

2. In the **Link creation** dialogue, select a preset among the compatible presets > click **OK**. For example, switching on/off, dimming brighter/darker, moving blind up/down.



Use multi-floor symbol in the upper left corner to link loads and devices on different floors.

You have to have at least two floors created to use this feature.



On the target floor, you are able to link more loads or devices to the group.




## Device Parameters

Click the **Parameters** tab or any device or a load on your plan to get to its settings.

Not all parameters of the devices are available in eConfigure KNX Lite. Make sure the functionalities you want are integrated into the software. Some typical examples are described further.

Follow the tutorials available on Exchange Community (<https://community.se.com/>) for more details.

Not all parameters of the devices are visible by default: Go to the **Parameters** tab of your device > click  (**Advanced device parameters**) in the upper right > choose which parameters will be available for the device (check the **Visible** checkbox for each parameter).

### Example 1: Lighting and Blind Control



Button	Setting
1	Moving the blind up
2	Switching On
3	Moving the blind down
4	Switching Off

### Example 2: Heating Control (Valves)

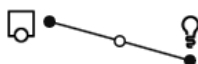


#### Thermostat settings

Heating control: PI continuous control (valves)

You can change several parameters, but the thermostat is ready to control heating without further changes.

### Example 3: Movement Detection (External)



In this example, the settings of the detector are directly set. The user changes the timer, sensitivity, and range right on the device.

You can change several parameters, but the detector is ready to control lighting without further changes.



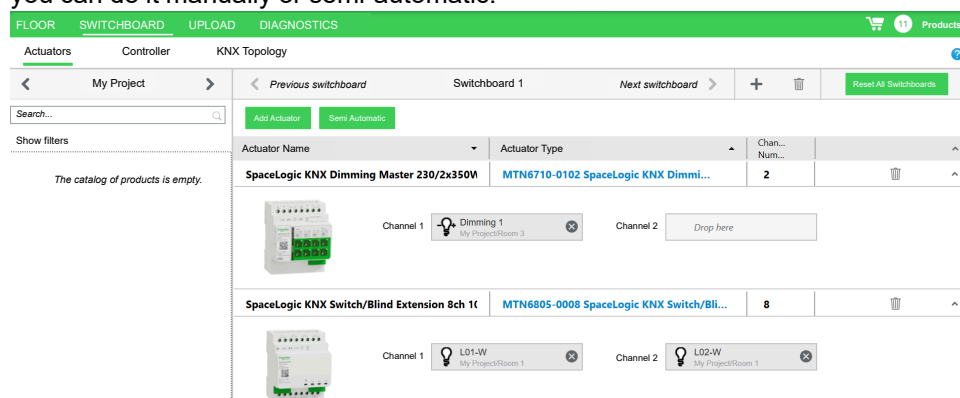
# Switchboard

When the floor plan design is finished, the next step is to assign your loads to actuators. This you do on tab **Switchboard**.

If only one switchboard per floor is required or one for the whole building, this can be done automatically. Otherwise you can do it manually or semi-automatic. See more in *Actuators*, page 25.

## Actuators

When the floor plan design is finished, the next step is to assign your loads to actuators. This you do on tab **Switchboard**. If only one switchboard per floor is required or one for the whole building, this can be done automatically. Otherwise you can do it manually or semi-automatic.



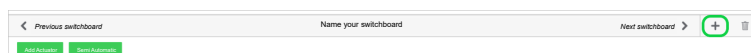
You integrate actuators as follows:

- **Automatically:**

1. Click **Switchboard** tab in the upper left of the screen to create a new **switchboard**.
2. Select **Automatic** configuration of the actuators.
3. Click **Start**.

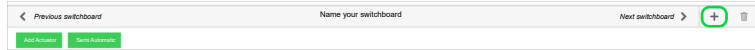
The software selects the required actuators for all your loads according to built-in rules and assign the loads to channels. You can change it later (Add/delete actuators).

4. Or select **Semi Automatic** > drag and drop the loads you want to connect into actuators on your **switchboard** > click **OK**.
5. You can add more switchboards later by clicking + in the upper right corner of the screen.

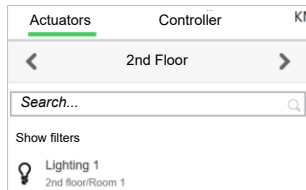


- **Manually:**

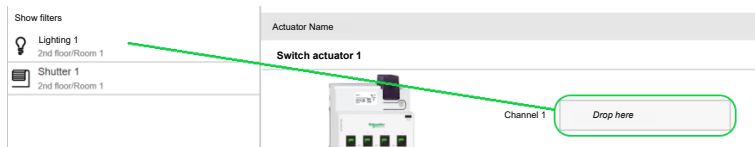
1. Click **Switchboard** tab in the upper left of the screen to create a new **switchboard**.
2. Select **Manual** > type the number of electrical panels in your building > click **Start**.
3. You can add more switchboards by clicking + in the upper right corner of the screen.



4. Click **Add Actuator** > select your actuator from the list. The actuator appears on your **switchboard**.
5. Select the floor where are the loads you want to connect.




6. Connect (drag and drop) your loads from the left to the actuator channels.



All of the actuators have a direct link to their product information page in the **Actuator Type** column.

You can switch between **switchboards** with the left and right arrows: 

If you want to delete your **switchboard**, select the one you want to delete > click  at the top right > click **OK**.

Clicking **Reset all switchboards** will delete your switchboards. You have to configure them again.

Name your **switchboards**.

eConfigure supports the Master/Extension concept, available in the new SpaceLogic actuators from Schneider Electric.

The master actuator can either operate independently or can also control one or up to two extensions, depending on the number of channels needed for each of its functions.

The available devices are:

- SpaceLogic Switch/Blind Master (MTN6705-0008)
- SpaceLogic Switch/Blind Extension (MTN6805-0008)
- SpaceLogic Universal Dimming Master (MTN6710-0102)
- SpaceLogic Universal Dimming Extension (MTN6810-0102)

Compatibility:

- The SpaceLogic Switch/Blind Master can only control Switch/Blind extensions

- The SpaceLogic Universal Dimming Master can either control Switch/Blind extensions or Dimming extensions

When automatically calculating the **Switchboard**, eConfigure proposes the best combination depending on the project needs.

SpaceLogic master and extension devices can also be added manually or semi-automatically.

When using Master/Extensions concept, eConfigure arranges the extensions to their corresponding master and names them accordingly.

Examples:

- SpaceLogic KNX Dimming Master 230/2x350W
- SpaceLogic KNX Dimming Extension 1-1
- SpaceLogic KNX Dimming Extension 1-2


## Adding a Controller to Your Installation

The controllers can add several functionalities to your installation and the users:

- VISUALISATION
- SCHEDULERS
- ZIGBEE DEVICE INTEGRATION
- ENERGY MONITORING
- TRENDS
- ADVANCED LOGIC

With the controller, you configure devices and generate a graphical interface for users to control the installation from their smartphone or tablet.

For Wiser for KNX there is the Wiser KNX app available on Google Play and Apple Store (Mobile App Settings, page 29).

FLOOR SWITCHBOARD UPLOAD DIAGNOSTICS		
Actuators	Controller	KNX Topology
		GENERAL INFORMATION
		MOBILE APP
		FIRMWARE UPGRADE
		DATE TIME
		ETHERNET
		KNX
		HYBRID CONFIGURATION
		END USER ACCOUNT

To add a controller, do the following:

1. Go to **Switchboard > Controller > Add a controller**.
2. Select the controller type and give it a name.

### 3. Set up the other parameters of your controller:

- language and password, page 28
- enable/disable cloud connectivity and automatic updates.
- enable/disable controller firmware upgrade, page 29.
- set up the time zone
- enter the network details, page 30
- KNX, page 30
- Hybrid configuration, page 30
- end user account, page 30

The GUI configuration is automatic.

You can make changes directly in the configuration of the controller interface.

Reprogramming with eConfigure KNX Lite may result in the loss of information if you select **Replace** in the **Upload** tab > **Select controller access** > **Configuration**.

It is recommended to save a copy of your complete project and your visualization in the controller. Information on how to do it is available in the product guide of the Wiser for KNX and spaceLYnk controllers.

Follow the user guides on how to configure and use Wiser for KNX and spaceLYnk controllers or look for the online tutorials at <https://community.se.com/>.

## General Information

In the **General information** section, select/fill in the following information about your controller:

- **Controller type**
- **Name:** Name your controller.
- **Language:** Select the language of the user interface.
- **Admin password:** See Password Change, page 28.

## Password Change

A password change is required if it does not meet the security requirements.

Password complexity requirements:

- The length between 8 – 32 characters
- At least one uppercase letter
- At least one lowercase letter
- At least one digit (0 – 9)
- European languages letters (A – Z with diacritics, sharp S, Greek and Cyrillic characters)

The admin password will be changed on the controller during the next upload.

## Mobile App Settings

eConfigure helps you to prepare your Wiser for KNX controller for the new Wiser KNX mobile app. The Wiser KNX app enables you to control your installation from outside of your home, create schedules, moments (scenes), and much more.

The app is currently available for:

- Germany
- France
- Spain
- Italy
- Sweden
- Portugal
- Egypt
- Lebanon
- Jordan
- Malta
- Qatar
- Oman
- Kuwait
- UAE
- Saudi Arabia

If you want to use Wiser KNX app you need to enable cloud connectivity by enabling the Cloud connector and KNX 3rd party IoT API.

It is also recommended to enable automatic updates for Cloud connector, KNX 3rd party IoT API, and Touch in order to keep them always up to date.

See more here <https://www.productinfo.schneider-electric.com/wiser-knx/>.

## Firmware Upgrade

In the **Firmware Upgrade** section, you can enable the automatic upgrade of the controller firmware.

If you enable the automatic update of the controller firmware, eConfigure KNX Lite will always update the controller firmware to the latest available version.

Check **Allow controller firmware upgrade**.

**NOTE:** It is highly recommended to enable this feature.

## Date Time

In the **Date Time** section, choose the time zone in which your controller is located.

**If you change the time zone, you may lose energy data.**

The time zone changes in some cases during a firmware reset/upgrade as shown in the following table:

Time zone updates	Time zone does not update
Upgrade/Reset controller firmware + replace configuration	Upgrade/Reset controller firmware + update configuration
Replace configuration	Update configuration

## Ethernet (IP Settings)

Set the IP configuration of the controller according to how the controller is connected to your computer.

Ask the user what type of IP protocol they prefer:

Static IP	Controller is directly connected to the computer via ethernet cable. (If you want to work with the controller, your computer has to be on the same IP network as the controller.)  Static IP is generally used in commercial buildings. Ask the IT specialist responsible and ask them about the settings.
DHCP (automatic)	Select this option if your controller is connected via a router.  DHCP is generally used in residential installation if you connect your controller to the DSL router of your end-user.

Take an IP training or contact the integrator for more details about the automatic and manual connection.

**NOTE:** After the commissioning, the controller is accessible via the IP address you enter here.

## KNX

In this section, enter the KNX address of your controller.

## Hybrid Configuration

If your installation contains wireless devices, get the ZigBee network configuration data from your Hybrid module in the **Hybrid configuration** tab:

- Go to **Switchboard > Controller > click Hybrid configuration > Get data.**

HYBRID CONFIGURATION

Channel:

15 (2425 MHz)

Pan ID (network identifier):

38223

Network key:

A8 9C F0 4D 61 B1 26 A6 AE DD EB B6 8D 46 5

Automatic network close time (minutes):

5

⚠ Changing network configuration requires pairing of all devices from scratch.

⚠ Changing channel without changing PAN ID might prevent new network formation.

Get data

Set data

Please commission the controller before changing these settings.

- If you need to change the obtained data (for example, change the channel), make changes in the form and click **Set data**.

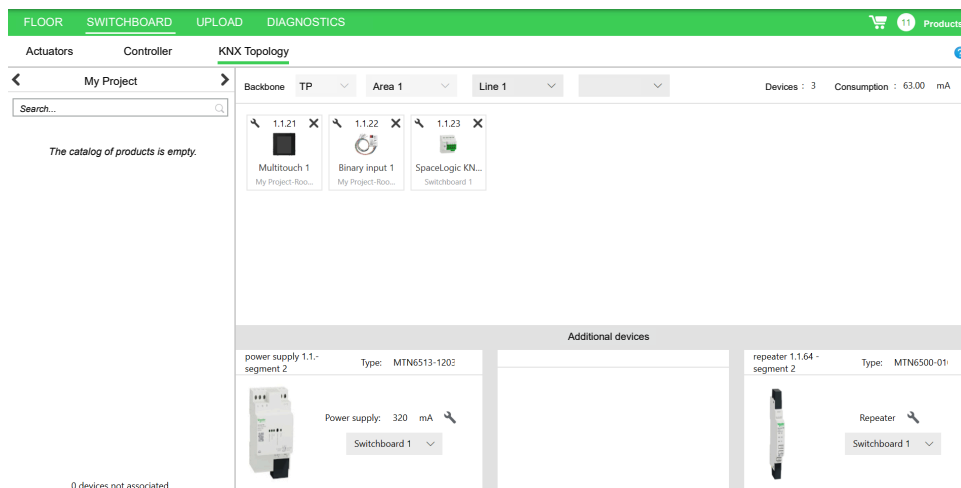
**NOTE:** Changing the network configuration requires the devices to be paired again. Changing the channel without changing the PAN ID may prevent creation of a new network. Commission your controller before you change the **Network key**.

## End User Account

In the **End User Account** section, you can create controller local user accounts. Each user can log in to the web interface of the controller with their user credentials.

The same rules apply to setting a password as in the **Password Change**, page 28 chapter.

# KNX Topology





**KNX Topology** tab displays devices divided by location. With the eConfigure Lite it is possible to use the main line of the area one and three additional lines. Each line can be assigned up to 63 devices. eConfigure automatically assigns first 63 devices to line 1.1. Additional devices will stay on the left side for manual assignment (**Devices not associated**).

If you have more than 64 devices, distribute them into segments of the KNX bus.

When you add a new segment, eConfigure automatically adds SpaceLogic KNX Bus Coupler as a repeater.

The devices are displayed as tiles with the information on their name, location, and group address.

You can:

- Modify the individual addresses of your devices:
  1. Click  on your device tile > fill in the numbers.
  2. Click **OK**.
- Remove devices: Click **x** and remove devices.
- Replace your power supply: Click  on the power supply > select the item from the list.

# Upload

Once you have finished the floor plan, switchboards, and KNX topology, you can move to the **Upload** tab.

The **Upload** tab allows downloading programs into devices and gives you information about:

- **Installation status:**  
Shows errors and warnings of **Floor** and **Switchboard** tabs. Click **Installation status** and see the overview.
- **Devices to configure/Devices configured:**  
On the left side of the screen, you see the devices that need to be configured. On the right side of the screen is a list of already configured devices.

Installation status <span>2 error(s)</span> <span>2 warning(s)</span>				
0 device(s) to configure				
<input type="checkbox"/>	Name	Description	Address	
<input type="checkbox"/>	Multitouch... My Project...	Multitouch MTN6215-5910	1.1.21	Addressed
<input type="checkbox"/>	SpaceLog... Switchbo...	SpaceLogic KNX Dim... MTN6710-0102	1.1.23	Addressed
<input type="checkbox"/>		spaceVnk Logic Cont... LSS100200	1.1.251	Not addressed
<input type="checkbox"/>	KNX Push... 2nd floor/...	KNX Push-button, Dy... MTN6194-6010	1.1.2	Not addressed
<input type="checkbox"/>	FM actual... 2nd floor/...	Blind and heating act... MTN6003-0006	1.1.1	Not addressed
3 device(s) configured				
<input type="checkbox"/>	Name	Description	Address	
<input type="checkbox"/>	PB-01 My Project/Room...	Push-button Pro MTN6180-6034	1.1.11	
<input type="checkbox"/>	Binary input 1 My Project/Room...	Push-button interface, 4-gang... MTN670804	1.1.22	
<input type="checkbox"/>	repeater 1.1.64 ... Switchboard 1	SpaceLogic KNX Coupler MTN6500-0101	1.1.64	

## KNX Devices Configuration

Connect your computer to a USB interface, or make sure you have a KNX IP interface before uploading the programs into your devices.

The reference of the USB interface is MTN631829 or MTN6502-0101.

You can connect to the complete installation (on site) or each device (in your office, for example).

If you want to configure the controller, connect it to the computer with a RJ45 cable.

Follow the downloading steps in the wizard.

Click **Select Interface** at the bottom left of the **Upload** tab.

eConfigure will search for available KNX USB and IP interfaces for the access to KNX.

After the searching, double-click your interface or select your interface and click **OK**.

You can add your interface manually:



1. Click **Add interface** > fill in the form:

- **Name**
- **Individual address**
- **IP address**
- **Port**
- **Using NAT:**  
Be careful with using NAT mode to connect to unsecured interfaces over the internet. It is safer to establish a VPN connection and use local IP addresses instead.  
The client router has to be configured to allow port mapping.

2. Click **Test** to verify connection. If successful > click **OK**.

Possible reasons why an interface is not recognized:

- Compatible interface: USB interface (MTN681829) or Wiser for KNX/homeLYnk (LSS100100)/spaceLYnk (LSS100200).
- If you are using controller check that your computer is on the same network.
- If you are using controller, verify that the firewall is not blocking communication with the controller.

If you want to configure your devices, follow these steps:

1. In the **Upload** tab, select the devices you want to configure and click the arrow button in the center of the screen.
2. Follow the wizard steps. If your device is not addressed, press the programming button on your device to give it the individual address.
3. Wait for the configuration to finish.
4. If you want to configure only the individual address, click **Address only** at the bottom of the screen and follow a wizard.
5. If you have several devices with the same individual address, you made a mistake. Click **Reset the device** and start over.

It is always better to configure each device separately.

Once the device appears on the right side of the Upload tab screen, the configuration is complete.

## DALI Gateway Configuration

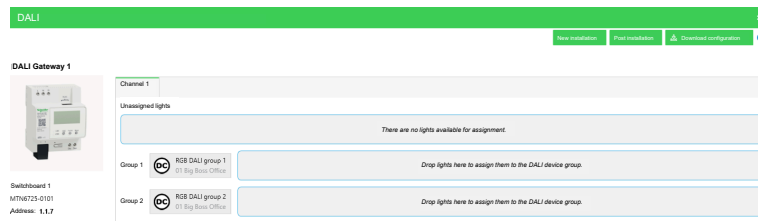
If you have a DALI Gateway in your installation, you need to assign the lights (ECGs) to DALI groups after the configuration of DALI Gateway. All the ECGs must be powered and connected to the DALI Gateway via the DALI bus.

In the list of commissioned devices on the right side of the screen in the **Upload** tab, find the DALI gateway you want to configure and proceed as follows:

1. Click **Configure** button in the device line > select one of the following options:

- **New installation:**  
You start the new installation process. This includes searching for all lights and deleting the existing configuration.
- **Post installation:**  
Post installation means maintaining the existing configuration (adding/removing lights) and searching for new lights.
- **Download configuration** to download group configuration into the DALI Gateway and the ECGs.

**NOTE:** No new lights are searched for. Only the configuration of already discovered lights will be downloaded.



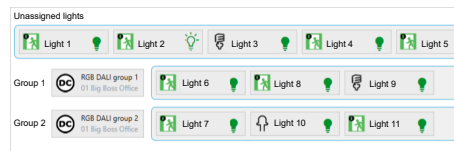
2. You can search for the right light to assign inside the **Unassigned lights** section.

You can identify the light as follows: Right-click the light icon and select one of the following options:

- **Turn on:** The light turns on
- **Start blinking:** The light starts blinking.

To turn off the light, right-click the light icon and click **Stop blinking/Turn off**.

3. Drag and drop unassigned lights and assign them to groups. **The changes are saved immediately to the DALI Gateway.**



4. Click **Close**.

DALI Gateway is configured.

## Controller Commissioning

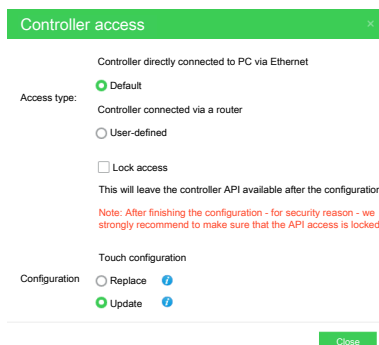
If your installation includes a logical controller, you have to commission it.

Proceed as follows when commissioning the controller:

1. Set **Access type Default**, page 35.
2. Set **Access type User-defined**, page 35 > configure your controller.

## Access Type Default

1. In the **Upload** tab, click **Select controller access** > select **Access type** > **Default**:



The screenshot shows the 'Controller access' configuration window. At the top, it says 'Controller directly connected to PC via Ethernet'. Under 'Access type:', the 'Default' radio button is selected. Below it, there are options for 'Controller connected via a router' and 'User-defined', both unselected. There is a checkbox for 'Lock access' which is also unselected. A note states: 'This will leave the controller API available after the configuration. Note: After finishing the configuration - for security reason - we strongly recommend to make sure that the API access is locked!'. At the bottom, under 'Touch configuration', the 'Update' radio button is selected. A 'Close' button is at the bottom right.

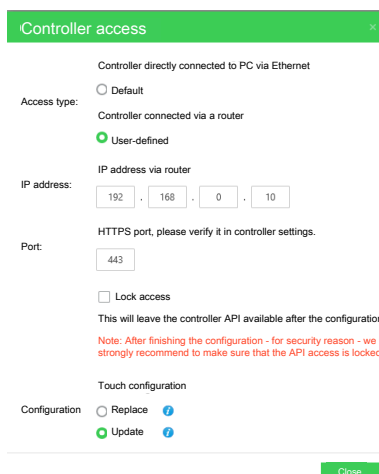
- For local configuration only (controller is directly connected to PC via Ethernet cable).
  - The eConfigure communicates with the controller on IP address 192.168.0.10.
  - The IP address on your PC will automatically change so that your PC can communicate with the controller.  
After configuring the controller, the IP address will return to the original one and the IP address of the controller will be set to the value you entered in the **Upload** tab.
2. After initial configuration in the **Default** mode, connect your controller to the router and switch to **Access type** > **User-defined**.
  3. Proceed as described here: [Access Type User-defined](#), page 35.

## Access Type User-defined

After initial configuration in the **Default** mode, connect your controller to the router and switch to **Access type User-defined**:

1. In the **Upload** tab, click **Select controller access** > select **Access type** > **User-defined**.

**NOTE:** Your computer must be connected to the same network as the controller.



The screenshot shows the 'Controller access' configuration window. At the top, it says 'Controller directly connected to PC via Ethernet'. Under 'Access type:', the 'User-defined' radio button is selected. Below it, there are options for 'Default' and 'Controller connected via a router', both unselected. There is a checkbox for 'Lock access' which is unselected. A note states: 'This will leave the controller API available after the configuration. Note: After finishing the configuration - for security reason - we strongly recommend to make sure that the API access is locked!'. At the bottom, under 'Touch configuration', the 'Update' radio button is selected. A 'Close' button is at the bottom right.

2. Enter the controller IP address and HTTPS port which is assigned to the controller.

**NOTE:** Verify the HTTPS port in your controller settings.

3. Lock the controller API.  
The **Lock access** function locks the controller (for security reasons). eConfigure will automatically unlock the controller for the duration of the upload.

**NOTE:** For security reasons, make sure API access is locked after you finish the configuration.

4. Select **Touch configuration** settings:
  - **Replace:** Touch configuration will be deleted from the controller and replaced by the new one.
  - **Update:** Touch configuration will be updated in the controller and user changes in Touch Config will remain.
5. Click **Close**
6. Go to the list of devices to configure on the left in the **Upload** tab > select your controller > click the arrow in the middle of the screen.
7. Click **Trust** in the **Potential Security Risk** dialogue to establish the connection to the controller.
8. Follow the steps in the upload wizard.  
The controller restarts to apply IP changes. Check that your network is aligned with the new controller IP.
9. Click **Close**.

The controller is configured and moves to the right to the configured devices.

## ZigBee Devices

It is also possible to manage ZigBee devices in eConfigure. In order to pair them with the controller, you have to connect your controller to the SpaceLogic KNX Hybrid module.

eConfigure automatically installs the Hybrid plugin.

ZigBee devices support **only one group address**. If you connect several ZigBee devices to one switching device, a scheduler, or a central command, you cannot control the ZigBee devices separately anymore.

### Example:

Channel 1 of Avatar dimmer 1G and channel 1 of Avatar dimmer 2G are connected to the free locate switch. If you control one dimmer from the Touch application, the other dimmer reacts simultaneously.

**Manage link group addresses**

Push-button FLS 1G Button  
5th floor Lab E8332RWMZB\_WE

Datapoint	Address	Other links addresses	Forced Address
Out - On / Off (OO) - 1 bit (1.001)	1/0/0		
Out - Incr. / Decr. lighting (DC) - 4 bit (3.007)	1/0/1		
Out - Dimming value (DV) - 8 bit (5.001)	1/0/2		

FM actuator Dimmer 1G Channel 1  
5th floor Lab E8331DST

Datapoint	Address	Other links addresses	Forced Address
In - On / Off (OO) - 1 bit (1.001)	1/0/0		
Out - Info On / Off (IOO) - 1 bit (1.001)		12/0/1	
In - Incr. / Decr. lighting (DC) - 4 bit (3.007)	1/0/1		
In - Dimming value (DV) - 8 bit (5.001)	1/0/2		
Out - Info dimming value (IDV) - 8 bit (5.001)		12/0/0	

FM actuator Dimmer 2G Channel 1  
5th floor Lab E8332DST

Datapoint	Address	Other links addresses	Forced Address
In - On / Off (OO) - 1 bit (1.001)	1/0/0		
Out - Info On / Off (IOO) - 1 bit (1.001)		12/0/3	
In - Incr. / Decr. lighting (DC) - 4 bit (3.007)	1/0/1		
In - Dimming value (DV) - 8 bit (5.001)	1/0/2		
Out - Info dimming value (IDV) - 8 bit (5.001)		12/0/2	

## ZigBee Devices Pairing

To integrate your ZigBee devices with the SpaceLogic KNX Hybrid application on your controller, follow these steps:

### 1. Device selection:

- Navigate to **Catalog > Devices**.
- Select the ZigBee devices you want to add to your floorplan.

### 2. Room placement:

- Drag and drop the selected devices into their respective rooms.
- Link them with your installation (**Channels and Links**, page 22).
- Configure their parameters in the **Parameters** tab (**Device Parameters**, page 23).

**NOTE:** Safety ZigBee devices (such as alarms, water leakage sensors, and door/window sensors) automatically trigger each other via a separate IF network. No additional linking is required for these safety devices.

### 3. Device pairing:

- Go to the **Upload** tab.
- Choose the specific device you want to pair.
- Click the arrow in the middle.
- Follow the wizard steps.
- If your device is not detected within 30 seconds, reset it (you can find the instructions in the wizard).

### 4. Completion:

- Click **Close**.
- Once pairing is complete, the device will appear in the list on the right side of the screen.

**NOTE:** Be aware that initial pairing attempts may not always succeed. If you encounter issues, try again.

## ZigBee Devices Unpairing

To unpair your ZigBee device, do the following:

1. In the **Upload** tab, select your device in the list of configured devices on the right side of the **Upload** tab.
2. Click **Reset the device**.
3. Follow the eConfigure instructions for unpairing.

Upon successful reset of the device, the LED stops blinking. The device restarts and blinks green for a few seconds. After reset, the LED turns off to save the battery of the device.

After unpairing, the device will appear back on the left side of the screen in the **Upload** tab.

## Remote Connection Using VPN (Secure)

If you want to connect remotely to a KNX IP interface via the Internet, we recommend using a VPN connection, as this is a secure connection. Connect the KNX IP interface via VPN as follows:

1. Connect your computer to a VPN.
2. Go to the **Upload** tab in eConfigure and click **Select Interface**.
3. eConfigure/ETS cannot search for KNX IP interface through the VPN connection, so you have to add the interface manually: Click **Add interface** and fill in the **Add interface** form.

## Remote Connection Using Direct Connection and Port Forwarding (Unsecured)

**Port-forwarding is an unsecured connection method. Anyone can connect to your network because a username and password are not required. It is recommended to use VPN connection instead.**

## Installation Status

Warnings and errors are displayed in **Installation status** section.

If you click **Upload > Installation status**, you can see a detailed list of the installation elements and descriptions of the problems.

- **Errors** are problems that prevent the software from running.
- **Warnings** are problems that do not prevent the software from running but may be forgotten on your part.

## Bill of Materials (BOM)

The bill of materials (BOM) is a list of all **devices** of your project.

The USB interface is not included in BOM. You can use the same USB interface for all your project.

Verify that you set up your actuators and controllers properly. Otherwise, they will not appear in the list of hardware you generate from your BOM.

If your project has several line segments, please check whether the tab **Topology** is correctly set.

The BOM contains only the devices. Do not forget to order additional accessories:

- Push-buttons: frames, installation boxes, and additional accessories.
- Controllers: power supplies.

Each BOM item contains the following information:

- Name
- Reference
- Description
- Range
- Color
- Finition

To view the BOM, click  in the upper right.

From the BOM, you can:

- Export: group addresses, reports, and lists (for your customers and users).
- Apply color to all products.

## Creating Reports from Your BOM

At any stage of the project, you can generate the following reports from the BOM (Bill of Materials (BOM), page 39):

Click  > click **Export reports and lists**.

You get the following reports that are exported in a \*.zip file:

- Bill of material
- Installation/customer report
- User report
- Floor plans
- \*.esf file with group addresses

## Installation (Customer) Report

The installation report contains information for the electrician to be able to:

- Check the list of devices and loads.
- Wire the actuators to the right loads.
- Install the devices at the right place in the project.

- Check the proper functioning of the installation.

## User Report

The **User report** provides the end user with the essential information so that they can test the installation and validate that it corresponds to their needs.

You can include this report in your quotation to provide more details.



# Diagnostics

The **Diagnostics** function helps you to identify devices of your network and detect configuration inconsistencies. KNX and Zigbee devices are diagnosed separately.

The diagnostics tool provides three functions to identify a device:

- Identify devices through bus monitoring
- Check individual addresses
- Identify all devices in programming mode

Diagnostics is useful, for example, in the following situations:

- You want to upload your device, but the group address is already taken. You want to see which device is using this address so that you can upload the application to the right device.
- You note that clicking the button does not turn on a lamp. You want to find this button in the eConfigure project (as there are several buttons in the same room).
- You suspect that a button is not connected to the right actuator. You want to identify the right actuator, to connect the button to this actuator.

The software guides you step by step through the entire diagnostics process.

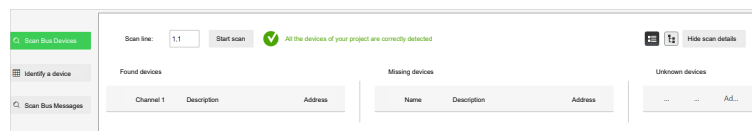
You can also perform the diagnostics manually using the individual buttons in the lower half of the **Diagnostics** tab.

## KNX Diagnostics

### Scan Bus Devices

With the **Scan Bus Devices** function, you can scan for devices that are physically configured on lines.

In **Diagnostics** tab > **KNX**, click **Scan Bus Devices** and select the line you want to scan. The lines correspond to the lines defined in **Switchboard** > **KNX Topology**.



Devices are sorted into three columns according to the scan result:

- Found devices
- Missing devices
- Unknown devices

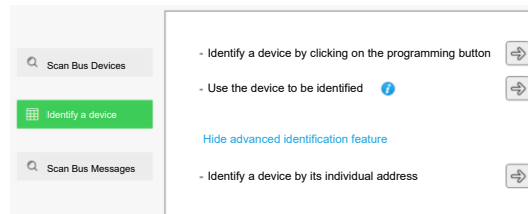
If a device does not appear anywhere, you may look for it in **Switchboard** > **KNX Topology**, whether it is configured on the correct line according to your electrical wiring.

## Identify Devices

In **Diagnostics** tab > **KNX**, you can identify a device on your network with **Identify a device** function.

There are three ways how to do it:

- Press the programming button.
- Use the device to be identified.
- Type the device individual address (click **Show advanced identification feature**).



Follow the step-by-step guide which will guide you in diagnosing link issues.

## Identification by Programming Button

Most devices have a programming button, which turns on (or off) a programming LED.

If you want to identify your device with its programming button, do the following:

Press the programming button of your device > click **Start scan**.

By default, detection starts on line 1.1.

If you want to look for a device on another line, click **Show advanced parameter** > type the number of the line to scan > click **Start scan**.

All the devices with their programming LED on display on the screen.

Press the programming button of the devices you do not want to identify to turn off their programming LED.

## Identification by Using the Device

If your device programming button is difficult to be accessed, you can identify your device by using it. This tool can detect unexpected messages on the bus (by detectors for example).

The detection process has to be running (visible on the bottom of the screen).

- Trigger the device you want to identify, so that it sends messages to the bus (for example, click the button of a push-button or trigger the presence detector).
- With the button **Ignore this device**, you can ignore any new message sent by this device during the detection process.
- If you want to detect again a device you have ignored, click **Show ignored devices: X** (X = the number of ignored devices) > click **Detect this device again**.
- If you want to ignore all devices except the one you wanted to identify, click **Keep only this device**.

Your device may be undetected because it did not send any message to the bus. You need to identify your device through the programming button or its address.

## Identification by Individual Address

If you know the individual address of your device (it is visible in the **Switchboard** > **KNX topology** or the **Upload** tab), you may want to identify your device by typing its address.

If a device is found after you typed its address, turn on/off the programming LED of your device, so that you can locate it.

If there is no device at this individual address, run the **Scan bus devices** feature which may help you to find it.


Some devices may be detected but not recognized:

Those are labeled as **Unknown device**. They have probably been uploaded from another project in eConfigure, or you have made significant changes in your project since you uploaded this device for the last time.

We recommend you reset such device and re-upload it so that it is updated.

## Scan Bus Messages

To see the traffic of your network you can run the **Scan Bus Messages** feature:

Click **Diagnostics** tab > **KNX** > **Scan Bus Messages** > .

While scanning all the messages are monitored.

Each message provides information about:

- Hour (sending time)
- Service
- Source address (of sending device)
- Source name (device name)
- Destination address (device group address)
- Destination name
- Info (value of the message – On, Off, Up, Down, percentage, etc.)

## Zigbee Diagnostics

In Zigbee device diagnostics, you can view the status of individual devices, a list of logs, and monitor device activity.


Start the diagnostics as follows:


1. Click **Diagnostics** > **Zigbee** > **Connect**.
2. Select the tab: **Devices/Logs/Monitor**.


## Devices

In **Diagnostics** > **Zigbee** > **Devices**, you can see all the paired devices and do the following:

- View information about individual devices:
  - **MAC address**
  - **Name**
  - **Manufacturer**
  - **Model**
  - **Firmware version**
  - **Battery level**
  - **Link quality**
  - **Update time**
  - **State**
  - **Actions**
  - **Location**
- View device configuration (all devices):

Click the **Configure** button or  at the end of the device line and view the device configuration. You can only view the configuration for devices that are configured (the device has a white background).
- View device parameters:

If device parameters are available, click the **Parameters** button or  at the end of the device line to see them. You can only view parameters for devices that are configured (the device has a white background).
- Remove devices:

Click  at the end of the device line and click **Yes** to confirm. Your device will be removed from the network.

The meaning of the colors of individual devices:

- White devices are configured.
- Yellow devices are not configured.
- Red color means the device left the network.
- Green devices are undergoing a firmware upgrade.

## Logs

The network log is a direct access data set that stores messages, commands, and communications about network functions.

You can gather every packet or a set of packets for further analysis, traffic monitoring, or troubleshooting.

Several kinds of information can appear in your network log:

- Job time, step time, and data entered by user-written routines.
- Operating data.
- Descriptions of unusual events.

You can export the values as \*.txt and save them locally.

## Monitor

The **Monitor** function monitors the activity of the device in the network and the reported values:

- **Number**
- **Time**
- **Type**
- **Link quality**
- **Address**
- **Name**
- **Model**
- **Cluster**
- **Group**
- **Action**
- **Data**

You can export the values as CSV and save them locally.

# eConfigure Expert

eConfigure Expert software is a plugin in ETS. eConfigure Expert has all the features and appearance of the Lite version.

Compared to eConfigure Lite, there is more to do with eConfigure Expert.

You can:

- Create your own devices.
- Export your project to ETS.
- In **KNX topology** tab, you can work with an unlimited number of areas and lines (max. 4 lines and 1 area in eConfigure Lite).

**NOTE:** You can only use the eConfigure Expert plugin with ETS Professional.

## eConfigure Expert Installation

Install the eConfigure Expert software as follows:

1. Go to [my.knx.org](http://my.knx.org) > purchase eConfigure Expert > download it to your local storage.
2. Launch the ETS software on your computer.
3. ETS6: Go to **Settings** click **Install app** > select the installation file from your local storage > click **Open**.  
**NOTE:** In ETS5, click **Apps** on the right side of the bottom bar > click the plus sign to select the installer file from your local storage.
4. After the installation is complete, open the ETS software again, open an existing project or create a new one.
5. ETS6: In your project, go to **Panels** > **All panels** > **Schneider Electric** > click eConfigure Expert to launch it.

**NOTE:** In ETS5, click **Apps** > click eConfigure Expert.

eConfigure Expert will launch as a new window in ETS and you can start to use it.

## Creating User Defined Devices

This function allows you to create models of devices and integrate devices from ETS that are not modeled in eConfigure Expert.

This function is not a complete modeling tool. It allows you to take a snapshot of an existing ETS device configuration, assign the data points to connection codes, and sort them into channels.

Before you want to create a device in eConfigure Expert, do the following in the **ETS**:

1. Open an existing or create a new project.
2. Go to **Devices** > click **Add Devices**.
3. Select your device in the Catalog.
4. Drag and drop your device into **Devices** section of your ETS project.

Switch to eConfigure Expert window on your screen:

1. In the **Floor** tab, go to > **Catalog** > **Create Device**.

**NOTE:** At this point, a snapshot of the current settings of your ETS device is taken. Later changes will not be considered. The settings are read-only, and you cannot edit them.

2. Select your device and fill in the rest of the **Generic Device Information** form.
3. In the **Channels** tab, add channels to grid and name them.
4. Switch to **Parameters** tab and configure **Data Points** and **Parameters** for the device.
5. Click **Test configuration** > fill in the floor and location of your device in the floor plan form > click **OK**.

**NOTE:** If you click **Test configuration**, a test mode of eConfigure Expert opens and asks you to create a test project. In the test mode, you can test your device without influencing your main project. You can find your device in the catalog of the **Floor** tab. Using the **Back to device edition** button at the top right, you can return to editing your device. Each time you reenter the test mode, new draft of your device is created. Your previous drafts remain available.

6. Once you finish modeling your device click **Commit** > **Yes**.

**NOTE:** You will not be able to make any changes after committing. If you exit the **User Model Creator** without committing, your progress will be lost.

Your newly created device is available in eConfigure Expert > **Floor** > **Catalog** > **User defined devices**. You can treat the device like any other device of your project.

## Generate Project in ETS

You transfer the eConfigure Expert project to ETS as follows:

1. In ETS, create and name your new project to which you want to transfer the data from eConfigure Expert. Open your new project in ETS.
2. In eConfigure Expert, click **Products** at the top right of the screen.
3. In the **Bill of materials**, click **Generate project in ETS**.

Bill Of Materials						
34 products			<a href="#">Apply color to all products</a> <a href="#">Generate project in ETS</a> <a href="#">Export reports and lists</a>			
Name	Reference	Description	Range	Color	Finion	
01 - Room 1 - Push-button 1	MTN6185-03xx / MTN6185-04xx	Push-button Pro Temperature	System M	active white, gl...	MTN6185-0325	
01 - Big Boss Office - Push-button 2	MTN6185-03xx / MTN6185-04xx	Push-button Pro Temperature	System M	active white, gl...	MTN6185-0325	
01 - Room 1 - Sensor 1	MTN6005-0001	CO2, humidity and temperature sensor			MTN6005-0001	
01 - Room 1 - Sensor 2	MTN6005-0011	Air Quality Multisensor			MTN6005-0011	

The data from eConfigure Expert are transferred to your ETS project.

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