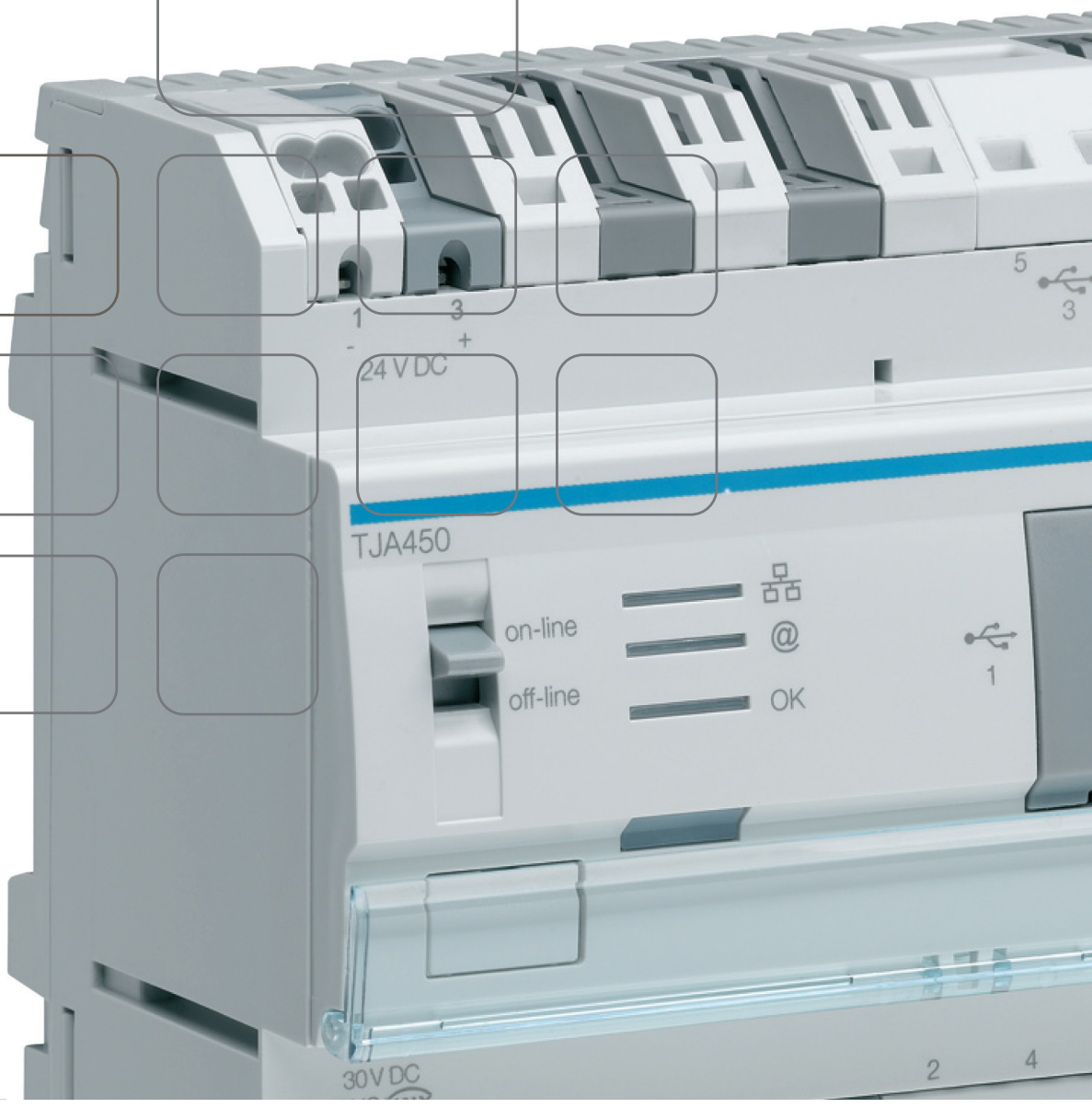
domovea

installer manual



tebis

SUMMARY

Page

1. INTRODUCTION

1.1 PURPOSE OF THE DOCUMENT

The descriptions in this manual are intended to familiarize the installer with the domovea system provided by Hager.

The procedures in this manual are intended to assist the installer during the domovea system installation and configuration through appropriate software tools.

For better understanding, a specific example will be described and illustrated.

2. GENERAL DESCRIPTION

2.1 SYSTEM OVERVIEW

domovea is the control and visualization software for Tebis installations. It provides access to all features for home automation from computer terminals (PC, touch screens) in the house. Under the normal Tebis commands, domovea adds new comfort and safety elements: triggering sequences (planned or immediate action sequences), changing the configuration of the house based on events or periods, viewing via images the proper execution of prior commands, or commands in progress, all with a single click.

2.2 OVERVIEW OF THE SYSTEM

The domovea system consists of three modules:

- Server:

  A TJA450, a hardware interface between the KNX bus and the local network of the house

  OR

  A server PC linked to KNX/USB (TJ701A) media coupler able to perform the same function.

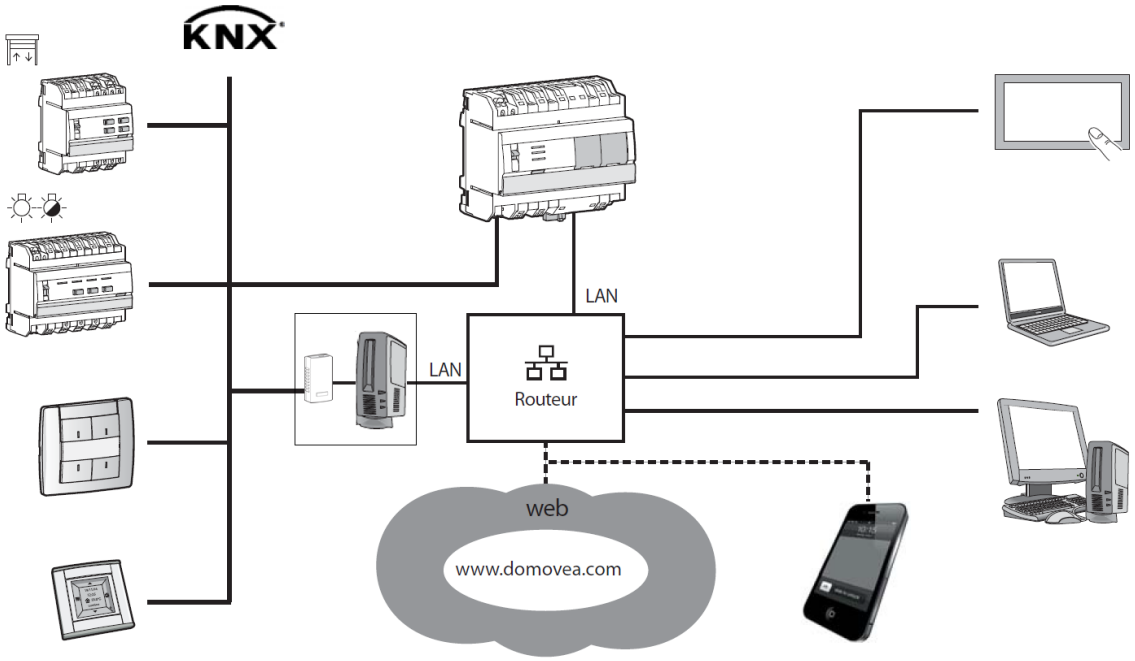
- Client:

  This software is the client interface. It must be installed on a touch screen, PC or a mobile device. The maximum number of clients that can be installed behind a server is 30.

- Configuration Tool:

  This software is used to configure and program the client interface. It can be loaded on the installer's laptop.

The following diagram describes the hardware architecture of a Tebis/domovea installation:



The domovea system is based on two different networks in a building:

- The KNX network (cable, wireless or mixed) in which all KNX sensors, actuators, switches, etc., are installed,
- The Ethernet network where all the IP clients are connected to the LAN (local network): PC, touch screens, cameras and so on.

The TJA450 domovea server provides a gateway between the two networks.

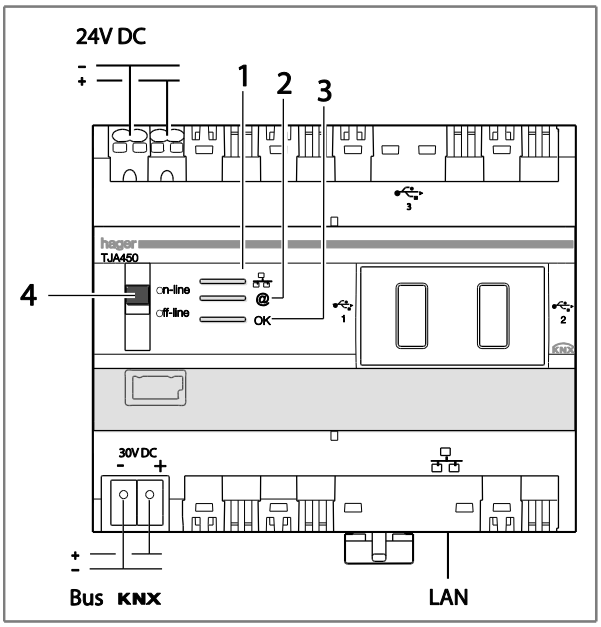
Domovea remote access is carried out via the www.domovea.com portal.

2.3 THE DOMOVEA SOLUTION

Reference	Description	Composition
TJA450	Local visualisation and automation server	- TJA450: domovea server - USB key containing the software
TJ701A	Command software- visu.KNX	- TH201: KNX/USB media coupler - USB cable - USB key containing the software
TJ550	domovea remote access key	- USB Key containing the remote access license for the domovea.com portal
TGA200	24 VDC power supply	- 230VAC/24VDC 1A power supply
TJA451	domovea system kit	- TJA450: domovea server pre-activated for remote access - TGA200: 24 VDC power supply - USB key containing the software

2.4 FRONT OF THE TJA450 DOMOVEA SERVER

The following table summarizes the meaning of each LED (1, 2 and 3):



LED	Status	Meaning	Fault correction
🖧 ①	Off	Network cable unplugged	Connect the network cable
	Solid red	IP address conflict	Check the IP addresses used on the network
	Flashing green	Waiting on IP address from the DHCP server	/
	Solid green	IP address received	/
@ ②	Off	No connection to the portal	/
	Solid red	Portal is not available or connection refused	Check Internet access
	Flashing green	Connection to the portal in progress	/
	Solid green	Connection to the portal established	/
OK ③	Flashing red	Power problem	Check the power supply
	Solid red	Application software fault	Perform a server reset. If the problem persists, contact Hager technical support
	Flashing green	domovea server starting up	/
	Solid green	domovea server operational	/

The two switch positions (4) are:

On-line:

- The IP network is connected,
- The domovea portal is connected,
- The KNX bus is connected,
- If the server is configured for a DHCP (factory default) connection, the server expects an IP address from a DHCP server. After 40 seconds, if no IP address is assigned, the server automatically enters the fallback IP address (192.168.0.253).
- If the server is configured with a static IP address, it will immediately take into account the IP address it has been assigned. In this case, it will never revert to the fallback IP address.

Off-line:

- The IP network is connected,
- The domovea portal is disconnected,
- The KNX bus is disconnected,
- Regardless of the server configuration (fixed IP or DHCP) for the connection, the server waits for an IP address from a DHCP server. After 40 seconds, if no IP address is assigned, the server automatically enters the fallback IP address (192.168.0.253).

Recommendations:

In general, the switch (4) must always be set to on-line.

Switch to off-line in the following cases:

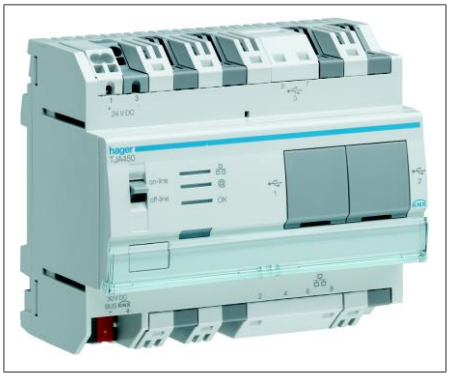
- Need to be able to disconnect from the portal and the KNX network
- Loss of the server IP address in fixed IP configuration: in this case, the off-line mode will allow reading or reconfiguring the server's IP address through the domovea configuration software.

The TJA450 domovea server has three USB ports: two in the fronts behind the rubber caps and one on top.

These three USB connectors are used to perform the update of the server's software version.

3. HARDWARE AND SOFTWARE INSTALLATION

The TJA450 domovea server must be installed in the electrical panel or in the VDI (Voice, Data, Images) panel.



The TJ701A media coupler must be installed close to the server PC

The Server software must be installed on the Server PC with a Microsoft operating systems: Windows XP, Windows Vista, Windows 7, Windows 8, 32 or 64 bits.

The Client software and the Configuration Tools can be installed on a computer terminal equipped with a Microsoft operating system (Windows XP, Windows Vista, Windows 7, Windows 8, 32 or 64 bits).

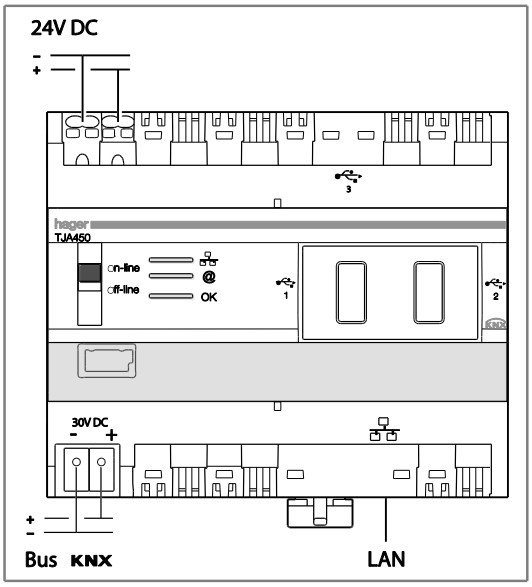
domovea Client

domovea Configuration Tool

3.1 HARDWARE INSTALLATION OF THE TJA450 DOMOVEA SERVER

3.1.1 CONNECTION DIAGRAM

The TJA450 domovea server must be installed in the electrical panel or in the VDI panel.



NOTE: If there is no VDI distribution panel, the server can be installed in the electrical distribution panel. In this case, the ELV (Extra Low Voltage) connections and the SELV (Safety Extra Low Voltage) connections must be secured in an appropriate way.

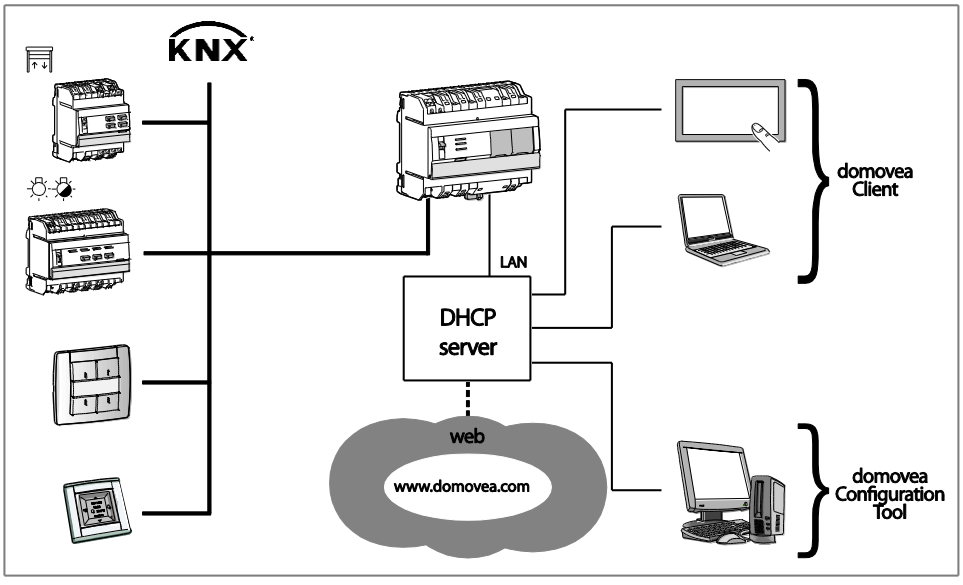
NOTE: The server should not be connected to a PoE (Power over Ethernet) network.

3.1.2 NETWORK INSTALLATION

Installation behind a DHCP server

The TJ450 domovea server is connected to a DHCP server (router or other device with DHCP).

In this case, the server automatically obtains an IP address from the DHCP server.

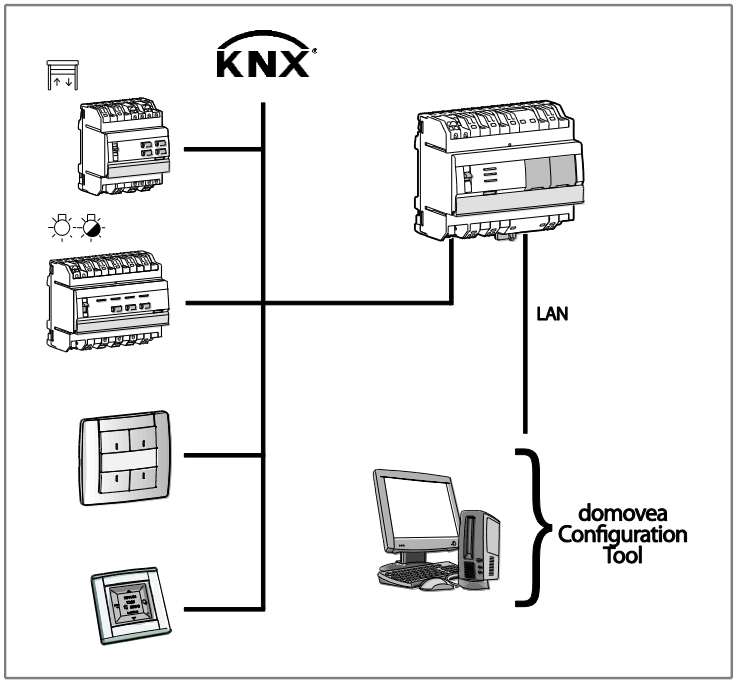


NOTE: Connecting to the domovea.com Web portal requires a VPN connection.

Installing without a DHCP server

It is possible to connect the TJ450 domovea server directly to the installer's PC where the Configuration Tool is installed. In this case, after 40 seconds, the server will adopt the following configuration:

- IP address: 192.168.0.253,
- Subnet Mask: 255.255.255.0.



3.1.3 UPDATE OF DOMOVEA SOFTWARE VERSION

The update file is available from the Hager Customer Support Centre or by download from the portal at: www.domovea.com.

To update the domovea server software version:

- Copy the folder named "autorun" containing the update file with the extension .cab to the root folder of a USB device.
- Insert the USB into a USB port on the TJA450 domovea server.
  The "OK" LED flashes for about a minute then turns off.
  The server then restarts with the new software version.

NOTE: If you also copy the folder named "softwares" to the root folder of this USB device and you leave the USB device connected to the server after the update, domovea customers (apart from iOS and Android) and the domovea web configurator will automatically be updated upon completion.

3.2 INSTALLING THE DOMOVEA SOFTWARE PACKAGE (TJ701A)

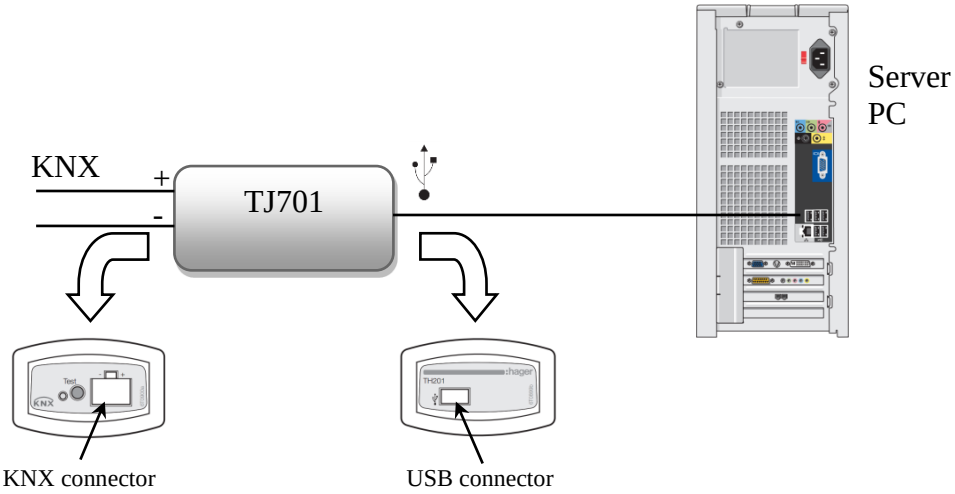
3.2.1 COMPOSITION

The TJ701A domovea software package TJ701A consists of:

- A KNX/USB media coupler
- A USB cable
- A USB key containing the software for the domovea installation

3.2.2 CONNECTION DIAGRAM

The TJ701A media coupler must be installed close to the server PC



3.3 INSTALLING THE SOFTWARE

3.3.1 32 OR 64 BIT WINDOWS?

The installation of the Client software and the Configuration Tools can be carried out on a computer terminal equipped with a Microsoft operating system (Windows XP, Windows Vista, Windows 7: 32 or 64 bits).

To determine the 32 or 64 bit Windows version:

- Access the System Properties window by holding down the Windows + Pause keys. The operating system is displayed on the General tab:
    - For a 64-bit operating system, the x64 reference appears after the name of the operating system,
    - For a 32-bit operating system, no reference appears after the name of the operating system.

3.3.2 INSTALLING THE SERVER SOFTWARE (TJ701A ONLY)

The Server software (with TJ701A only) can be installed on a PC with a Microsoft operating system: Windows XP SP3, Windows Vista, Windows 7, Windows 8, 32 or 64 bits.

The installation file is available at the Hager customer support center or can be downloaded on www.domovea.com.

To install the software version of the domovea server:

- Open the "softwares" folder
- Choose the 32 (x86) or 64 (x64) bit Windows version.
- Double click on the software to be installed

NOTE: domovea requires Microsoft.NET Framework 4.0 and 4.5 to function. Failing this, install the software.

NOTE: The installation of domovea requires administrator rights on the PC server where it is installed.

3.3.3 INSTALLING THE CLIENT SOFTWARE AND CONFIGURATION TOOL

The Client software and Configuration Tool can be installed on computer terminals which have a Microsoft operating system: Windows XP SP3, Windows Vista, Windows 7, Windows 8, 32 or 64 bits.

The installation file is available at the Hager customer support center or can be downloaded on www.domovea.com.

To install domovea software:

- Open the "softwares" folder
- Select Windows version 32 (x86) or 64 (x64) bits.
- Double click on the software to be installed

NOTE: domovea requires Microsoft.NET Framework 4.0 and 4.5 to run. If necessary, install the software.

NOTE: Installing domovea requires administrator rights for the PC server on which it is installed.

NOTE: During an update, the older version of the application will be auto un-installed. It is also possible to auto update the software from the domovea server (see chapter 3.1.3).

3.3.4 INSTALLATION OF SOFTWARE ON IOS AND ANDROID OS DEVICES

On devices using iOS and Android, the installation and update of domovea software can be done directly from the App Store and from Google Play Store.

3.3.5 INSTALLATION OF SOFTWARE ON ANDROID TOUCH SCREENS

On Android touch screens with reference WDI070 and WDI100, domovea updates must be completed manually.

The installation file is available at the Hager customer support center or can be downloaded on www.domovea.com.

- Copy the *.apk file onto a USB device
- Insert the USB device into the touch screen's mini USB port via a mini USB accessory/the USB provided with the product
- After launching, go to the final page and click on the "settings" menu
- Use the administrator password: 8273
- Click on the "Start app" button
- Select the "OI File manager'' application
- Click on the file previously copied into the "Home\mnt\usb_host'' folder
- The touch screen will show a pop up: "The application that you are installing will replace another application. All previous user data will be saved''
- Click "OK" and then "Install"
- The update will begin.

NOTE: It is possible that in certain cases, the application will have to be uninstalled beforehand.

4. CONFIGURATION TOOL DESCRIPTION

4.1 CONNECTING A TERMINAL TO THE DOMOVEA SERVER

4.1.1 CONNECTION BEHIND A DHCP SERVER

To connect the configuration tool to the domovea server:

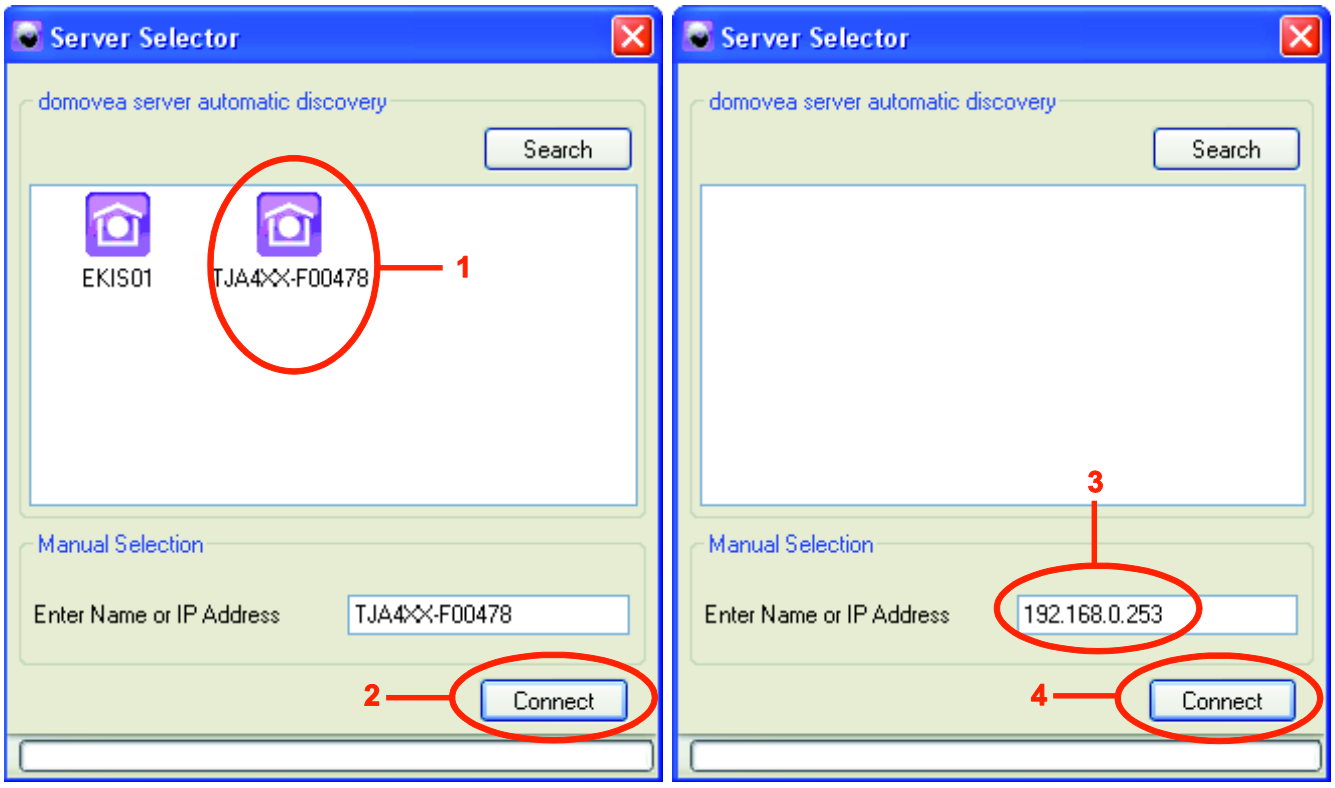
- Start the configuration tool.
  It finds all servers connected to the existing Ethernet network.
  If a DHCP server is present, it will be automatically recognized (1).

NOTE: If applicable, disable the wireless terminal which is installed the configuration tool.

- Select the domovea server (1),
- Click **Connect** (2),

If the domovea: server is not automatically detected:

- Provide the server's IP address (192.168.0.253) (3),
- Click **Connect** (4).

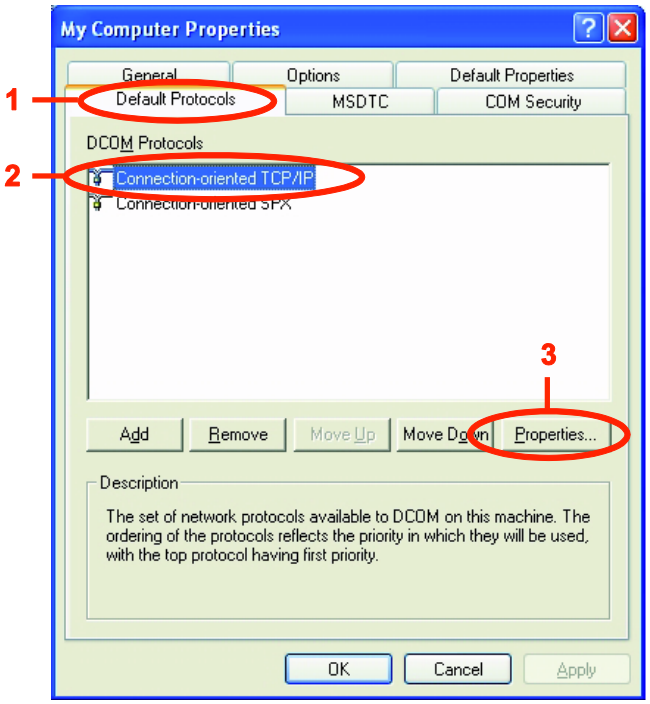


The initialization icon appears. The configuration tool is ready for use.

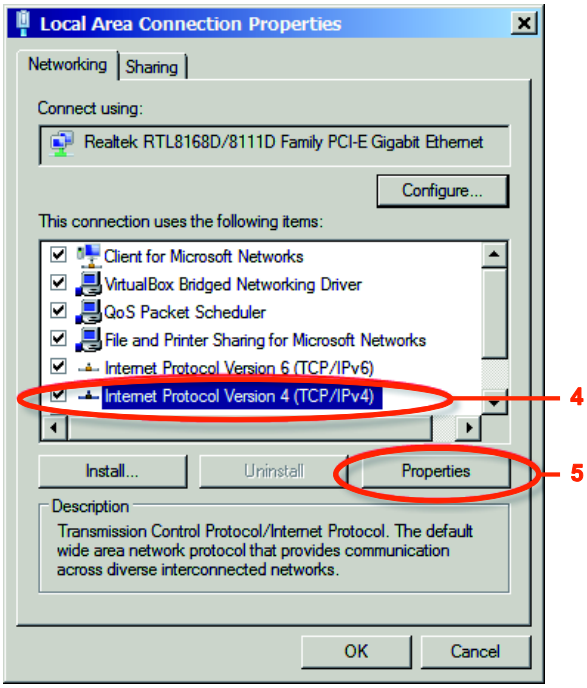
4.1.2 CONNECTING WITHOUT A DHCP SERVER

Before you connect to the domovea server, change the terminal's IP address:

- Right-click on **My Computer** and then click **Properties** to access the Windows desktop properties,
- Click on the **Default Protocols** tab (1),
- Select **Connection-oriented TCP/IP** (2) then click on **Properties...** (3),



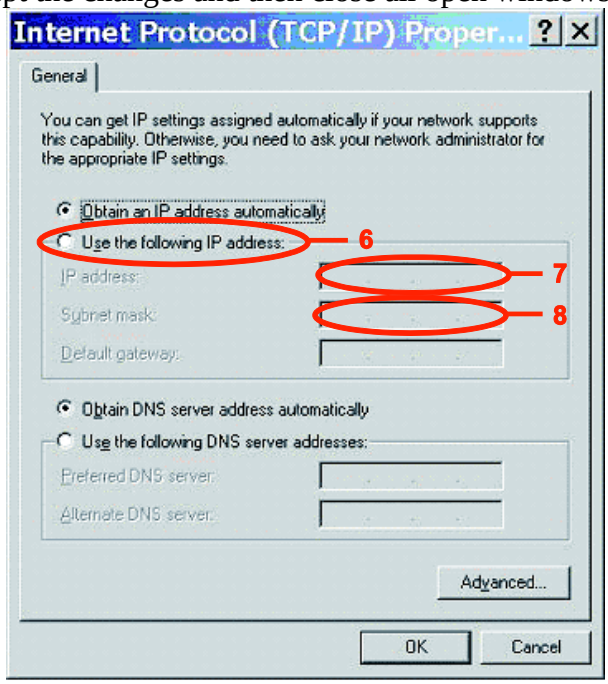
- Select **Internet Protocol Version 4 (TCP/IPv4)** (4),
- Click **Properties** (5),



- Check the **Use the following IP address** box: (6),
- Provide the following items:
  - **IP address** (7): 192.168.0.xxx (with xxx included between 2 and 252),
  - **Subnet mask** (8): 255.255.255.0.

NOTE: If a firewall is active on the local network, the client traffic to the domovea server must be authorized. The domovea server uses the TCP port 4504 and UDP port 3702. The firewall must be properly configured to authorize incoming traffic through these ports.

- Click **OK** to accept the changes and then close all open windows.



To connect the configuration tool to the domovea server:

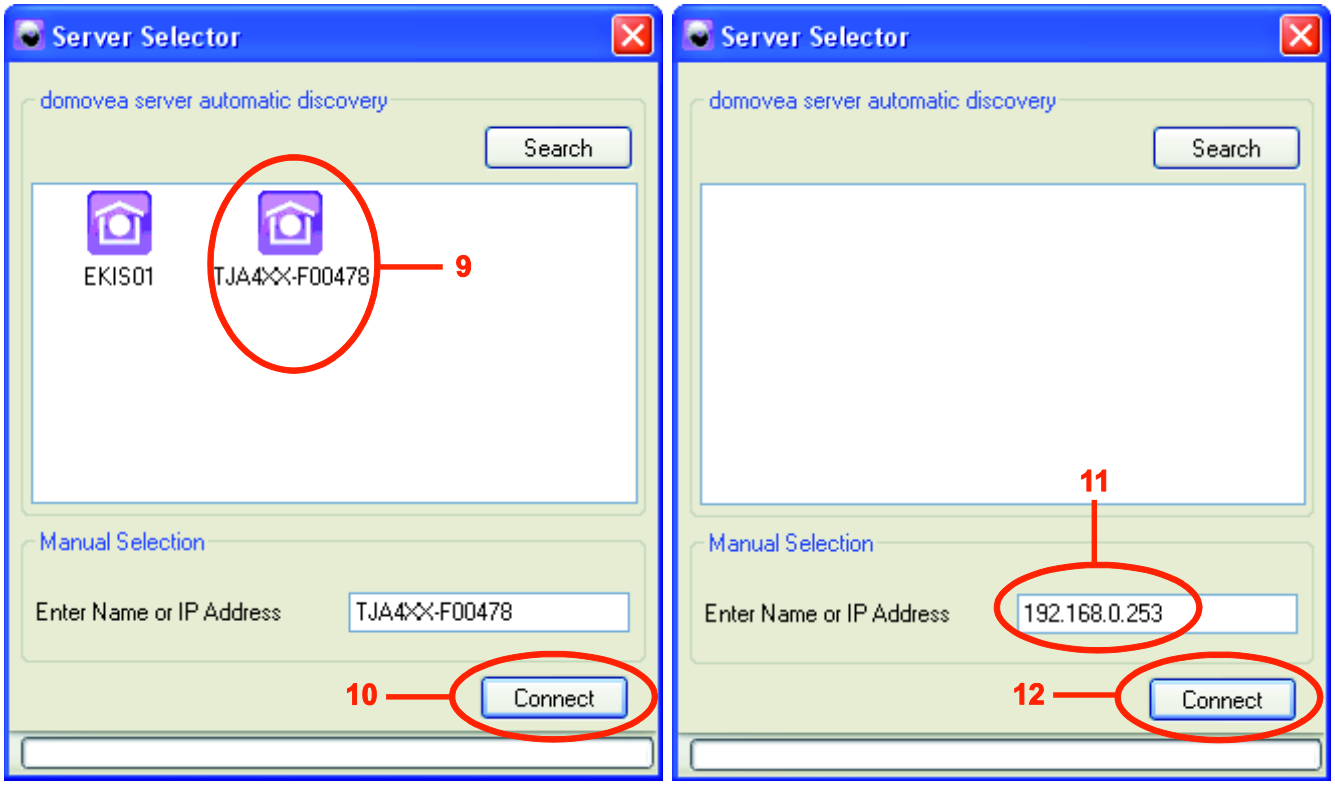
- Start the configuration tool.
  It finds all servers connected to the existing Ethernet network.
  The domovea server is automatically recognized (9).

NOTE: If applicable, disable the wireless terminal which is installed the configuration tool.

- Select the domovea server (9),
- Click **Connect** (10).

If the domovea: server is not automatically detected:

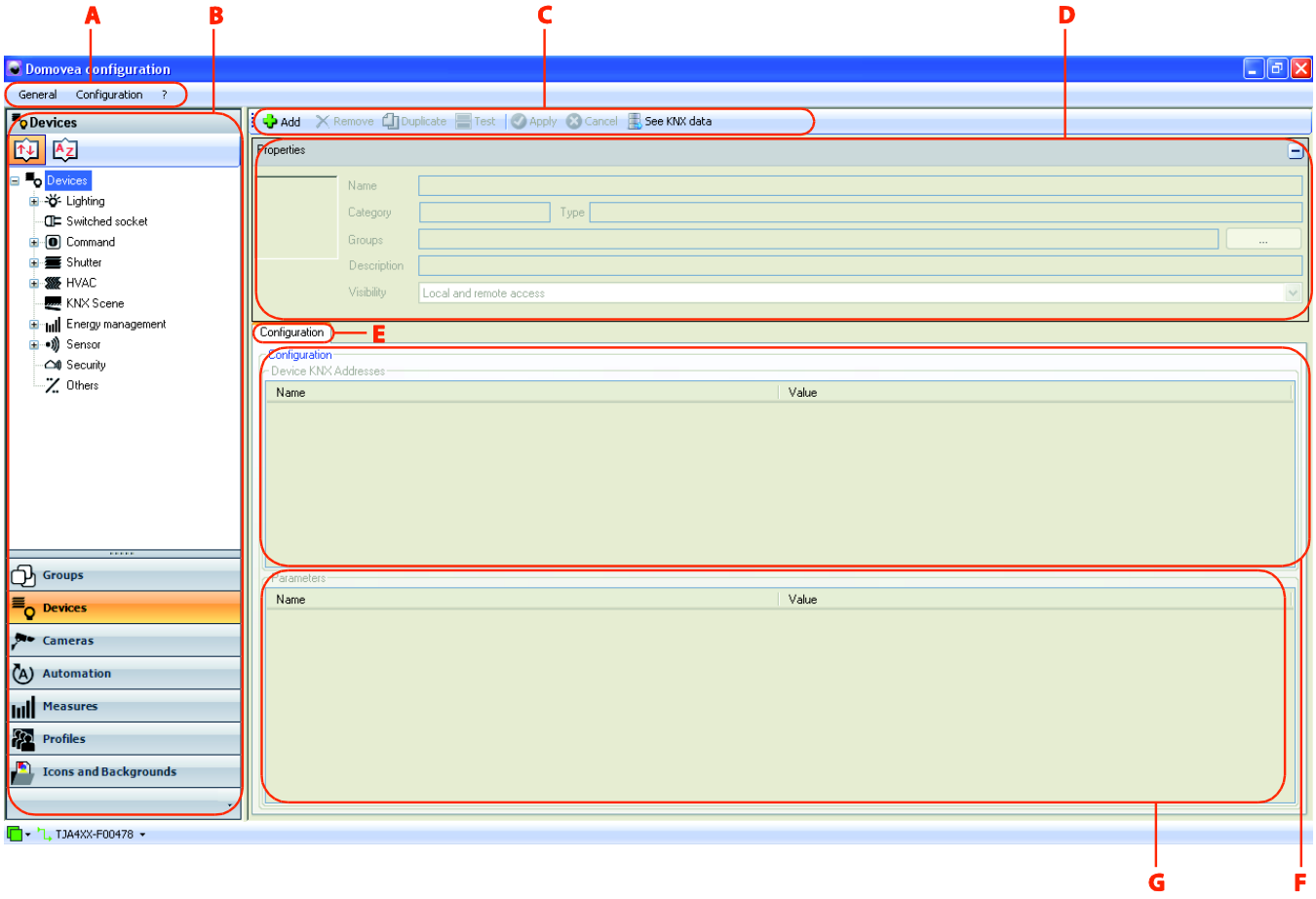
- Provide the server's IP address (192.168.0.253) (11),
- Click **Connect** (12).



- The initialization icon appears. The configuration tool is ready for use.

4.2 NAVIGATION INTERFACE

The navigation interface of the domovea configuration tool displayed below:



A: Main menu bar

B: Link list

C: Menu bar

D: Properties window

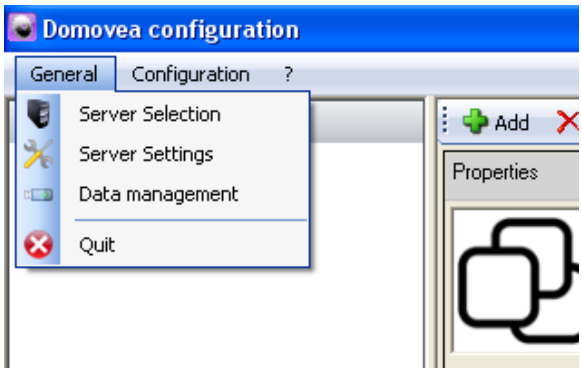
E: List of tabs

F: Objects window

G: Configuration window

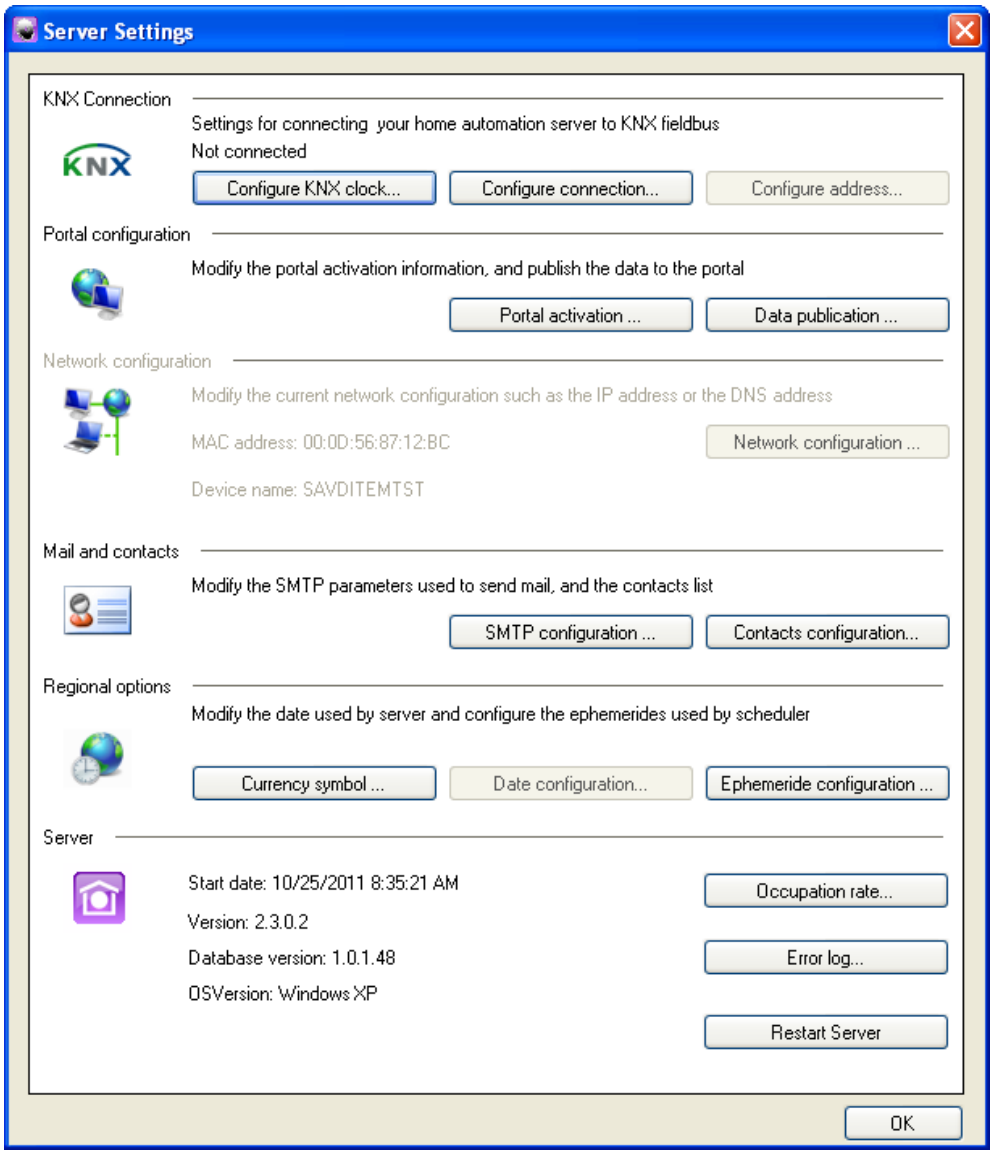
4.3 MAIN MENU

Select the **General** menu in the main menu bar.



Server Selection: Allows you to select a server. The selection is performed automatically at the configuration tool launch, but it is possible to select another one from this window.

Server Settings: Allows you to configure the server settings.



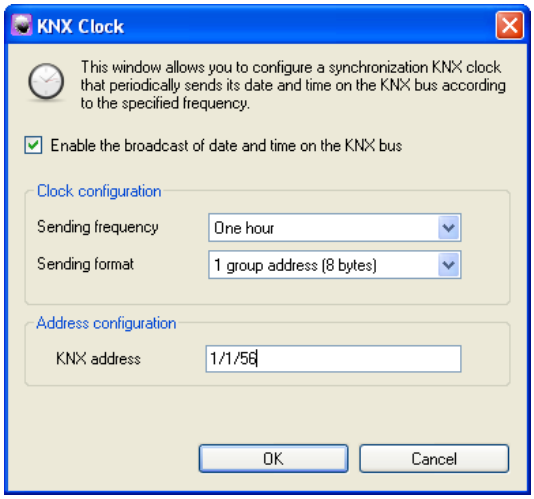
KNX Connexion: Allows you to configure the KNX connection.

Configure the KNX clock…: Allows you to configure a synchronization KNX clock from which the date and time will be sent at regular, configurable intervals.

Sending frequency: Used to define the sending frequency to the KNX bus
Possible value: 15min, 30min, 1h, 6h, 12h or every day

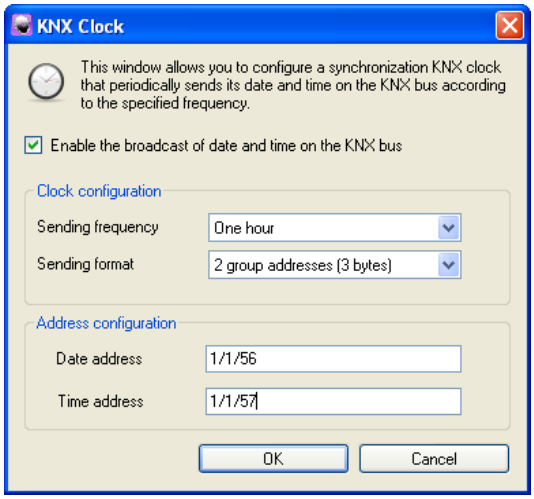
Sending format: Used to define the sending format on the KNX bus

1 group address



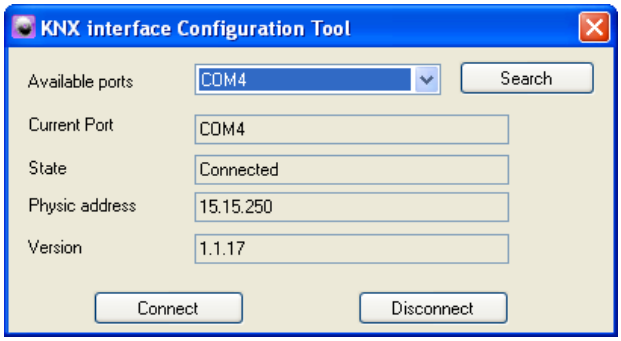
1 KNX address for the date and time (8 octets)

2 group addresses



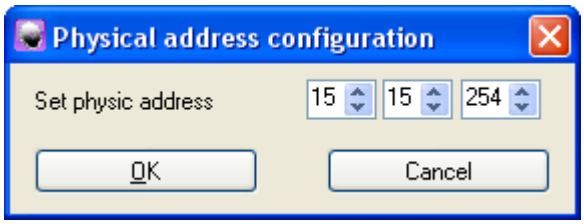
2 KNX addresses
One for the date (3 octets)
and one for the time (3 octets)

Configure connection… : Enables the serial port used by the KNX/USB media coupler to be selected



Available ports: Enables the available ports to be selected.
Port used: Enables the name of the selected port to be entered.
State: Enables the device connection status to be entered.
Physical address: Displays the physical address of the device on the KNX bus.
Version: Displays the software version of the connected device.

Configure address...: Allows you to set the physical address of the KNX interface (default value: 15.15.254).



Portal configuration: Allows you to set the domovea portal configuration (for more details, see "configuring remote access to the portal").

Mail and contacts: Allows you to set the e-mail and address book.

Mail configuration (SMTP): Allows you to set the email address used for transmitting email.

Mail From: Allows you to provide the email address used for sending emails.

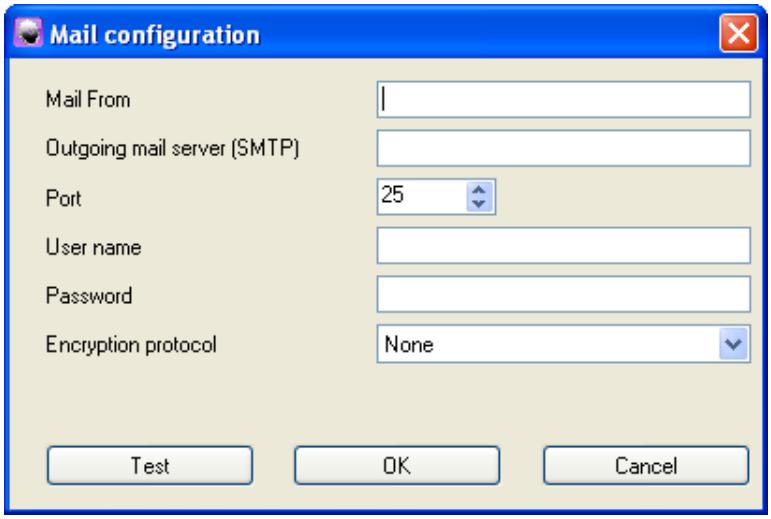
Outgoing mail server (SMTP): Allows you to provide the address of the SMTP server used for sending emails.

Port: Allows you to select the port used for sending e-mails (default: 25).

User name: Allows you to provide the username used for authentication when sending emails.

Password: Allows you to provide the password used for authentication when sending emails.

Encryption protocol: Used to choose to use an encryption protocol or not to secure transactions made via Internet.

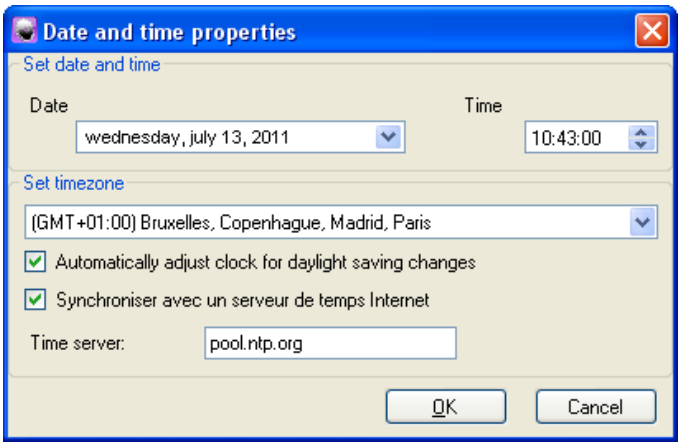


Contacts configuration: Allows you to manage the recipient list.

Regional options:

<u>Date and time properties</u>: Allows you to set the date (if no time server is available on the network). It also allows you to set the server geolocation to automatically calculate the sunrise and sunset time that will be displayed in the domovea client dashboard or to be used in the sequences.

Time server: Allows you to provide the appropriate address of the Internet time server.



NOTA : It is possible to change the time display mode (12/24 or AM / PM) from the profiles (see §.6.6)

Server: Displays the server resources and the error log. Restarting the server can also be performed from this interface.

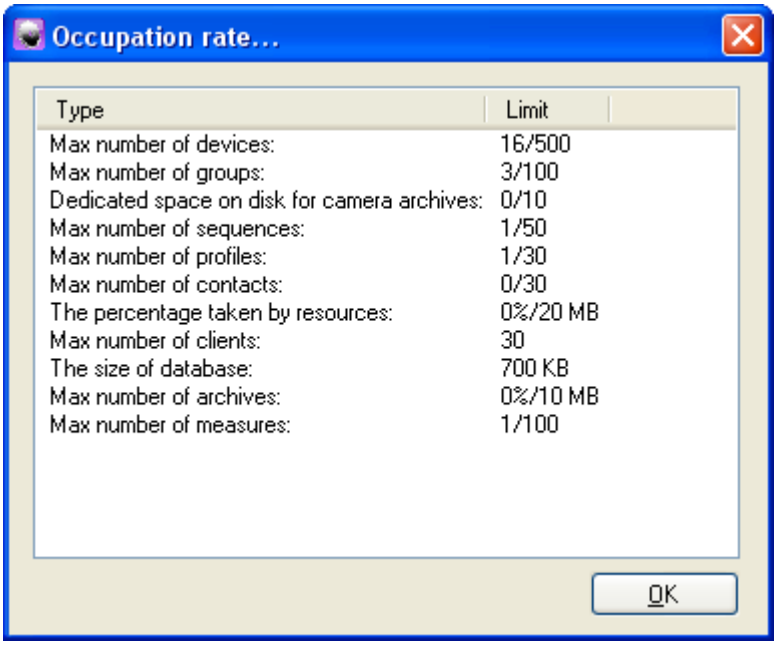
Occupation rate:

Number of devices, groups, cameras, sequences, profiles and contacts: indicates the number of resources used and the maximum number.

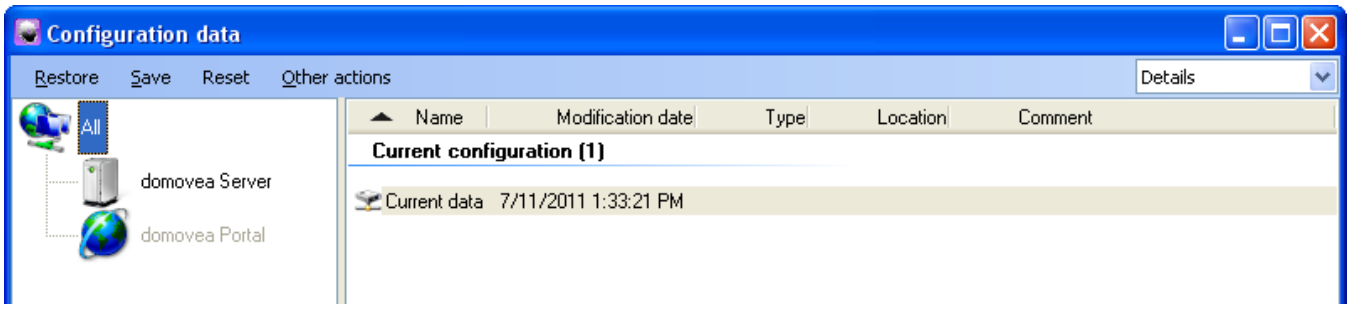
Occupation rate of icons and backgrounds: shows the percentage of space used and the maximum space available for storing backgrounds and icons.

Size of configuration data: shows the space used for storing configuration data.

Occupation rate of archives: shows the percentage of space used and the maximum space available for storing archives.



Data management: Allows you to manage the configuration of domovea projects. The configuration archive files have the.ddb format and their storage location is defined by the user during the backup operation.



Restore: Allows you to restore a previously saved configuration from the domovea server, from user-defined disk reader, or from the domovea portal.

Save: Allows you to save the current configuration on the domovea server, on a user-defined disk reader, or on the domovea portal.

NOTE: After each modification to the configuration, it is recommended to create a backup copy on the domovea server, as well as locally or on the domovea Web portal.

NOTE: The configuration backup on the domovea Web portal does not include the cameras' Measurements and Archives items.

Reset: Allows you to start a new project configuration from a blank project. Saved data is not deleted.

Other actions: Delete: Deletes the selected archives.

Define as a reference archive: Allows you to set the selected archives as reference archives on the server or on the portal.

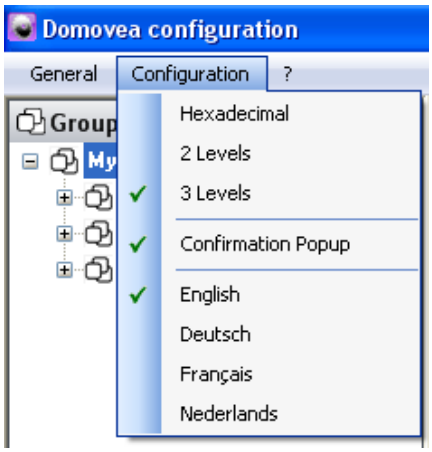
Display archive information: Displays the selected archive data.

Change data: Allows you to add a comment to the selected archive data.

NOTE: Five projects can be saved on the server. One of these archives can be declared as an reference archive. In this case, the reference archive will not be deleted during a server reboot.

4.4 CONFIGURATION MENU

Select the **Configuration** menu in the main menu bar.



Hexadecimal - 2 Levels - 3 Levels: Allows choosing the format of the KNX group addresses.

Confirmation Popup: Allows enabling/disabling the display of the confirmation popups that appear before committing changes.

Languages: Used to configure the domovea software language.

5. CONFIGURATION PROJECT EXAMPLE

5.1 DEFINING THE PROJECT STRUCTURE

To facilitate understanding, this chapter will use a specific example that represents the majority of cases.

Hosting example with different applications:

- Lounge (lighting ON / OFF, shutters up / down, thermostat setting).
- Kitchen (lighting ON / OFF, shutters up / down, Smoke detector, Ventilation ON / OFF).
- Outdoor (lighting ON / OFF, Gate operator / closing, Weather station).

Content of these three zones:

LOUNGE:	KITCHEN:	OUTDOOR:
Lounge general lighting	Kitchen general lighting	Outdoor lighting
Mood lighting	Kitchen worktop lighting	Gate operator
Reading light	Smoke detector	Weather Station
Lounge window blind	Kitchen window blind	
Terrace shutter lounge	Kitchen terrace shutter	
Heating thermostat	Ventilation	

5.2 CREATING GROUPS

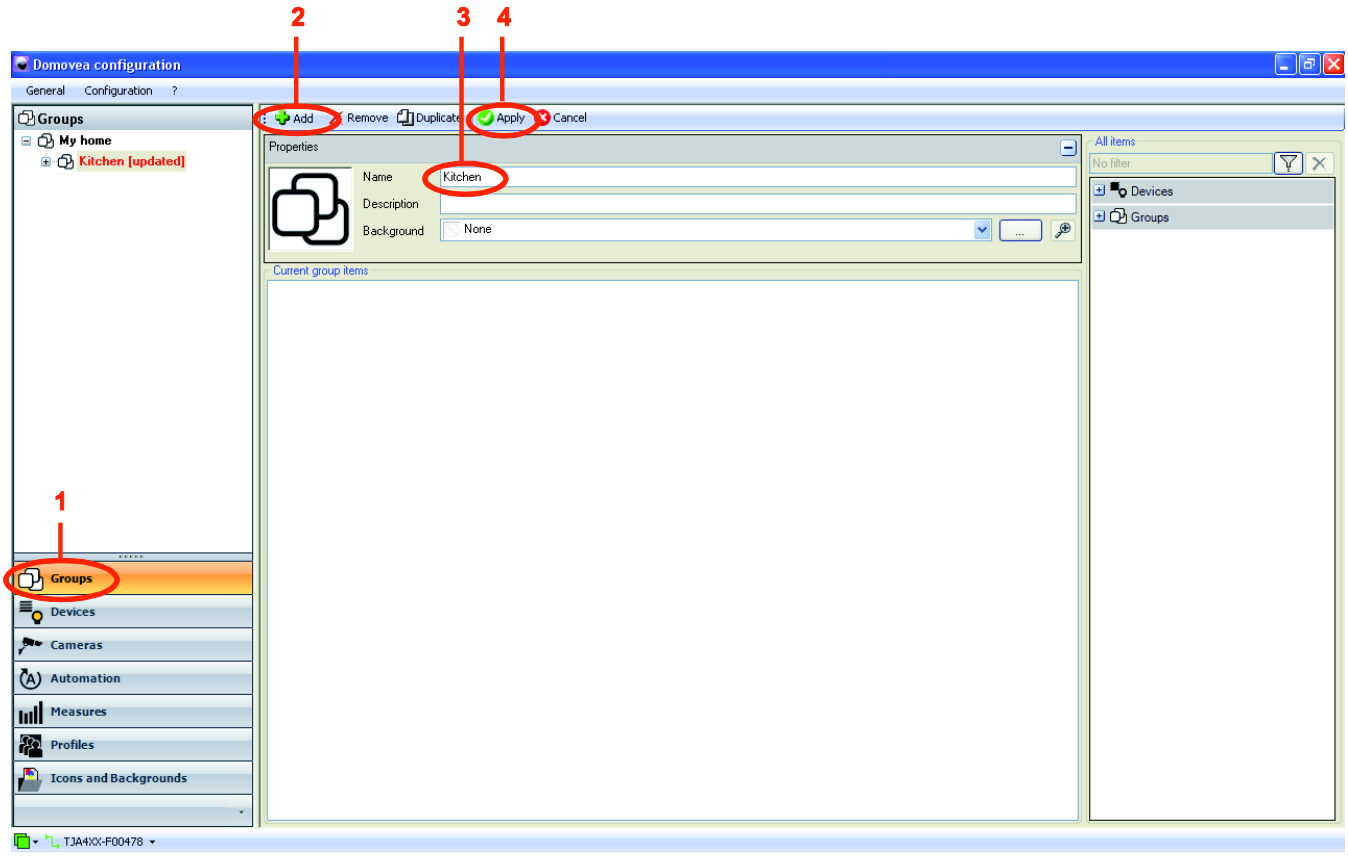
A group is a part of the installation consisting of a room, one floor of the building, one zone or one part of a set of rooms, floors or areas (for example: kitchen, lounge, outdoor).

The groups are the structure of the project (maximum 100 groups per installation)

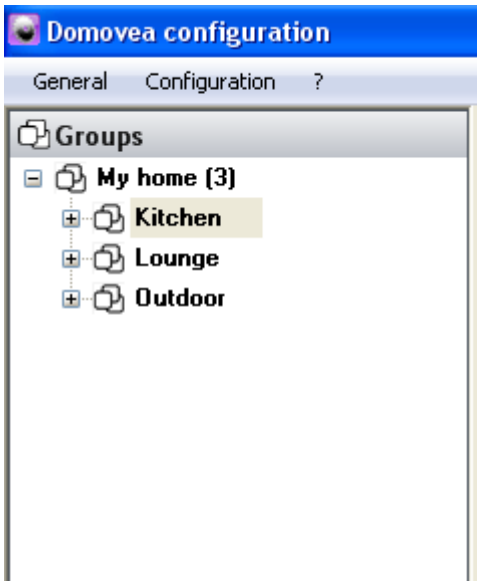
To create the **Kitchen** group:

- Select **Groups** (1) in the link list,
- Click on **Add** (2) in the menu bar and click **New Group,**
- Provide **Kitchen** in the **Name** field (3) of the Properties window,
- Click **Apply** (4) in the menu bar to complete the change.

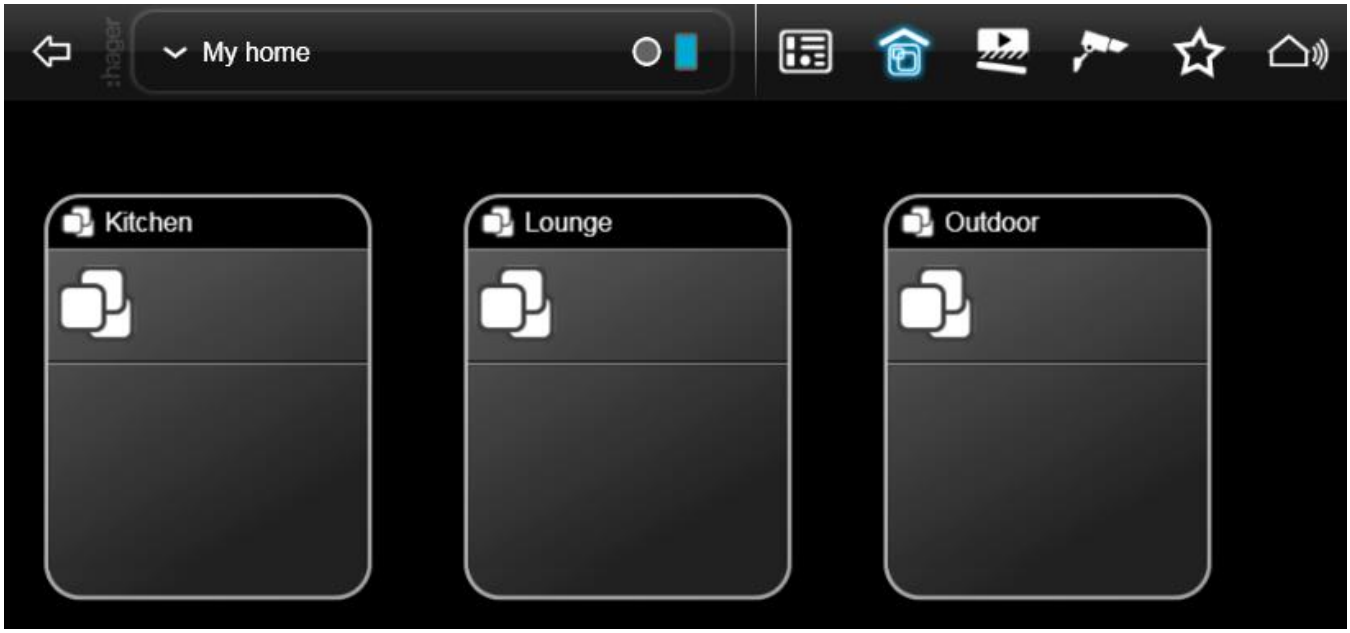
NOTE: For more details about other fields in the Properties window, see §.6.1.



Create the **Outdoor** and **Lounge** groups following the same procedure. The project structure is shown below:



Select the **Groups** icon  on the domovea client. The following page appears:



5.3 CREATING DEVICES

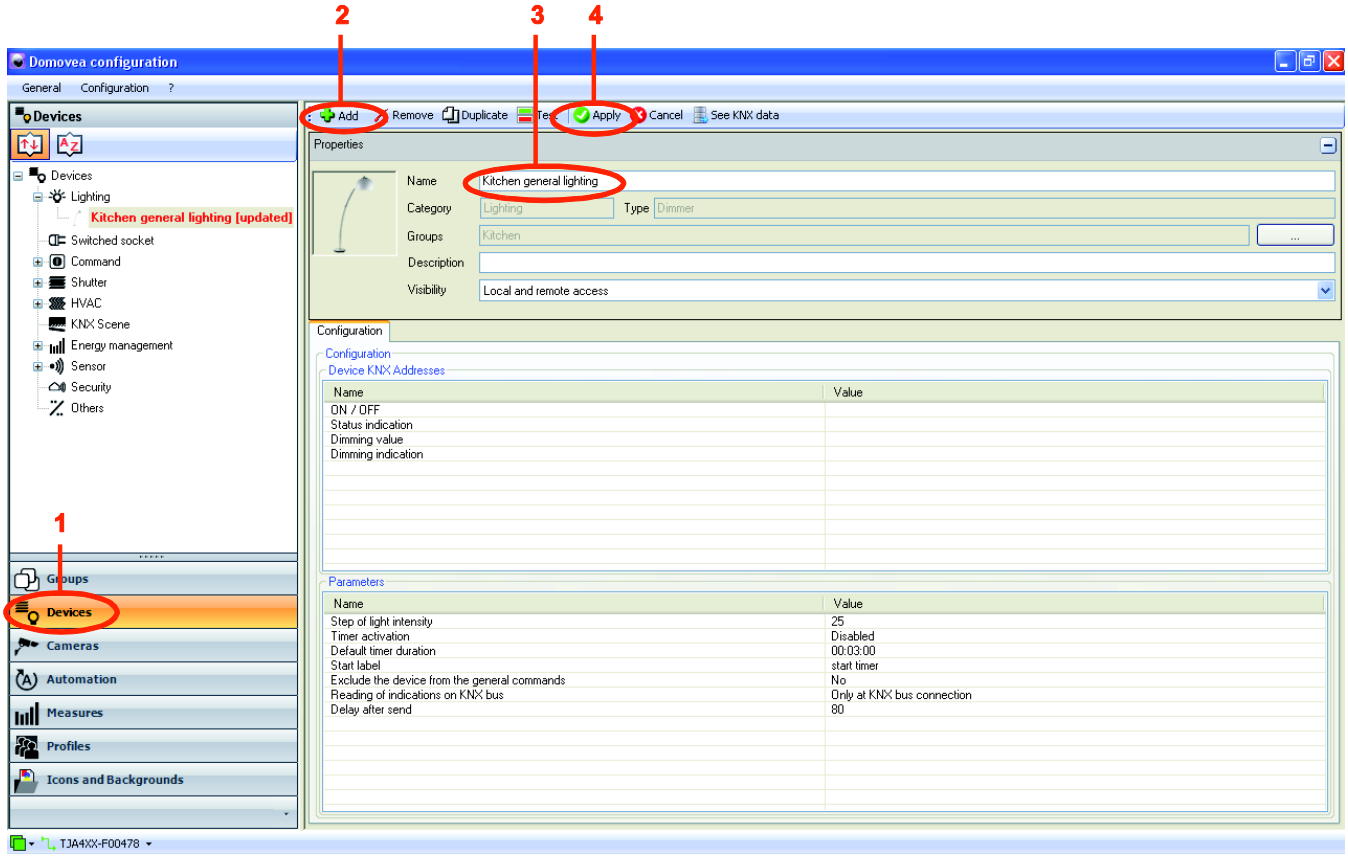
A device is an equipment unit connected to an element of a KNX installation which can be controlled or viewed via the domovea client such as lighting, blinds, heating, etc. (500 devices maximum per installation).

NOTE: domovea cannot access the data taken from installation products. Please verify that KNX products that you wish to add to domovea offer object formats which are compatible with domovea device objects.

To create the **Kitchen general lighting:**

- Select **Devices** (1) in the link list,
- Click on **Add** (2) in the menu bar and select the **Lighting** category and click on the **Dimmer** device,
- Enter **Kitchen general lighting** in the **Name** field (3) of the Properties window,
- Click **Apply** (4) in the menu bar to complete the change.

NOTE: For more details on the properties, objects and configuration windows, see §.6.2.

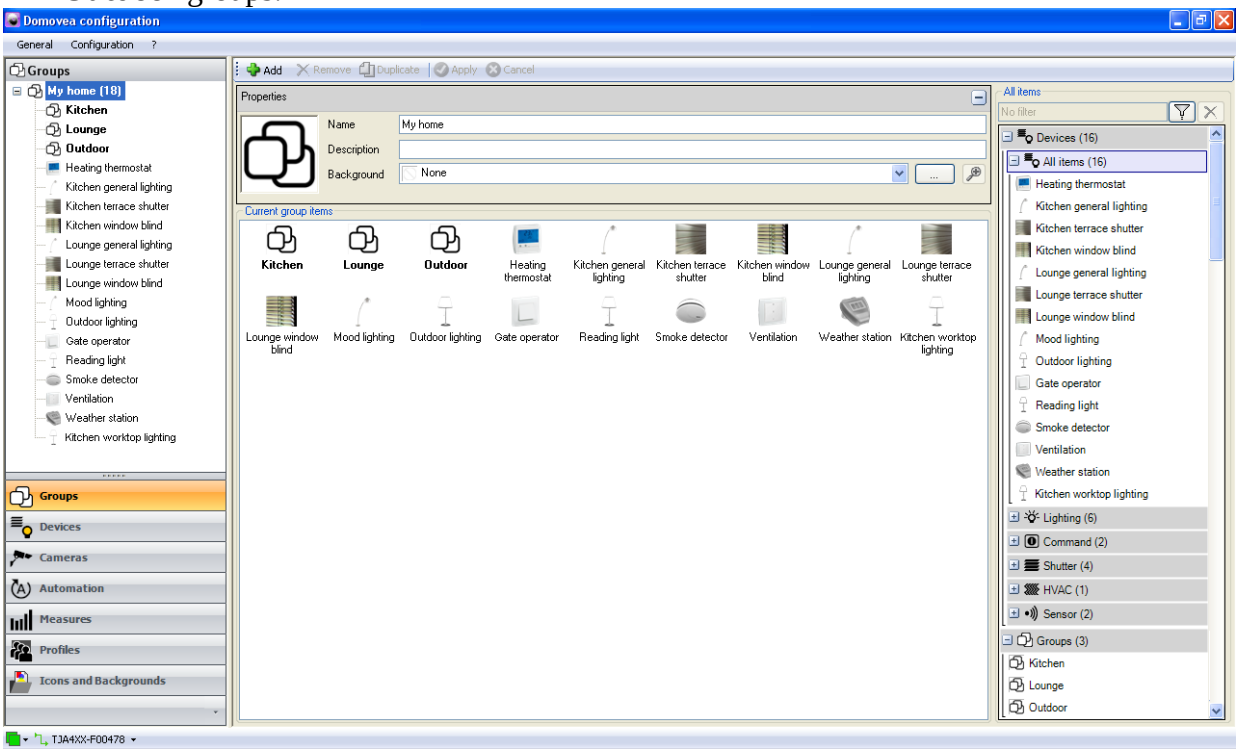


Create all devices previously defined (see §5.1) following the same procedure by associating the name of the device (3) to the type of device. The table below lists the names and types of devices to associate.

Device name (3)	Category / type of device
Mood lighting	Lighting / Dimmer
General kitchen lighting	Lighting / Dimmer
Lounge general lighting	Lighting / Dimmer
Kitchen worktop lighting	Lighting / Light
Reading lighting	Lighting / Light
Outdoor lighting	Lighting / Light
Lounge window blind	Shutter / Extended Shutter / Blind
Kitchen window blind	Shutter / Extended Shutter / Blind
Lounge terrace shutter	Shutter / Extended Shutter
Kitchen terrace shutter	Shutter / Extended Shutter
Heating thermostat	HVAC / Thermostat
Smoke detector	Sensor / Binary input
Ventilation	Command / ON / OFF
Gate operator	Command / Pulse
Weather Station	Sensor / Weather Station

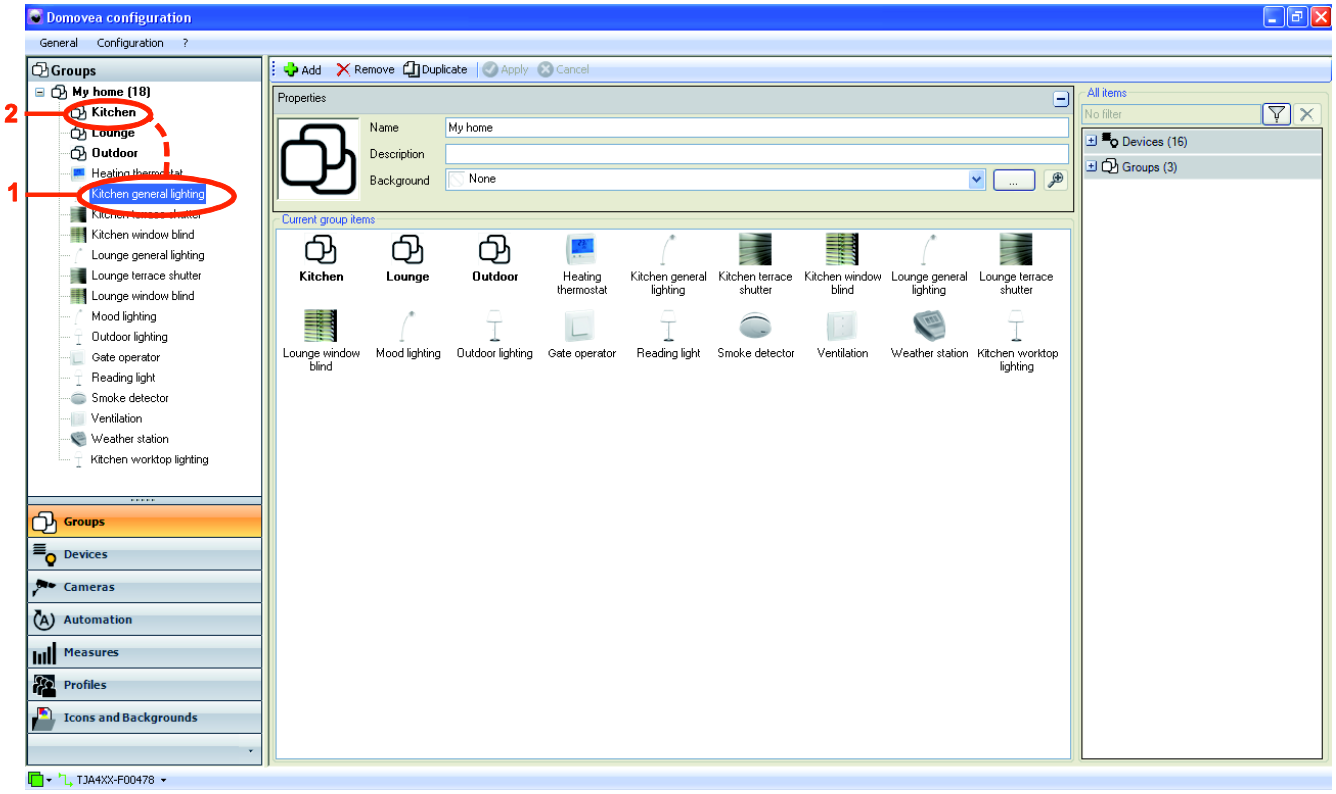
5.4 ASSIGNING A DEVICE TO A GROUP

All devices appear in the **Groups** link in the same tree level as the **Kitchen**, **Lounge** and **Outdoor** groups.

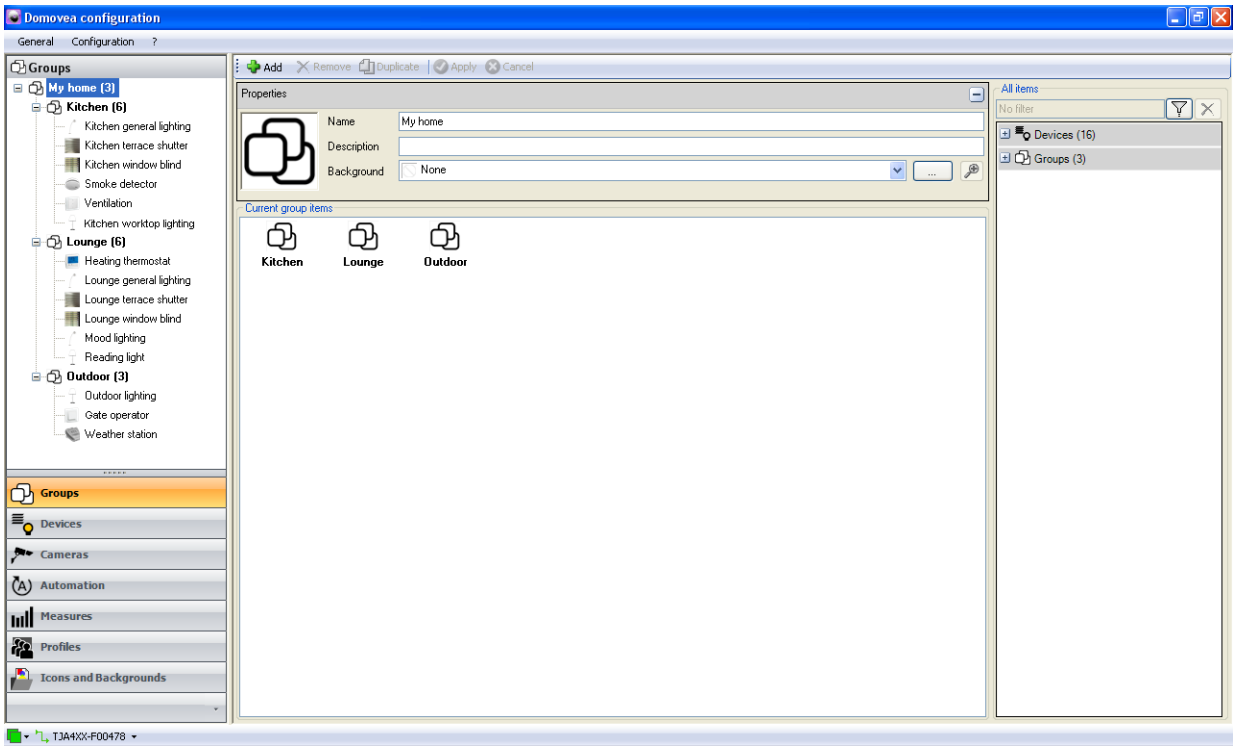


To assign a device to its group:

- Drag/drop the device (**Kitchen general lighting** in this case) (1) into the group (**Kitchen** in this case) (2).



- Assign all devices in their respective groups following the same procedure and according to the structure defined previously (see §5.1).
  The project structure is shown below:



Select the **Dashboard** icon on the domovea client. The following page appears:

- Select the **Groups** icon on the domovea client. The following page appears:

5.5 CREATING KNX LINKS

Export the Project created in TX100 or ETS then import this project in the configuration tool to set the KNX links.

5.5.1 ETS PROJECT

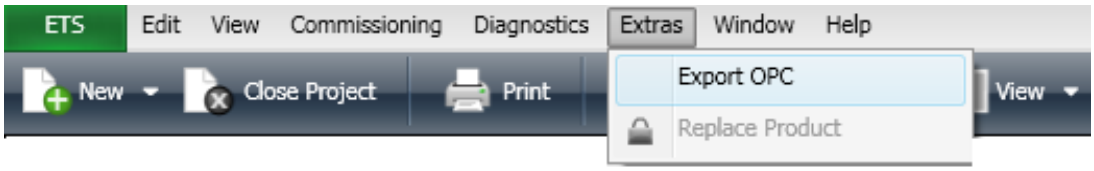
Exporting an ETS project

Export OPC (esf file):

From ETS, it is possible to export an OPC file containing all the group's addresses information.

To export an esf file:

- Click on **Extras** and then click **Export OPC** in the menu bar and select the path to save the file.

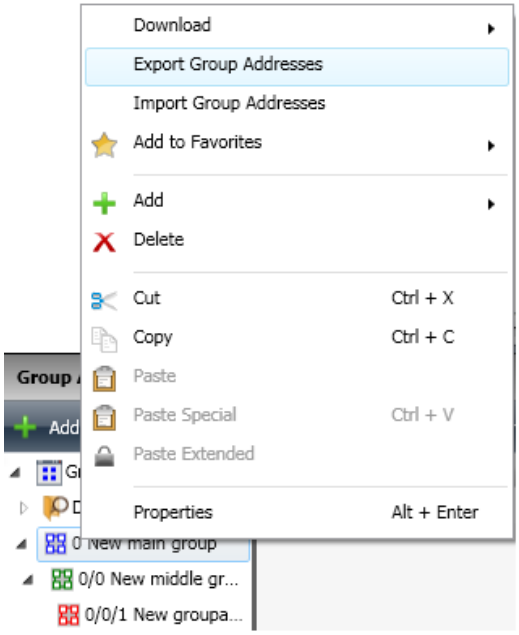


Export xml (xml file):

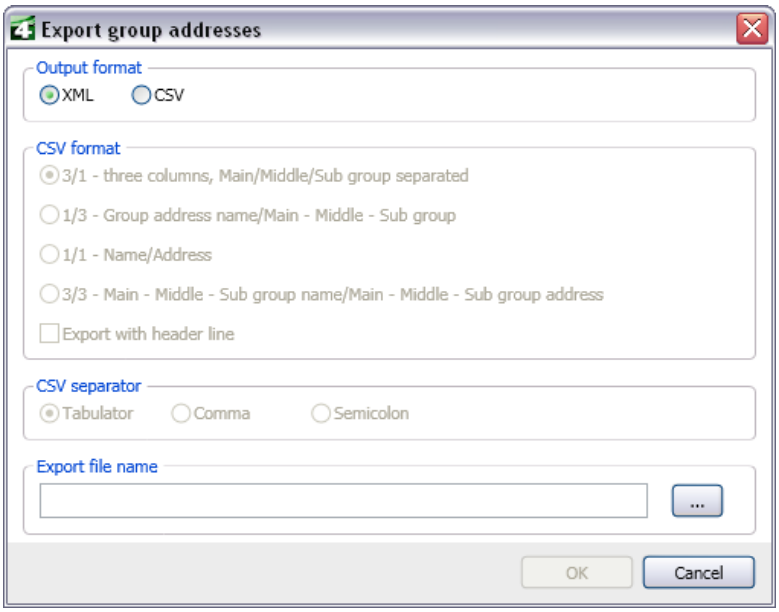
It is also possible to export the list of group addresses in xml format.

To export an xml file:

- Right-click on the list of group addresses and then click **Export Group Addresses.**



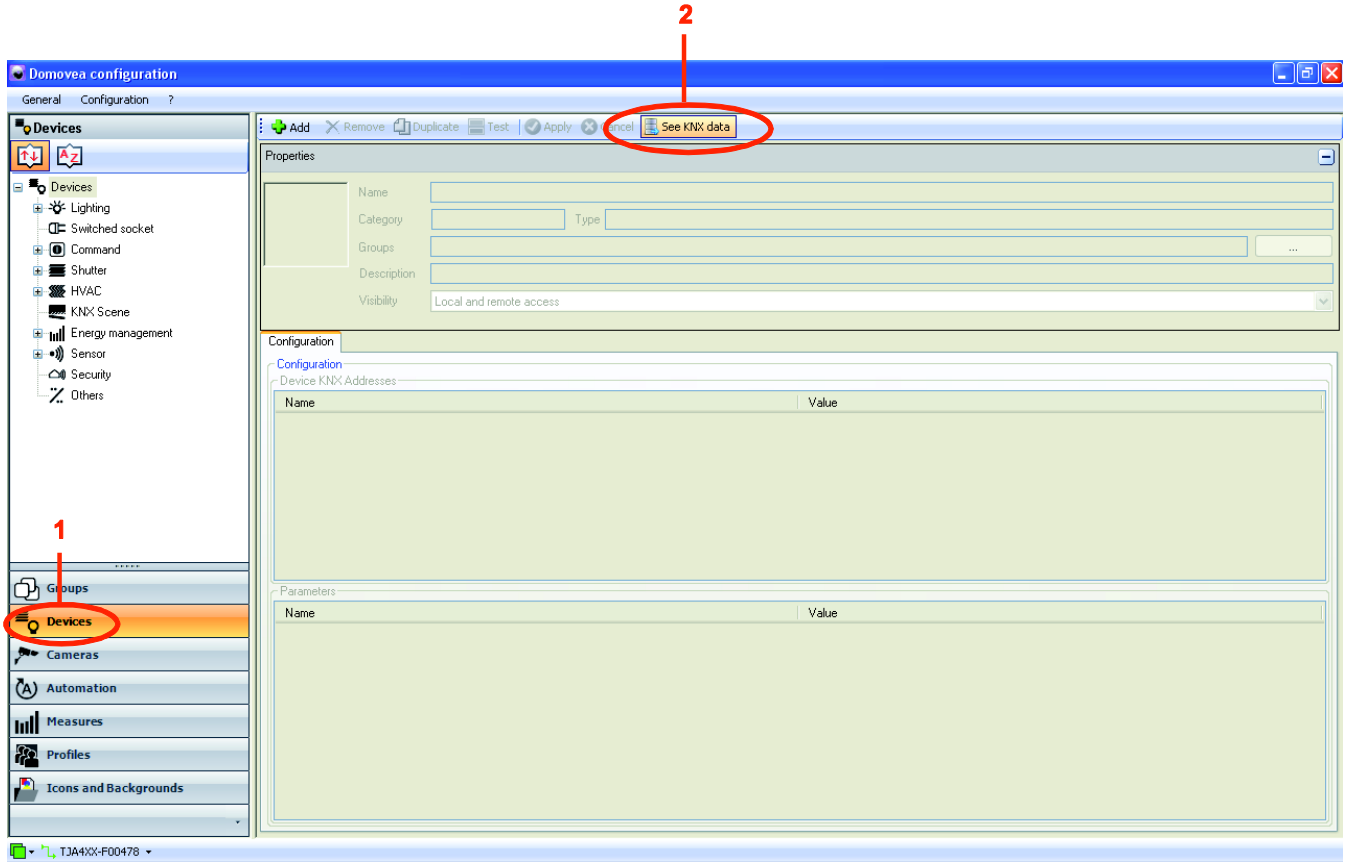
- Select **XML** format and then provide the backup file's path.



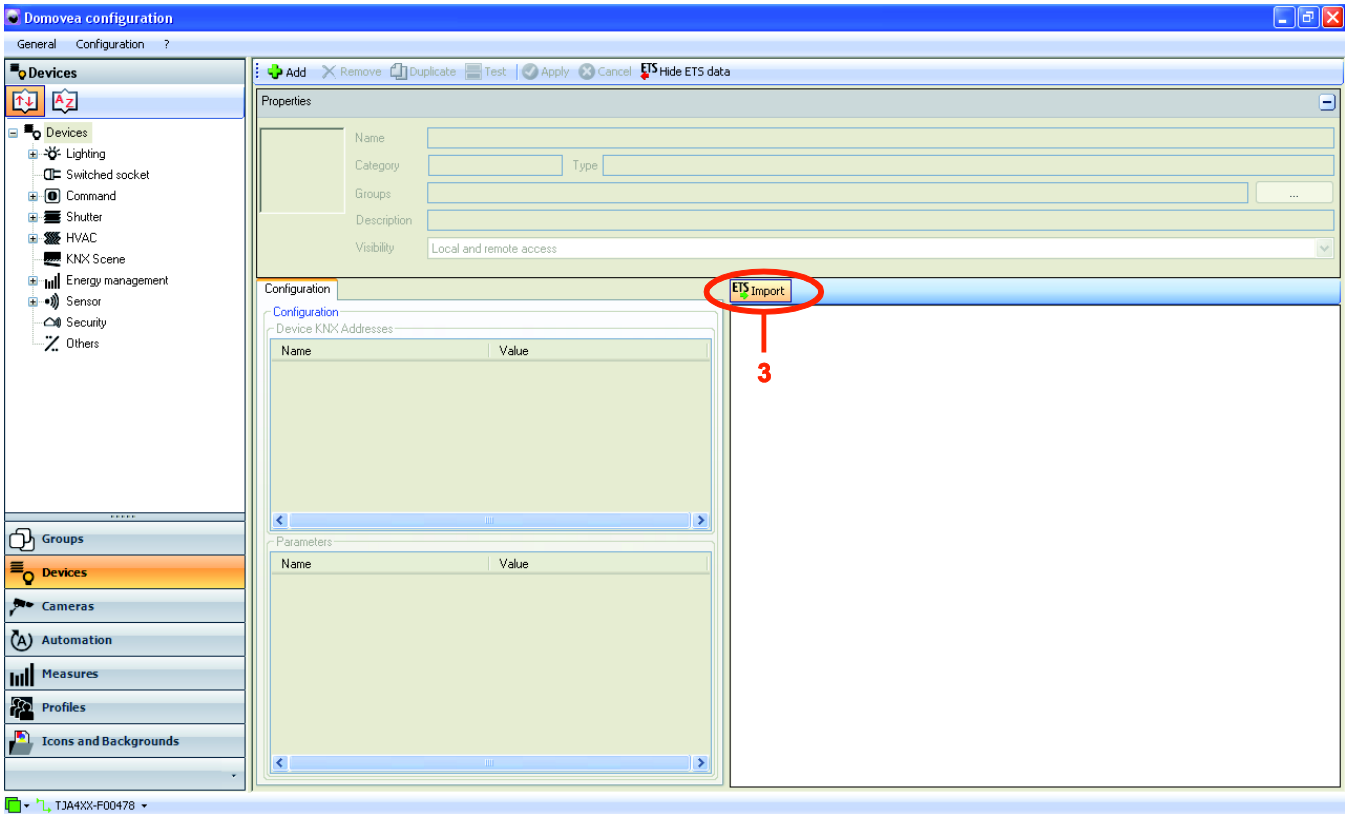
Importing an ETS project

To import an ETS project:

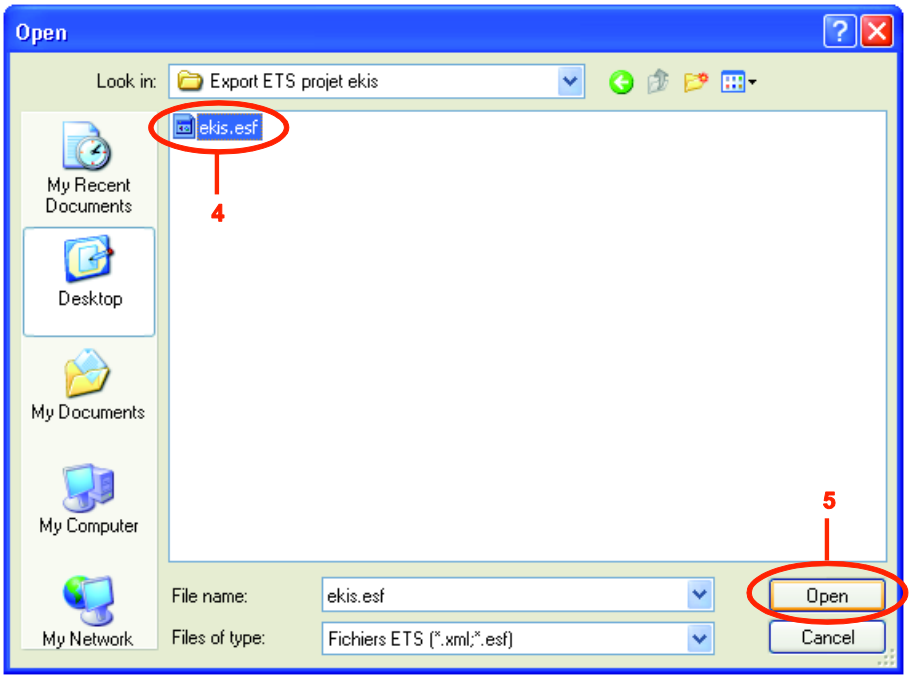
- Select **Devices** (1) in the link list,
- Click on **See KNX data** (2) in the menu bar and select **Configured by ETS.**



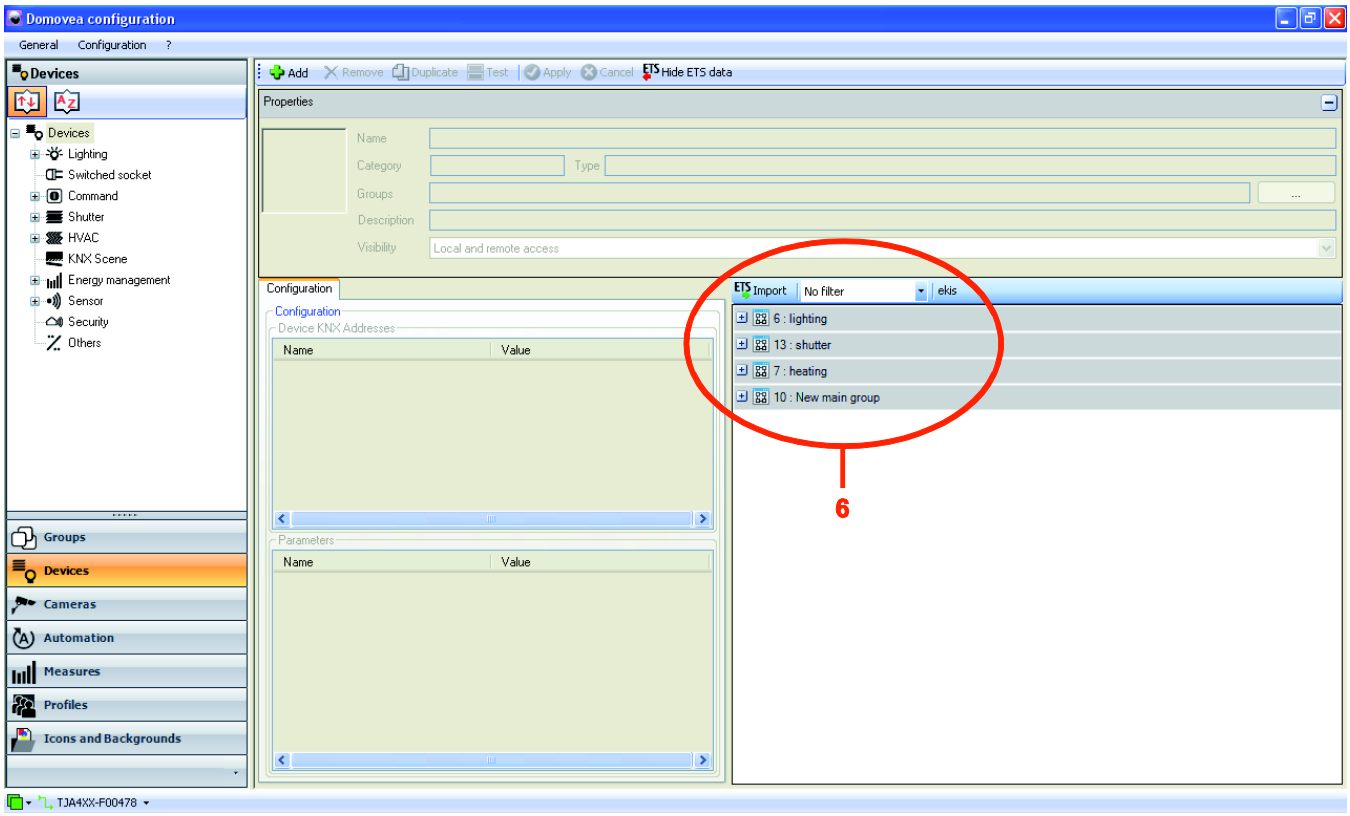
- Click **ETS Import** (3).



- Select the current project's ETS export file in .esf format (4),
- Click **Open** (5).



The project created in ETS is displayed in the ETS Import window (6):



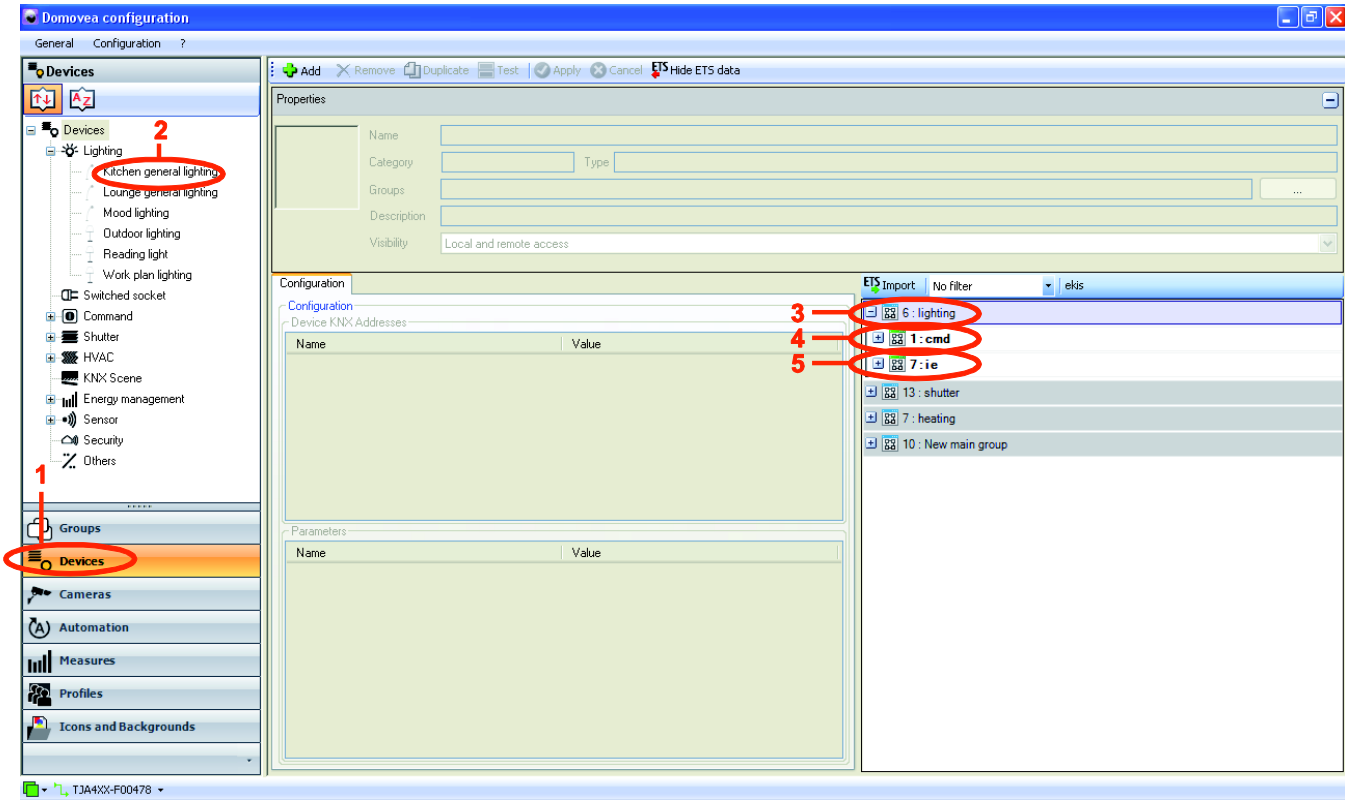
Associating a KNX group address to a device output

Associate the KNX group addresses created with ETS to a command or a device status indication in the domovea configuration.

To associate the KNX group addresses with the **Lighting** device outputs:

- Select **Devices** (1) in the link list,
- Create the **Lighting** set and then select the **Kitchen general lighting** device (2),
- Create the **Lighting** sets (3), **cmd** (4), and **ie** (5) in the KNX data import window.

NOTE: the **cmd** abbreviation stands for command**,** and **ie** stands for status indication.

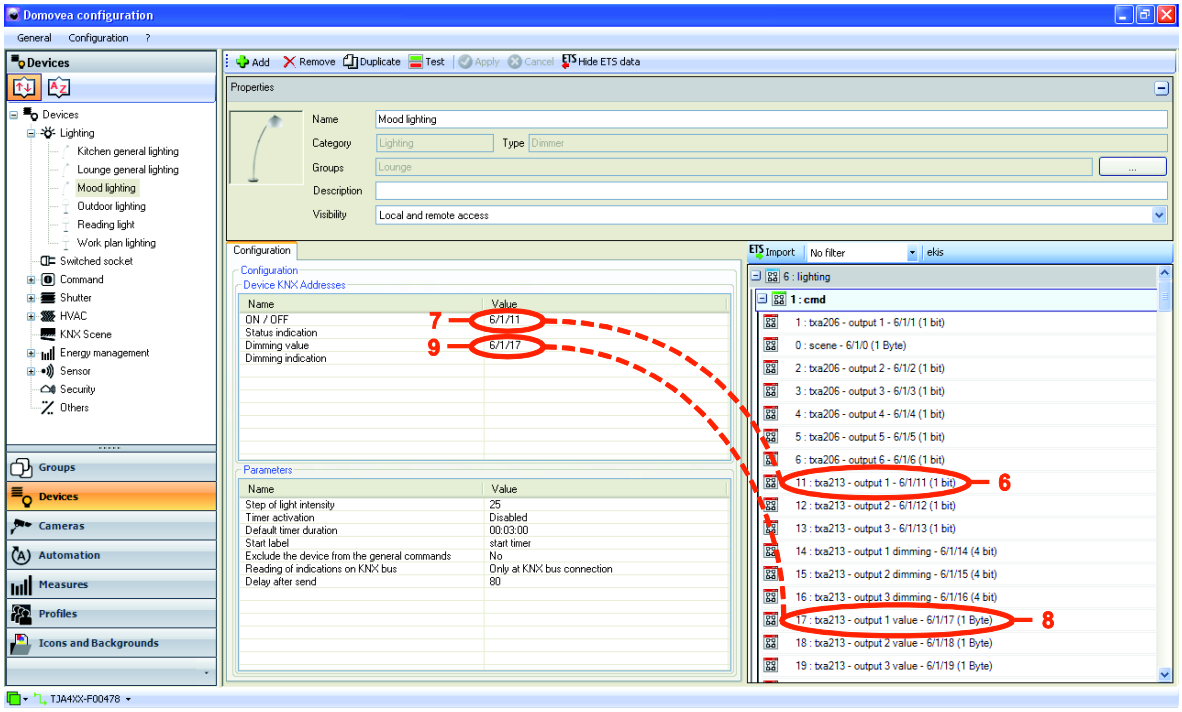


- Select **TXA213 - output 1** (6) in the **cmd** set (4) and then drag and drop it from this output into the **ON / OFF** command **value** field (7)**.**

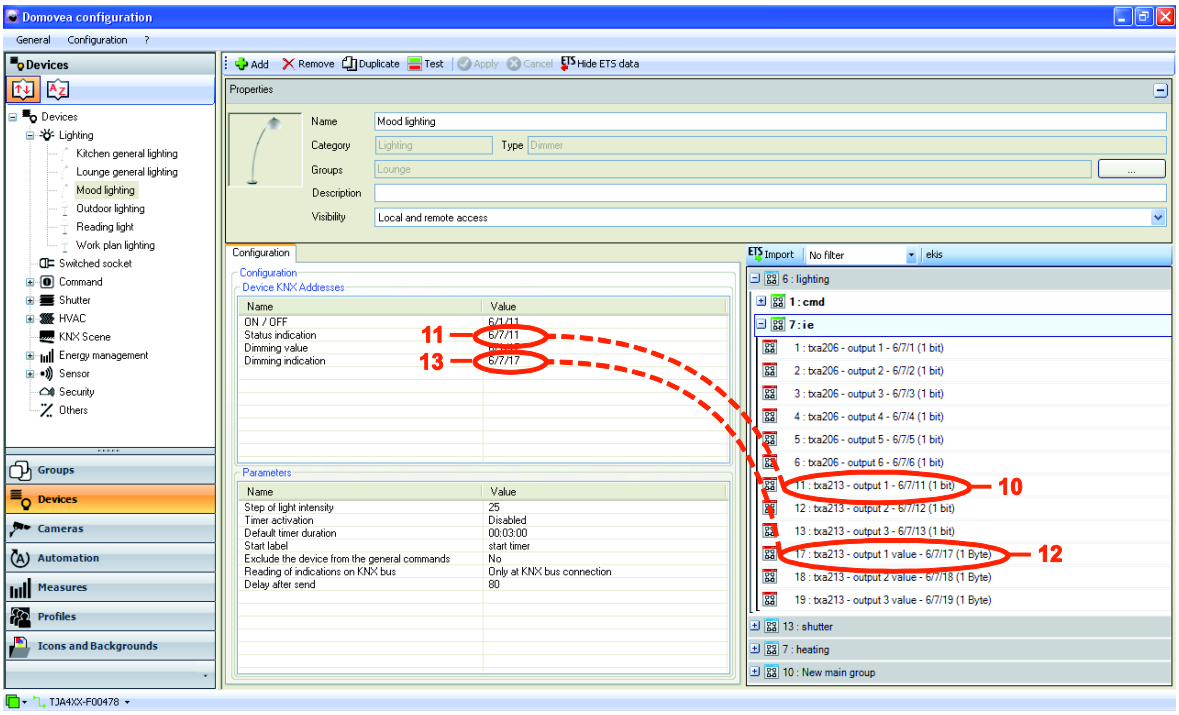
NOTE: The TXA213 indicates the domovea installation dimmer module.

- Select **TXA213 - output 1 value** (8) and then drag and drop it from this output into the **Dimming** command **value** field (9).

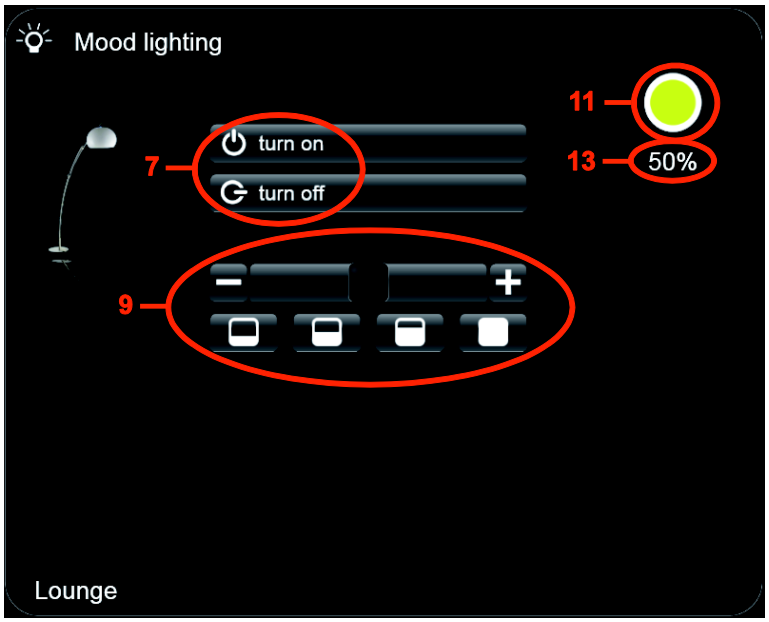
NOTE: You can also provide directly the KNX group address, visible in the ETS export in the objects window value field. For example, for the **ON / OFF** command, you can provide directly the address **6/1/11** in the associated **value** field. Likewise, for the **dimming** command **value**, you can provide directly the address **6/1/11** in the associated **value** field.



- Select **TXA213 - output 1** (10) in the **ie** set (5) and then drag and drop it from this output into the **status indication value** field (11)**.**
- Select **TXA213 - output 1 value** (12) and then drag and drop it from this output into the **Dimming indication value** field (13).



- Select the Groups icon  , the **Lounge** group, and then **Mood lighting** device on the **domovea** client. Objects previously defined in the configuration utility are displayed on the client:
    - The turn on / turn off command (7) with its Dimming status indication (11),
    - The Dimming value command (9) with the Dimming indication value (13).

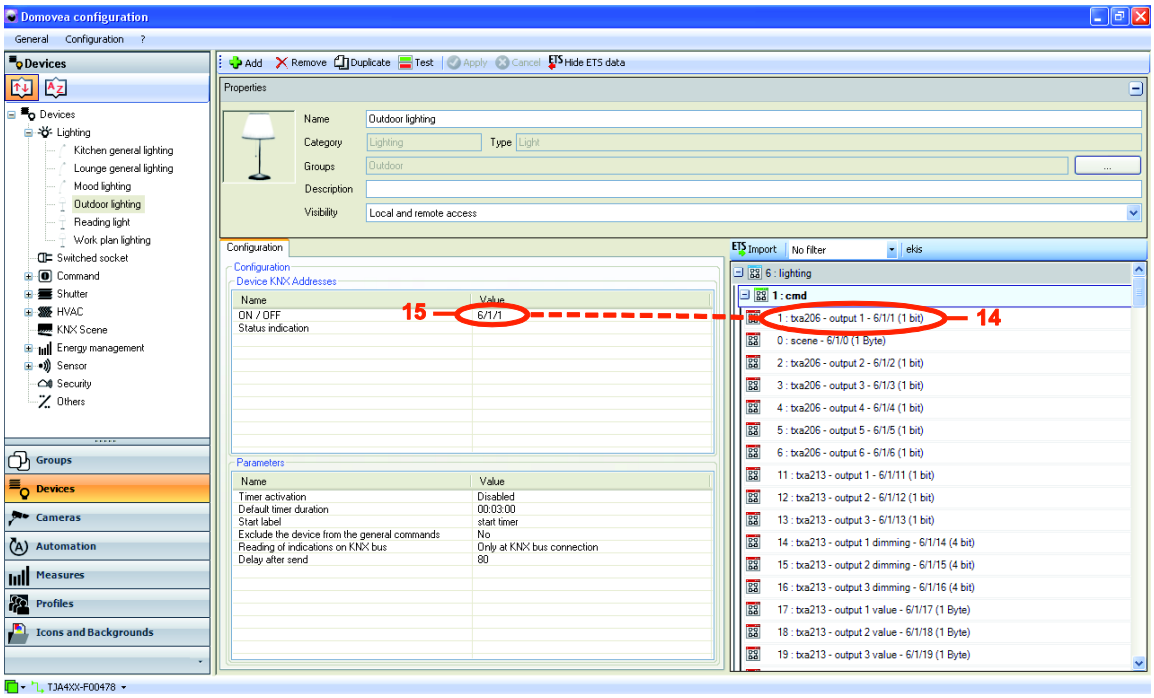


- Provide the KNX group addresses of the **Kitchen general lighting** and **Lounge general lighting** devices following the same procedure and using the outputs 2 and 3 of the TXA213.

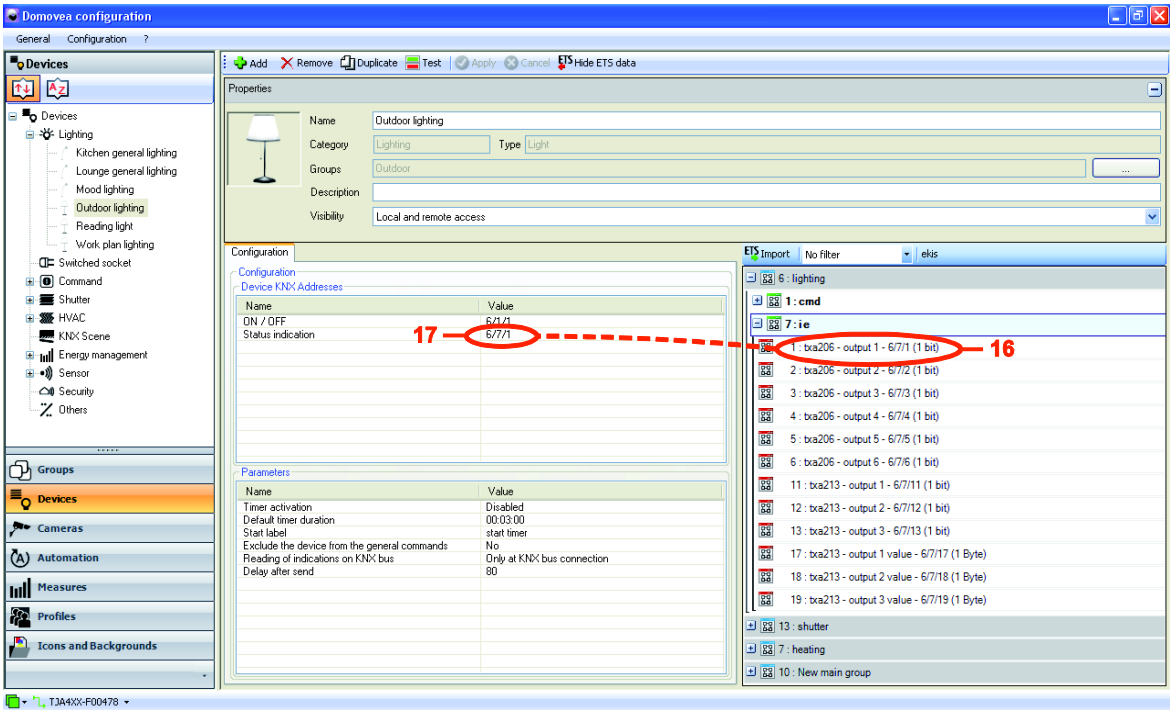
To associate the KNX group addresses to the **Outdoor lighting** device outputs:

- Select **Devices** in the link list,
- Create the **Lighting** set and then select the **Outdoor lighting** device,
- Select **TXA206 - output 1** (14) in the **Lighting** set, then **cmd** and drag and drop it from this output into the **ON / OFF** command **value** field (15)**.**

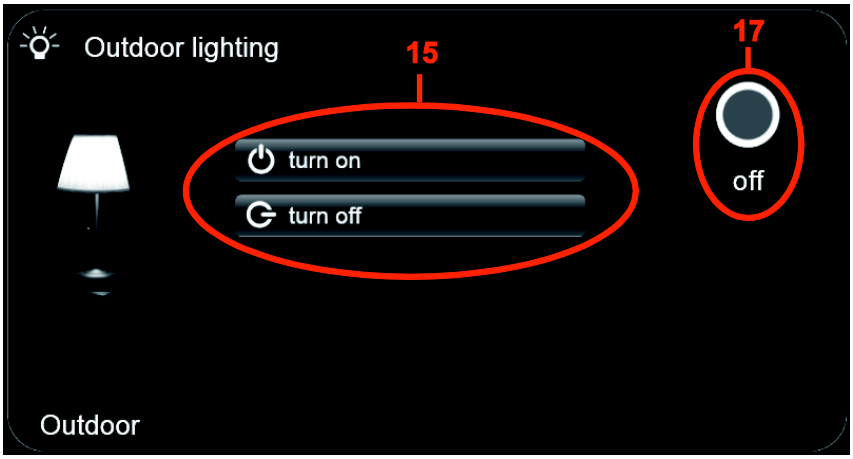
NOTE: The TXA206 indicates the domovea installation lighting module.



- Select **TXA206 - output 1** (16) in the **ie** set and then drag and drop it from this output into the **Status indication value** field (17)**.**



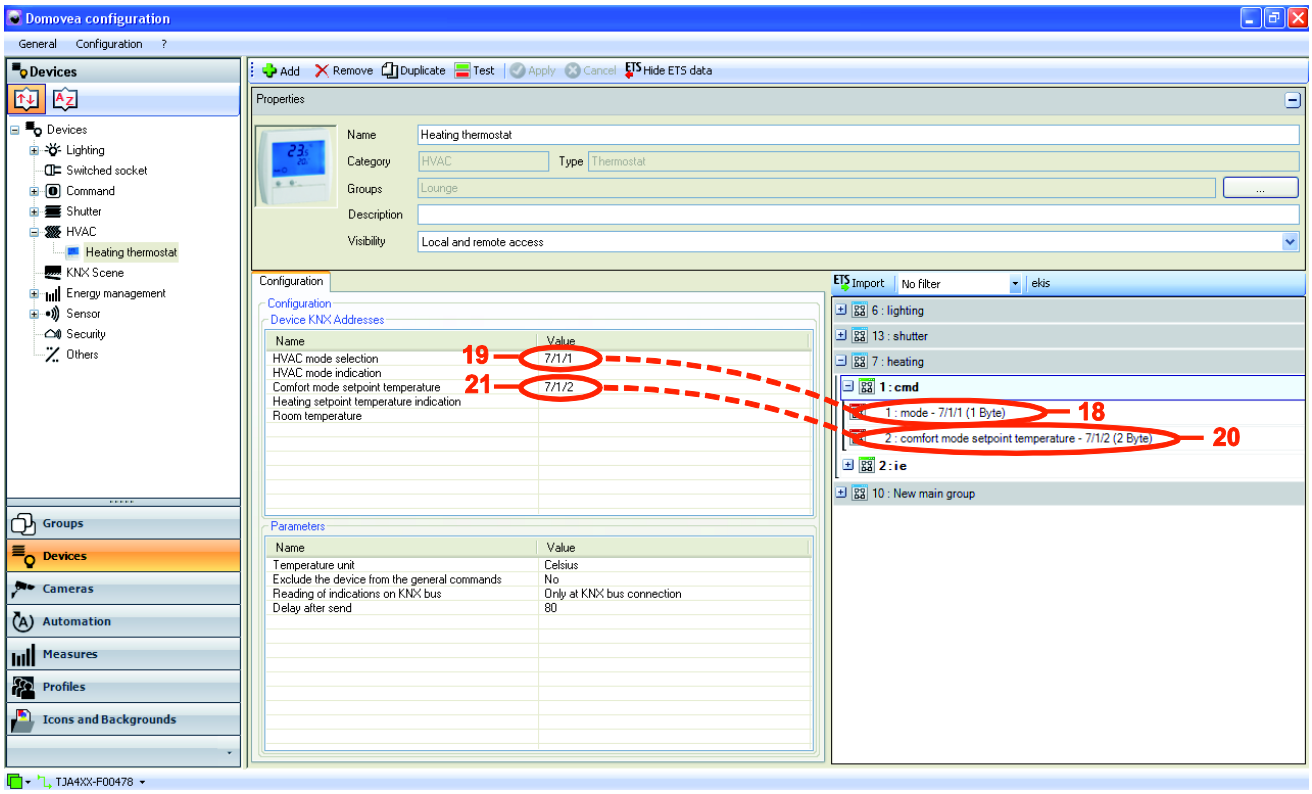
- Select the Groups icon , the **Lounge** group, and then **Outdoor lighting** device on the **domovea** client. Objects previously defined in the configuration utility are displayed on the client:
    - The turn on / turn off command (15) with its lighting status indication (17).



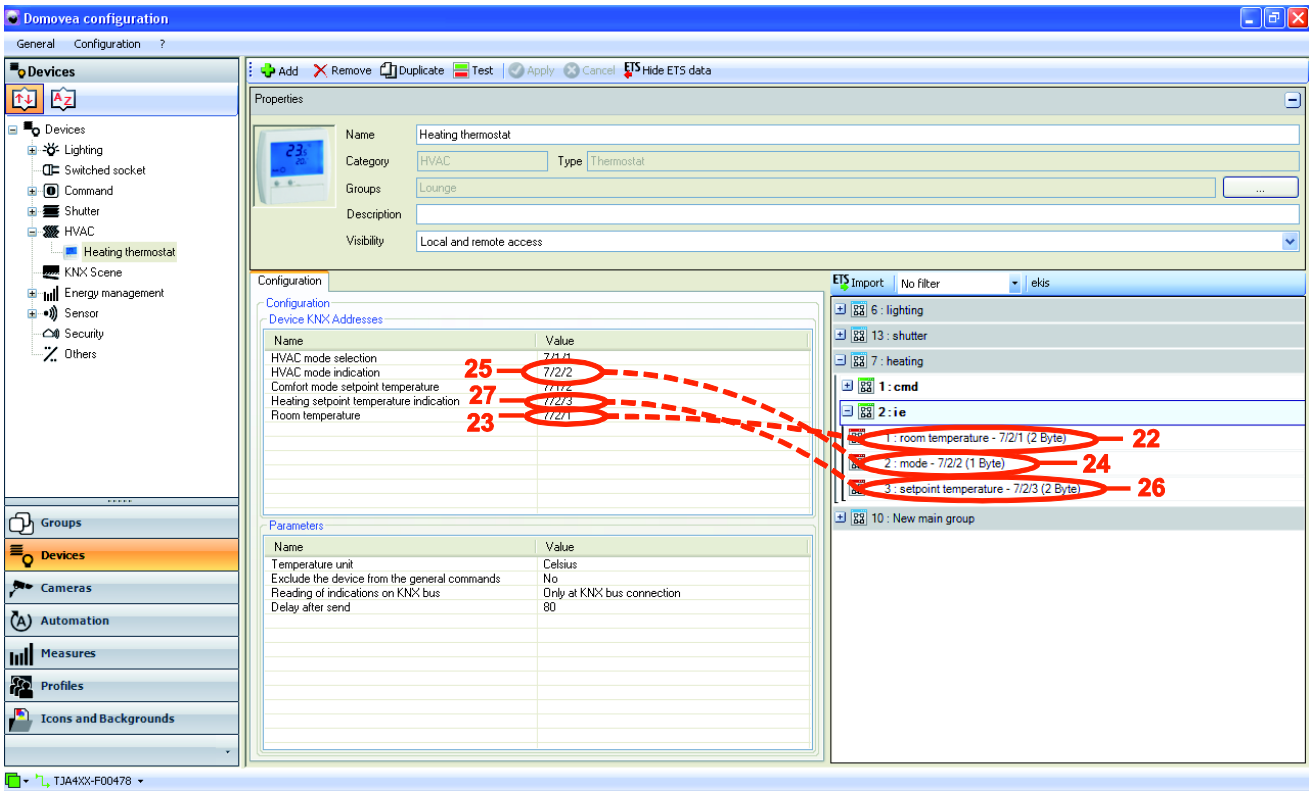
- Provide the KNX group addresses of the **Reading light** and **Kitchen worktop lighting** devices following the same procedure and using the outputs 2 and 3 of the TXA206.

To associate the KNX group addresses to the **Heating thermostat** device outputs:

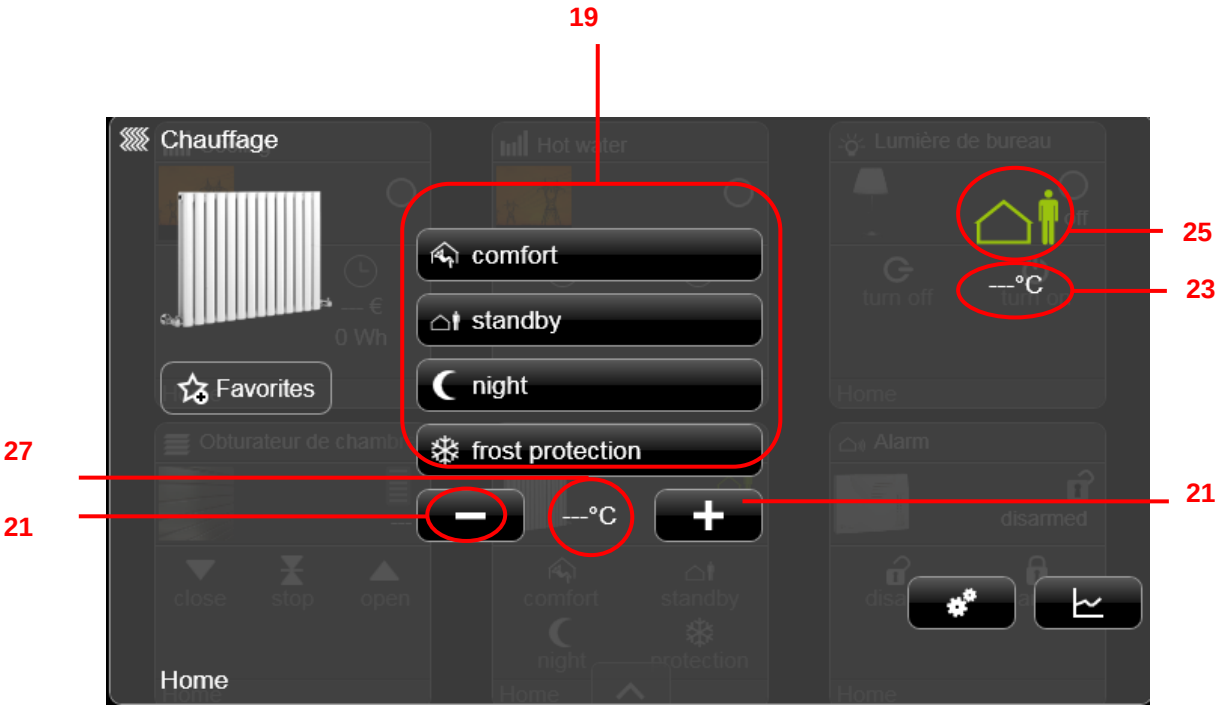
- Select **Devices** in the link list,
- Create the **HVAC** set and then select the **Heating thermostat** device,
- Select **mode** (18) in the **heating** set, then **cmd** and drag and drop it from this output into the **HVAC mode selection** command **value** field (19)**.**
- Select **comfort mode setpoint temperature** (20) and then drag and drop it from this output into the **comfort setpoint temperature setting** command **value** field (21).



- Select **room temperature** (22) in the **ie** set and then drag and drop it from this output into the **room temperature** indication **value** field (23).
- Select **mode** (24) and then drag and drop it from this output into the **HVAC mode indication value** field (25).
- Select **setpoint temperature** (26) and then drag and drop it from this output into the **Heating setpoint temperature indication value** field (27).



- Select the Groups icon , the **Lounge** group, and then **Thermostat** device on the domovea client. Objects previously defined in the configuration utility are displayed on the client:
    - The Mode Selection (19) with its status indication of the Current mode (25),
    - The Temperature Setting of the Comfort Setpoint Temperature (21) with its status indication (27),
    - The Room Temperature indication (23).

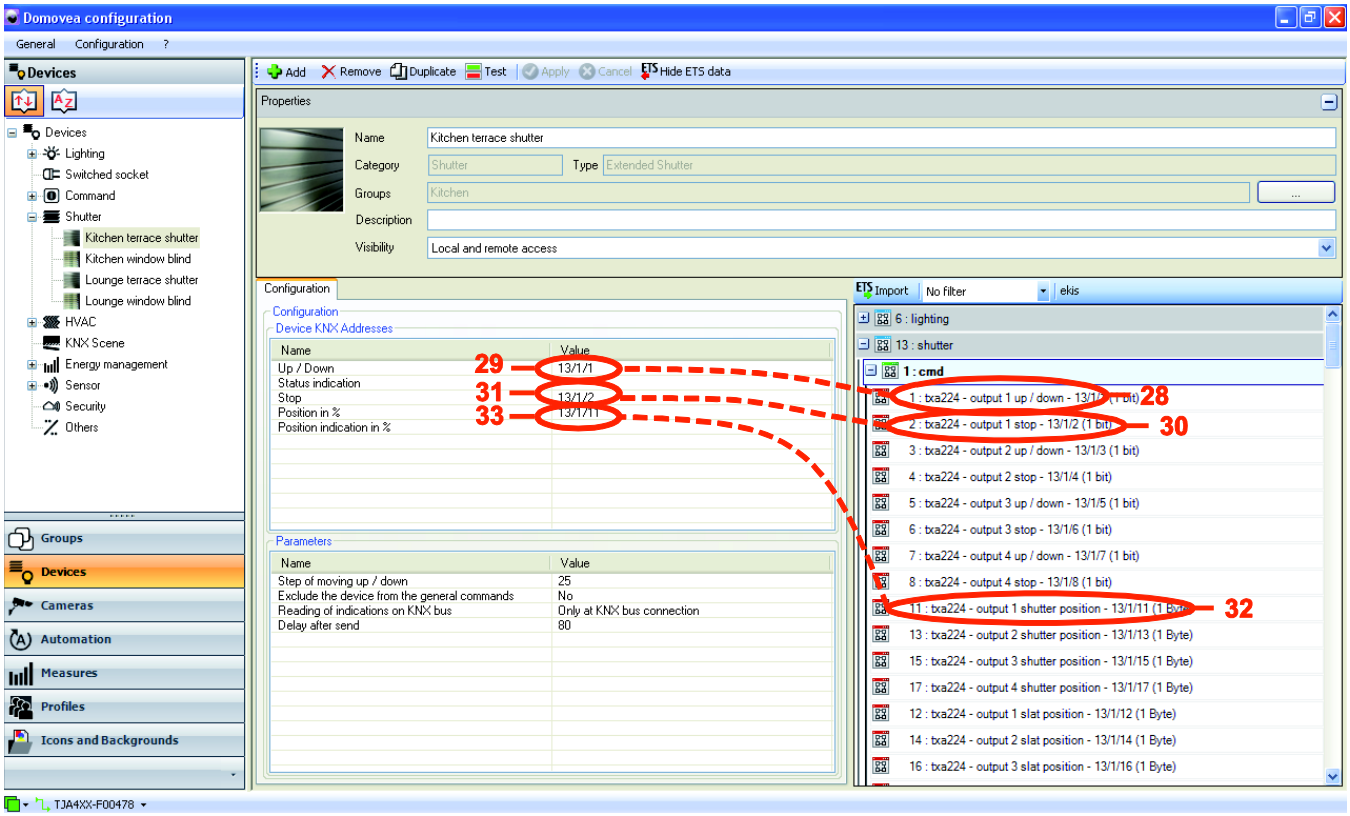


To associate the KNX group addresses to the **Kitchen terrace shutter** outputs:

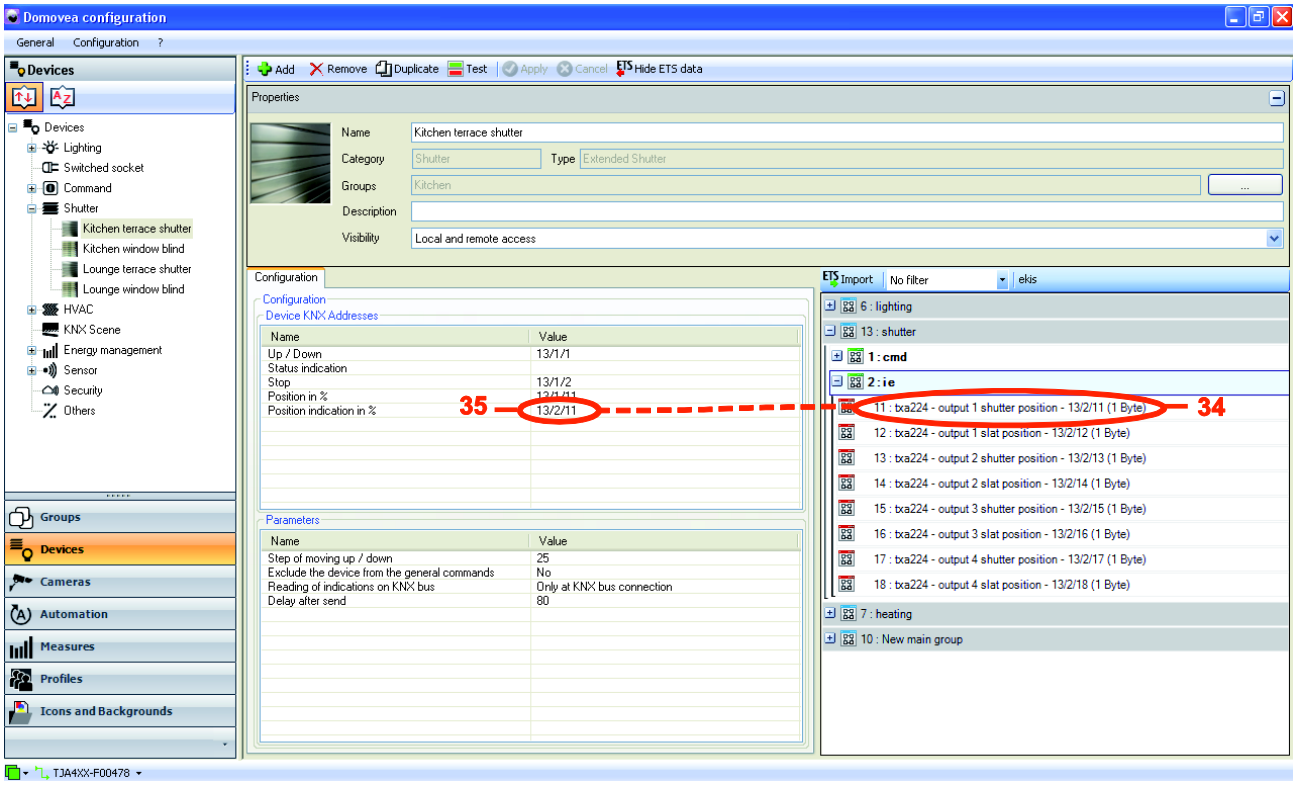
- Select **Devices** in the link list,
- Create the **Shutter** set and then select the **Kitchen terrace shutter** device,
- Select **TXA224 - output 1 up / down** (28) in the **shutters** set, then **cmd** and drag and drop it from this output into the **Up / Down** command **value** field (29)**.**

NOTE: The TXA224 indicates the domovea installation shutter / blind module.

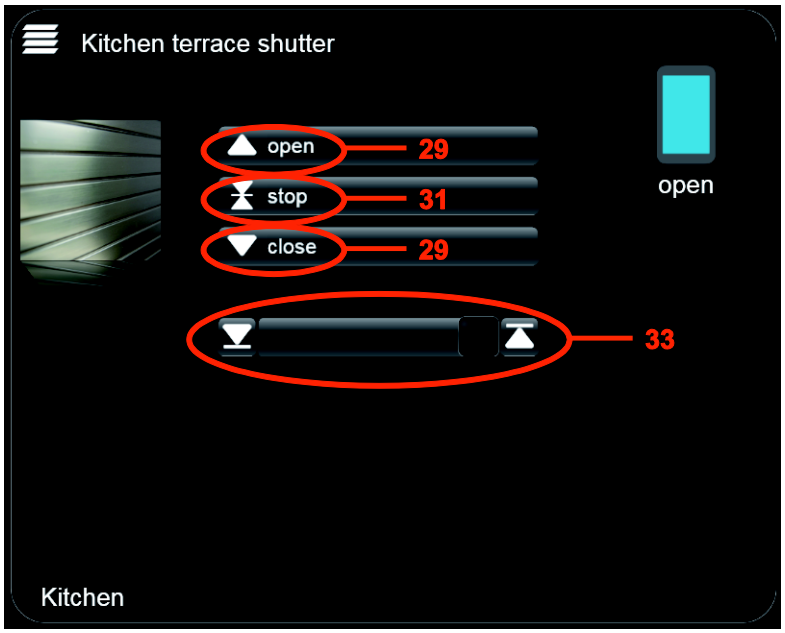
- Select **TXA224 - output 1 stop** (30) and then drag and drop it from this output into the **Stop** command **value** field (31).
- Select **TXA224 - output 1 shutter position** (32) and then drag and drop it from this output into the **Position in %** command **value** field (33).



- Select **TXA224 - output 1 shutter position** (34) in the **ie** set and then drag and drop it from this output into the **Position indication in % value** field (35)**.**



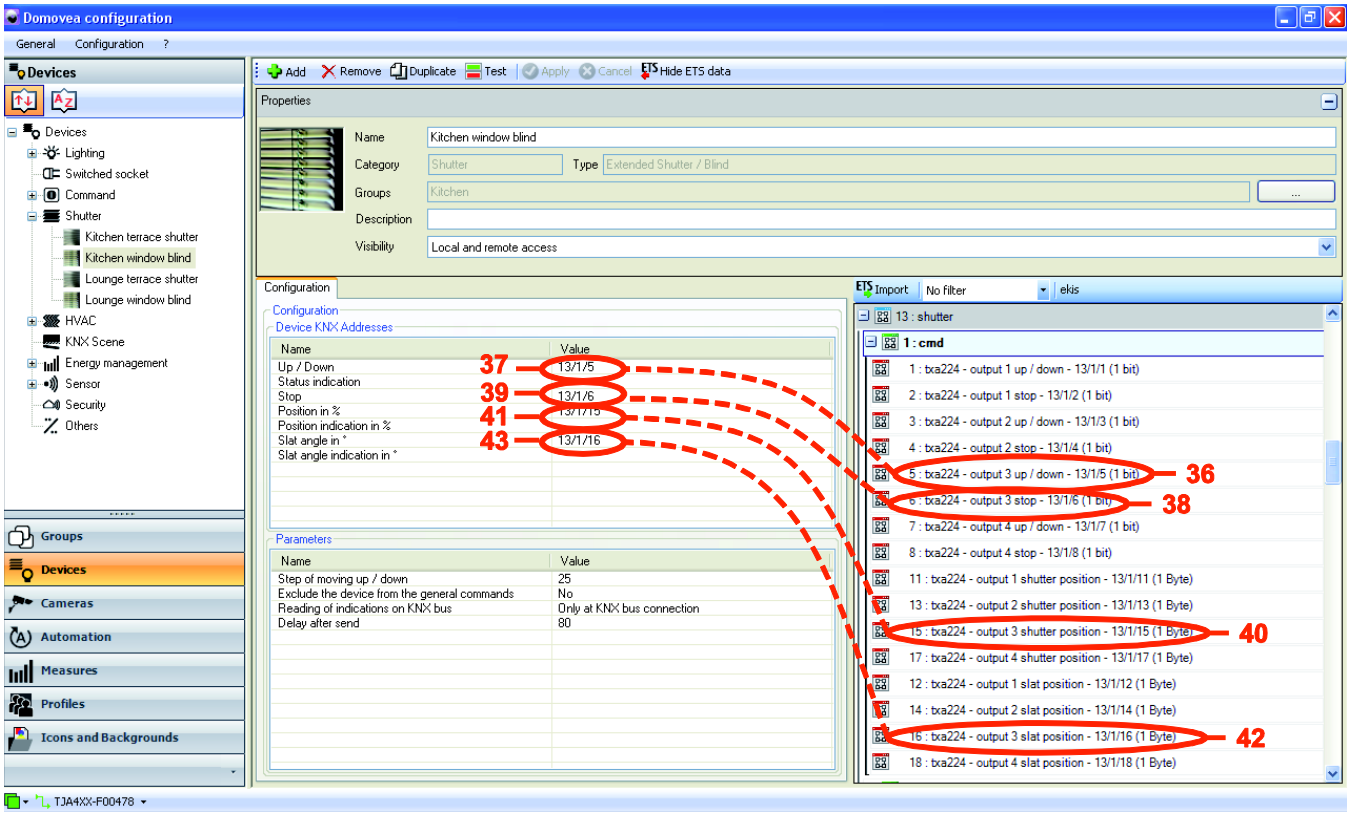
- Select the Groups icon  , the **Kitchen** group, and then **Kitchen terrace shutter** device on the domovea client. Objects previously defined in the configuration utility are displayed on the client:
    - open / close commands (29),
    - stop command (31),
    - shutter position command (33).



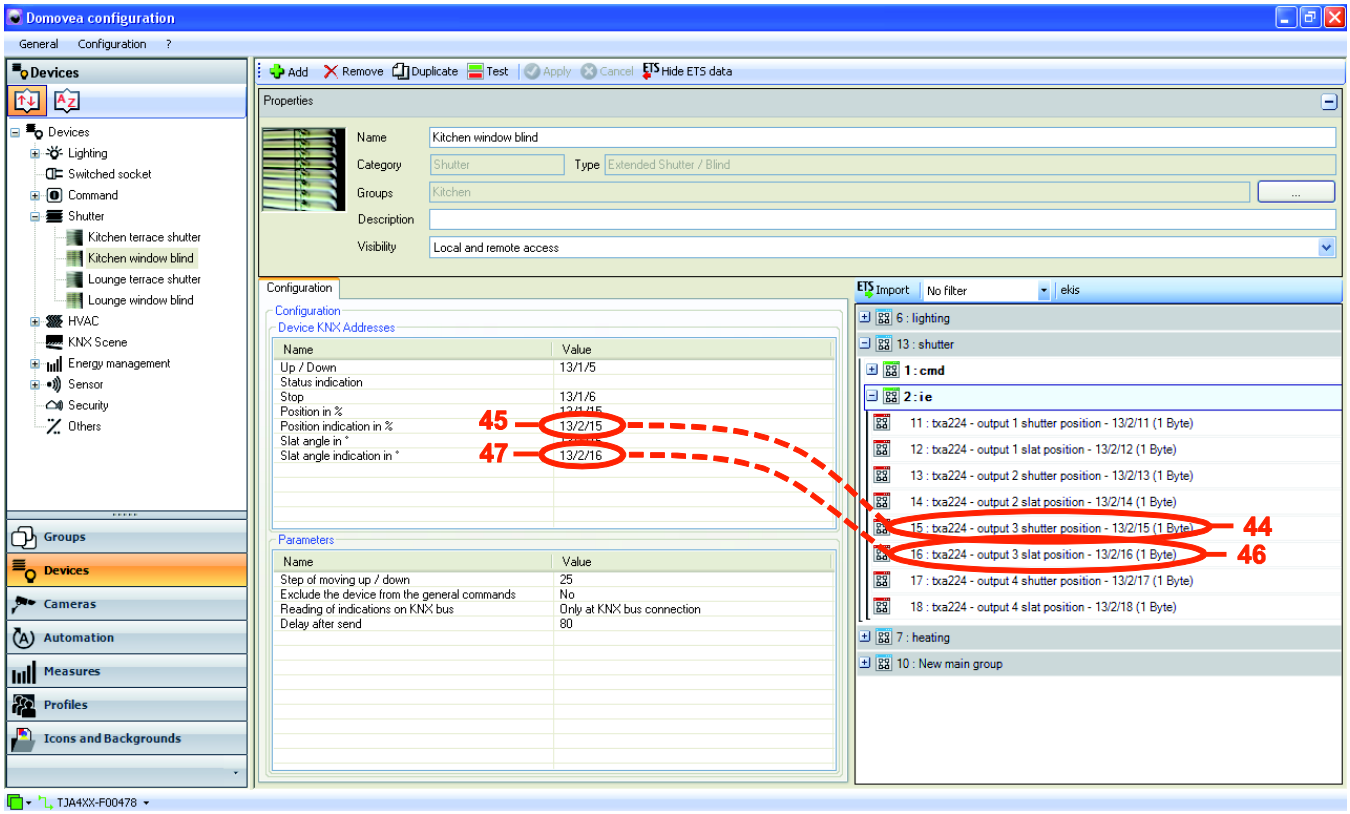
- Provide the KNX group addresses of the device **Lounge terrace shutter** device following the same procedure and using the output 2 of the TXA224.

To associate the KNX group addresses to the **Kitchen window blind** outputs:

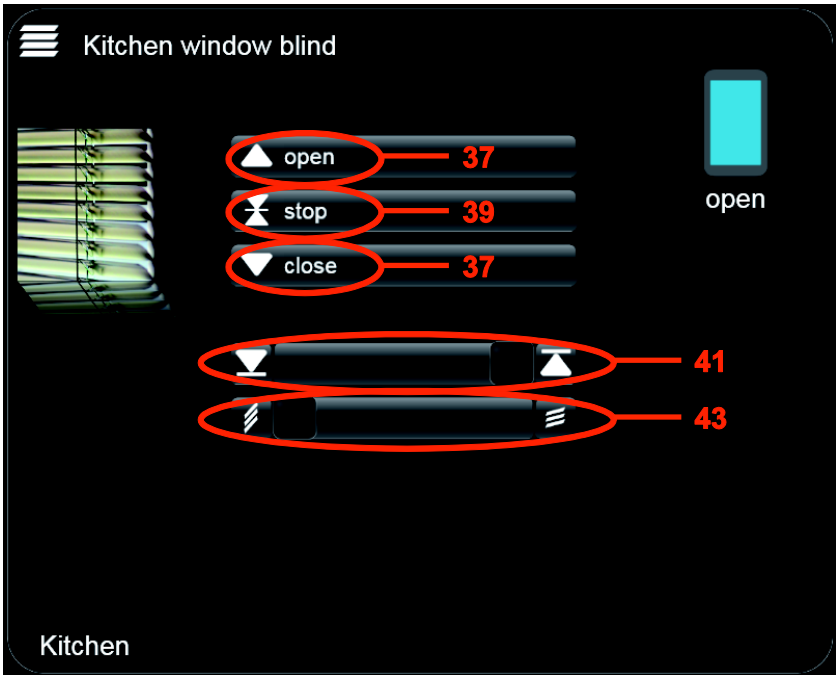
- Select **Devices** in the link list,
- Create the **Shutter** set and then select the **Kitchen window blind** device,
- Select **TXA224 - output 3 up / down** (36) in the **shutters** set, then **cmd** and drag and drop it from this output into the U**p / Down** command **value** field (37)**,**
- Select **TXA224 - output 3 stop** (38) and then drag and drop it from this output into the **Stop** command **value** field (39),
- Select **TXA224 - output 3 shutter position** (40) and then drag and drop it from this output into the **Position indication in %** command **value** field (41),
- Select **TXA224 - output 3 slat position** (42) and then drag and drop it from this output into the **Slat angle in °** command **value** field (43).



- Select **TXA224 - output 3 shutter position** (44) in the **ie** set and then drag and drop it from this output into the **Position indication in % value** field (45)**.**
- Select **TXA224 - output 3 slat position** (46) and then drag and drop it from this output into the **Slat angle indication in ° value** field (47).



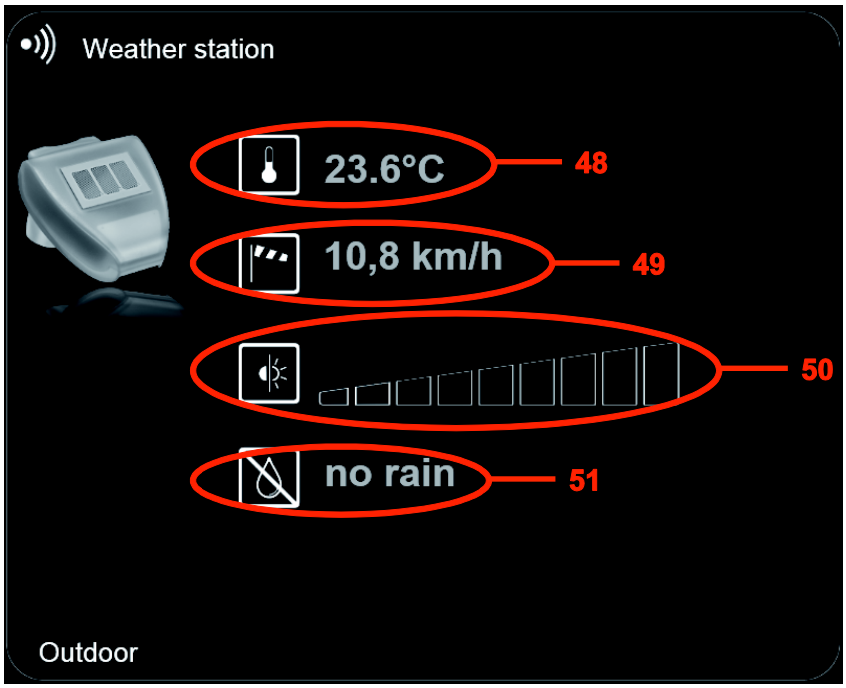
- Select the Groups icon  , the **Kitchen** group, and then **Kitchen window blind** device on the domovea client. Objects previously defined in the configuration utility are displayed on the client:
    - open / close commands (37),
    - stop command (39),
    - blind position command (41),
    - blind slat angle command (43),



- Provide the KNX group addresses of the device **Lounge window blind** device following the same procedure and using the output 4 of the TXA224.

To associate the group KNX addresses to the **Weather station** status indications:

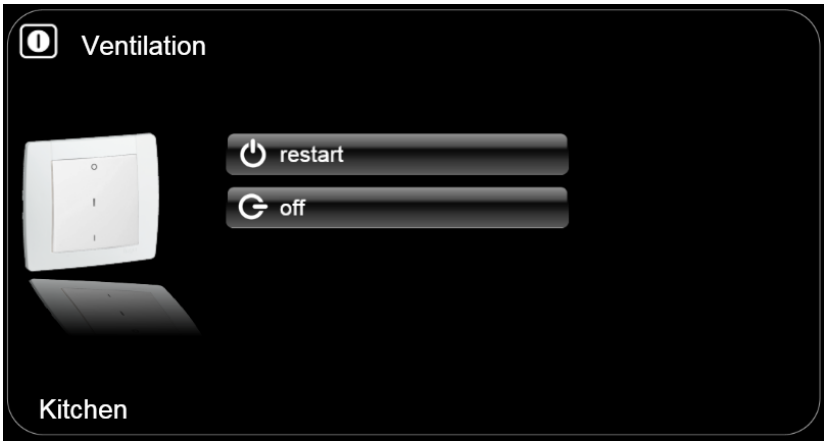
- Select **Devices** in the link list,
- Create the **Sensor** set and then select the **Weather station** device,
- Provide the KNX **10/1/1** group address in the **temperature** status indication **value** field**,**
- Provide the KNX **10/1/2** group address in the **wind speed** status indication **value** field,
- Provide the KNX **10/1/3** group address in the **brightness** status indication **value** field**,**
- Provide the KNX **10/1/4** group address in the **rain** status indication **value** field**,**
- Select the Groups icon  , the **Outdoor** group, and then **Weather station** device on the domovea client. Objects previously defined in the configuration utility are displayed:
    - The **temperature** status indication (48),
    - The **wind speed** status indication (49),
    - The **brightness** status indication (50),
    - The **no rain** status indication (51),



To associate the group KNX addresses to the **Ventilation** command:

NOTE: In this example, input 1 of the TXA306 module of the domovea installation is used.

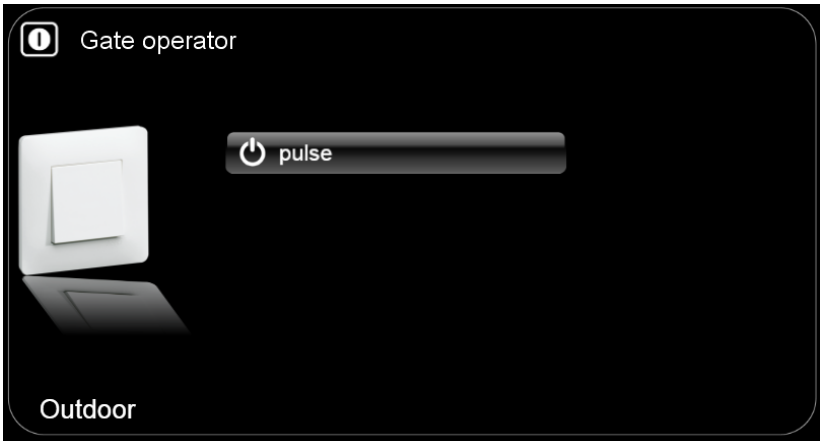
- Select **Devices** in the link list,
- Create the **Command** set and then select the **Ventilation** device,
- Provide the KNX **9/1/1** group address in the **restart / off** command **value** field**,**
- Select the Groups icon , the **Kitchen** group, and then **Ventilation** device on the domovea client. The ON / OFF command previously defined in the configuration utility is displayed:



To associate the group KNX addresses to the **Gate operator** command:

NOTE: In this example, input 2 of the TXA306 module of the domovea installation is used.

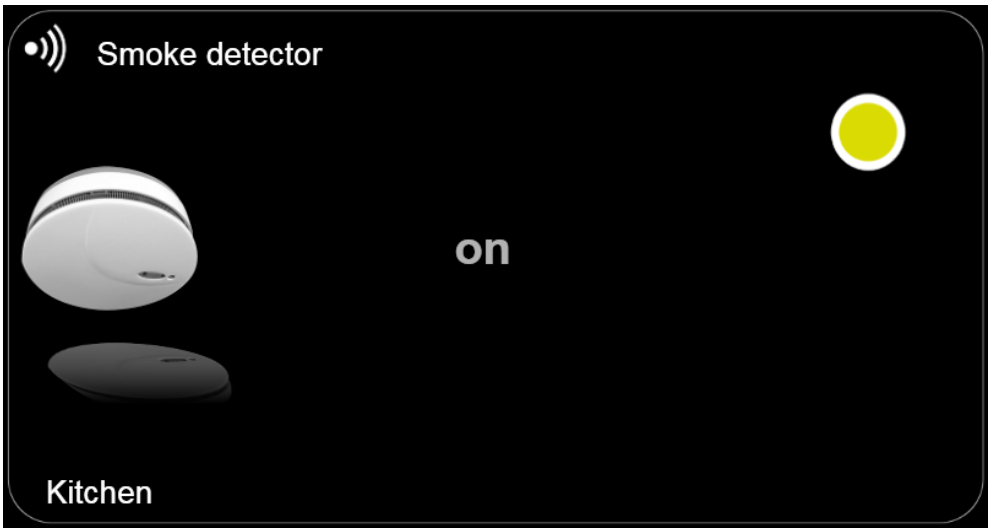
- Select **Devices** in the link list,
- Create the **Command** set and then select the **Gate operator** device,
- Provide the KNX **9/1/2** group address in the **ON / OFF** command **value** field**,**
- Select the Groups icon , the **Outdoor** group, and then **Gate operator** device on the domovea client. The **pulse** command previously defined in the configuration utility is displayed:



To associate the KNX group addresses to the of **Smoke detector** status indication:

NOTE: In this example, input 3 of the TXA206A module of the domovea installation is used.

- Select **Devices** in the link list,
- Create the **Sensor** set and then select the **Smoke detector** device,
- Provide the KNX **6/7/3** group address in the **Status indication value** field**,**
- Select the Groups icon , the **Kitchen** group, and then **Smoke detector** device on the domovea client. The status indication previously defined in the configuration utility is displayed:



5.5.2 PROJECT TXA100

To import a TXA100 project, click on **"General"** in the menu bar, then on **"Import TXA100 data"**. The domovea configuration will then be automatically created, resulting in a database containing groups and devices (including group addresses and adequate settings).
For more information, please refer to the TXA100 documentation.

5.6 CURVES (SENSORS)

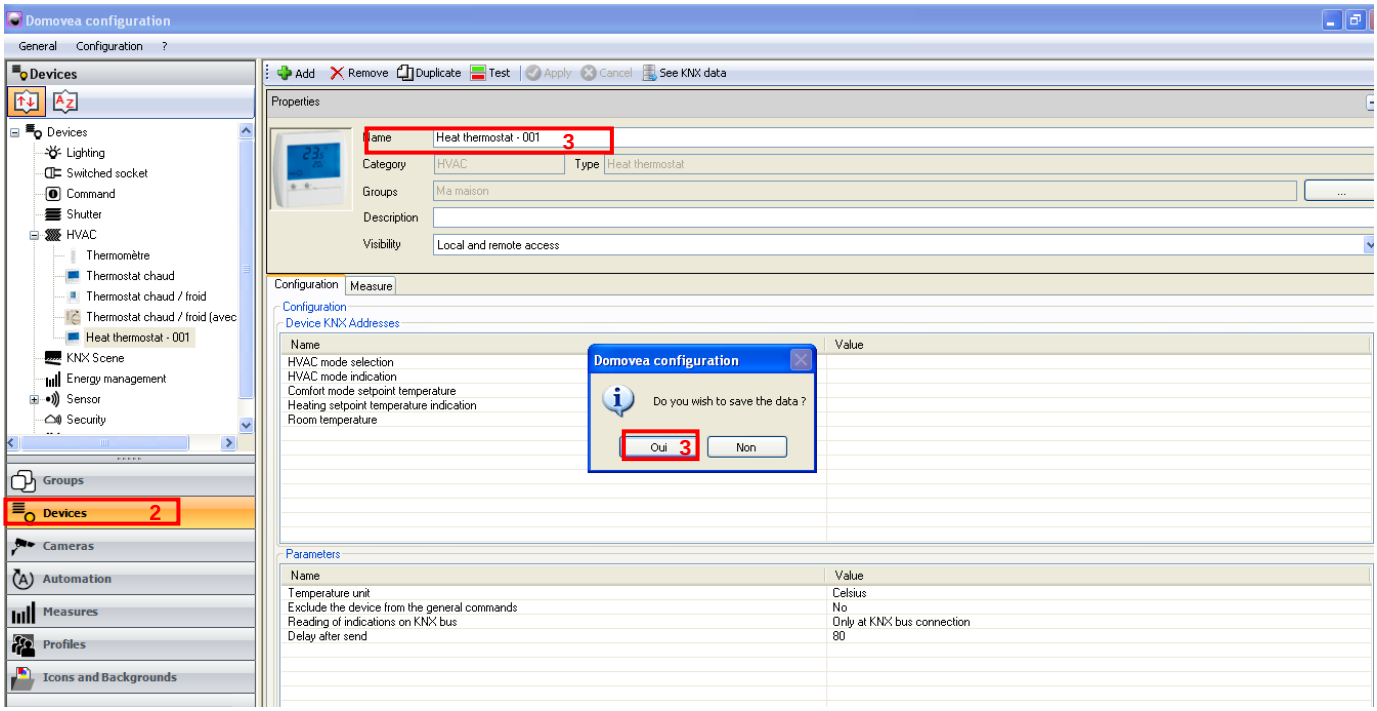
The **Sensor curve** function is used to display the evolution of the some sensor values over a given period :

- Temperature
- CO2
- Wind
- Luminosity
- Humidity

- ***Configurator view (example with thermostat)***

A Thermostat (1) can be added in the **HVAC** category in the configurator. To make it clearer, it can be renamed by modifying the **Name** field (2).

- Click on **Oui** (3) (Yes) to save.

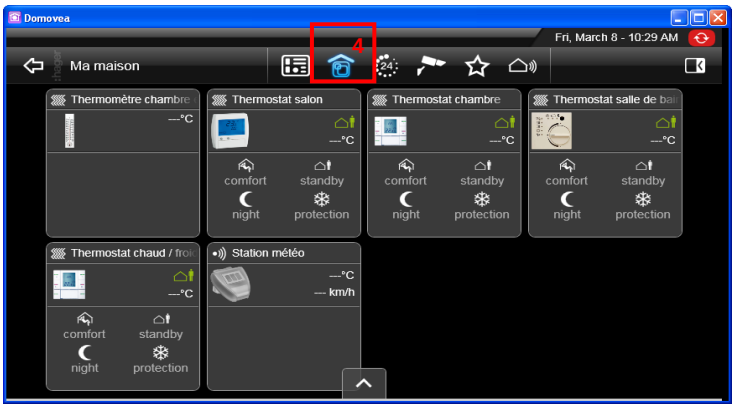


Compatible devices:

- Thermostat
- Thermometer
- Weather station
- Luminosity sensor
- Humidity sensor
- CO2 sensor

- ***Client view***

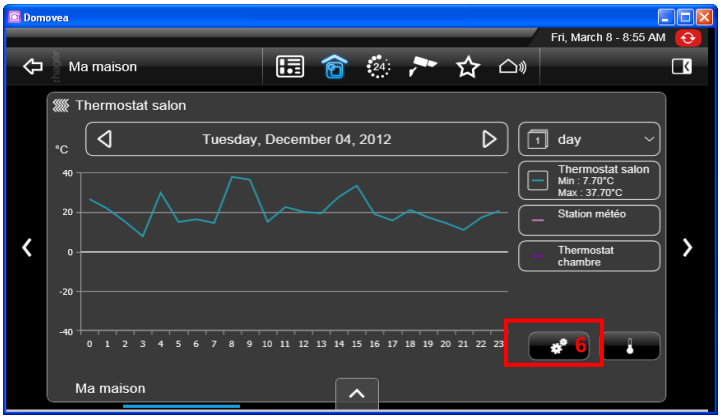
- Display the "Devices" view using the icon (4).
- Select the device to view



In this example the **thermostat salon** (sitting room thermostat) is selected.

- Click on the **icon** (5) to display the temperature curve.

The temperature curve for the sitting room is shown for an entire day.



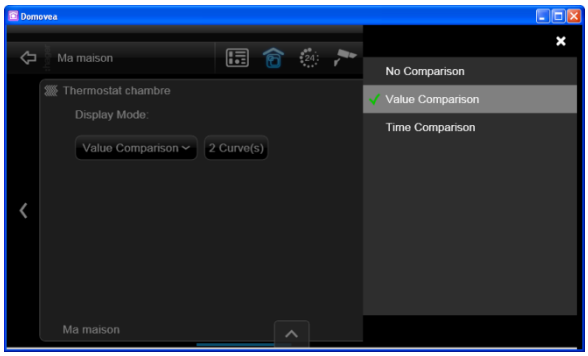
5.6.1 DIFFERENT TYPES OF COMPARISON

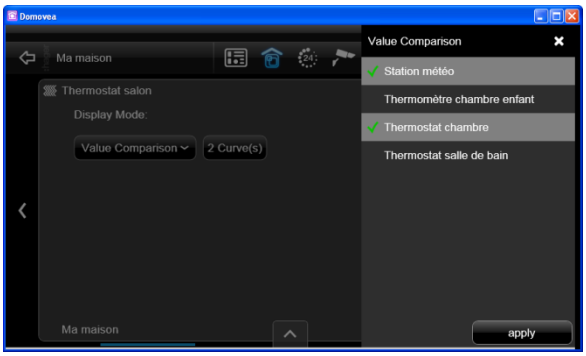
- Value comparison:

To compare the temperature values with other rooms, select the (6) icon.
A window opens.

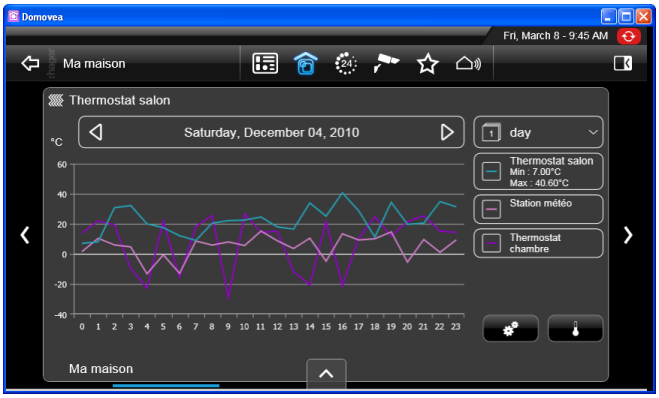
- Select **Value comparison** and one or more thermostats in different rooms.

In this example, the comparison is made with the **station météo** (weather station) and the **thermostat chambre** (bedroom thermostat).

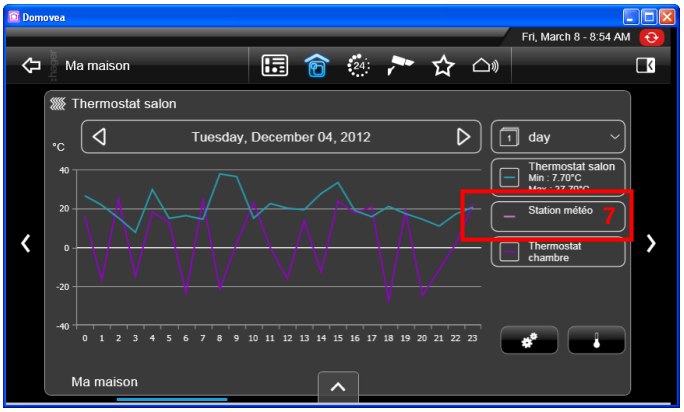




The **station météo** (weather station) and **thermostat chambre** (bedroom thermostat) are thus shown.

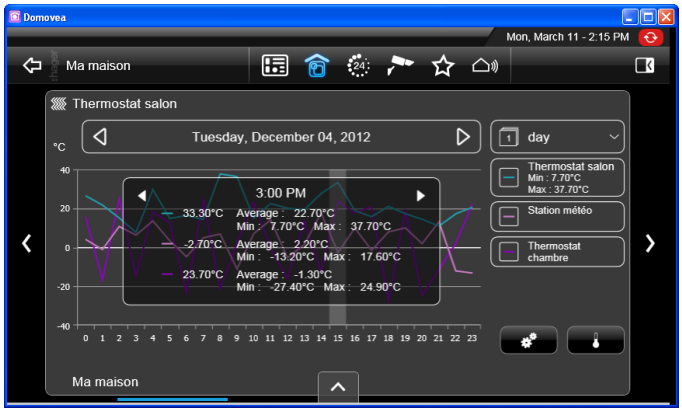


In this example, the **station météo** (weather station) is deselected by clicking on the tab (7) to compare just the two thermostats.



By clicking on the curve, a pop-up opens showing the temperature at 3pm in the sitting room, the bedroom and outside.

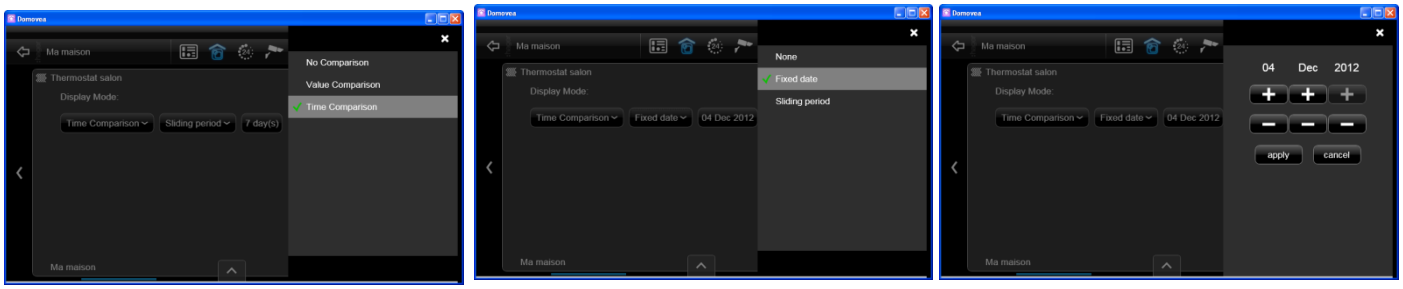
It also gives the minimum and maximum temperatures, plus the average temperature for the day obtained by the following formula: average = (minimum temperature + maximum temperature) / 2.



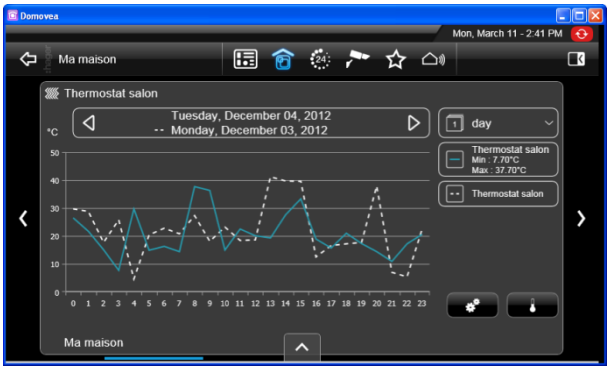
- **Time comparison:**

To compare temperature values in relation to a set date or over a sliding period.
For this example:

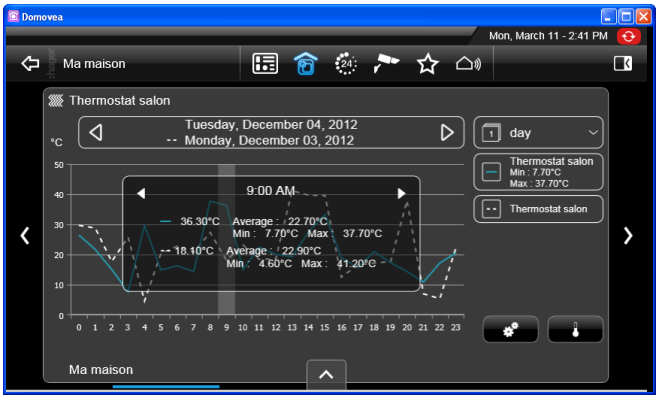
- Select Time comparison, then **Fixed date**, and select the date using the + and - signs.
- Click on **apply**.



The temperature curves are displayed for the period between 3rd and 4th December.

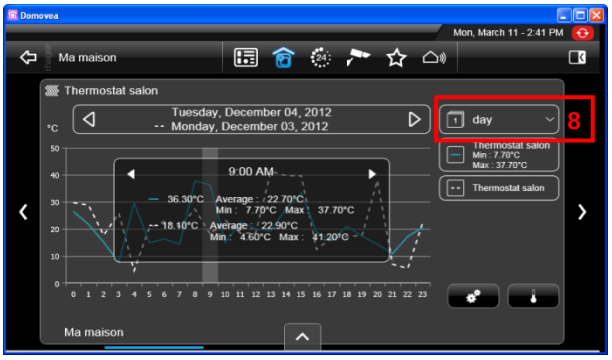


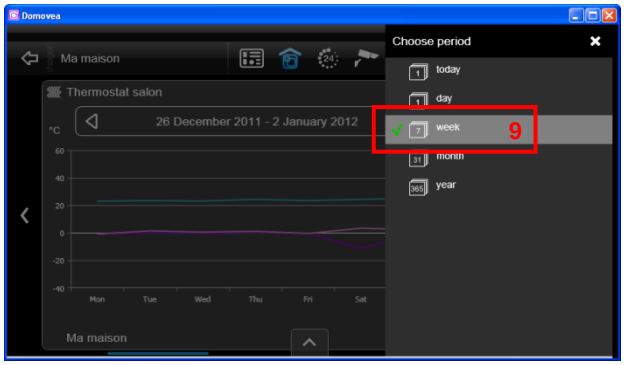
By clicking on the curve, a pop-up opens with the temperature comparison for 3rd and 4th December at 9am in the sitting room.



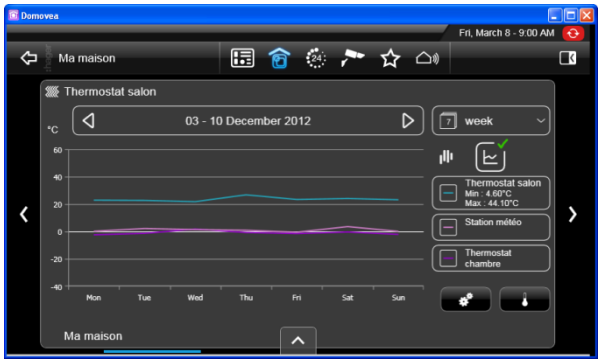
- **Choosing a period:**

- Click on the **icon** (8) to choose the period,
- Select "week" (9) for this example.



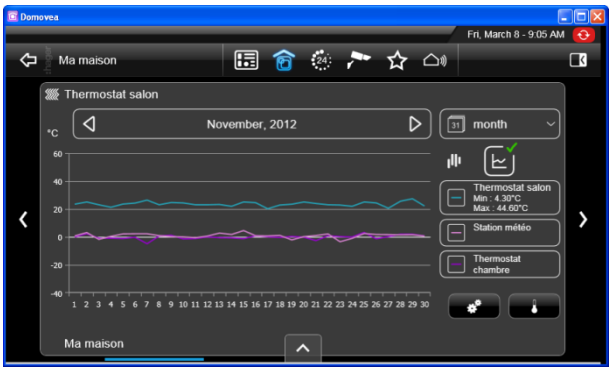


The temperature curves are shown for one week.



The screens below show energy consumption:

- over 1 month



- over 1 year.

- **STANDARD DEVIATION display:**

The weeks, months and years views can also be displayed in "standard deviation" mode. This mode shows the differences between the average minimum and maximum temperatures for each day.

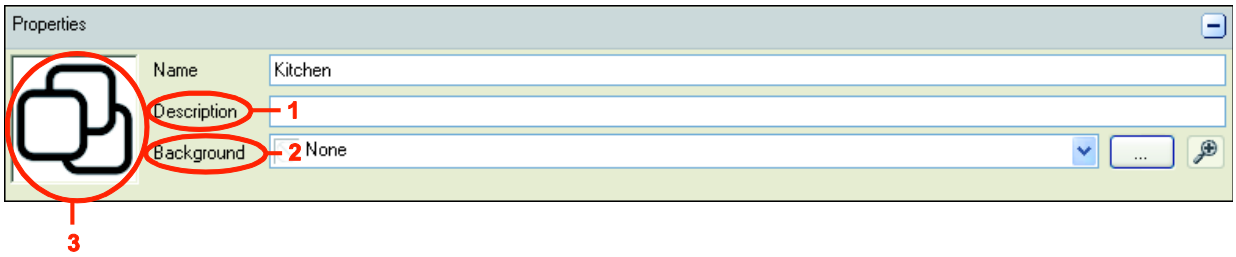
- To switch between the displays, click on the **icon** (10).

6. CONFIGURATION TOOL ADVANCED FUNCTIONS

6.1 GROUPS

When creating a **Group** (see §.5.1.1), it is possible to fill additional fields in the Properties window:

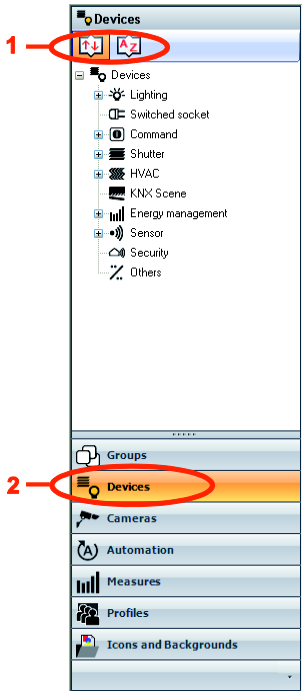
- **Description** (1): Allows you to describe the group in detail.
  - **Background** (2): Allows you to select a background that will be visible on the domovea client by accessing the group.
  - **Icon** (3): Allows you to customize the icon. Click on the icon, double-click on the icon you wish to be in the icon list and then click **Apply** in the menu bar to confirm the changes.



6.2 DEVICES

The buttons on the tool bar (1) of the **Devices** link (2) allows modifying the display of the set of devices according to various criteria:

- : Allows you to sort devices by category (lighting, shutter, sensor, etc.).
- : Allows you to sort the devices alphabetically,



When creating a **Device** (see §.5.1.2), it is possible to fill additional fields in the Properties window:

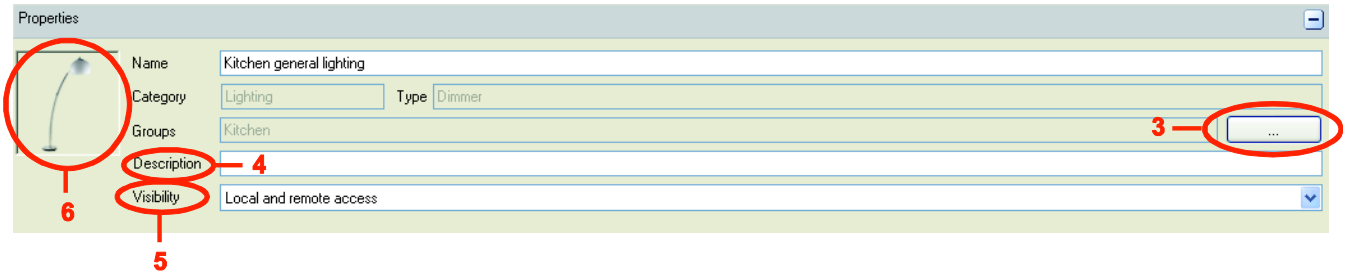
- **Groups (...)** (3): Allows assigning the device to one or more groups.
- **Description** (4): Describes the device in detail.
- **Visibility** (5): Three visibility options available:

  Local and remote access: Provides access to the device or the automation with the domovea client and via the www.domovea.com portal.

  Local access: Provides access to the device only with the domovea client.

  Never: Prevents access to the device with the domovea client and via the www.domovea.com portal.

- **Icon** (6): Allows you to customize the icon. Click on the icon, double-click on the icon you wish to be in the icon list and then click **Apply** in the menu bar to confirm the changes.



To assign the device to one or more groups, click on the **Groups** button (3). Now you can find pre-defined groups. Check the box of the group or groups to which the device must be assigned.

6.3 CAMERAS

This section describes how to create a link between a network camera and a domovea installation (10 cameras maximum per installation).

The following list shows the brands and models of the cameras supported:

Brand	Model
Axis	207
	207MW
	209FD
	209MFD
	210
	211
	211M
	212PTZ
	213PTZ
	214PTZ
	215PTZ
	216FD
	216MFD
	221
	223M
	225FD
	231D+
	232D+
	233D
	24xQ(A) Series
	24xS(A) Series
	M1013
	M1014
	M1033-W
	M1034-W
	M1054
	M10xx Series
	M1114
	M3004-V
	M3005-V
	M3006-V
	M3011
	M3014
	M3203
	M3204
	M5013
	M5014
	M7001

Brand	Model
Axis	P1204
	P1214
	P13xx Series
	P3301
	P3343
	P3344
	P3346
	P5512
	P5534
	Q1755
	Q6032
	Q6034
	Q6035
	Q7401
	Q7404
D-Link	DCS-1130
	DCS-2100
	DCS-2120
	DCS-2121
	DCS-2130
	DCS-2132L
	DCS-2210/DCS-2230
	DCS-2310L
	DCS-3200
	DCS-3420
	DCS-5300
	DCS-5605
	DCS-7xxx Series
	DCS-900
	DCS-930L
	DCS-932
	DCS-942L
	DCS-950G

Brand	Model
Mobotix	D12
	D22
	D24
	D25
	M12
	M22
	M24
	M25
	Q22
	Q24
	Q25
	S14
	T24
	T25
Panasonic	BL-xxx PTZ series
	BL-xxx Series
	WV-xxx PTZ series
	WV-xxx series
Sony	SNC-CH160
	SNC-CHxxx Series
	SNC-CSxxP Series
	SNX-CX600W
	SNC-DFxxP Series
	SNC-DHxxx Series
	SNC-EM632R
	SNC-EP580
	SNC-Px Series
	SNC-Rx550P Series
	SNC-RZxxN Series
	SNC-RZxxP Series
	SNC-VM600B
	SNC-XM632
	SNC-Z20P Series

Brand	Model
Vivotek	21xx Series
	31xx PTZ series
	31xx Series
	61xx PTZ Series
	61xx Series
	7142
	71xx PTZ Series
	71xx Series
	7330
	813x Series
	BB5116
	BB5315
	CC8130
	FD8131
	FD8133/FD8134
	FD8135H
	FD8136
	FD8162
	IP8132/IP8133
	IP8332
	IP8362
	MD7560D
	PD8136
	PT8133
	PZ7151/7152
	PZ8111
	PZ8121
	SD8111
	SD8121
	SD8311E
	SD8321E

6.3.1 CREATING A LINK WITH A CAMERA

To create a link between a camera and the domovea system:

- Select **Cameras** (1) in the list of links,
- Click on **Add** (2) in the menu bar, then select the **brand** and **model** of the camera,
- Fill in the following fields in the properties window:
    - **Name** (3): Allows you to name the camera.
    - **Description** (4): Allows you to describe the camera more precisely.
    - **Visibility** (5): There are three visibility options available:

      Local and remote access: Allows access to the camera with the domovea client and via the www.domovea.com web portal.

      Local access: Allows access to the camera with the domovea client only.

      No access: Prevents access to the camera with either the domovea client or through the www.domovea.com web portal.
    - **Icon** (6): Allows you to customize the icon. Click on the icon, then double-click on the desired icon in the list of icons.

In the Standard camera configuration tab (7):

- **In local mode** (in your local network)

  IMPORTANT: the camera must be authorized on the network and its ports must be open.

  - Enter the IP address of the camera (8),
  - Enter the port (9) used by the camera,
  - Check the **Authenticate** box (10) if authentication is required, then enter the **login** for connection (11) and the **password** (12) for the camera,
  - Click on **Appl**y to confirm the modifications.

  Two additional tabs are available for more advanced camera settings:

  - **Advanced image settings**: Allows more advanced configuration of the image settings, such as quality, compression, fluidity, etc.
  - **Doorphone**: See doorphone chapter.

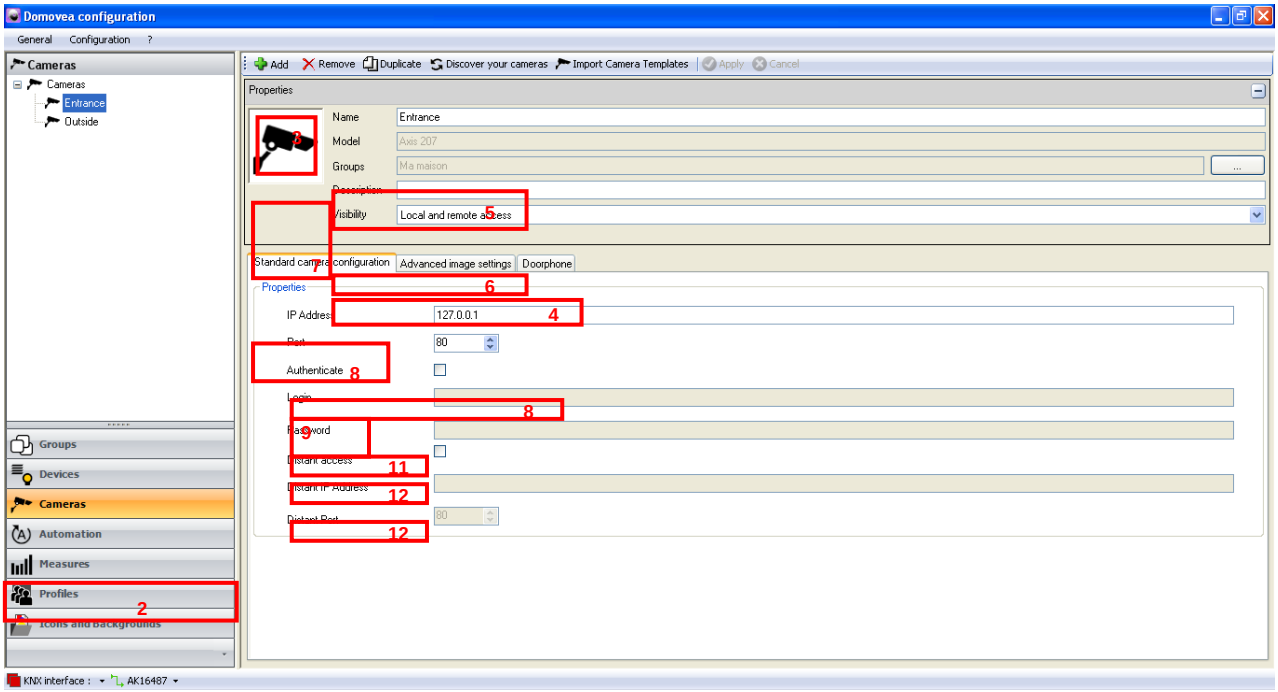
- **In distant access mode**

  If the box is not checked, the cameras will be visible in distant access mode (domovea.com web portal or mobile applications) with a refresh rate of just one image per minute.

  If the box is checked, the user will be able to view a video flow from mobile applications (but not from the domovea.com web portal)

  IMPORTANT: the camera must be authorized to communicate to the internet and the ports used must be redirected.

  - Enter the distant IP address of the camera,
  - Enter the distant port of the camera.



6.3.2 DASHBOARD

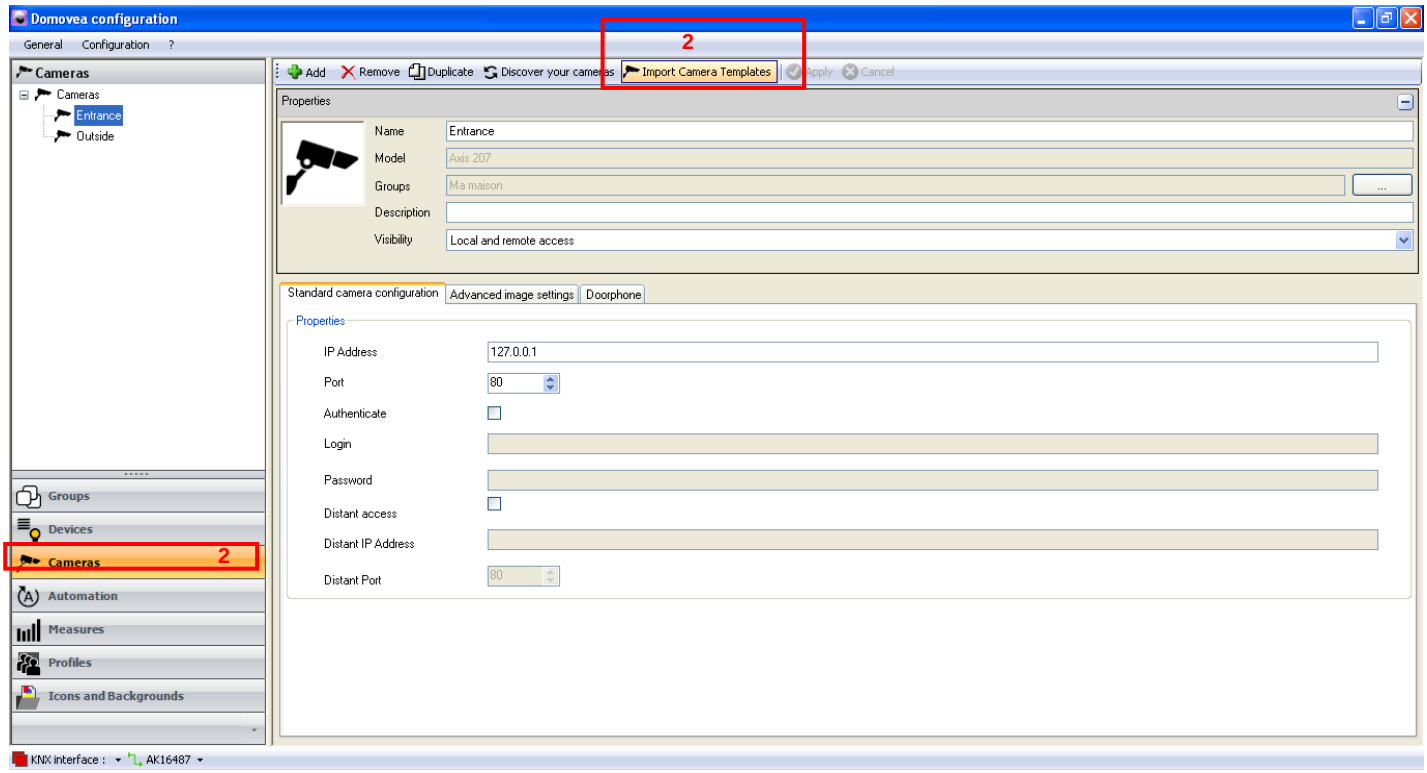
To display the cameras on the dashboard, please refer to the **Profiles** chapter.

6.3.3 IMPORTING A CAMERA TEMPLATE

The cameras compatible with domovea are given in the previous list (see §.6.3). Nevertheless, as the market for this type of product is constantly developing, Hager will supply templates for other cameras from the six compatible brands. The corresponding configuration files will be available on the www.domovea.com web portal and will be renewed each time the software is updated.

To import a new camera template:

- Download the configuration file on the www.domovea.com web portal.
- Select **Cameras** (1) in the list of links,
- Click on **Import camera templates** (2) in the menu bar,
- Select the file with the extension .excam then click on **Open.**



Once this procedure has been performed, you can select your camera from the list of new camera templates among the six compatible brands.

6.3.4 DOORPHONE

A video doorphone may be created (without the audio function) using any camera by activating the function in the doorphone tab.

It is also possible to create a door entry system IP with audio function by adding an ELCOM brand camera.

For more details, see **"Doorphone"** document.

6.4 AUTOMATION

6.4.1 SEQUENCES

A sequence is a list of actions to perform on one or more elements of an electrical installation. These actions can be performed according to various events such as pressure on the touch screen or pressing a bell.

For more details, see the **"Sequences"** document.

6.4.2 PROGRAMS

A program is a list of actions to perform on one or more elements of an electrical installation. These actions are based on a time range.

For more details, see the **"Programming"** document.

6.4.3 MEASUREMENTS

The domovea power display function responds to a growing desire to reduce energy needs.

After the different KNX products acquire data, it is transmitted to the domovea server through the KNX TP bus.

The domovea software and server archive this data, which after processing, will be displayed on a display device (touch screen, laptop, etc.).

For more details, see the **"Energy"** document.

6.4.4 PROFILES

This section describes how to create profiles to customize the appearance and access rights of the various clients in the system (a maximum of 30 profiles per system).

E.g. 1: In a family home, the young son must have access to his bedroom but not to the other rooms.

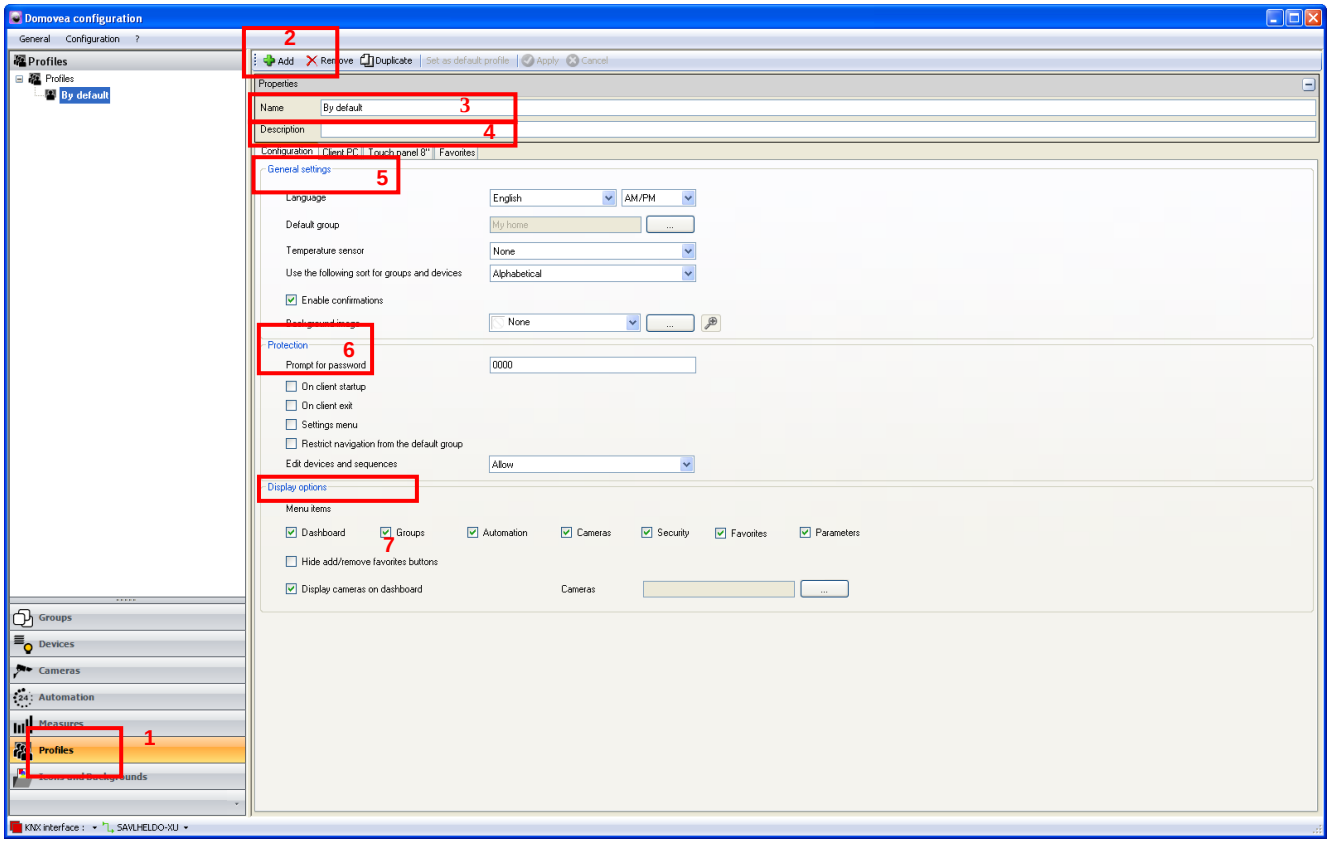
E.g. 2: In a hotel, it is important for the receptionist to be able to manage all the rooms, but a guest in room "X" must not be able to access or modify the parameters of room "Y". The guest must not even be able to view them.

To create a profile:

- Select **Profiles** (1) in the list of links,
- Click on **Add** (2) in the menu bar,
- Enter the **Name** (3) to be given to the profile in the properties window,
- Fill in the **Description** (4) field in the properties window to give a more detailed description of the profile.

In the **Configuration** tab and then in **General settings** (5) choose:

- The **Language** used by the client,
- The format of the time display (**0-24, AM/PM**)
- The **Default group** to select the first level view,
- The **Temperature sensor** to select the temperature sensor used,
- **Use the following sort for groups and devices** to select the way elements are displayed (by category, in alphabetical order or customized (see § Customized sort display mode)),
- **Enable confirmations** to enable confirmation messages,
- **Background image** to select a background image.



Password protection for access to certain functions can be defined in the **Configuration** tab, then in **Protection** (6):

Prompt for password allows you to define the password to be used:

- **on client startup**,
- **on client exit**,
- when accessing the **settings menu,**
- to **restrict navigation from the default group,**

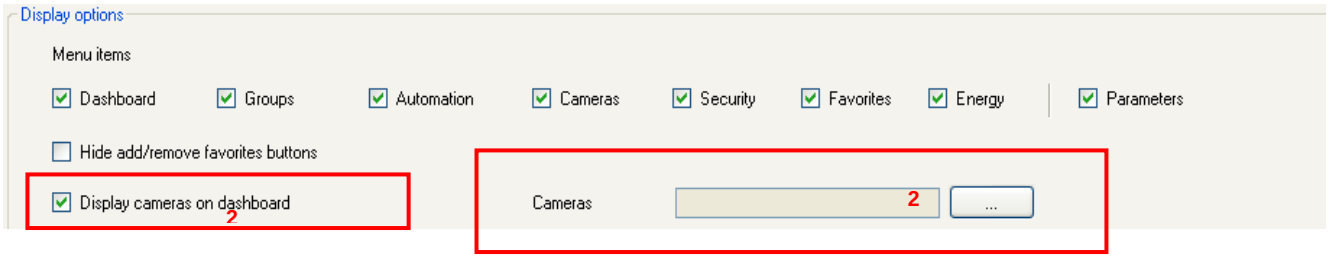
It is also possible to authorise or prevent users from using the **edit devices and sequences** option**.**

The appearance of the client tool bar domovea can be defined in the **Configuration** tab then in **Display options** (7):

Menu items: Allows you to select your choice of favorite buttons that will be visible on the domovea client (Dashboard, Groups, Automation, Cameras, Security, Favorites, Energy, Settings).

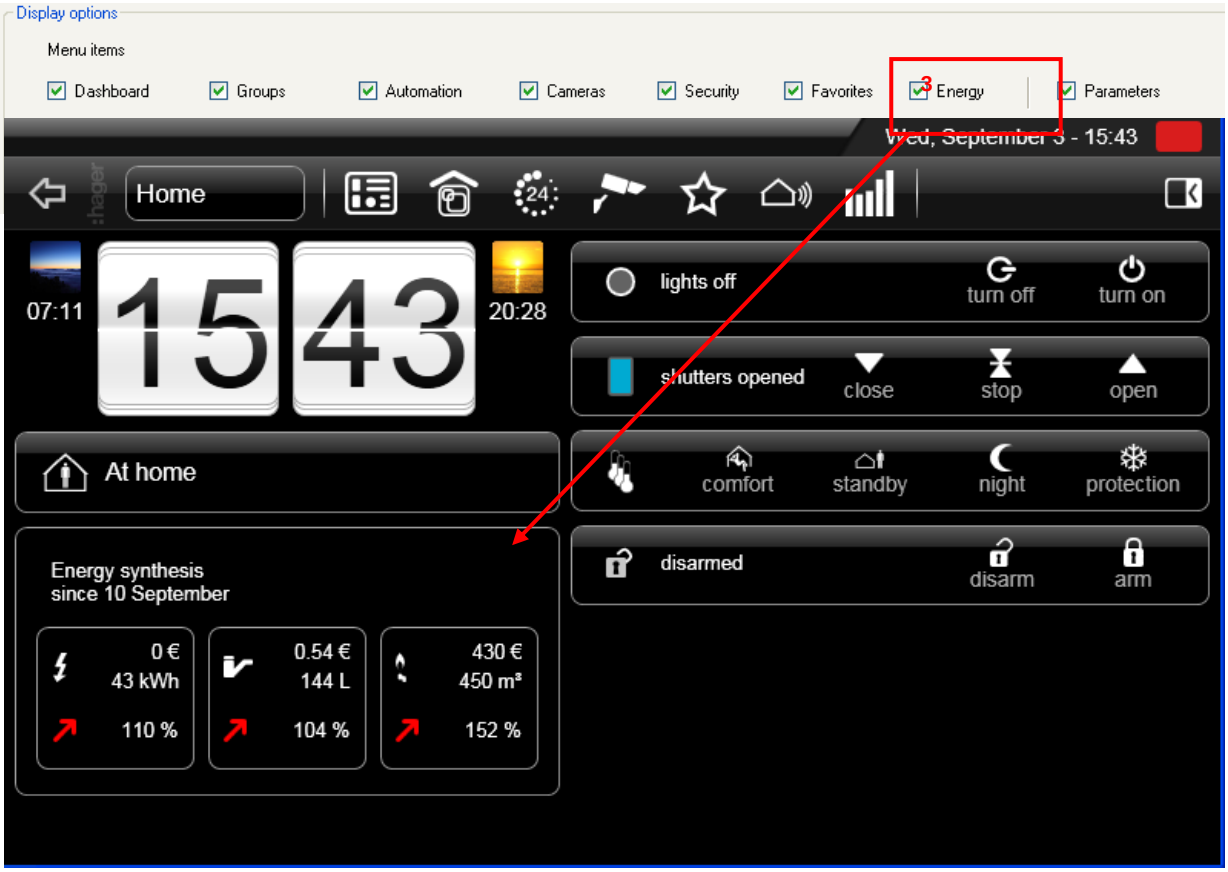
You can also display the image of one or more cameras on the dashboard:

- Check "Display cameras on dashboard" (1),
- Select the Outside and Entrance cameras (2).



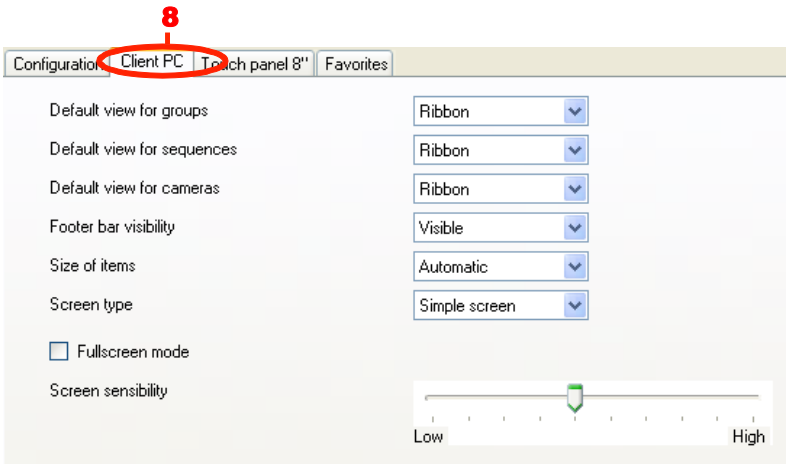
The energy overview may be viewed on the dashboard:

- Check "Energy" (3) in display options in the configurations.



Client PC display mode

The **Client PC** tab (8) allows configuration of the client domovea program operating on the PC.



Default view for groups/sequences/cameras: Allows the default display mode to be defined for the groups/sequences/cameras (ribbon, list, scheduler, mosaic).

Footer bar visibility: Display or not of the toolbar which appears at the bottom of the screen in client view.

Size of items: Allows the size of items to be selected.

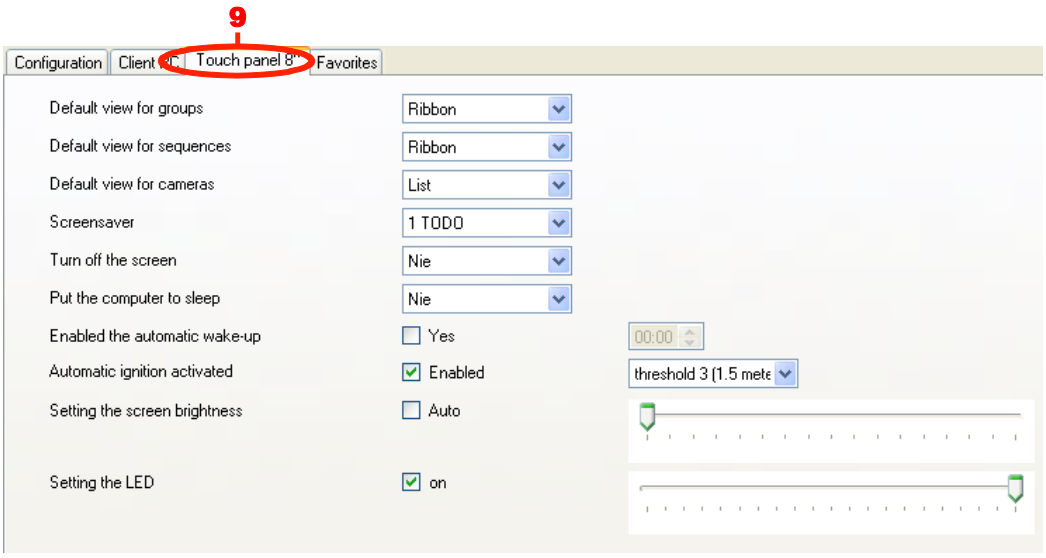
Screen type: Selection of simple screen or touchscreen use.

Fullscreen mode: Allows full-screen mode to be selected for start-up,

Screen sensibility: allows definition of the scroll sensitivity,

Touch panel display mode 8''

The **Touch panel 8''** tab (9) enables configuration of the domovea program operating on the touch panel 8'' (TJD080).



Default view for groups/sequences/cameras: Allows the default display mode to be defined for the groups/sequences/cameras (ribbon, list, scheduler, mosaic).

Screensaver/Turn off screen/Put the computer to sleep: Allows adjustment of the various power management times. There are 3 types:

- **Screensaver**': Display of the standby view
- **Turn off screen**: Turns off the screen (black screen)
- **Switch computer to standby**': Switches the CPU to standby mode

The times available are from 1 minute to 10 hours. The function is deactivated if the term '**never**' is selected

Enabling the automatic wake-up: Automatically wake up the screen at a specific time.

- YES: wake-up is activated.
- NO: wake-up is disabled.
- Wake-up time: Enter the wake-up time in the time field.

Automatic ignition activated: Automatically turns on the screen when a person approaches it physically.

- activated: detection is activated
- disabled: detection is disabled
- Wake-up screen threshold: defines the distance at which the screen leaves standby mode. Six thresholds from 0.5 m to 3 m are adjustable. When these zones are exited, the system will automatically return to standby.

Setting the screen brightness: Allows adjustment of the luminosity of the screen:

- automatic: the luminosity automatically adjusts in response to the ambient light intensity.
- manual: You can adjust the luminosity using the associated cursor.

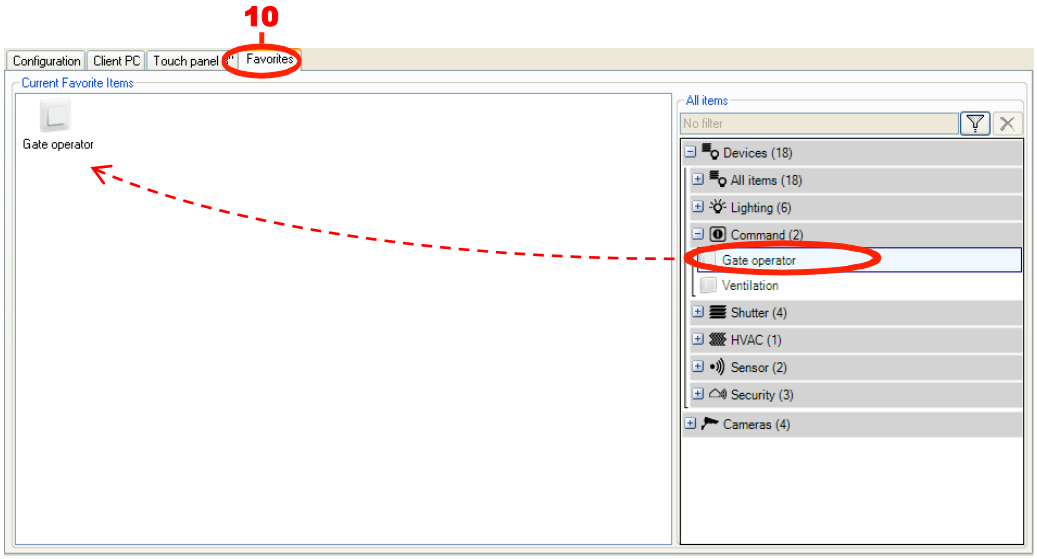
Setting the LED: Allows adjustment of the indicator light function:

- switched off: The indicator light on the front is always switched off.
- switched on: The indicator light on the front is switched on.

You can adjust the luminosity of this indicator light using the associated cursor.

Favourites

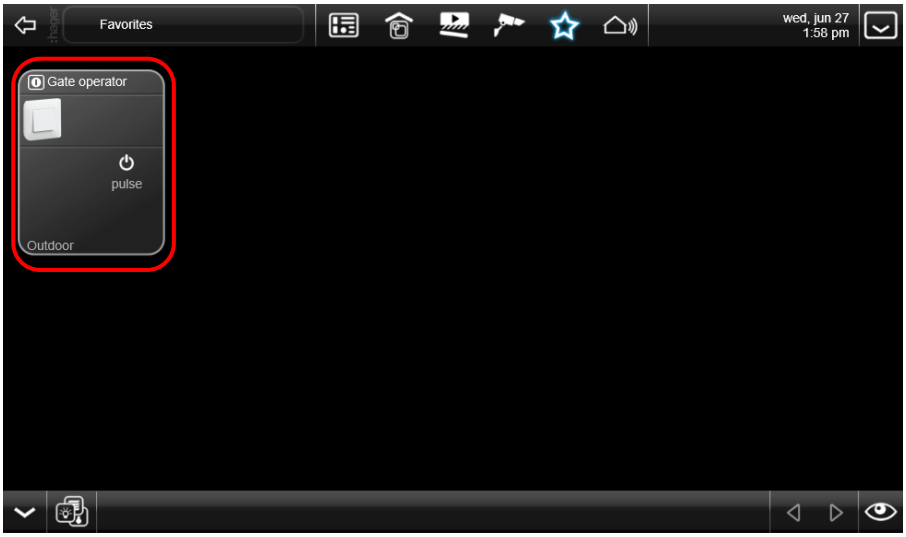
The **Favourites** tab (10) allows configuration of the favourites view for the domovea program.



To configure the devices in the **favourites** view:

- Select **Devices** in the list of links,
- Select the device of your choice,
- Drag and drop the device to the **current favorite** window.

The selected device appears in the domovea client program favorite view.

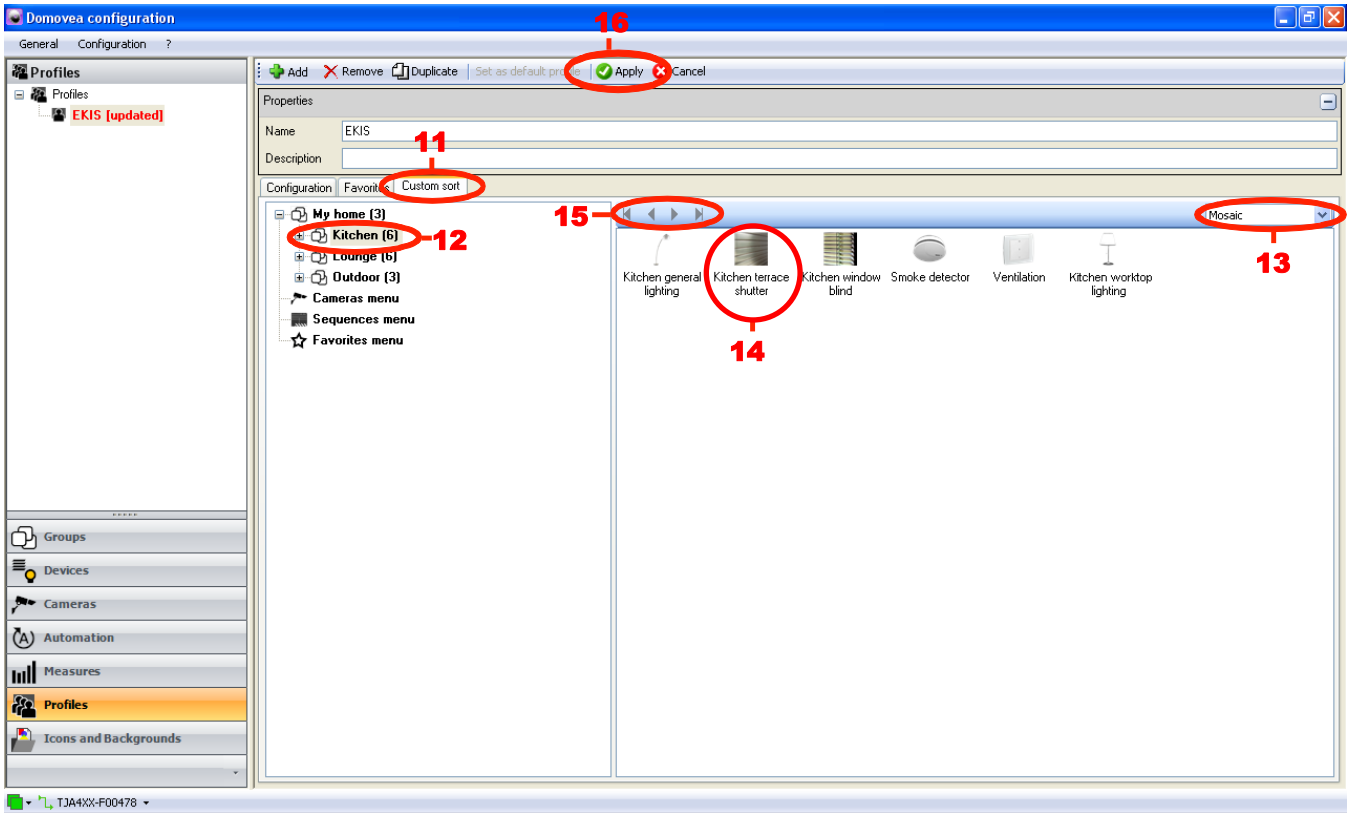


Custom Sort Display Mode

An additional **Custom sort** tab (11) appears when the display mode is selected.

To sort the icons:

- Select the device group in the tree (12),
- Select the type of view for the devices (13):
    - **Mosaic** view shows the devices as an icon with their name,
    - **Details** view shows the devices in a list with their icon, their name and description.
- Click on the device to move (14).
- Select the type of motion (15):
    - : Moves the device totally to the left (or top) of the group view,
    - : Moves the device totally to the right (or bottom) of the group view,
    - : Moves the device one place to the left (or towards the top) of the group view,
    - : Moves the device one place to the right (or towards the bottom) of the group view,
- Click **Apply** (16) to confirm the changes.



6.5 ICONS AND BACKGROUNDS

This section describes the domovea client display customization. Personal images can be imported and can be used as icons or backgrounds.

Backgrounds: To maximize the visual interface, it is necessary to adjust the background resolution to match that of the screen on which the domovea client is installed.

Three main display formats are available: 4/3, 16/9 and 8/5.

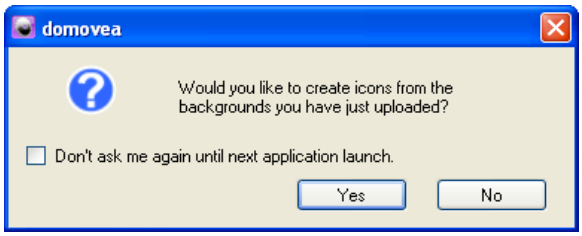
The main 4/3 resolutions are: 800x600 - 1024x768 - 1152x864 - 1280x960 and 1600x1200. For the 16/9: 1366x766 - 1920x1080 and 2048x1152. For the 8/5: 1280x800 - 1440x900 - 1680x1050 and 1920x1200.

Therefore, it is necessary to process the majority of photographs using dedicated software, to obtain an optimal image size for your screen, and to save it as the suggested image format and optimal for the domovea system, which is jpeg format.

NOTE: The size limit of a background image is set at 1 MB, but for an optimal smooth display, a maximum size of 200 KB is suggested.

To customize a background:

- Select **Icons and Backgrounds** (1) in the link list,
- Click **Add** (2) in the menu bar and select **Backgrounds**,
- Select the image file and click **Open**; A window is displayed asking whether you want to create an icon from the view



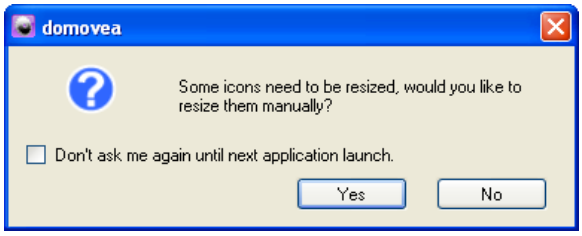
- Click on **No** to continue or **Yes** to create an icon (see paragraph **create icons**).
- Name the background using the **Name** field (3).

Icons: To customize the used icons, it is necessary to optimize their size.

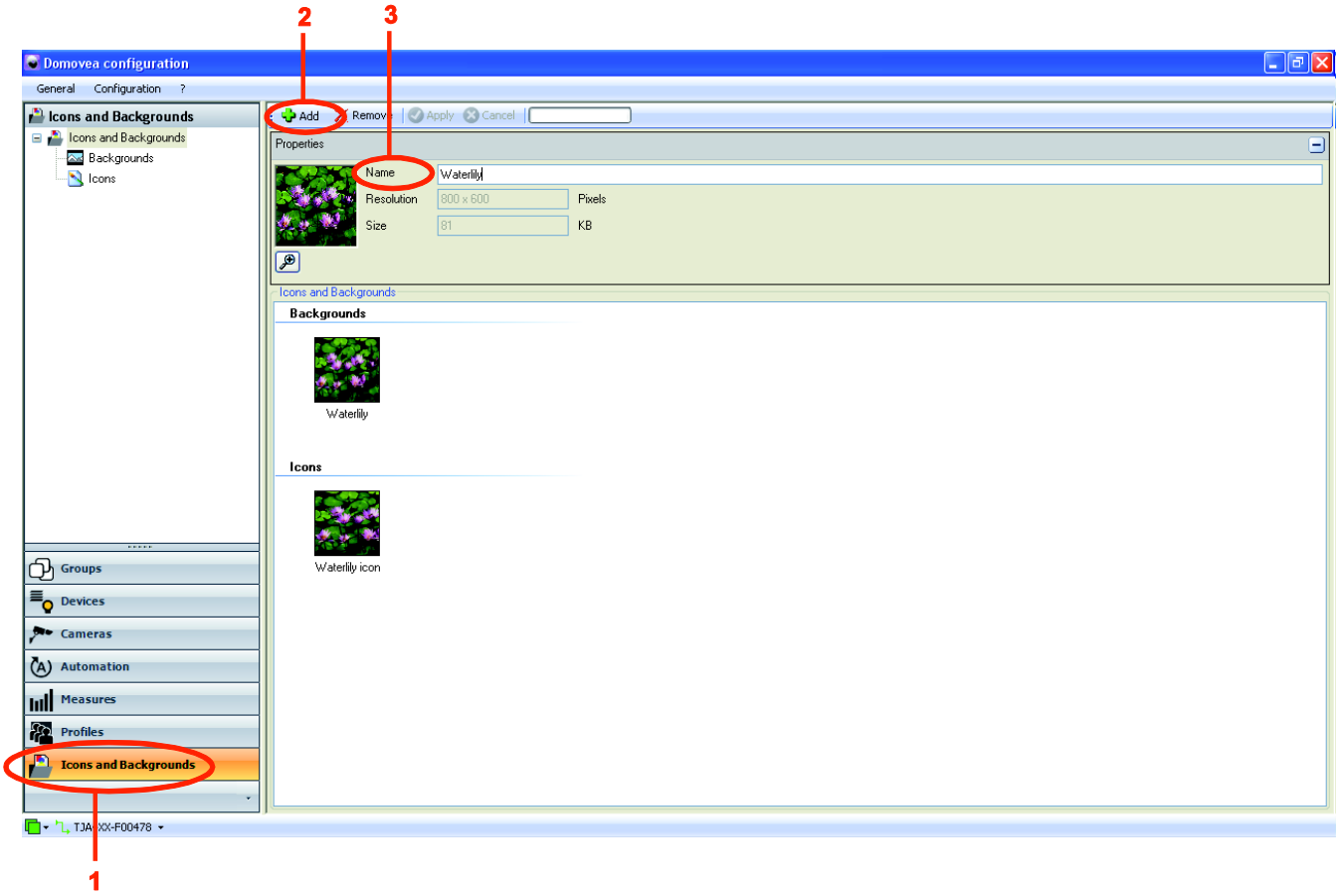
The image resolution maximum used for icons is 140x140. Jpeg is the optimal format for the domovea system.

To customize an icon:

- Select **Icons and Backgrounds** (1) in the link list,
- Click **Add** (2) in the menu bar and select **Icon,**
- Select the image file and click **Open**; A window is displayed asking whether you want to create an icon from the view

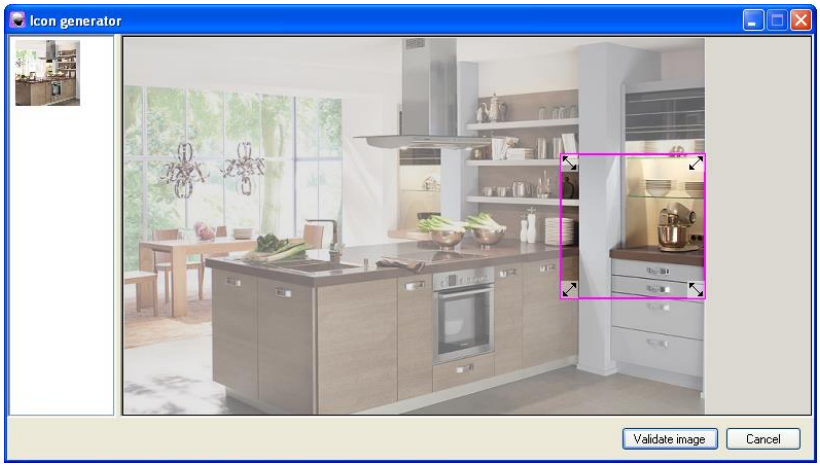


- Click on **No** to continue (in this case the icon will represent the entire image) or **Yes** to create an icon from part of the image (see paragraph **create icons**).
- Name the icon using the **Name** field (3).



Create icons: In order to customize icons, you can create your own icons from an image.

- After selecting your image, go to the **Icon generator** window as described above
- Select the part of the image representing the icon desired



- Click on **Validate image** to confirm the selection

Comment: If you click on Cancel, you will create the icon from the full image.

7. APPENDIXES

7.1 DEVICE LIST AND DETAILS

This section lists all the devices made available to the installer to create a domovea project.

The objects and parameters of each device are listed. In some cases, additional information is provided for better understanding.

NOTE: domovea cannot access the data taken from installation products. Please verify that KNX products that you wish to add to domovea offer object formats which are compatible with domovea device objects.

7.1.1 LIGHTING

Light:

Objects:

ON / OFF: ON / OFF Command (1 bit).

Status indication: Device status indication (1 bit).

Parameters:

Timer activation.

Default timer duration.

Text on the button to launch the timer: Name of the turn on button which appears on the client.

Exclude the device from general commands: Exclude the device from general commands or groups to which it belongs.

Reading of indications on KNX bus: Rate of reading the status indications on the KNX bus.

Delay after send: Waiting time after sending the command in ms.

Dimmer:

Objects:

ON / OFF: ON / OFF Command (1 bit).

Status indication: Device status indication (1 bit).

Dimming value: Lighting value command (1 byte).

Dimming value indication: Current lighting value indication (1 byte).

Parameters:

Step of light intensity: Allows you to set the dimming rate to increase/ decrease the brightness.

Timer activation.

Default timer duration.

Start label: Name of the timer start button which appears on the client.

Exclude the device from general commands: Exclude the device from general commands or groups to which it belongs.

Reading of indications on KNX bus: Rate of readout of the status indications on the KNX bus.

Delay after send: Waiting time after sending the command in ms.

Relative dimmer:

Objects:

ON / OFF: ON / OFF Command (1 bit).

Status indication: Device status indication (1 bit).

Dimming value: Dimming command (4 bits).

Dimming indication: Current lighting value indication (1 byte).

Parameters:

Step of light intensity: Allows you to set the dimming rate to increase/ decrease the brightness.

Timer activation.

Default timer duration.

Start label: Name of the timer start button which appears on the client.

Exclude the device from general commands: Exclude the device from general commands or groups to which it belongs.

Reading of indications on KNX bus: Rate of readout of the status indications on the KNX bus.

Delay after send: Waiting time after sending the command in ms.

RGB light :

Objects:

Red (or green, or blue) ON / OFF: ON / OFF Command (1 bit).

Red (or green, or blue) Status indication: Device status indication (1 bit).

Red (or green, or blue) value: Dimming command (1 byte).

Red (or green, or blue) value indication: Current lighting value indication (1 byte).

Parameters:

Step of light intensity: Allows you to set the dimming rate to increase/ decrease the brightness.

Timer activation.

Default timer duration.

Start label: Name of the timer start button which appears on the client.

Exclude the device from general commands: Exclude the device from general commands or groups to which it belongs.

Reading of indications on KNX bus: Rate of readout of the status indications on the KNX bus.

Delay after send: Waiting time after sending the command in ms.

7.1.2 SWITCHED SOCKET

Binary Output:

Objects:

ON / OFF: ON / OFF Command (1 bit).

Status indication: Device status indication (1 bit).

Parameters:

ON Message: Name that appears in the status indication on the client and which is set to the ON value.

OFF Message: Name that appears in the status indication on the client and which is set the OFF value.

Timer activation.

Default timer duration.

Start label: Name of the turn on button which appears on the clie

Reading of indications on KNX bus: Rate of readout of the status indications on the KNX bus.

Delay after send: Waiting time after sending the command in ms.

7.1.3 COMMAND

Dead man:

Objects:

Up / Down: Up / Down command (1 bit).

Stop: Stop or Slat angle / Stop command (1 bit).

Parameters:

Text on the open button: Name of the open button which appears on the client.

Text on the close button: Name of the close button which appears on the client.

Delay after send: Waiting time after sending the command in ms.

Pulse:

Objects:

ON / OFF: ON / OFF Command (1 bit).

Parameters:

Text on the turn on button: Name of the turn on button which appears on the client.

Pulse duration.

Delay after send: Waiting time after sending the command in ms.

On / Off:

Objects:

ON / OFF: ON / OFF Command (1 bit).

Parameters:

Text on the turn on button: Name of the turn on button which appears on the client.

Text on the turn off button: Name of the turn off button which appears on the client.

Delay after send: Waiting time after sending the command in ms.

7.1.4 SHUTTER

Other shutter:

Objects:

Up / Down: Up / Down command (1 bit).

Status indication: Device status indication (1 byte or 2 x 1 bit).

Stop: Stop command (1 bit).

Activation of automatisms: Activation of shadow tracking and warmth protection/recuperation automatisms (only useful if weather comfort device has been created) (1 bit).

Indication of automatism activation: The indication of the activation of shadow tracking and warmth protection/recuperation automatisms (only useful if weather comfort device has been created) (1 bit).

Parameters:

Type of state indication - None, 1 byte or 2 x 1 bit: Allows you to select the format of state indication objects.

Using the shadow tracking function: Allows you to define the facade on which the shutter will be placed to show the corresponding state indication (only useful if weather comfort device has been created).

Using the warmth protection/recuperation function: Allows you to show the corresponding state indication (only useful if weather comfort device has been created).

Using the wind alarm: Allows you to choose whether to show the corresponding state indications for the wind alarm (only useful if weather station device has been created).

Using the frost alarm: Allows you to choose whether to show the corresponding state indications for the frost alarm (only useful if weather station device has been created).

Exclude the device from general commands: Exclude the device from general commands or groups to which it belongs.

Reading of indications on KNX bus: Rate of readout of the status indications on the KNX bus.

Delay after send: Waiting time after sending the command in ms.

Extended Shutter:

Objects:

Up / Down: Up / Down command (1 bit).

Status indication: Device status indication (1 byte or 2 x 1 bit).

Stop: Stop command (1 bit).

Position in %: Position command in % (1 byte).

Indication of position in %: Indication of the position state in % (1 byte).

Activation of automatisms: Activation of shadow tracking and warmth protection/recuperation automatisms (only useful if weather comfort device has been created) (1 bit).

Indication of automatism activation: The indication of the activation of shadow tracking and warmth protection/recuperation automatisms (only useful if weather comfort device has been created) (1 bit).

Parameters:

Type of state indication - None, 1 byte or 2 x 1 bit: Allows you to select the format of state indication objects.

Active position: Used to define if you wish to use positioning objects or not.

Up / Down rate: Allows you to set the variation rate to move the shutter up/ down.

Using the shadow tracking function: Allows you to define the facade on which the shutter will be placed to show the corresponding state indication (only useful if weather comfort device has been created).

Using the warmth protection/recuperation function: Allows you to show the corresponding state indication (only useful if weather comfort device has been created).

Using the wind alarm: Allows you to choose whether to show the corresponding state indications for the wind alarm (only useful if weather station device has been created).

Using the frost alarm: Allows you to choose whether to show the corresponding state indications for the frost alarm (only useful if weather station device has been created).

Exclude the device from general commands: Exclude the device from general commands or groups to which it belongs.

Reading of indications on KNX bus: Rate of readout of the status indications on the KNX bus.

Delay after send: Waiting time after sending the command in ms.

Extended Shutter / Blind:

Objects:

Up / Down: Up / Down command (1 bit).

Status indication: Device status indication (1 byte or 2 x 1 bit).

Stop: Stop or Slat angle / Stop command (1 bit).

Position in %: Position in % command (1 byte).

Position indication in % : Indication of the position state in % (1 byte).

Slat angle in: Slat angle command in % or in ° (1 byte).

Slat angle indication : Indication of the position state in % or in ° (1 byte).

Activation of automatisms: Activation of shadow tracking and warmth protection/recuperation automatisms (only useful if weather comfort device has been created) (1 bit).

Indication of automatism activation: The indication of the activation of shadow tracking and warmth protection/recuperation automatisms (only useful if weather comfort device has been created) (1 bit).

Parameters:

Type of state indication - None, 1 byte or 2 x 1 bit: Allows you to select the format of state indication objects.

Manage the position and slat angle: Used to define the method used to manage the position and slat angle of the blind (position and angle as a % or position as a % and angle in °).

Up / Down rate: Allows you to set the variation rate to move the blind up / down.

Using the shadow tracking function: Allows you to define the facade on which the shutter will be placed to show the corresponding state indication (only useful if weather comfort device has been created).

Using the warmth protection/recuperation function: Allows you to show the corresponding state indication (only useful if weather comfort device has been created).

Using the wind alarm: Allows you to choose whether to show the corresponding state indications for the wind alarm (only useful if weather station device has been created).

Using the frost alarm: Allows you to choose whether to show the corresponding state indications for the frost alarm (only useful if weather station device has been created).

Exclude the device from general commands: Exclude the device from general commands or groups to which it belongs.

Reading of indications on KNX bus: Rate of readout of the status indications on the KNX bus.

Delay after send: Waiting time after sending the command in ms.

Weather comfort:

Objects:

Shadow tracking - facade x: Activation of shadow tracking mode for relevant facade (1 bit).

Shadow tracking indication - facade x: Indication of activation state for shadow tracking mode for relevant facade (1 bit).

Warmth protection/recuperation: Activation of warmth protection/recuperation mode (1 bit).

Indication of warmth protection/recuperation: Indication of activation state for warmth protection/recuperation mode (1 bit).

Indication of warmth protection/recuperation in progress: Indication of warmth protection/recuperation mode state. This is to say, the mode is enabled and as the temperature and luminosity conditions are satisfied, the mode is in progress (1 bit).

Settings:

Facade names (personalized section)

Using the shadow tracking functions: Allows you to hide corresponding objects.

Using the warmth protection/recuperation functions: Allows you to hide corresponding objects.

Reading state indications on KNX bus: Frequency of reading state indications on KNX bus.

Delay after sending: Waiting time after sending order in ms.

NOTE: This device is intended to function with the TXE530 Hager weather station

7.1.5 HVAC

Water heating control:

Objects:

Override: Override the device to stop (2 bits).

Exemption: Launch an exemption (or relaunch) (1 bit).

Status indication: Device status indication (1 bit).

Current mode: Current mode indication (1 byte).

Parameters:

Reading of indications on KNX bus: Rate of readout of the status indications on the KNX bus.

Delay after send: Waiting time after sending the command in ms.

Global heating control:

Objects in the Configuration tab:

Heating Zone – ON / OFF: Turn on / turn off all heating zones (1 bit).

Load shedding- status indication: Load shedding status indication (1 bit).

Heating zone – Current mode: Status indication of all heating zones (auto, none, manual, etc.) (1 byte).

Objects in Zone X tabs:

Zone name: Allows you to name the selected area.

Current setpoint: Current setpoint indication (2 bytes).

Current temperature: Current setpoint indication (2 bytes).

Current mode: Current mode indication (1 byte).

Parameters in the Configuration tab:

Reading of indications on KNX bus: Rate of readout of the status indications on the KNX bus.

Delay after send: Waiting time after sending the command in ms.

Temperature unit.

Thermometer:

Objects:

Temperature indication: Room temperature indication (2 bytes).

Parameters:

Temperature unit.

Reading of indications on KNX bus: Rate of readout of the status indications on the KNX bus.

Thermostat:

Objects:

Name	Size
Heating/Air conditioning	1 bit
Heating/Air conditioning Indication	1 bit
Mode selection (comfort/eco/night/protection)	1 byte
Mode indication	1 byte
Comfort mode	1 bit
Economy mode	1 bit
Night mode	1 bit
Frost protection/Warmth protection mode	1 bit
Comfort set point temperature adjustment - heating mode	2 bytes
Eco set point temperature adjustment - heating mode	2 bytes
Night set point temperature adjustment - heating mode	2 bytes
Frost protection set point temperature adjustment - heating mode	2 bytes
Comfort set point temperature adjustment - air conditioned mode	2 bytes
Eco set point temperature adjustment - air conditioned mode	2 bytes
Night set point temperature adjustment - air conditioned mode	2 bytes
Frost protection set point temperature adjustment - air conditioned mode	2 bytes
Comfort set point temperature indication - heating mode	2 bytes

Eco set point temperature indication - heating mode	2 bytes
Night set point temperature indication - heating mode	2 bytes
Frost protection set point temperature indication - heating mode	2 bytes
Comfort set point temperature indication - air conditioned mode	2 bytes
Eco set point temperature indication - air conditioned mode	2 bytes
Night set point temperature indication - air conditioned mode	2 bytes
Frost protection set point temperature indication - air conditioned mode	2 bytes
Set point temperature 8 bytes - heating mode	8 bytes
Set point temperature indication 8 bytes - heating mode	8 bytes
Set point temperature 8 bytes - air conditioned mode	8 bytes
Set point temperature indication 8 bytes - air conditioned mode	8 bytes
Difference	2 bytes
Difference indication	2 bytes
Ambient temperature	2 bytes
Heating in progress	1 bit
Air conditioning in progress	1 bit

Parameters:

Name	Values
Type of thermostat	Hager/Berker/ATC/Personalized
Type of installation	Heating/Air conditioning/Heating & Air conditioning
Functioning mode format (Comfort, Eco, Night, Protection)	Do not use the functioning mode/1 byte/4 x 1 bit
Type of return state	Do not use return state/functioning mode/advanced
Selection method for the set point temperature	Do not adjust/Directly/in increments of 0.5°/ATC 1 byte/ATC 8 bytes
Operation light	Use/Do not use
Set point temperature base	7 to 40
Adjustment range for the set point temperature	-10;+10 to -0.5;+0.5 (-3;+3 by default)
Temperature unit	°C/°F

The "type of thermostat" setting determines the display of other settings (masking of settings or of some settings):

Name	Hager Thermostat	Berker Thermostat	Thermostat ATC	Personalized Thermostat
Type of installation	Heating/Air conditioning/Heating & Air conditioning	Heating/Air conditioning/Heating & Air conditioning	Heating/Air conditioning/Heating & Air conditioning	Heating/Air conditioning/Heating & Air conditioning
Functioning mode format (Comfort, Economy, Night, Protection)	Do not use/1 byte	Do not use/1 byte/4 x 1 bit	Do not use/1 byte	Do not use/1 byte/4 x 1 bit
Type of return state	Do not use/normal	Do not use/advanced	Do not use/normal	Do not use/normal/advanced
Selection method for the set point temperature	Do not adjust/directly	Do not adjust/directly/in increments of 0.5°	Do not adjust/ATC 1 byte/ATC 8 bytes	Do not adjust/directly/in increments of 0.5°/ATC 1 byte/ATC 8 bytes
Operation light	Use/Do not use	Use/Do not use	Use/Do not use	Use/Do not use
Set point temperature base	-	Yes (if type of state of return = advanced)	-	Yes (if type of state of return = advanced)
Adjustment range for the set point temperature	-	Yes	Yes	Yes
Temperature unit	Yes	Yes	Yes	Yes

7.1.6 Ventilation

The device ventilation parameters must be set according to the KNX participant used. The group address format depends on the parameters selected.

Parameters:

Name	Values	Default value
Number of ventilation speeds	1 to 6	2
Activation of general on/off	Yes/No	No
Ventilation speed selection type	Percentage, ON/OFF	Percentage
Ventilation speed recurrence type	Do not use recurrence, ON/OFF, Value, Percentage	Value

* if not used, the client's on/off buttons will directly set the ventilation speed.

Objects:

If the "ventilation speed selection type" parameter is set to "Percentage":

Name	Size	Resolution	Value
ON/OFF*	1 bit	1	0 or 1
Ventilation speed	1 byte	1	0 to 100

If the "ventilation speed selection type" parameter is set to "ON/OFF":

Name	Size	Resolution	Value
ON/OFF*	1 bit	1	0 or 1
Speed 1	1 bit	1	0 or 1
Speed 2**	1 bit	1	0 or 1
Speed 3**	1 bit	1	0 or 1
Speed 4**	1 bit	1	0 or 1
Speed 5**	1 bit	1	0 or 1
Speed 6**	1 bit	1	0 or 1

***** If activated in the settings

** If number of speeds selected via settings.

If the "ventilation speed return type" parameter is set to "Value":

Name	Size	Resolution	Value
Indication of state	1 bit	1	0 or 1
Indication of ventilation speed	1 byte	1	1 to 6

If the "ventilation speed return type" parameter is set to "Percentage":

Name	Size	Resolution	Value
Indication of state	1 bit	1	0 or 1
Indication of ventilation speed	1 byte	1	0 to 100

If the "ventilation speed return type" parameter is set to "ON/OFF":

Name	Size	Resolution	Value
Indication of state	1 bit	1	0 or 1
Return state speed 1	1 bit	1	0 or 1
Return state speed 2*	1 bit	1	0 or 1
Return state speed 3*	1 bit	1	0 or 1
Return state speed 4*	1 bit	1	0 or 1
Return state speed 5*	1 bit	1	0 or 1
Return state speed 6*	1 bit	1	0 or 1

* If number of speeds set via parameters

If several states provide a value of 1, use the highest speed.

Turbo Function:

A timer must be set (see light fixture), this timer will act as a "turbo" function.

A chosen speed value will be activated for a configured time.

At the end of the timer, the device will reactivate the speed selected before it starts up.

The speed value and the time on the timer may be set in the configuration section and for the clients (in the device settings).

7.1.7 KNX SCENE

KNX scene:

Objects:

Scene (1 byte).

Scene Login: Scene number.

Parameters:

Delay after send: Waiting time after sending the command in ms.

7.1.8 ENERGY MANAGEMENT

For more details, see "Energy" document.

7.1.9 SENSOR

Wind speed sensor:

Objects:

Wind speed indicator (2 bytes).

Parameters:

Speed unit.

Reading of indications on KNX bus: Rate of readout of the status indications on the KNX bus.

CO2 sensor:

Objects:

CO2 concentration indication (2 bytes).

Parameters:

Readout of the status indications on the KNX bus: Rate of readout of the status indications on the KNX bus.

Luminosity sensor:

Objects:

Luminosity indication (2 bytes).

Parameters:

Reading of indications on KNX bus: Rate of readout of the status indications on the KNX bus.

Humidity Sensor:

Objects:

Humidity indication (2 bytes).

Parameters:

Reading of indications on KNX bus: Rate of readout of the status indications on the KNX bus.

Rain sensor:

Objects:

Rain indication (1 bit).

Parameters:

Readout of the status indications on the KNX bus: Rate of readout of the status indications on the KNX bus.

Binary input:

Objects:

Status indication: Device status indication (1 bit).

Parameters:

Input behaviour: Defines binary input behaviour.

ON Message: Message corresponding to ON value.

OFF Message: Message corresponding to OFF value.

Reading of indications on KNX bus: Rate of readout of the status indications on the KNX bus.

Weather Station:

Objects:

Brightness indication (2 bytes).

No rain indication (1 bit).

Temperature indication (2 bytes).

Wind speed indicator (2 bytes).

Wind alarm (1 bit).

Frost alarm (1 bit).

Parameters:

Using the wind alarm.

Using the frost alarm.

Temperature unit.

Speed unit.

Reading of indications on KNX bus: Rate of readout of the status indications on the KNX bus.

7.1.10 SECURITY

Alarm sensor:

Objects:

Alarm indication (1 bit).

Parameters:

ON Message: Name that appears in the status indication on the client and which is set to the ON value.

OFF Message: Name that appears in the status indication on the client and which is set the OFF value.

Reading of indications on KNX bus: Rate of readout of the status indications on the KNX bus.

Intrusion alarm manager:

Objects:

ON / OFF: ON / OFF Command (1 bit).

Alarm centre status indication (1 bit).

Issue opened : *Fault origin indication* (1 bit).

Anomaly: Indication on default origin (1 bit).

Weak pre-alarm: Indication on default origin (1 bit).

Strong pre-alarm: Indication on default origin (1 bit).

Intrusion: Indication on default origin (1 bit).

Intrusion confirmed: Indication on default origin (1 bit).

Alert: Indication on default origin (1 bit).

Silent alarm: Indication on default origin (1 bit).

Fire alarm: Indication on default origin (1 bit).

Technical alarm: Indication on default origin (1 bit).

Objects per zone (maximum 4 zones):

Zone name (personalized text area) On/Off (1 bit)

State On/Off (1 bit)

Parameters:

Reading of indications on KNX bus: Rate of readout of the status indications on the KNX bus.

Delay after send: Waiting time after sending the command in ms.

7.1.11 Others

Priority:

Objects:

Override (2 bits).

Parameters:

Override start message: Message corresponding to the override Start operation.

Override end message: Message corresponding to the override End operation

Override mode.

Delay after send: Waiting time after sending the command in ms.

Audio Zone:

Objects:

ON / OFF: ON / OFF Command (1 bit).

Status indication: Device status indication (1 bit).

Volume: Volume command (1 byte).

Volume indication (1 byte).

Mute mode: Mute mode command (1 bit).

Mute mode indication: Indication of silent mode state (1 bit).

Next / Previous source: Next / Previous source command (1 bit).

Parameters:

No volume change: Sets varying pace to increase / decrease the sound volume.

Reading of indications on KNX bus: Rate of readout of the status indications on the KNX bus.

Delay after send: Waiting time after sending the command in ms.

Generic device :

Objects :

Write: address used to write the value on the bus.

Read: address used for reading a value from the bus.

Parameters :

Read / write mode: Allows you to select the type of action to perform (read only, write only, or both).

Communication mode : Allows you to select the mode to use (use the bus or virtual device).

Value Format: Allows you to define the type of data (datapoint type to use).

Unsigned Value, scaled values : Percent, angle, etc… [0-255] (1 Byte)

Signed Value [-128,127] (1 Byte)

Unsigned Value [0-65535] (2 Bytes)

Signed counter value [-32768,32767] (2 Bytes)

Float Value used for temperatures [-671088.64, 670760.96] (2 Bytes)

Unsigned Value [0,4294967295] (4 Bytes)

Signed Value [-2147483648,2147483647] (4 Bytes)

Float Value [-2.14748 e+009,2.14748 e+009] (4 Bytes)

String Value (14 Bytes)

Unit : Free field used to fill the unit.

Roundisch: allows to automatically round a value.

Reading of indications on KNX bus: Rate of readout of the status indications on the KNX bus.

Delay after send: Waiting time after sending the command in ms.