

myTEM SmartHome

myTEM PlanTool

A large graphic featuring a grey silhouette of a house with a chimney on the right side. The background behind the house is a gradient from green on the left to yellow on the right. The text 'myTEM SmartHome' is centered within the house silhouette.

myTEM
SmartHome

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1 Introduction

The Plan Tool supports planners in the simple configuration of the entire Smart Homes system. It offers the possibility to graphically plan an entire house with the desired equipment across different floors and rooms. With a simple configuration, the different systems are determined according to the customer's needs as wired (IO), radio and free topology (FT) components.

The device functions are defined more precisely, whether it is only inputs or outputs (e.g. IO module) or a complete device (radio motion, radio siren).

The finished planning can be sent directly to the server for direct execution or exported to the Prog Tool for further processing.

The programme automatically calculates the number of IO ports required and defines the IO modules for wired configurations. In this way, switches can be placed in the rooms.

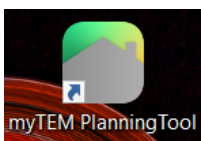
For FT, the cable length and the number of devices must be taken into account. (500m, 50 devices)

Devices, for example Z-Wave, are very easy to integrate without configuration.

A parts list of the required devices is automatically created. The prices are stored and an offer can be created immediately.

2 Start

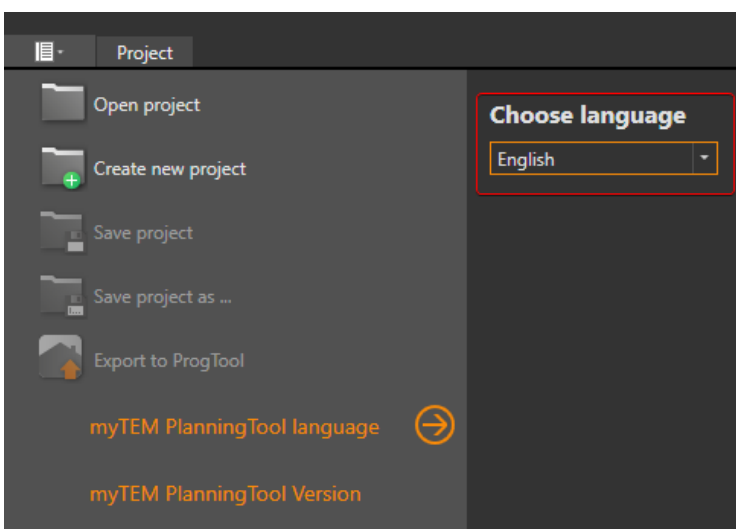
Local administrator rights are required to install the PlanTool. This is how the icon appears on the desktop.



The programme can be called up several times. In this way, different projects can be worked on at the same time.

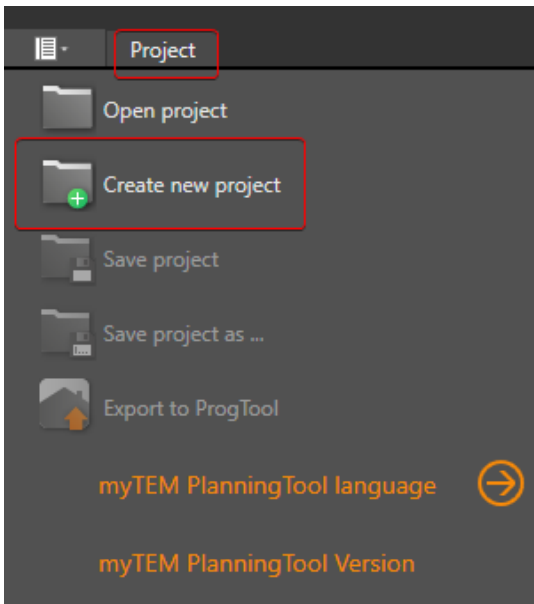
3 Select language

Select the desired language. After the first use of PlanTool, the last selected language will be recognized by the system as the default language. The language can be changed at any time.

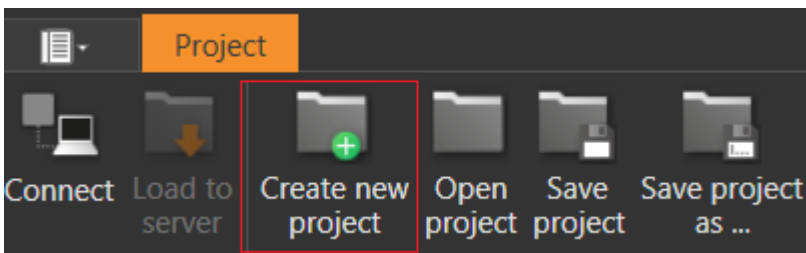


4 New project

To create a new project, select "Create new project".

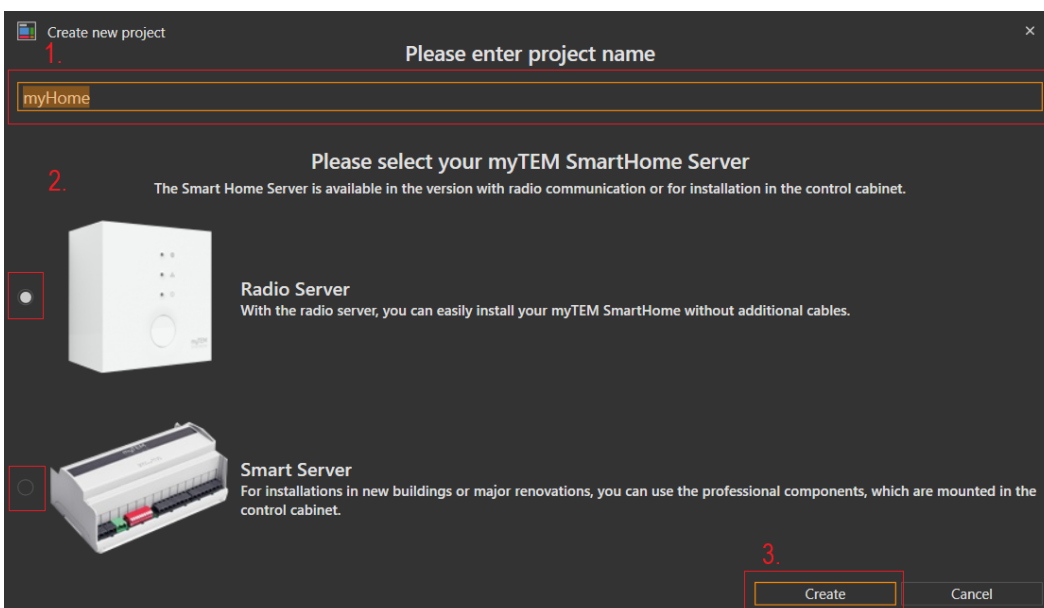


Alternatively, first select "Project" and then "Create new project" in the menu to open the project.



A new window opens in which the first settings can be made.

1. Enter the project title.
2. Select the server type. Server type can also be changed later.
3. An "empty" project is created.

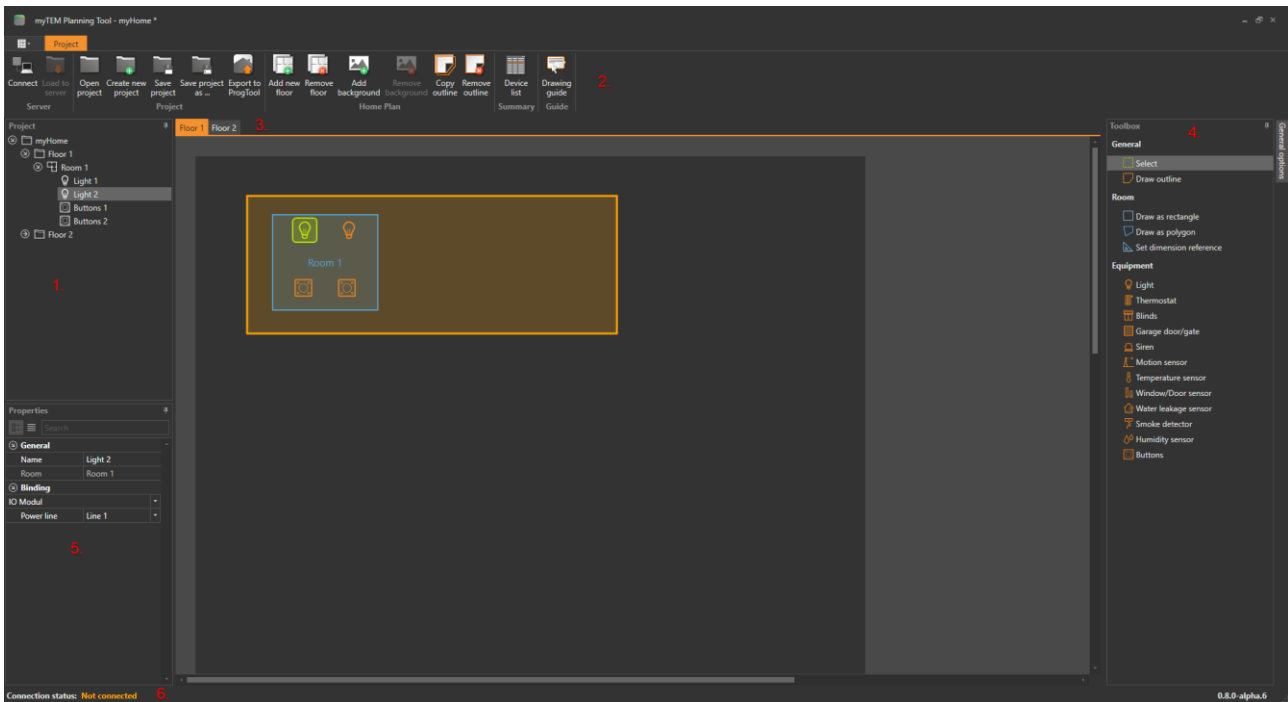


4.1 First steps

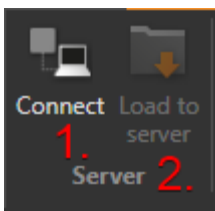
4.1.1 Programm overview

The tool is divided into the following main menus:

1. Project tree: For the administration of the project, i.e. floors, rooms, and devices.
2. Menu bar
3. Floors
4. Toolbox with drawing functions and equipment (sensors and actuators)
5. Properties window: This changes depending on the selected element in the drawing
6. Shows the connection status to the radio server or smart server

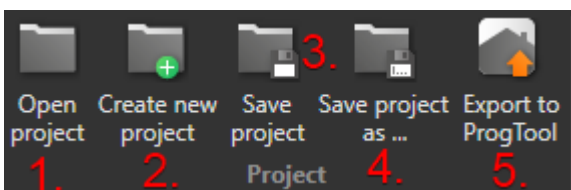


5 Server menu



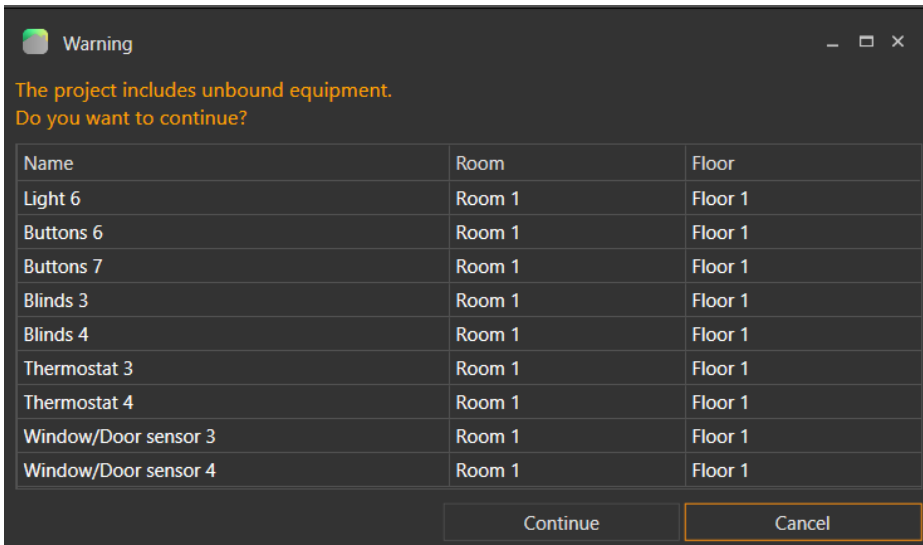
1. Connect to a Server
2. Load project to Server (Server → PC)

6 Project menu

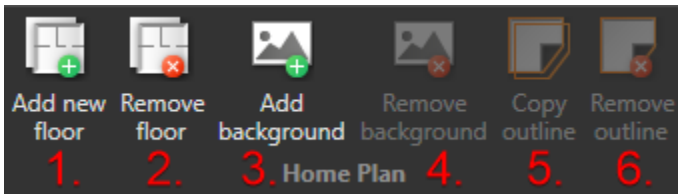


1. Create a new project
2. Open an existing project

3. Save project
4. Save project under a new name
5. Export to the ProgTool (Plausibility test is performed in order to test if unconnected equipment was found)



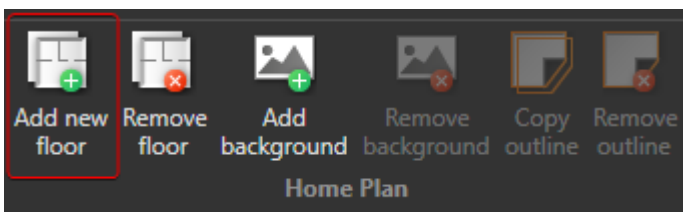
7 Home Plan menu



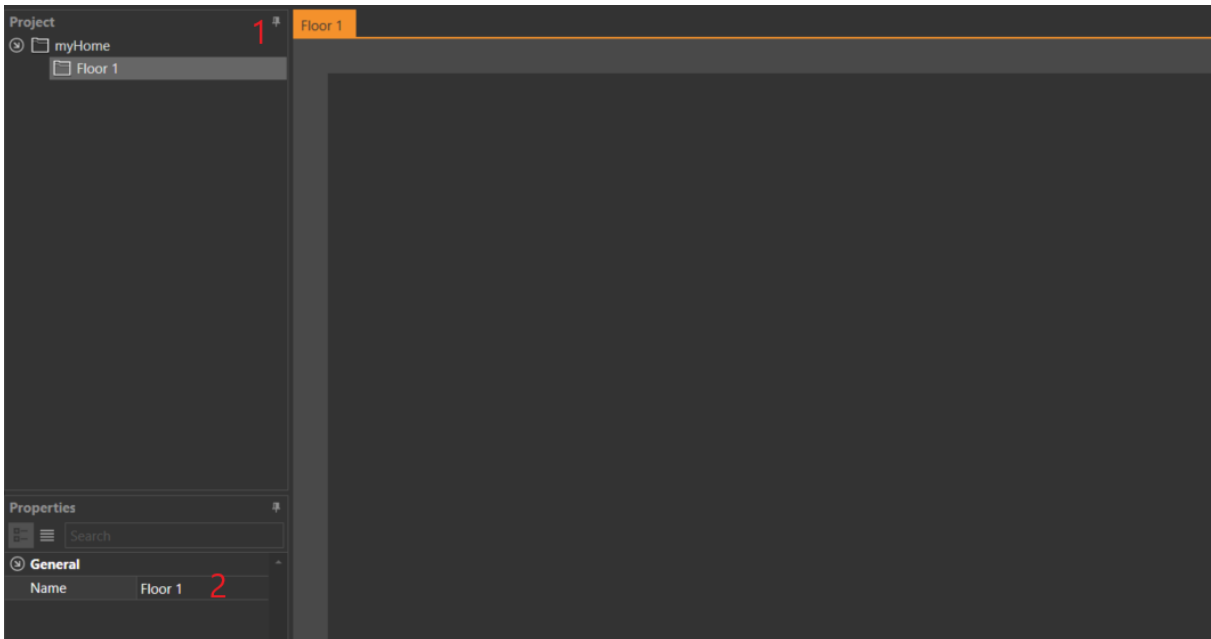
1. Create a new floor
2. Remove floor
3. Add background (Floor Plan)
4. Remove background
5. Copy the boundary line
6. Remove the boundary line

7.1 Add new floor

Any number of floors can be created.

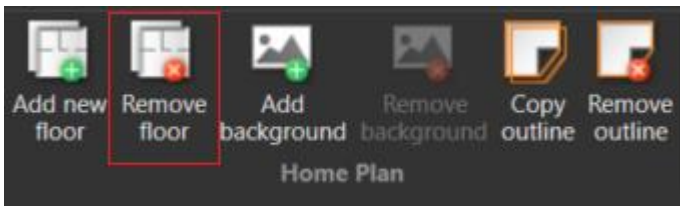


Via the menu "Create new floor", a new floor (1) is created directly and an empty drawing sheet appears.

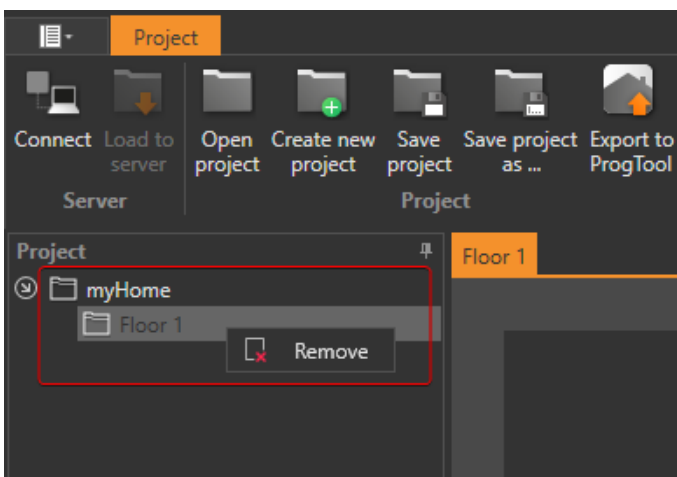


The floor name can be adjusted under Properties in the "Name" field (2).

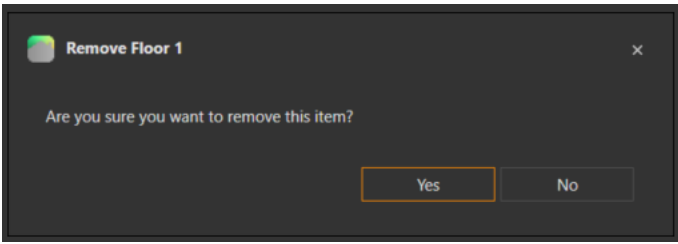
7.2 Remove floor



Or by right-clicking with the mouse button in the left menu.

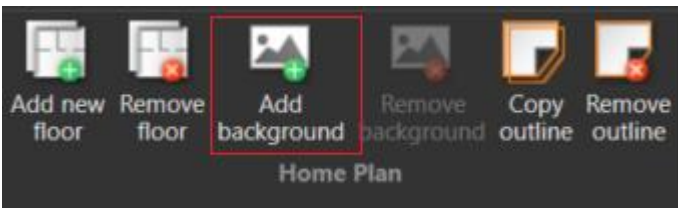


In both cases, the security prompt appears.



7.3 Background

The 2D floor plan of one of the current objects can be loaded here.

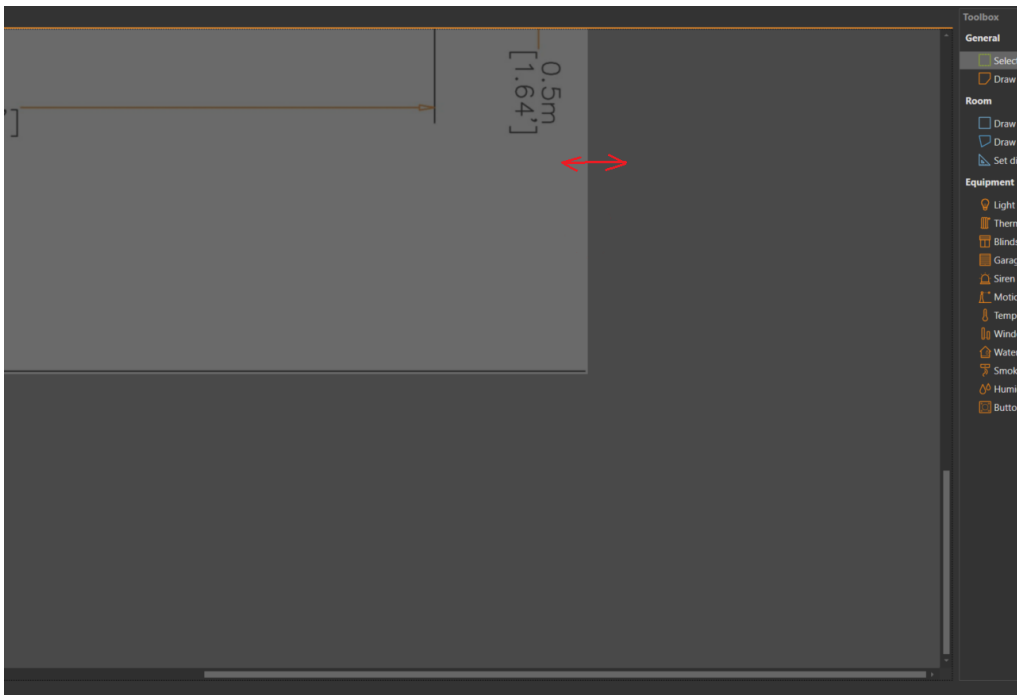


With the help of the loaded floor plan, rooms with the desired equipment can be drawn in, for example.

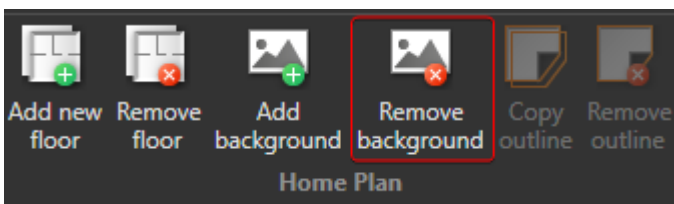


7.3.1 Scaling the background

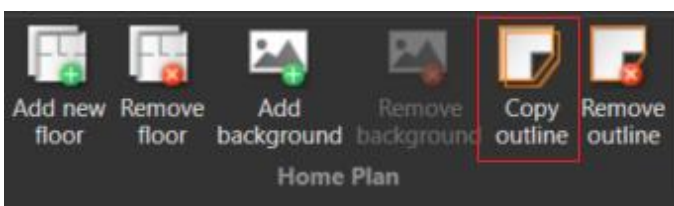
Performed from right to left and from bottom to top.



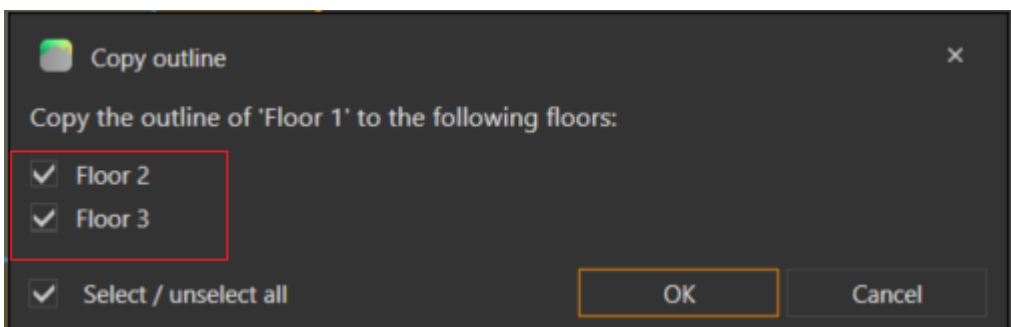
7.4 Remove background



7.5 Copy outline

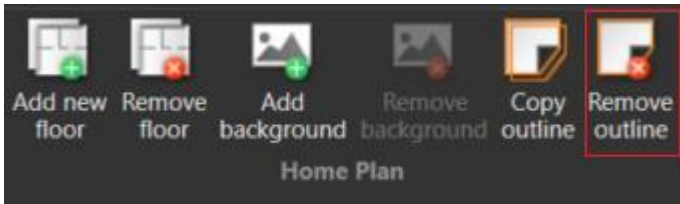


The boundary line can be copied to other floors. There must be at least one other floor for the "copy outline" icon to appear.

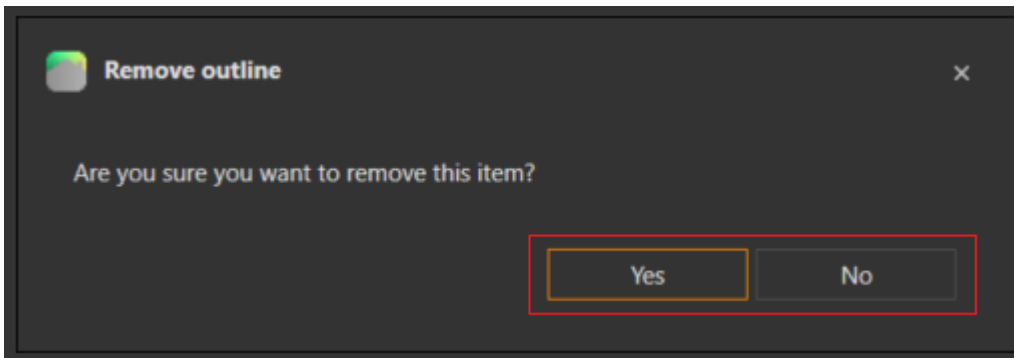


7.6 Remove outline

If a boundary line has been created via "Draw Outline" in the right menu Toolbox under General (see Toolbox), it can be removed again.

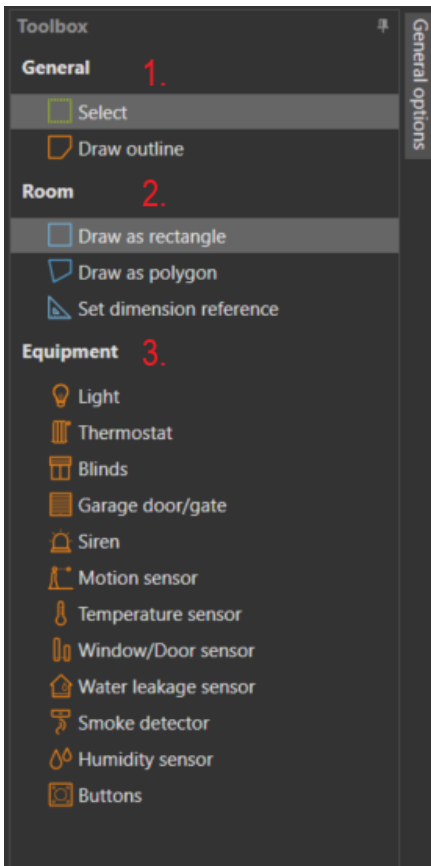


A security prompt appears.



8 Toolbox

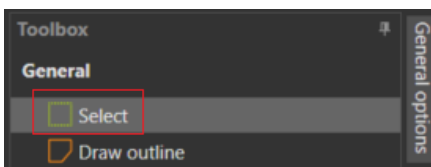
The toolbox contains all elements for selecting rooms, drawing boundary lines (1 boundary line per floor), drawing rooms and assigning equipment.



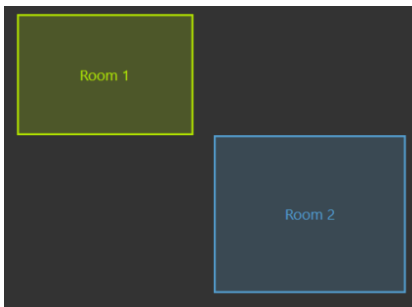
1. General: To select a room and to draw the boundary line
2. Room: For drawing the room and setting the reference dimension
3. Equipment: To define the inputs and outputs

8.1 Toolbox: General

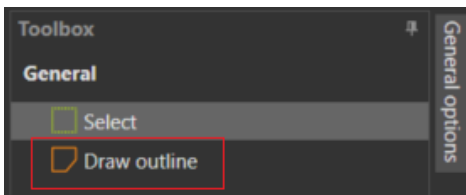
8.1.1 Select room for changes



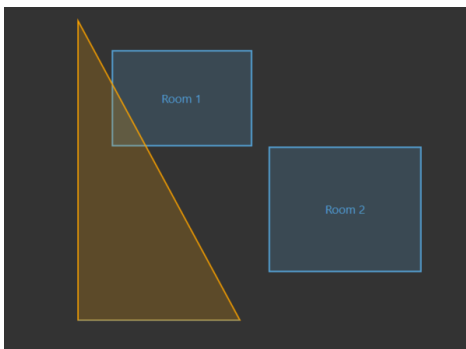
The colour of the selected room changes from blue to light green and can then be changed in size and position.



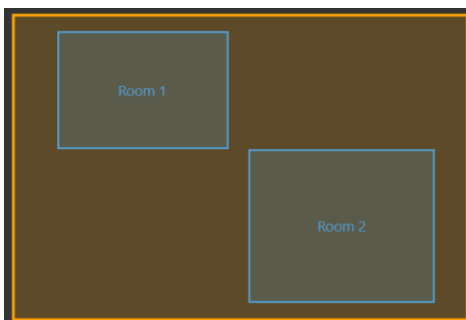
8.1.2 Begrenzungslinie zeichnen



Freehand drawing in yellow. Start with the mouse with one click, fix each corner with one click



and to lock double-click.

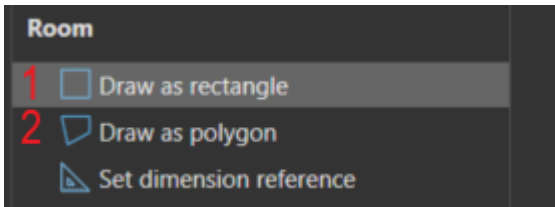


8.2 Toolbox: Room

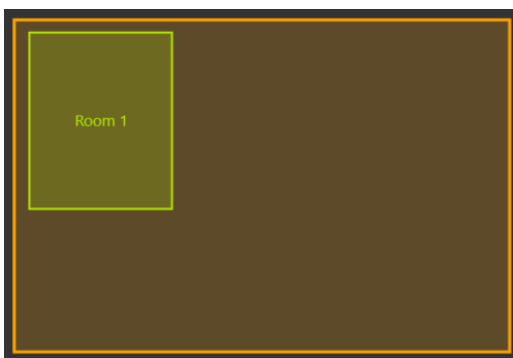
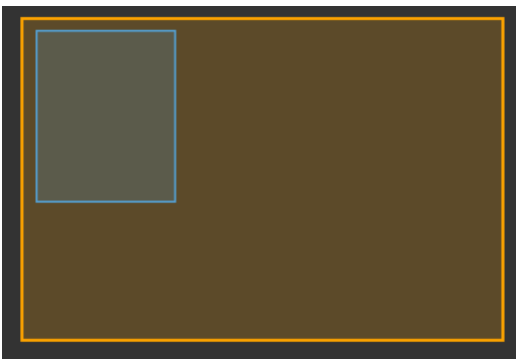
8.2.1 Draw new room

Rooms are needed to define the equipment in which their functions are used. The rooms are displayed in the ProgTool in drawing sheets.

Rooms are managed in the project tree.

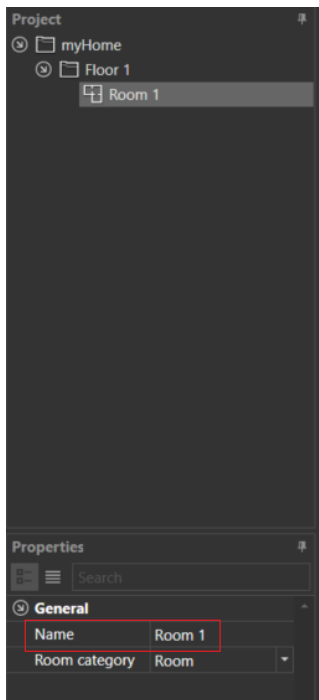


1. draw a new room as a rectangle
2. draw a new room as a polygon

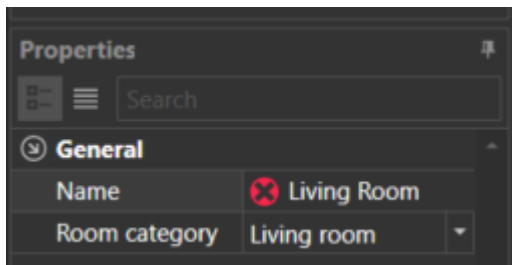


8.2.2 Labeling of the room

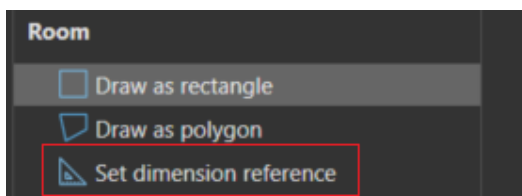
In the left menu, the name of the room can be adjusted.



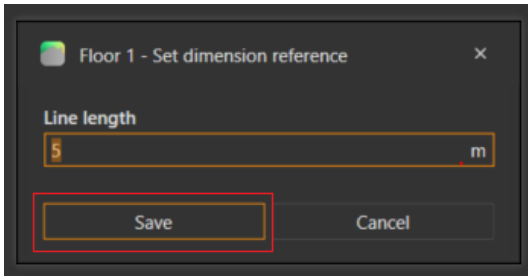
The name of the room must be unique across all floors. If a room with the same name already exists, it will not be accepted.



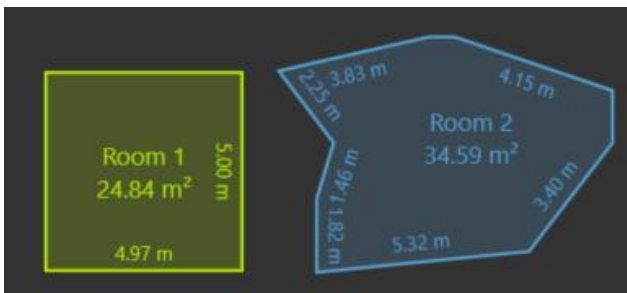
8.2.3 Set dimension reference



Activate the room (→ turns light green) with the mouse pointing to the edge until the question mark appears. With a left click, the menu for entering the reference value appears.

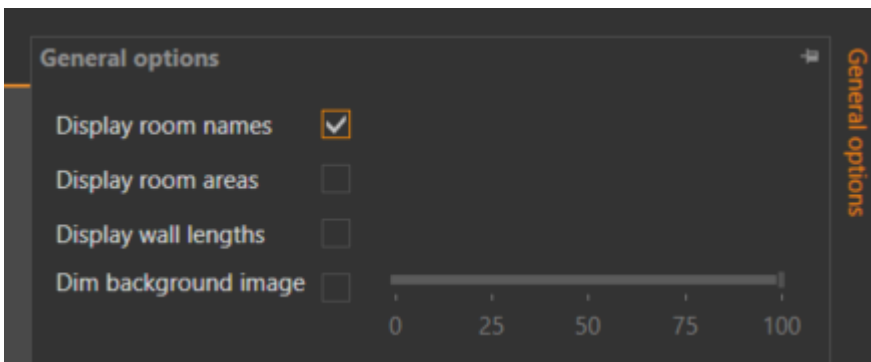


Based on the reference side entered, the dimensions of all rooms across all floors are displayed.



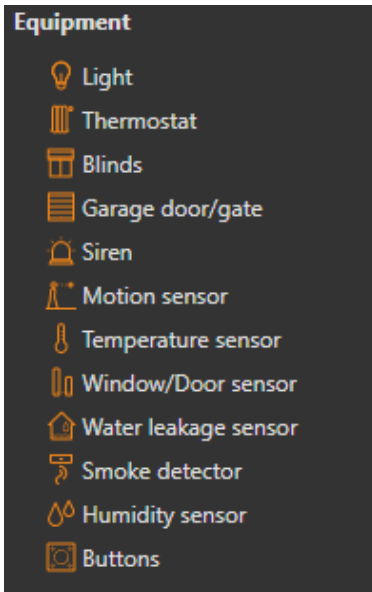
To suppress the display, open the menu "General options" on the right (see chapter General Options) and deactivate the two checkmarks "Display room areas" and "Display wall lengths". This affects all rooms.

8.2.4 General Options menu



Here you can hide the displayed dimensions in the rooms. With "Dim background image" the transparency of the background image (floor plan) can be determined.

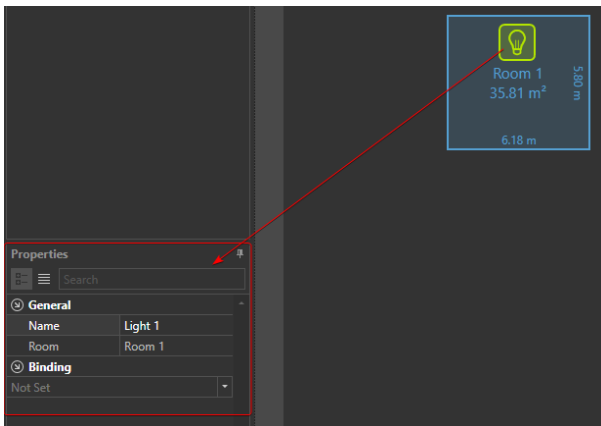
8.3 Toolbox: Equipment



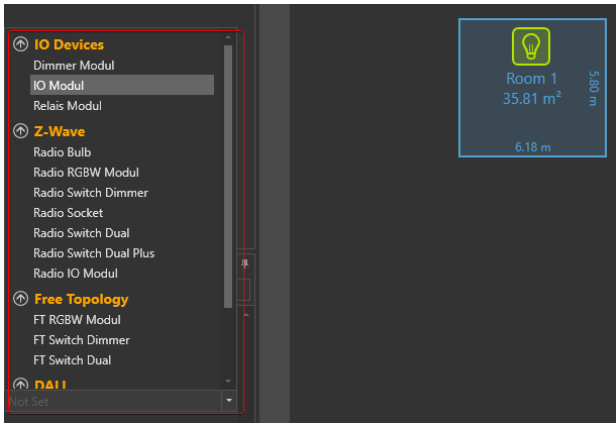
In the Equipment menu, various equipment is available, which can be placed in drawn rooms. The desired equipment is selected with a click and placed in the boundaries of a room with a click. The equipment is automatically assigned to the room.

8.3.1 Properties

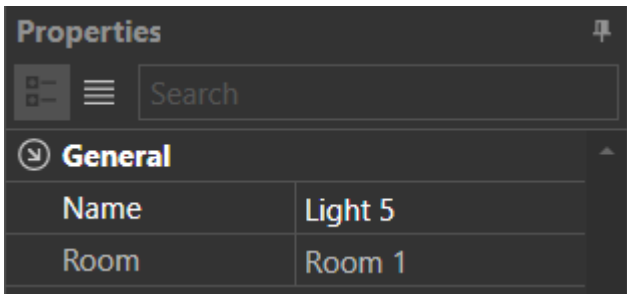
The properties of the set equipment can be defined here.



In the "Binding" tab, the input and output devices of the placed equipment can be set. These are then logically linked to each other with function blocks when they are exported to ProgTool.




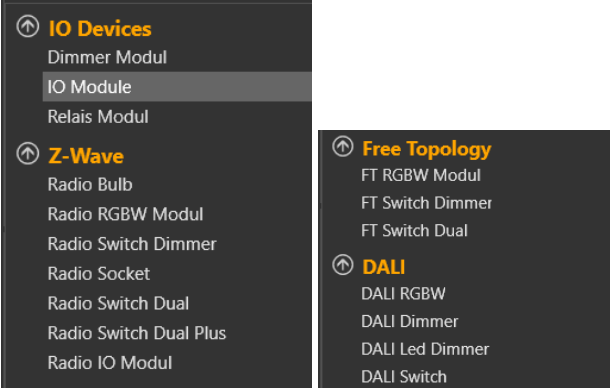
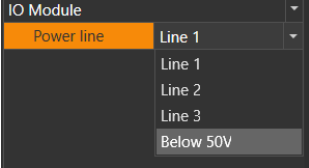



8.3.2 Tab General








Name : Name of equipment. The name can be adjusted.
 Room : Room where the equipment is placed

8.3.3 Tab Binding

By opening, you can see the possible connections. Devices, for example Z-Wave, are very easy to connect without configuration.

	<p>Light</p>	<div data-bbox="539 338 1152 725">  <p>The screenshot shows a dark-themed menu with three sections: IO Devices (Dimmer Modul, IO Module, Relais Modul), Z-Wave (Radio Bulb, Radio RGBW Modul, Radio Switch Dimmer, Radio Socket, Radio Switch Dual, Radio Switch Dual Plus, Radio IO Modul), and Free Topology (FT RGBW Modul, FT Switch Dimmer, FT Switch Dual). A second section DALI (DALI RGBW, DALI Dimmer, DALI Led Dimmer, DALI Switch) is also visible.</p> </div> <p>IO modules</p> <p>It is essential to specify which phases are to be switched. Thus, the corresponding IO modules are selected.</p> <div data-bbox="539 882 849 1048">  <p>The screenshot shows a dropdown menu for 'IO Module' with options: Power line, Line 1, Line 1, Line 2, Line 3, and Below 50V.</p> </div> <p>Except for the relay module, different voltages (e.g. 24 VDC, 230 VAC L1 or 230 VAC L2) may only be connected to the digital outputs (relays) if one output each remains FREE in between.</p> <ul style="list-style-type: none"> ➔ The ports are not omitted. As soon as another line (2,3 or below 50V) is selected, another IO module small is added. One module is used per line. <p>Relais Modul</p> <div data-bbox="539 1361 849 1482">  <p>The screenshot shows a dropdown menu for 'Relais Modul' with options: Power line, Line 1-3, Line 1-3, and Below 50V.</p> </div> <ul style="list-style-type: none"> ➔ For Line 1-3, no further relay is added. With "Below 50", he adds another relay module. <p>WARNING! The maximum current across all relays must not exceed 48 A</p>
	<p>Thermostat, Heating function</p>	<div data-bbox="539 1637 849 1908">  <p>The screenshot shows a dark-themed menu with three sections: IO Devices (IO Module -> Digital Output, IO Module -> Analog Output, Relais Modul), Z-Wave (Radio IO Modul Floor, Radio Valve), and Free Topology (FT Switch Dual).</p> </div>

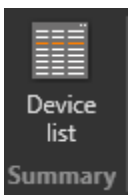
	<p>Blinds</p>	<ul style="list-style-type: none"> ⬆ IO Devices IO Module Relais Modul ⬆ Z-Wave Radio Switch Dual Radio Switch Dual Plus Radio IO Modul Radio Switch Shutter Plus ⬆ Free Topology FT Switch Dual
	<p>Garage door/ gate</p>	<ul style="list-style-type: none"> ⬆ IO Devices IO Module Relais Modul ⬆ Z-Wave Radio Switch Dual Radio Switch Dual Plus Radio IO Modul ⬆ Free Topology FT Switch Dual
	<p>Siren</p>	<ul style="list-style-type: none"> ⬆ IO-Geräte IO Modul ⬆ Z-Wave Radio IO Modul Radio Siren ⬆ Free Topology FT Switch Dual
	<p>Motion sensor</p>	<ul style="list-style-type: none"> ⬆ IO Devices IO Module ⬆ Z-Wave Radio IO Modul Radio Motion
	<p>Temperatur sensor</p>	<ul style="list-style-type: none"> ⬆ IO Devices IO Module ⬆ Z-Wave Radio Socket Radio IO Modul Radio Valve ⬆ Free Topology FT DIN SIX ⬆ Touch Add-On Touch Add-On Glossy <p>The outputs for the indoor and outdoor sensor are different and can therefore be selected.</p> <div data-bbox="539 1630 847 1731" style="border: 1px solid black; padding: 2px;"> <p>IO Module</p> <p>Sensor Type Room temperat...</p> <p>Room temperature sensor</p> <p>Outdoor temperature sensor</p> </div> <p>The default settings are stored according to the myTEM standard. The settings can be adjusted in the ProgTool at any time.</p> <p>Specifically:</p> <p>Radio Socket, Radio Walve and Touch Add-On Glossy have integrated temperature sensors, therefore no indoor or outdoor selection.</p> <p>Since the Touch Add-On Glossy functions as a sensor here, no switch functions need to be configured.</p>

	<p>Window / Door sensor</p>	<ul style="list-style-type: none"> ⤴ IO Devices IO Module ⤴ Z-Wave Radio IO Modul Radio Window /Door Contact ⤴ Free Topology FT DIN SIX
	<p>Water leakage sensor</p>	<ul style="list-style-type: none"> ⤴ IO Devices IO Module ⤴ Z-Wave Radio IO Modul Radio Leakage Sensor ⤴ Free Topology FT DIN SIX
	<p>Smoke detector</p>	<ul style="list-style-type: none"> ⤴ IO Devices IO Module ⤴ Z-Wave Radio IO Modul Radio Smoke ⤴ Free Topology FT DIN SIX
	<p>Humidity sensor</p>	<ul style="list-style-type: none"> ⤴ Z-Wave Radio Socket ⤴ Touch Add-On Touch Add-On Glossy <p>The myTEM standard devices with integrated humidity sensor can be selected here.</p> <p>Since the Touch Add-On Glossy functions as a sensor here, no switch functions need to be configured.</p>
	<p>Buttons</p>	<ul style="list-style-type: none"> ⤴ IO Devices Dimmer Modul IO Module ⤴ Z-Wave Radio Switch Dimmer Radio Switch Dual Radio Switch Dual Plus Radio IO Modul Radio Switch Shutter Plus ⤴ Free Topology FT DIN SIX ⤴ Touch Add-On Touch Add-On Glossy <p>The following switches are available for each button:</p> <ul style="list-style-type: none"> ⤴ Lighting Switch On Switch Off Brighter / Next Scene Darker / Previous Scene ⤴ Blinds Trigger Up Trigger Down Trigger Up Down <p>Dimmer Modul und IO-Module, Radio IO Modul and FT DIN SIX</p>

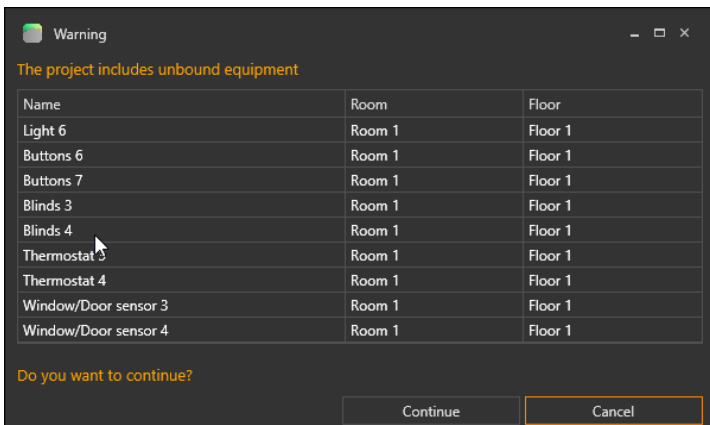
		<div data-bbox="539 203 836 398"> <p>Dimmer Modul</p> <table border="1"> <tr><td>Button 1</td><td>Not Set</td></tr> <tr><td>Button 2</td><td>Not Set</td></tr> <tr><td>Button 3</td><td>Not Set</td></tr> <tr><td>Button 4</td><td>Not Set</td></tr> <tr><td>Button 5</td><td>Not Set</td></tr> <tr><td>Button 6</td><td>Not Set</td></tr> </table> </div> <div data-bbox="847 309 1412 398"> </div> <div data-bbox="539 421 815 450"> <p>Radio Switch Dimmer</p> </div> <div data-bbox="539 472 836 573"> <p>Radio Switch Dimmer</p> <table border="1"> <tr><td>Button 1</td><td>Not Set</td></tr> <tr><td>Button 2</td><td>Not Set</td></tr> <tr><td>Button 3</td><td>Not Set</td></tr> </table> </div> <div data-bbox="847 479 919 573"> </div> <div data-bbox="539 595 1430 658"> <p>Radio Switch Dual, Radio Switch Dual Plus and Radio Switch Shutter Plus</p> </div> <div data-bbox="539 680 836 761"> <p>Radio Switch Dual</p> <table border="1"> <tr><td>Button 1</td><td>Switch On</td></tr> <tr><td>Button 2</td><td>Switch Off</td></tr> </table> </div> <div data-bbox="847 685 1058 761"> </div> <div data-bbox="539 784 1430 887"> <p>When using the Radio Switch Shutter Plus together with the myTEM Touch Add-On, the temperature and humidity sensor integrated in the Touch Add-On, as well as the lighting, cannot be used.</p> </div> <div data-bbox="539 909 823 938"> <p>Touch Add-On Glossy</p> </div> <div data-bbox="539 960 836 1122"> <p>Touch Add-On Glossy</p> <table border="1"> <tr><td>Button 1</td><td>Not Set</td></tr> <tr><td>Button 2</td><td>Not Set</td></tr> <tr><td>Button 3</td><td>Not Set</td></tr> <tr><td>Button 4</td><td>Not Set</td></tr> <tr><td>Button 5</td><td>Not Set</td></tr> </table> </div> <div data-bbox="847 965 979 1122"> </div>	Button 1	Not Set	Button 2	Not Set	Button 3	Not Set	Button 4	Not Set	Button 5	Not Set	Button 6	Not Set	Button 1	Not Set	Button 2	Not Set	Button 3	Not Set	Button 1	Switch On	Button 2	Switch Off	Button 1	Not Set	Button 2	Not Set	Button 3	Not Set	Button 4	Not Set	Button 5	Not Set
Button 1	Not Set																																	
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Button 2	Switch Off																																	
Button 1	Not Set																																	
Button 2	Not Set																																	
Button 3	Not Set																																	
Button 4	Not Set																																	
Button 5	Not Set																																	

9 Summary menu

The device list required for the project can be viewed in the summary menu via Device list



A warning is given for unconnected equipment, when wanting to access the device list.



9.1 Device list overview

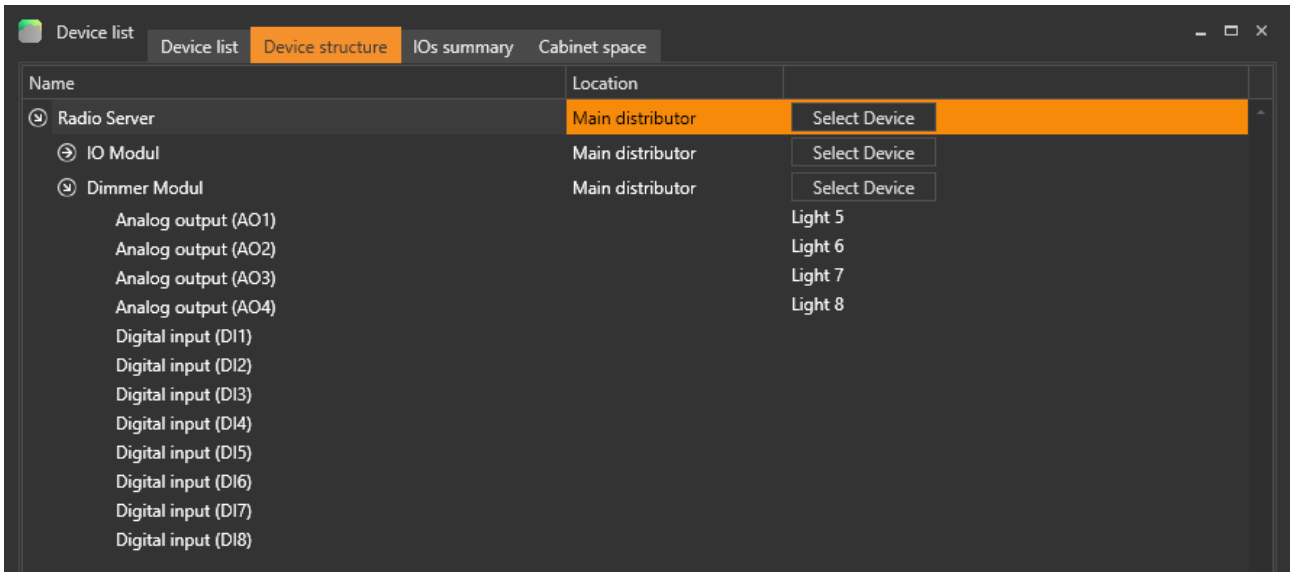
The heart of the PlanTool is the "parts list/Device list". All components necessary for the drawn configuration are listed here.

Part Num...	Name	Count	Unit Price	Amount
805'613	Smart Server	1	Not Set	
805'614	Radio Server	0	Not Set	
805'625	IO Modul	0	Not Set	
805'626	IO Modul Small	0	Not Set	
805'628	Relais Modul	2	Not Set	
805'627	Dimmer Modul	0	Not Set	
805'621	Radio Base Modul	0	Not Set	
805'688	FT Base Modul	0	Not Set	
805'629	DALI Modul	0	Not Set	
805'622	Radio Socket	0	Not Set	
805'624	Radio IO Modul	0	Not Set	
805'686	Radio IO Modul Floor	0	Not Set	
805'618	Radio Switch Dual	0	Not Set	
805'638	Radio Switch Dual Plus	0	Not Set	
805'635	Radio Bulb	0	Not Set	
805'615	Radio RGBW Modul	0	Not Set	
805'655	Radio Switch Dimmer	0	Not Set	
805'634	Radio Valve	0	Not Set	
805'708	Radio Switch Shutter Plus	0	Not Set	
805'642	Radio Siren	0	Not Set	
805'636	Radio Motion	0	Not Set	
805'633	Radio Window/Door Contact	0	Not Set	
805'644	Radio Leakage	0	Not Set	
805'637	Radio Smoke	0	Not Set	
805'691	FT RGBW Modul	0	Not Set	
805'692	FT Switch Dimmer	0	Not Set	
805'690	FT Switch Dual	0	Not Set	
805'689	FT DIN SIX	0	Not Set	
805'619	Touch Add-On Glossy	0	Not Set	
805'704	Room Temperature Sensor	0	Not Set	
804'069	Outdoor Temperature Sensor	0	Not Set	
805'650	Power Supply 36W	1	Not Set	
805'651	Power Supply 92W	0	Not Set	

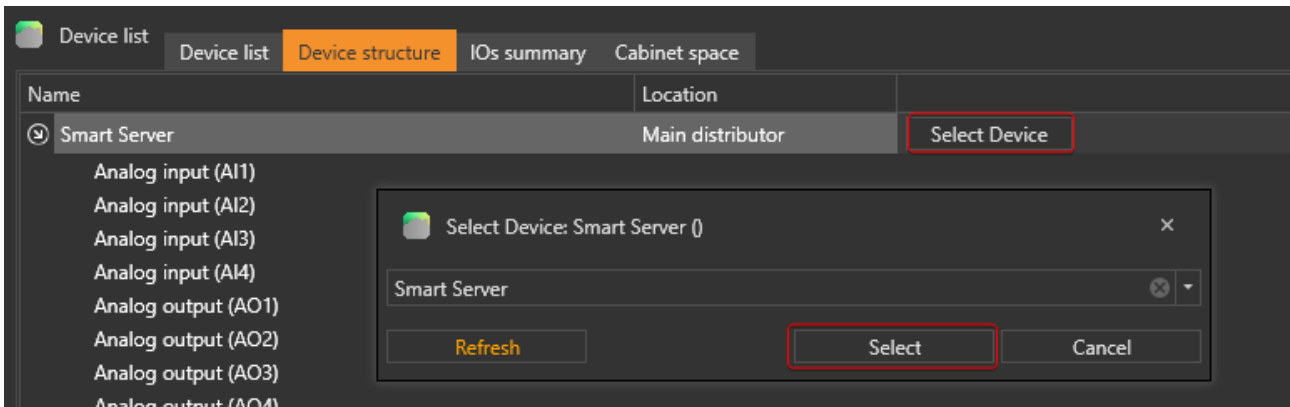
Export Total = 0.00 CHF

9.2 Device structure

In the "Device structure" all assigned and free inputs and outputs of the devices used in the project are displayed.



If the server and any devices are connected, the devices can be fixed via "Select device".



9.3 IOs Summary

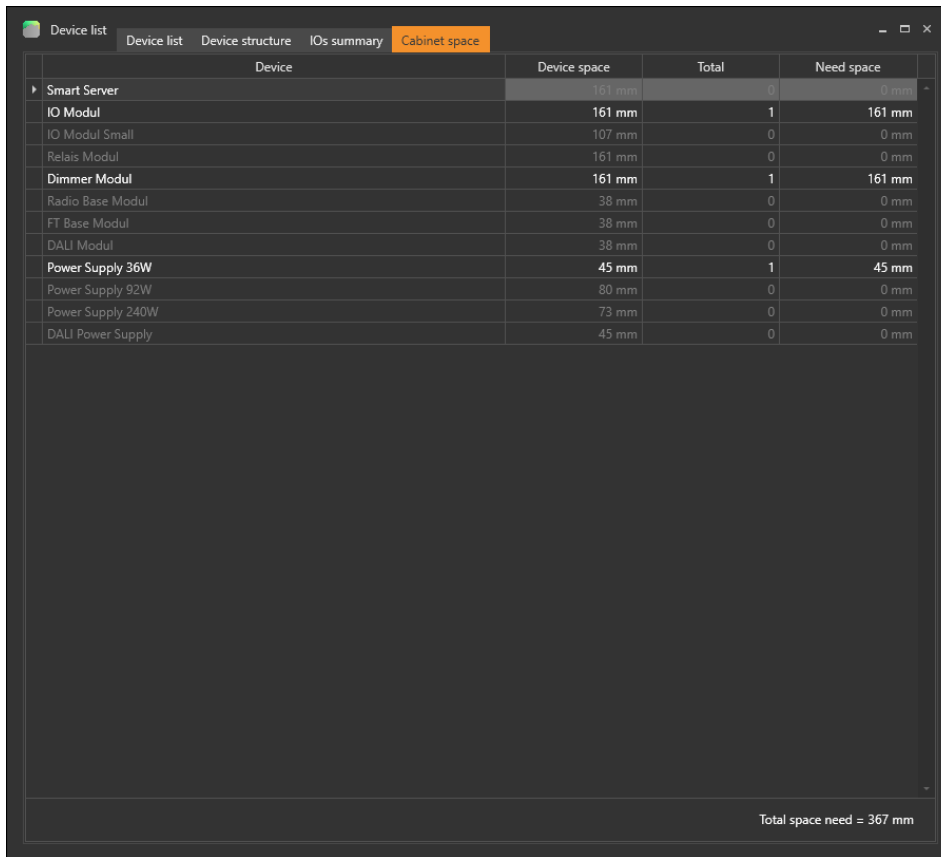
Overview of the required IO ports for **central wiring**.

Equipment	Analog Outputs	Analog Inputs	Digital Outputs < 8	Digital Outputs < 16	Digital Inputs
Light	1 (either)		1 (or)	1 (or)	
thermostat	1 (either)		1 (or)	1 (or)	
blinds			2 (either)	2 (or)	
garage door / gate			2 (either)	2 (or)	
siren			1		
Others actors (new)	1 (either)		1 (or)	1 (or)	
motion sensor					1
Temperatur sensor		1			
Window / Door Sensor					1
Water leakage sensor					1
Smoke detector					1
Humidity sensor (Radio)					
Buttons					0-6
Others sensors (new)					1

IO type	Needed	Available from modules	Remaining free
▶ Analog In 0 ... 10V DC or digital in 24V DC (SELV) or Sensor PT1000 or NTC, selectable	2	4	2
Digital In 24V DC or usable as frequency input too (i.e. wind measurement)	1	20	19
Analog out 0 ... 10V DC, 20mA	0	4	4
Digital Out (Relay) 250V AC 5A at cosPhi=1, 30V DC 5A or Digital Out (Relay) 250V AC 8A at cosPhi=1, 30V DC 8A	5	8	3
Digital Out (Relay) 250V AC 16A at cosPhi=1, 30V DC 16A	0	0	0
Channels for dimming 250W	4	4	0

9.4 Cabinet Space

The space in the cabinet required for the installation of all devices is indicated in the "Cabinet space" tab.

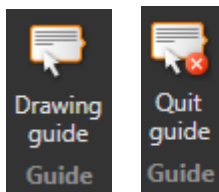


The screenshot shows a software window titled "Device list" with four tabs: "Device list", "Device structure", "IOs summary", and "Cabinet space". The "Cabinet space" tab is active and displays a table with the following data:

Device	Device space	Total	Need space
Smart Server	161 mm	0	0 mm
IO Modul	161 mm	1	161 mm
IO Modul Small	107 mm	0	0 mm
Relais Modul	161 mm	0	0 mm
Dimmer Modul	161 mm	1	161 mm
Radio Base Modul	38 mm	0	0 mm
FT Base Modul	38 mm	0	0 mm
DALI Modul	38 mm	0	0 mm
Power Supply 36W	45 mm	1	45 mm
Power Supply 92W	80 mm	0	0 mm
Power Supply 240W	73 mm	0	0 mm
DALI Power Supply	45 mm	0	0 mm

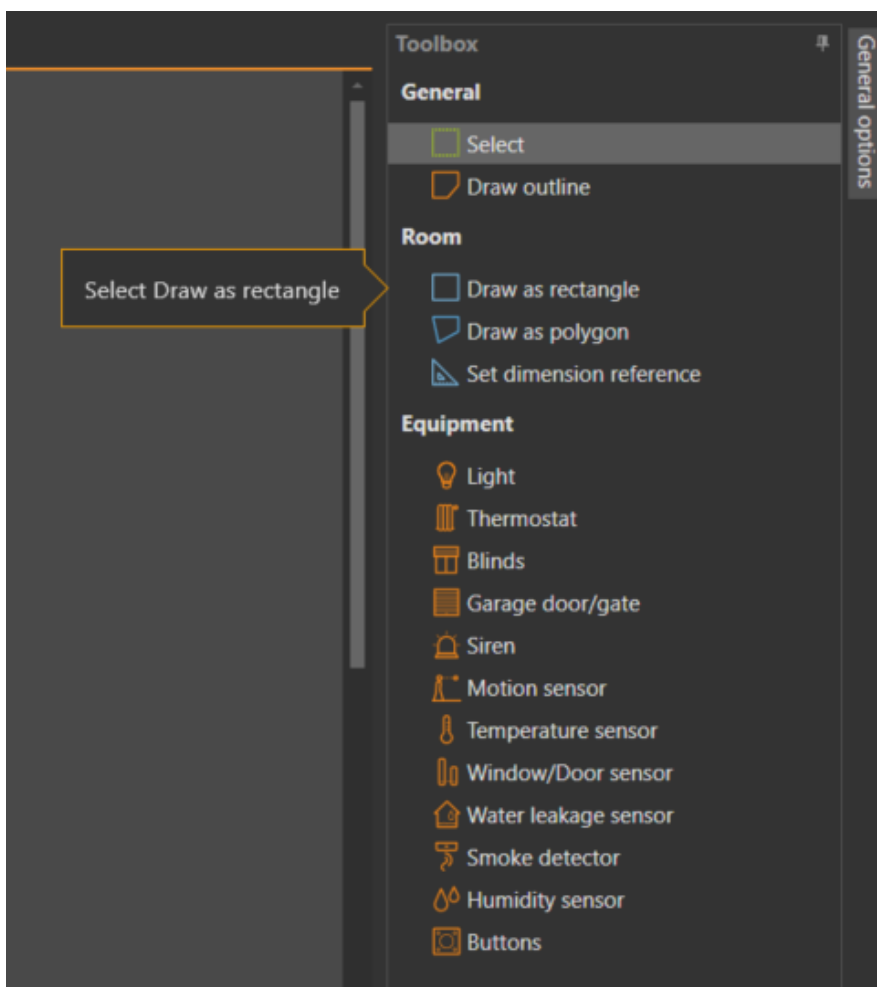
Total space need = 367 mm

10 Drawing Guide

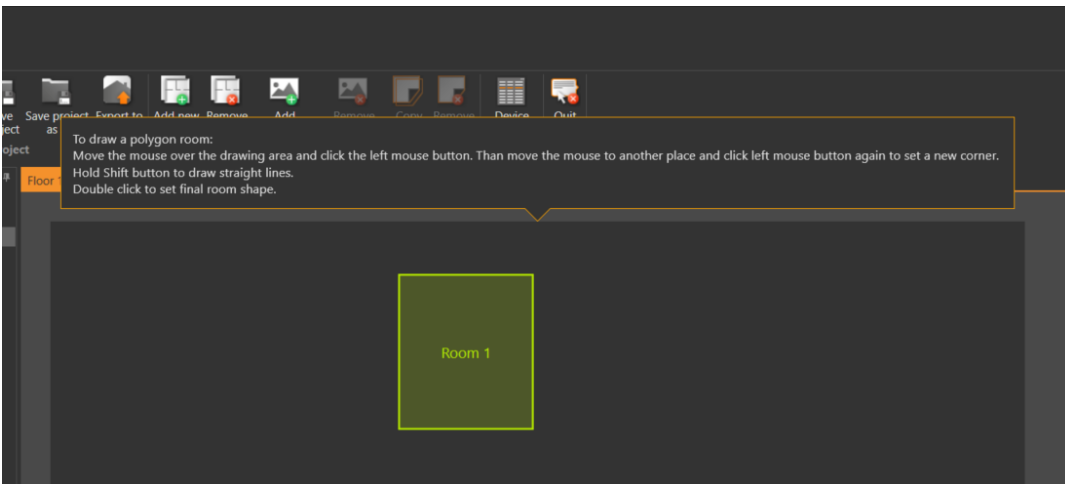
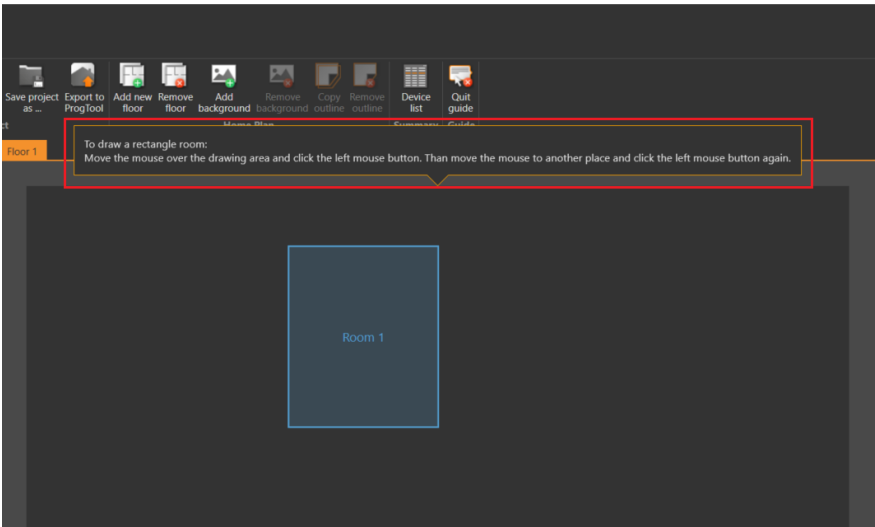


A drawing guide is available. First, the rooms must be defined. To create them, click on "Add new room".

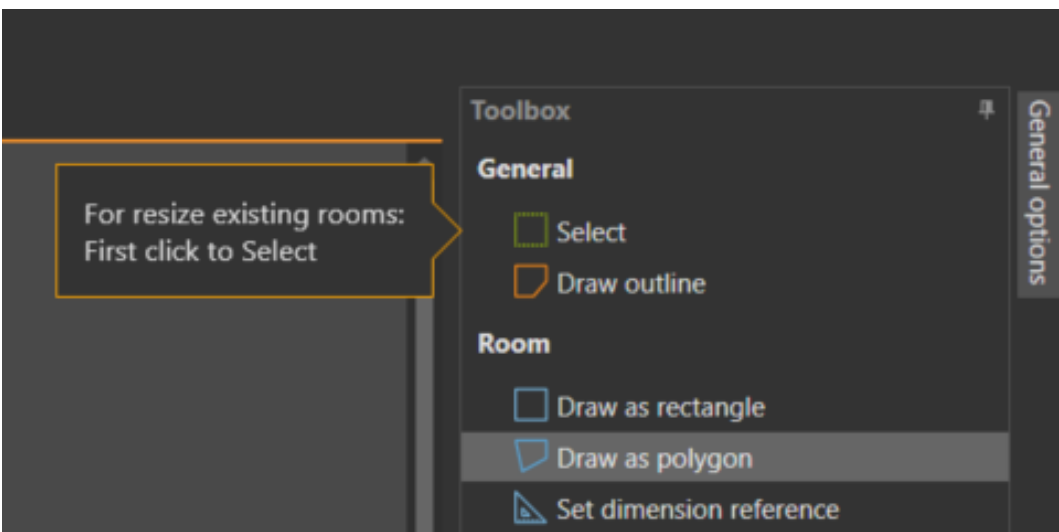
1. draw the room

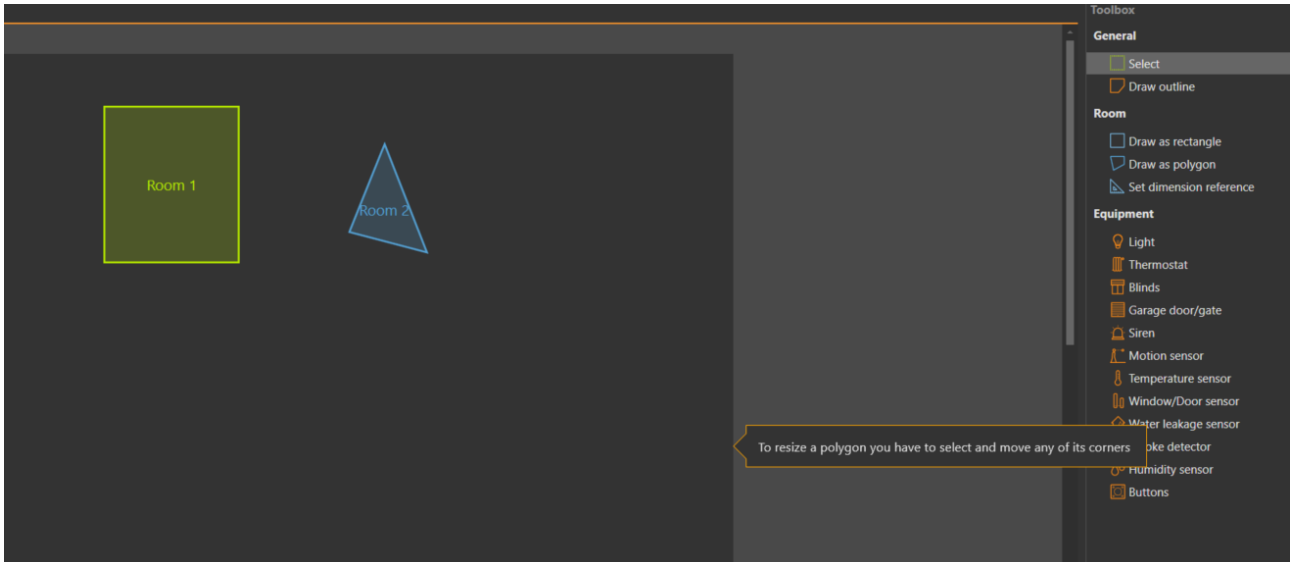
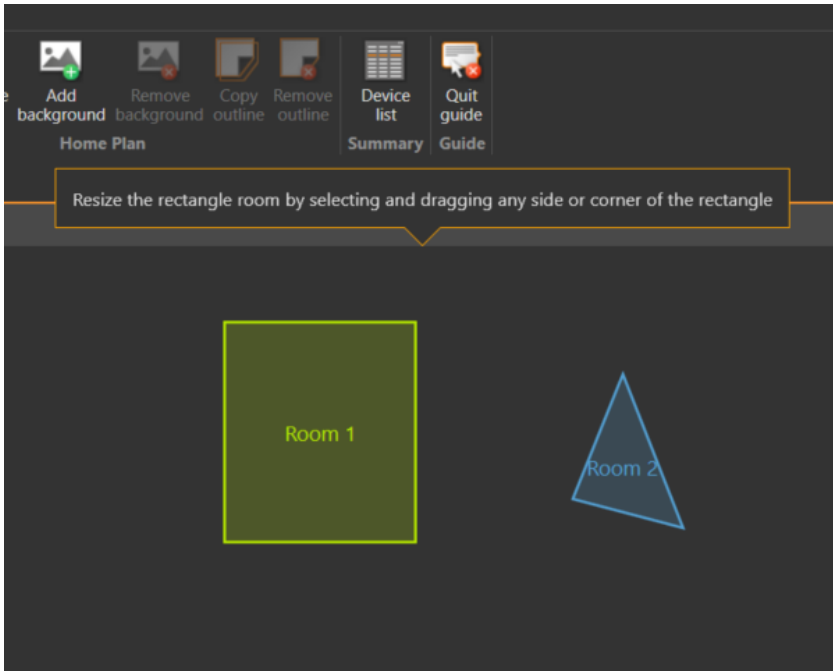


Help texts for drawing rectangles and polygons.

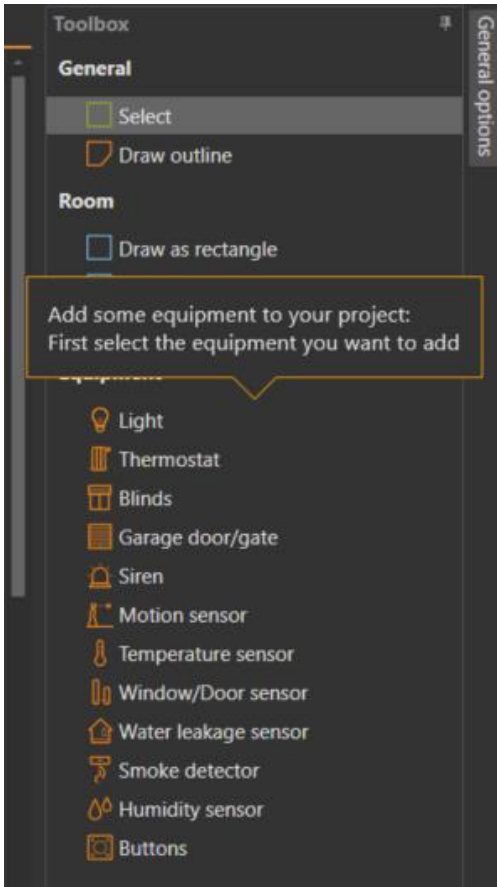


2. Change room

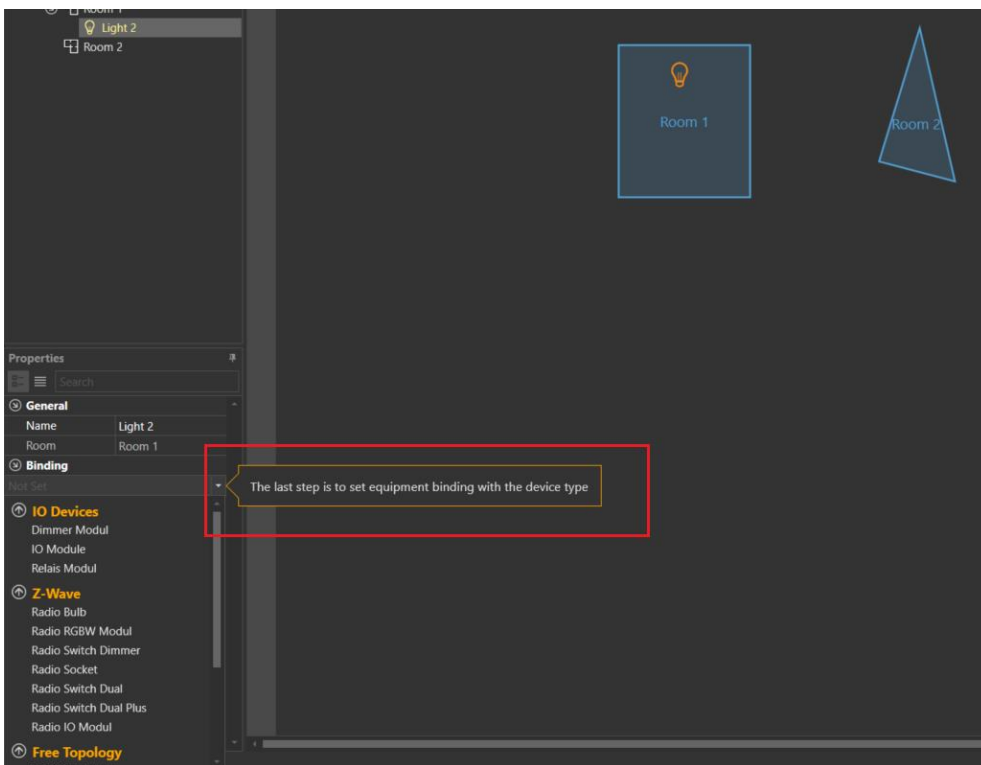




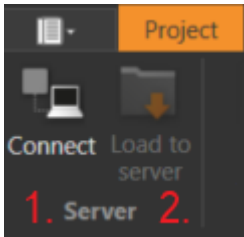
3. Adding equipment to the project



4. Binding the equipment to a device



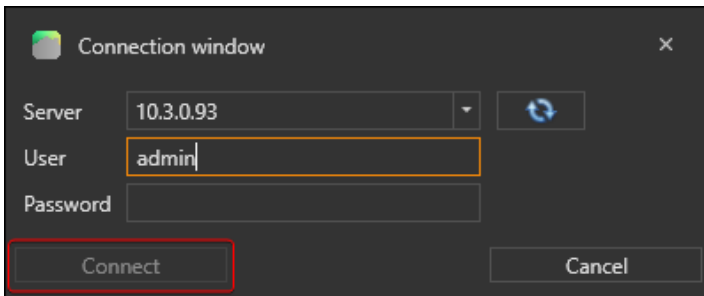
11 Connect Server



1. Connect to a server
2. Load project onto the server (PC → server)

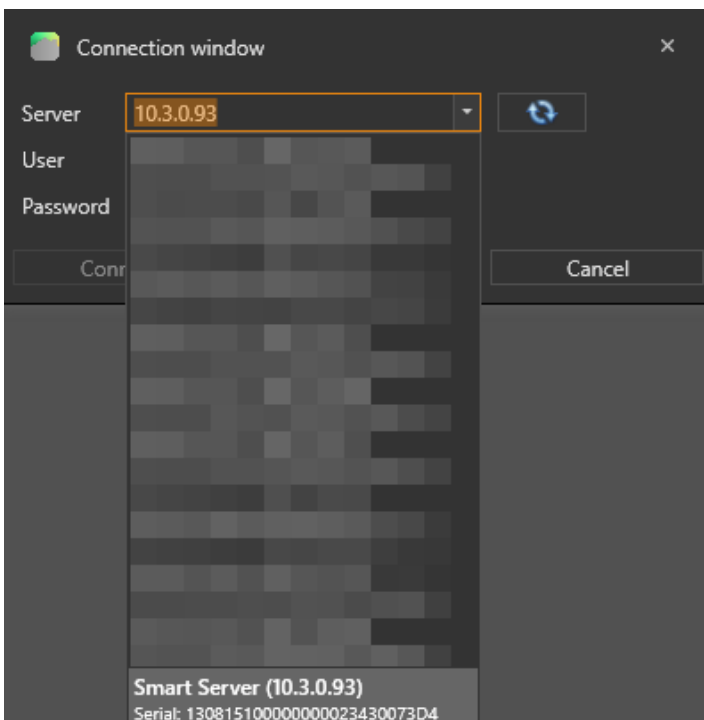
To connect to a server, click on the menu "Connect".

A new window opens where connection settings can be entered.



If you do not know the IP address, you can search for the device in the network by clicking on the blue button.

A list of all available devices is displayed. By clicking on the desired server, the unit is selected. This function is only available in the same network link and not over several routed IP ranges.



After clicking on "Connect", a connection is established. If the user name or password is incorrect, an error message is displayed. If the connection was successful, the window closes automatically.

The default user is 'admin'.

The connection status is displayed in the status bar.

Connection status: **Not connected**

If the connection is established successfully, the status bar is adjusted.

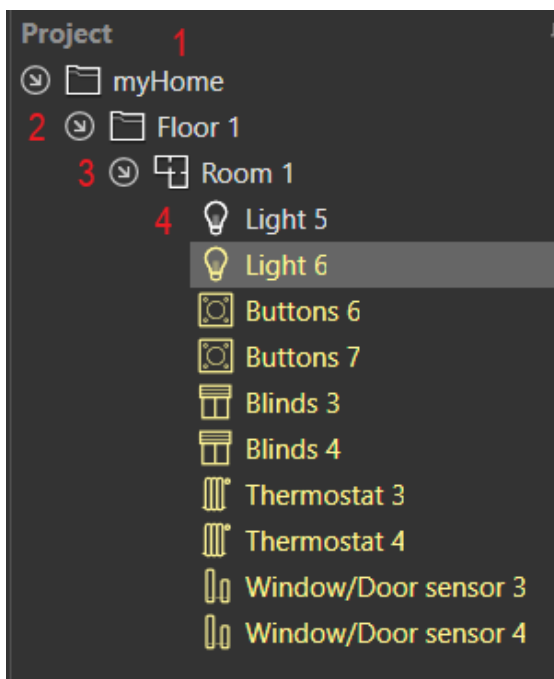
Connection status: **Connected** User: **admin** Device type: **Smart Server** IP: **10.3.0.93** Serial number: **13081510000000023430073D4** Version: **v2.19.1**

12 Equipment management

12.1 Settings in the project tree

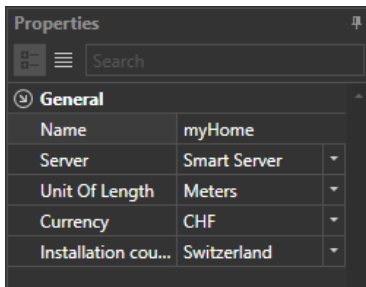
All devices to be used in the project are added to the project tree.

1. A Smart Server or Radio Server is always visible at the top.
2. The next level are the floors
3. The third level is the rooms to the floors.
4. Then the drawn equipment appears (the yellow ones are not yet assigned to a module or device in the tab "binding").



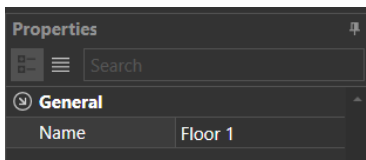
If you click on a level, its properties are displayed :

1. Project “myHome“



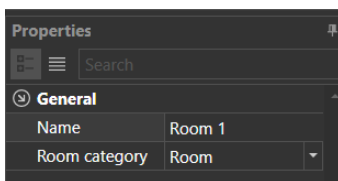
Name: own project title definable
 Server : Smart Server, Radio Server
 Unit of Length: Meters, Centimeters, Decimeters
 Currency: EUR, CHF
 Installation country Switzerland, Another

2. Floor



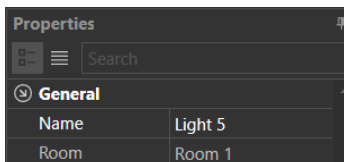
Name: own name definable

3. Room



Name: own name definable

4. Equipment (Example Light)

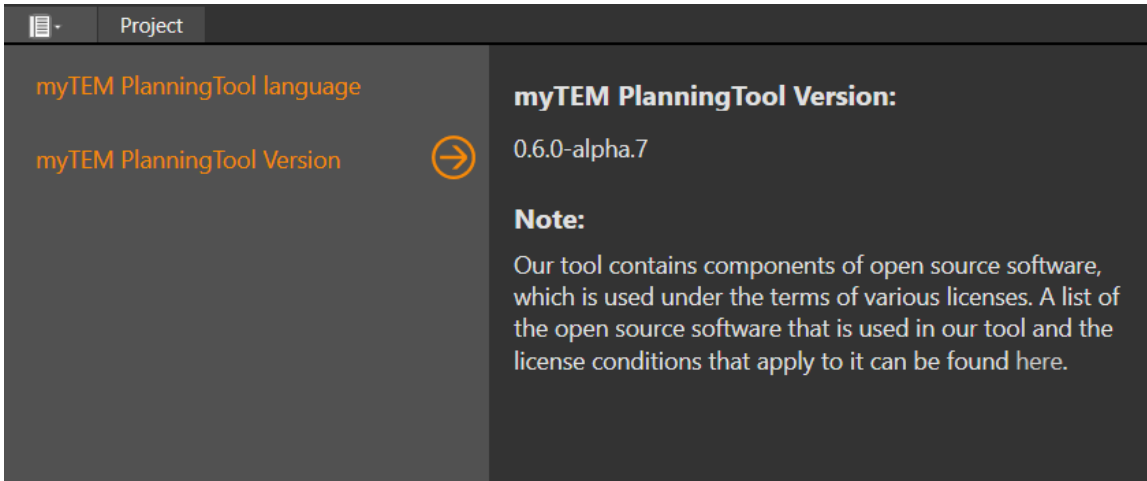


Name: own name definable
 Room: assigned room

13 Update

13.1 Software Update

The current PlanTool version can be found under "myTEM PlanTool Version".
If a new version is available, it will be displayed here.



13.2 Server Update

Server updates are made in the ProgTool.

13.3 Glossary

DALI	Digital Adressable Lighting Interface
FT	FreeTopology
RGBW	Red Green Blue Warm-white