

myTEM ProgTool

# myTEM SmartHome



**.** .

V1.11

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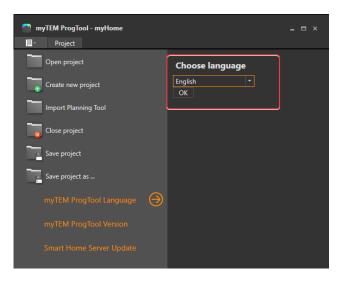


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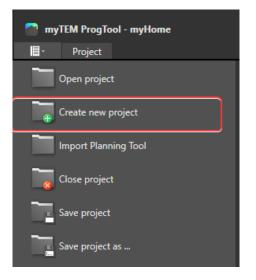
# 1 Select language

Select your desired language. After the first use of the ProgTool, the system recognizes the last selected language as the default language. The language can be changed at any time.



# 2 Create new project

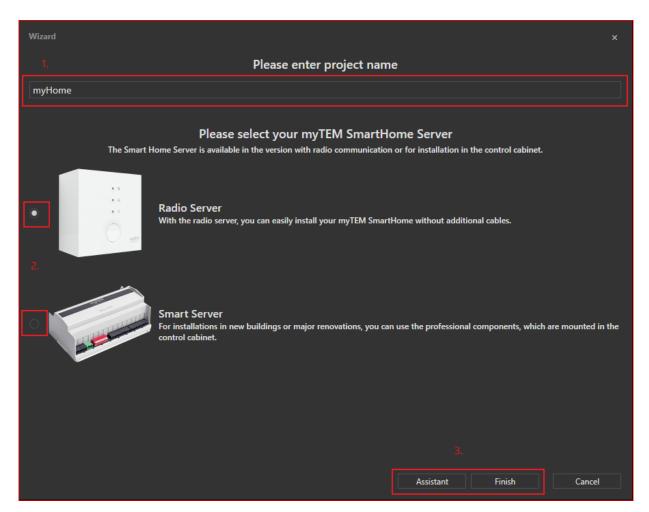
To create a new project, select the "Create new project" menu



A new window opens, where the first settings can be made.

- 1. Enter project title / name
- 2. Select server type. Server type can also be changed later.
- 3. Select whether the project should be created using the assistant (chapter 2.2). If this is not selected, an "empty" project will be created.





# 2.1 First steps

#### 2.1.1 **Program overview**

The tool structured into the following main menus:

- 1. Project tree: For the management of the project, it means rooms, users, devices, drawing pages etc.
- 2. Menu list (selection)
- 3. Drawing pages
- 4. Function library with function blocks
- 5. Properties window: This changes depending on the selected element in the drawing
- 6. Status bar: Displays the connection status to the Radio Server or Smart Server



ain panel  Tojects Smart Server NewPa	age <b>3</b> .				Toolbox Q Search	* Notin
🗇 myHome					Arithmetic function block	
Structure     NewPage					Mathematical constants	19
<ul> <li>③ 图 Users</li> <li>④ 图 Users groups</li> </ul>					Logic function blocks	
1 Rooms					- Comparison function blo	
<ul> <li>Alert</li> <li>Smart Server</li> </ul>		+24V +24V - +24V +24V -			Drawing connectors	$\overline{\mathbb{Q}}$
		Ground GND -	LAN LAN		Special	
		Ground GND CAN - CAN -			Time functions	
		CAN + CAN +	μSD VDlout		Analogue	
					Blinds	
		01P-Switch	DI2 Digital	input (DI2)	Alarm 4	
		67 80	DI4 Digital		Central	
		10		input (DI5)	Counter	
		t (DO1) DO1 out BA	DI7 Digital		Light	
operties 7		t (DO2) • DO2 out	DI8 Digital GND Ground		Door	
Gerāt		t (DO3) DO2 in BA	GND Ground Al1 Analog		Controllers	(U)
Name Smart Server Room	Digital output	but pod out	AI2 Analog		Push buttons and switche	
		DO4 in		input (AI3) input (AI4)	Ventilation	(U)
		t (DO5) DO5 out BA	GND Ground AO1 Analog	output (AO1)	Energy	
LAN DHCP		t (DO6) • DO6 out	AO2 Analog			
WLAN	Digital output	t (D07) D07 out	AO4 Analog	output (AO3) output (AO4)		
Mode Disabled		UU7 In	GND Ground			
		• DO8 in 8 A	USB C			
			Lange A			
Mode DHCP WIAN Mode Disabled		t (DO7) t (DO7) t (DO8) t (DO8)	AO4 Analog GND Ground			

# 2.1.2 Menu list

## Server- menu



- 1. Connect to a Server
- 2. Load project from Server (Server  $\rightarrow$  PC)
- 3. Load project to Server (PC  $\rightarrow$  Server)
- 4. Start real-time view
- 5. Open record of current data

# Project-Menu

	PDF				-				-	8
Save project			Add new page	Remove page	Add new user		Add new user group			Remove room
6.		8.	9.	10.	1 Project	12.	13.	14.	15.	16

- 6. Save project
- 7. Create a PDF export from the project



- 8. Start project assistant
- 9. Add new drawing page
- 10. Remove selected drawing page
- 11. Create a new user
- 12. Remove selected user
- 13. Create new user group
- 14. Remove selected user group
- 15. Create new room
- 16. Remove selected room

Devices-menu



17. Add extension modules, gateways

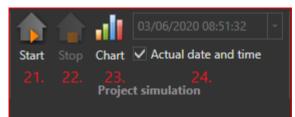
18. Start Z-Wave manager (only available with a Radio Server or Radio Base)

Drawing Menu



- 19. Reverse last step
- 20. Repeat last step

Simulation Menu



- 21. Start simulation
- 22. Stop simulation
- 23. Open diagram of simulation
- 24. Set simulation time and date

## 2.1.3 Create a new drawing page

Any number of drawing pages can be created. It is recommended to create one drawing page per room.

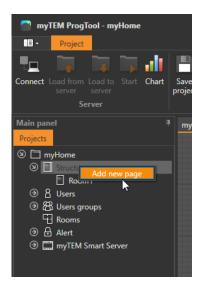
Via the menu "Add new page" a new drawing page is created.



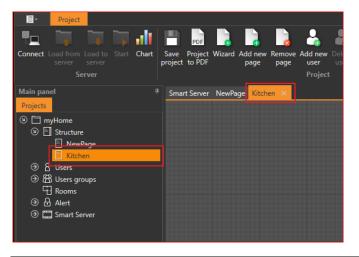
Enter the room name in the field; after clicking on the "Add" button, a new drawing page is created.

Add new page	×
Name	
Kitchen	
Add	Cancel

A new drawing page can also be made in the project tree by clicking with the right mouse button on "Structure".



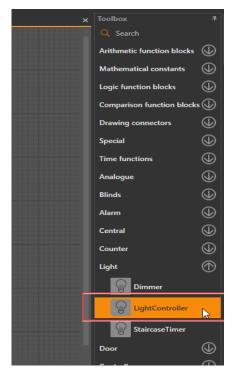
After adding the drawing page, a new tab is created and the drawing page is created.



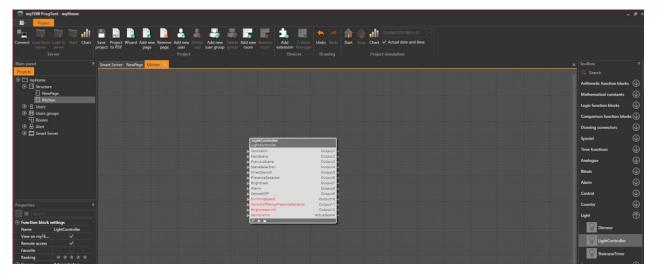


# 2.1.4 Add function block

To add a function to the drawing page, look for the desired function on the right side by expanding the categories or using the search function.



After you have found the desired function, drag or click it with the mouse button into the drawing page. The new block can be placed at any location.



## 2.1.5 Structure of the function blocks

- 1. Inputs
- 2. Properties. These can be adjusted in the properties window. Alternatively, properties can be connected like Inputs (chapter 2.1.6)
- 3. Outputs



Search unction block settings ame LightController iew on myTE LightController LightCo	operties	
unction block settings   ame   LightController   iew on myTE   emote access   avorite   avorite   anking   anking   anking   addininistrators   oom   ategory   Lighting   adividual   dimin Favorite   amin Favorite   immingSpeed   19		
ame LightController iew on myTE emote access avorite anking anking Administrators oom ategory Lighting dividual dmin Favorite dmin Ranking * * * * * * * * * * * * * * * * * * *		
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emote access avorite anking anking anking anking anking anking anking anking ategory Lighting ategory Lighti	Name	LightController
emote access CentralOn NextScene PreviousScene SceneSelection DirectSwitch PresenceDetector Brightness Admin Favorite dmin Favorite immingSpeed 19 witchOffDelay 10	/iew on myTE	$\checkmark$
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roups Administrators   poom DirectSwitch   presenceDetector   Brightness   dividual   dmin Favorite   dmin Ranking   * * * * *   immingSpeed   19   vitchOffDelay   10		
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hin Favorite DimmingSpeed SwitchOffDelayPresenceDetector BrightnessLimit Remanence StchOffDelay 10	ividual	
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immingSpeed 19 witchOffDelay 10		<u> </u>
InmingSpeed 19 witchOffDelay 10	roperties	
vitchOffDelay 10	immingSpeed	19
ightnessLimit 750		
	BrightnessLimit	750

If a function block has its own configuration page, this is indicated by the symbol framed in red. You can open the configuration by clicking on the icon or by double-clicking anywhere on the function block.

ientralOn Output1 lextScene Output2 ireviousScene Output3	LightController CentralOn VextScene PreviousScene SceneSelection	Output2
lextScene Output2 treviousScene Output3 ceneSelection Output4 VirectSwitch Output5 tresenceDetector Output6 irightness Output7 ientralOff Output9 VirmmingSpeed Output10 witchOffDelayPresenceDetector Output11 trightnessLimit Output2	lextScene /reviousScene	Output2
reviousScene Output3 ceneSelection Output4 irectSwitch Output5 resenceDetector Output6 rightness Output7 larm Output8 entralOff Output9 immingSpeed Output10 witchOffDelayPresenceDetector Output11 rightnessLimit Output2		
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rightness Output7 larm Output8 entralOff Output9 immingSpeed Output10 witchOffDelayPresenceDetector Output11 rightnessLimit Output12	irect5witch	Output5
larm Output8 entralOff Output9 immingSpeed Output10 witchOffDelayPresenceDetector Output11 rightnessLimit Output12	resenceDetector	Output6
entralOff Output9 immingSpeed Output10 witchOffDelayPresenceDetector Output11 rightnessLimit Output12	rightness	Output7
mmingSpeed Output10 vitchOffDelayPresenceDetector Output11 ightnessLimit Output12	arm	Output8
vitchOffDelayPresenceDetector Output11 ightnessLimit Output12	entralOff	Output9
rightnessLimit Output12	immingSpeed	Output10
	witchOffDelayPresenceDetector	Output11
emanence ActualScene	rightnessLimit	Output12
	emanence	ActualScene

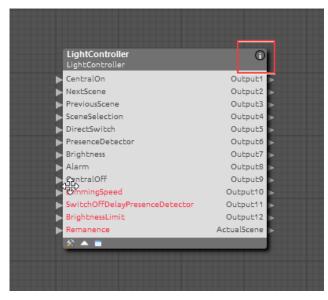
Function block-specific settings can be made in the configuration.

Light module							×
Outputs Scenes/	Moods						
	Description	Туре		Description	Туре		
AQ1:		Inactive	▼ AQ7:		Inactive		
AQ2:		Inactive	▼ AQ8:		Inactive		
AQ3:		Inactive	▼ AQ9:		Inactive		
AQ4:		Inactive	▼ AQ10:		Inactive		
AQ5:		Inactive	▼ AQ11:		Inactive		
AQ6:		Inactive	▼ AQ12:		Inactive		
Settings for dimme							
Minimum:	0						
Maximum:	100					ОК	Cancel



# 2.1.6 **Description of function blocks**

For each function block there is a description, which can be opened with a click on the upper right side.



- 1. The description can be exported to a PDF file
- 2. Description of the Inputs
- 3. Description of the properties
- 4. Description of the Outputs
- 5. Description of function
- 6. Names of Inputs, Outputs or properties
- 7. Description of Inputs, Outputs or properties
- 8. Possible adjustment range of the properties
- 9. Unit



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	Blinds				
				Exq	port
Inputs:					
	Singe button control up/down. Second pulse stop movement				
	Two buttons controls move down trigger				
	Two buttons controls move up trigger				
CompletlyDown					
CompletlyUp 2.					
Set Blinds	Set Blinds Position for specific value (0-100%)				%
Set Slats	Set Slats Position for specific value (0-100%)				%
Stop	Stop/block blinds movement				
DisableShading					
Shading On	Activate shading, move blinds down and set slats to given position				
PermanentShadingSignal					
TresholdShading					
CentralUp					
Settings: 6.	7.				
Move down duration time	Moving blinds down duration time	5			s
Move up duration time	Moving blinds up duration time	5			s
Slats Move Duration	Changing slats orientation full duration time	0			s
MinImpulsDurationCompleteRun		0.1			
Change direction lock time	Time pause between movement direction change	0			s
ShadingBlindsPosition		0	to	100	
Shading Slats Position 3.	Position of slats during shading (0-100%)	0	to	100	%
ThresholdShadingOn		0	to	10000	0
ThresholdShadingOff		0	to	10000	0
FilterTimeConstant		0			
EmergencyOverride					
Remanence		0	to	2	
Outputs:					
Is Moving Down	On hen blinds moving down				
	On when binds moving up				
<b>4</b> .	Current position of blinds (0-full up, 100-full down)				%
	Current position of slats (0-horizontal, 100-vertical)				%
FilteredTresholdShadingValue					
Description:					

Trigger input can be used for one button blinds control. Each impulse (change from 0 to 1) change direction move up/dow. TriggerDown and TriggerUp can be used for two buttons blinds control. Second impulse on each trigger during movement stop blinds.

IsMovingUp/Down outputs are activate during movement of blinds. Blinds full down duration time can be set in parameter MoveDownDuration

BlindsPosition output shows current position of blinds, where 0 -fully up, 100 -fully down. SlatsPosition output shows current position of slats, where 0 -horizontal, 100 -vertical.

Stop input while active block any triggers actions and stop movement of blinds. BlockDown and BlockUp inputs can be use as light barriers to prevent move up/down blindswhile set to 1.

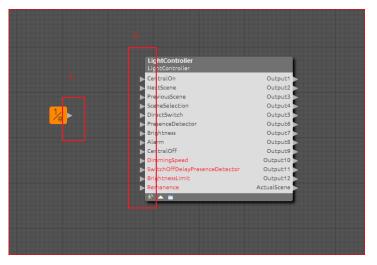
PulsePause parameter defined pause time between two trigger pulses while block is not reacting for new trigger. ChangeDirectionLock parameter define pause time needed for change motor direction movement. During this time triggers which change movement direction are ignore.

ShadingOn input activate shading: blinds go fully down and than slats set to position given in

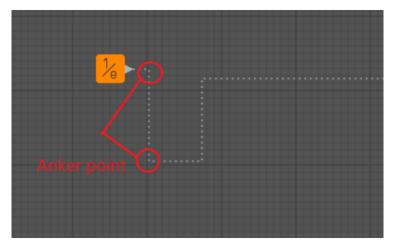


## 2.1.7 Connecting function blocks

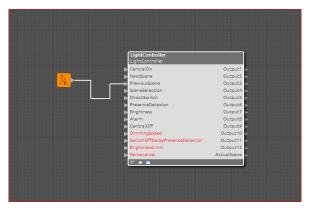
The blocks are connected to each other via the respective Inputs and Outputs. On the right side of the block are the Outputs (1.) and on the left side there are Inputs (2.). Only one Output can be connected to a Input. But more than one Input can be connected from one Output.



If you move the mouse pointer over an Input or Output, the mouse pointer changes to a pen. This means that a connection can be drawn. Click once to start the drawing process. A dashed line shows the course of the connection. If you click again, an anchor point can be set to determine the connection direction. The process is complete when an input is clicked. This turns the dashed line into a solid line and the connection is drawn.

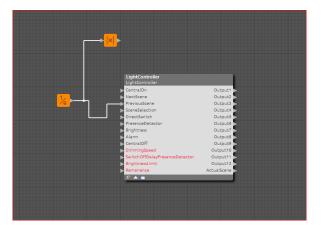


#### Completed connection





The individual line segments can be moved as desired with a held mouse click. If you move the mouse pointer onto the line, the pen appears again, with which you can start a new connection. In this way, branches can be created as well as connected with further function blocks.



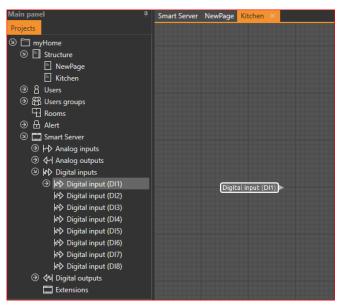
#### 2.1.8 Delete connection

By selecting a connection segment, it can be deleted with the "Delete" button. Alternatively, you can click on the corresponding line with the right mouse button and delete the connection by pressing "Delete".

## 2.1.9 **Connect device inputs / outputs**

Adding and managing devices as well as the settings of Input / Output are described in chapter 3.

To insert a device Input / Output in the drawing, select the element and drag it to the drawing page with a holding mouse button. At the desired position, release the mouse button. Now the Input / Output is displayed like a drawing block and can be connected and used at the same time

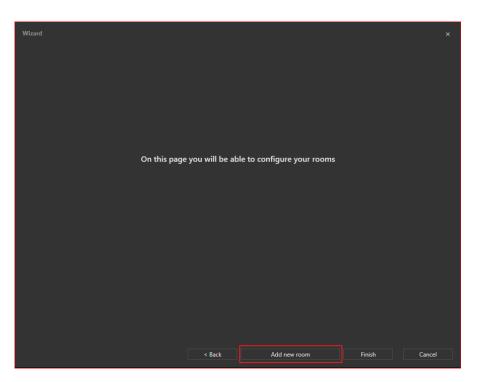


# 2.2 Create a project with the Assistant

First, the rooms have to be defined. Click on "Add new room" to create a new room.







#### 2.2.1 Add new room

- 1. Select category of the room: The icon is used also for display in the mobile app, among other things. You can change this later.
- 2. Name for the room: Can be changed later.
- 3. Click on "Add" to create the room in the project.

Add new room			×
1.			
Category	Name		
Kitchen	<ul> <li>Kitchen</li> </ul>		
3. Ad	d	Cancel	

Symbol and name can be selected individually.

After all rooms have been added, a list with all defined rooms appears. Any number of additional rooms can be added.

- 1. First column = <u>Name</u> by clicking in the respective field the name can be changed.
- 2. Second column = <u>Category</u> by clicking a selection menu is activated where you can change the category.
- 3. Third column = <u>Functions</u> of the configured functions. Click on the symbol to start the function assistant. More detailed description from chapter Fehler! Verweisquelle konnte nicht gefunden erden.



Wizar	d						×
		Roc	oms				
	Name	Category			Fur	nctions	
ď	Kitchen	Kitchen					
	Bedroom	Bedroom					
		Dev	ices				
Sma	rt Server						
		< Back	Add new roo	m	Finis	h	Cancel

#### 2.2.2 Create blind function

To create a Blind function, click on the Blind symbol in the corresponding room.



After selecting, the settings for the Blind module are made. The first thing to select is whether the Blind is operated with on or two switch-buttons.

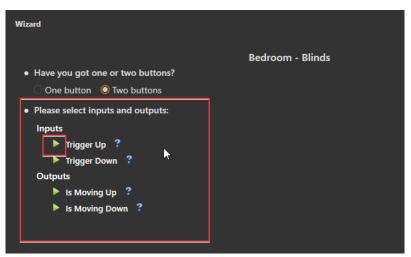
Wizard	
Have you got one or two buttons?     One button Two buttons	Bedroom - Blinds

By selecting an Input and Output assignment is displayed. Click on the green arrow to select an Input or Output for the corresponding function

- 1. Trigger Up: Button for raising the blinds.
- 2. Trigger Down: Button for shutting the blinds.



- 3. Is moving Up: Relay for the motor raising
- 4. Is moving Down: Relay for motor shut down



After clicking on the green pointer, a device window opens.

- 1. Devices available in the project with the them Inputs or Outputs that can be used for the currently selected functions. The view may vary if a Radio Server is selected.
- 2. New devices, which can be added to the project.
- 3. With double-click on the desired Input or Output this can be selected.

IO se	lector	
3	mart Server	
	Analog input (Al1)	
	Analog input (AI2)	
	Analog input (AI3)	
	Analog input (Al4)	
	Digital input (DI1) 2.	
	Digital input (DI2)	
	Digital input (DI3)	
	Digital input (DI4)	
	Digital input (DI5)	
	Digital input (DI6)	
	Digital input (DI7)	
	Digital input (DI8)	
9	lew devices	
	③ Radio Socket	
	③ Radio Window /Door Contact 3.	
	③ Radio Valve	
	③ Radio Smoke	
	③ Radio Motion	
	Dimmer Modul	
	∋ IO Modul Small	
	∋ IO Modul	
	③ Radio Siren	
	③ Radio Leakage Sensor	
	③ Radio RGBW Modul	

The selected input or output is now visible in the list. The name can still be changed.



Wizard	_ 🗆 ×
Bedroom 1 - Blinds	
Have you got one or two buttons?	
○ One button ● Two buttons	
Please select inputs and outputs:	
Inputs	
Trigger Up ?     X Digital input (Dl1) (Smart Server) Bedroom 1_Blinds_Trigger Up	
▶ Trigger Down ?	
Outputs	
Is Moving Up ?	
Is Moving Down ?	
configuration is not finished	ОК

The status of the settings is shows in the lower left corner. If it is orange, not all required Inputs or Outputs have been defined. If everything is configured correctly, the status changes to green. After clicking on "OK" field the function assistant closes.

Wizard		_ = ×
	Livingroom - Blinds	
• Have you got one or two buttons?		
One button  • Two buttons		
<ul> <li>Please select inputs and outputs:</li> </ul>		
Inputs		
🕨 Trigger Up  ?		
🗙 Analog input (Al1) (Smart Server)	Livingroom_Blinds_Trigger Up	
Trigger Down ?		
🗙 Analog input (Al2) (Smart Server)	Livingroom_Blinds_Trigger Down	
Outputs		
Is Moving Up ?		
Digital output (DO1) (Smart Server)	Livingroom_Blinds_Is Moving Up	
► Is Moving Down ?		
🗙 Digital output (DO2) (Smart Server)	Livingroom_Blinds_Is Moving Down	
	▶	
	~	
configured		ОК

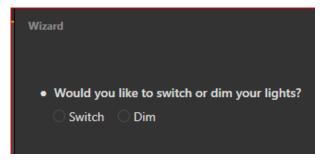
## 2.2.3 Create a light function

To create a light function, click on the light symbol in the room.



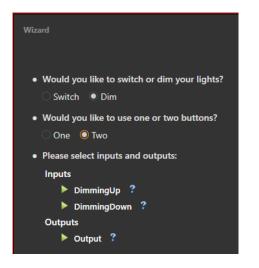
# P

After clicking, the settings for the light module are made. The first think to select is whether the light is dimmable or switchable.



By selection Switch or Dimmer, different menus are displayed, which define the behaviour and settings.

The assignment of Inputs and Outputs is the same as described in chapter **Fehler! Verweisquelle konnte** nicht gefunden werden.

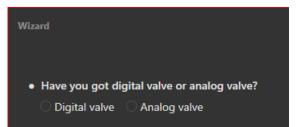


## 2.2.4 Create a heating function

To create a heating function, click on the radiator symbol in the room.



After clicking, the settings for the heating module are made. The first think to select is whether an analogue valve (0-100%) or a digital valve (open / closed) is present.



By selection Digital valve or Analog valve, different menus are displayed, which define the behaviour and settings.

The assignment of the Inputs and Outputs is the same as described in chapter **Fehler! Verweisquelle konnte nicht gefunden werden.** 



Wizard				
		Bathroom1 - Heating	9	
	al valve or analog valve?			
<ul> <li>Digital valve</li> </ul>	Analog valve			
<ul> <li>Have you got a win</li> </ul>	ndow contact?			
🔍 Yes 🔷 No				
• Please select inputs	s and outputs:			
Inputs				
IsRoomTemp	perature ?			
WindowIsOj	pen ?			
Outputs				
AnalogValve	2 ?			
		Time program setting	gs	
	TimeProgram1 •	🗸 Mo 🗸 Tu 🗹 We 🗸 Th	🗸 Fr 🗸 Sa 🗸 Su	
	Add new time program	Time	▲ Heating	
	Remove time program	* 06:00	•	22
	Keniove unie program	22:00		16
	Add switch point			
	Remove switch point			
configuration is not finished	4			
configuration is not finished	a			ОК

A heating program can be set in the lower part of the window.

		Time p	orogram	settings					
TimeProgram1	~	Mo 🗹 Tu	✔ We	🗸 Th	~	Fr 🗸 Sa	✓ Su 1.		
Add new time program		Time				Heating			
	•	06:00 2.						22	
Remove time program		22:00						16	
Add switch point									
Remove switch point									

- 1. Active days for the time program
- 2. Time of the switch point
- 3. Desired temperature for the switch point

Up to 7 heating programs can be created (max. one per day).

# 2.2.5 Status of created functions

The third column shows the status of the respective function in the respective room.

Green: Correct and completely configured Yellow: Not fully configured Grey: Not used

V1.11



Wizard				×
		Rooms		
Nar	me	Category	Function	S
💾 Kita	chen	Kitchen		
<b>∆</b> r Bat	throom1	Bathroom		

# 2.2.6 Finish assistant

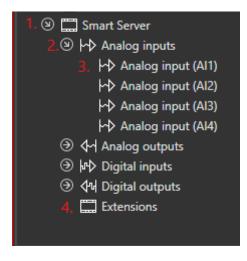
Clicking on the "Finish" button closes the wizard and all settings are applied in the project. Additional settings or functions can be added, but without a wizard.

# 3 Device Management

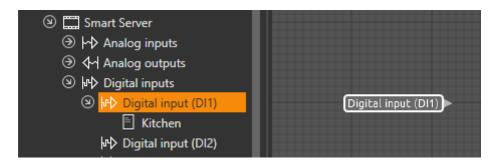
# 3.1 Devices in project tree

All the devices used in the project are added to the project tree. To install the devices properly, follow the steps.

- 1. A Smart Server or Radio Server is always visible at the top.
- 2. Group of an Input or Output category: All Inputs and Outputs are grouped together, such as "Analog Inputs".
- 3. Available Inputs and Outputs per group.
- 4. Extensions connected to the server.



If any Input or Output is added to a drawing page, it is displayed in the device tree. So it is clear on which drawing pages this is used.





Double-click on the Input / Output in the drawing page to select it directly. If you click on the room in the device tree, the drawing page is opened directly.

# 3.2 Extensions

## 3.2.1 Add Extensions (Devices)

All extensions can be added without running system. To add a new device, simply click on the "Add Extension" menu. A new window will open.

Add extension						
Devices:			Name	Count	Serial number	
DALI Modul 1.		🗘 Add				
Connected devices:	- 0					
				Cancel		

- 1. Select desired extension (Device)
- 2. Select a number of extensions
- 3. Click Add

After clicking "Add", the devices are listed in the list on the right side. Now you can add more devices or click on the "Add" button below to complete the process.

Add extension						
Devices:			Name	Count	Serial number	
DALI Modul	0 📫		DALI Modul	1		
Connected devices:	Ð					
Add				Cancel		

To complete the process and insert all devices into the project, select the "Add" button below.

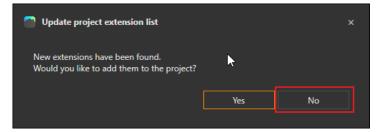
The added devices are now marked in yellow in the project tree.



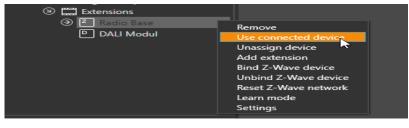
## 3.2.2 Allocate or replace device

A device marked in yellow means that it has not yet been allocated to a physical device. To change this, the server must be first connected to a PC. For a detailed description see chapter 4.0.

If this window appears when connecting to the server, select "No".



Click on the desired device with the right mouse button and select the desired item in the context menu.



A new window opens with all compatible devices in the list. If no device appears, this may be because there are no new devices in the system or the devices are not compatible with the selected device.

Use connected device	•	×	
Connected devices:		- 0	
Reload	ОК	Cancel	

Clicking on the selection menu, displays the list of devices with serial number.





After a device has been selected from the list, click on the "OK" button, and the selected device is added to the project tree. The serial number is now displayed in the properties menu and the yellow marking is removed.

Smart Server		
	s	
④ ᡧ┥ Analog outpu	uts	
④ № Digital inputs		
③ 색 Digital outpu	its	
Extensions		
DALI Mod	lut	
I Z Radio Bas	ie i	
∋ 🕀 Radio	Valve	
∋ 🗐 Radio	Window /Door Contact	
③ Å Radio	RGBW Modul	
Properties		
Properties     E		
	, , ,	
E	ب ب DALI Modul	
E E Search		-
<ul> <li>Bearch</li> <li>Oevice</li> <li>Name</li> </ul>		-
<ul> <li>Bearch</li> <li>Device</li> <li>Name</li> <li>Room</li> </ul>	DALI Modul	_
<ul> <li>Search</li> <li>Device</li> <li>Name</li> <li>Room</li> <li>Serial number</li> </ul>	DALI Modul	]
B E Search (3) Device Name Room Serial number Id	DALI Modul	-

If you want to replace an existing device, this can be done in the same way.

## 3.2.3 Add devices - Server connected

If new devices are connected to the server, the following window appears after connecting to the server.

Update project extension list			×
New extensions have been found. Would you like to add them to the project?	k		
	Yes	No	

After clicking on "Yes", all extensions in the system are added to the project. This can also be done later via the menu "Add extension".

If "No" is selected, devices can be added later using the "Add extension" menu. All devices that are available in the system are listed. After one click on "Add" button, all they are added to the list on the right. Devices that should not be included can still be removed. After clicking the "Add" button below, all devices in the right list will be included to the project.



Add extension						
Devices:			Name	Count	Serial number	
DALI Modul		Add				
Connected devices:						
Radio Base	- 🚯	Add				
		N				
				Cancel		

#### 3.2.4 Rename extension

At first, select the device in the project tree. Then a new name be set in the properties window.



# 3.3 Input and Output settings

Depending on the type, Inputs and Outputs may have different settings.

#### 3.3.1 Rename Inputs and Outputs

Select an Input / Output in the project tree. After selecting it, this can be set by a new name in the properties window.



④ ♥٩ Analog outputs ④ Ⅳ Digital inputs ④ ଐ Digital outputs ④ 때 Extensions □ DALI Modul					
Properties	д				
🗄 🔳 Search					
() Common	-				
Name	Analog input (Al1)				
Default value	0				
Device					
Device name	Smart Server				

# 3.3.2 Analog Inputs

An analogue Input can also be configured as a sensor Input or digital Input, depending on the device.

Subser interface	
Room	Schlafzimmer
Category	
Sconfiguration	
Analog 0-10V	-
Analog 0-10V	
Digital	
NTC 10k	
PT1000	
РТС	
NTC 5k	
Upper limit of c	10

Depending on this setting, there are different settings for corrections.

For the 0-10V mode a linear scaler and an offset can be set. The scaler is only active if the option "Correction active" is selected.



rioperties	
🗄 🗮 Search	
(S) Common	
Name	Analog input (Al1)
Default value	0
(S) Device	
Device name	IO Modul
(9) User interface	
View on myTEM App	
Category	
(a) Configuration	
Analog 0-10V	
(a) Correction	
Offset	0
Correction enabled	
Lower Limit	0
Lower limit of correction value	0
Upper limit	10
Upper limit of corrected value	10

#### 3.3.3 Analog outputs

Analog outputs can be indicated in 0-100% or 0-10V. If 0-100% is selected, this is then converted to the physical value 0-10V.

() Device	
Device name	IO Modul
() User interface	
View on myTEM App	
Category	
Sconfiguration	
0-100%	
0-100%	
0-10V	

# 3.4 **Z-Wave Devices/Extension**

To use Z-Wave, a Radio Server or a Smart Server with Radio Base extension needed. To actively integrate the devices into the system, you must be connected to the server (see Chapter 4).

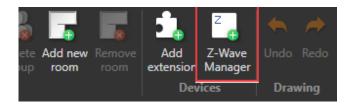
It is possible to have several radio base extensions in one system. In this case, a window opens for selection.

Z-Wave manager (selection device)	×
Select device to open Z-Wave manager:	
Radio Base	-
Radio Base	

Z-Wave devices are linked to the selected device and stored. This data is also available in the project after deleting!

If Radio Server or Radio Base is selected, the "Z-Wave Management" menu becomes active.





By clicking on the "Z-Wave Manager" menu, opens the management window for Z-Wave devices.

A LL Damage	Beert entrusting Large	Timer Mit	Refrest
Add Remove	Reset network Learn	mode Trigger Nif	Refrest
box Name	Serial number	Security Actions	

# 3.4.1 Add device

Click on button "Add".

Z-Wave ma	anager - I	Radio Server (130A0	91001000002343(	)077EA) [Home I	D: E83A1BAB	• Role type: S
Ado	ł	Remove	Reset network	Learn mode	Trigge	r Nif
Toolbox	Name		Serial number		Security	Actions

Now it switch to the connection mode. After, this can also be done with the device. (Described in the manual of the Z-Wave device)

Find Z-Wave device - Radio Server (130A0910010000023430077EA)				
Accepted Inclusion process has started.				
	Abort			

After a few seconds the device will be recognized and the configurations will be loaded. This can take a few minutes.



	Server (130A0910010000002	3430077EA)		×
Accepted Device added to network, loading configuration.			►	
Bind device	Abort	Finish	Manage device	

When this is complete, the connection process can be started again to connect additional devices or the window can be closed.

(;	Find Z-Wave device - Radio Server (130A0910010000023430077EA)				×
	OK Node added in secure mode.				
[	Bind device	Abort	Finish	Manage device	

In the management window, displays the new device in the list.

Z-Wave manager - Radio Server (130A09100100000023430077EA) [Home ID: E83A1BAB • Role type: SIS]									
Add Remove Reset network Learn mode Trigger Nif							Refresh		
Toolbox Name Serial number Security Actions									
Radio Motion 000000000000000000000000000000000000		S2			Set interval	Is failed	Replace failed	Remove failed	

This is now connected to the Radio device but not yet available in the project. To add the device to the project, the Add button must be clicked. This icon always indicates that, the device is connected to the Radio device, but not added to the project.

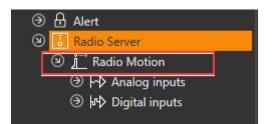
Z-Wave ma	nager - Radio Server (130A0910	00100000023430077EA) [Home	D: E83A1BAB	• Role type: SIS]				×
Add	Remove F	Reset network Learn mode	Trigger	r Nif				Refresh
Toolbox	Name	Serial number	Security	Actions				
<b>2</b>	Radio Motion	000000300000000e83a1bab06	S2		Set interval	ls failed	Replace failed	Remove failed

After clicking, the icon turns green and the device is present in the project tree. Now the management window can be closed and the Inputs and Outputs in the drawing pages can be used.

Z-Wave manager - Radio Server (130A0910010000023430077EA) [Home ID: E83A1BAB • Role type: SIS] ×										
Ad	Add         Remove         Reset network         Learn mode         Trigger Nif         Refresh									
Toolbox	Name	Serial number	Security	Actions						
Z         Radio Motion         000000300000000e83a1bab00			S2			Set interval	Is failed	Replace failed	Remove failed	

In the project tree, the devices are always placed below the Radio device in order to identify to which device the Z-Wave device was added.





#### 3.4.2 Remove device

Click on "Remove" in the management window:

Z-Wave ma	anager -	Radio Server (130A0	91	0010000023430	077EA) [Home	D: E	83A1BAB	• Role 1	ype: S
Ade	Add Remove			Reset network Learn mode			Trigger	• Nif	
Toolbox	ox Name		Serial number			urity	Action	5	
	Z Radio Motion			000000300000000e83a1bab06					

Remove mode has been started. This window appears:

Accepted Exclusion process has started.									
	Abort		Remove device from the project						

Run the unbinding mode on the device to be removed (see manual of the Z-Wave device).

If the remove mode was successfully performed, "OK" displayed. Now the window can be closed or further devices can be removed.

Onbind Z-Wave device - Radio Server (130A0910010000023430077EA)									
Click on 'Unbind device' button to start process									
Unbind device Abort Finish Remove device from the project									

Removing devices also works if they are not in the list of devices or if you are not sure if the device has already been removed.

#### 3.4.3 Set Learn Mode

Click on "Learn Mode" in the management window to set Radio Server or Smart Server to Learn Mode:

Z-Wave manager - F	Radio Server (130A)	091001000002343	0077EA) [Home ID:	E83A1BAB • Role 1	e: SIS]	
Add	Remove	Reset network	Learn mode	Trigger Nif		

After the learning mode has started, the DSK (Device-Specific key) displays. The learn mode can only started if any Z-Wave slave device are not connected to the Radio Server or Smart Server.



(í·	Learn mode - Radio Server (130A0910010000023430077EA)         ×           Accepted           Device-Specific key: 58662         -37889-12162-01163-27200-13175-37212-06497           Start         Abort         Finish			
	Device-Specific key:		0-13175-37212-06497	
		Abort	Finis	

#### 3.4.4 Include Radio Server or Smart Server to existing network

To add the Radio Server or Smart Server into an existing network, first set the controller with the existing network into inclusion mode and then click on "Learn Mode". The learn mode can only started if any Z-Wave slave device are not connected to the Radio Server or Smart Server.

Z-Wave manager - I	Radio Server (130A	09100100000023430	0077EA) [Home ID: E	83A1BAB • Role	type: SIS]	
Add	Remove	Reset network	Learn mode	Trigger Nif		Refresh
		le la				

#### 3.4.5 Status-overview

Device available, but not added to the project:

Z-Wave manager - Radio Server (130A09100100000023430077EA) [Home ID:									
Ado	Add Remove			Reset network					
Toolbox	Name			Serial number					
<b>7</b>	Radio Motion			000000300000000e83a1bab06					

Device is available in the project as well on the server:

Z-Wave manager - Radio Server (130A09100100000023430077EA) [Home ID: E83A1BAB • F										
Ad	d	Remove		Reset network			Trigg	er Ni		
Toolbox	Name			Serial number	Security A		Ac			
2	<sup>2</sup> Sensor Notification			000000300000000e83a1bab07			S2			
		L	•							

Device is only available in the project, but not on the server. To use this again, it must first be replaced with a new device:

Z-Wave Manager - Radio Base (010101201046001C000B513632) [I										
Hinzufi	igen	Entfernen	Ne	Netzwerk zurücksetzen						
Toolbox	Name			Seriennummer						
Z	Radio W	indow /Door Conta	ct	000000300000000c82						

This can be done with the "Add" button, which is displayed in the list. The process is the same as in chapter 3.4.1.



Z-Wave manager - Radio Server (130A09100100000023430077EA) [Home ID: E83A1BAB • Role type: SIS]										
Add		Remove		Reset network	Learn mode	mode Trigge		Nif		
Toolbox	Name		Serial number		Security		Actions			
Z	Sensor Notification			000000300000000e83a1bab07					Add	

## 3.4.6 Control devices via On / Off

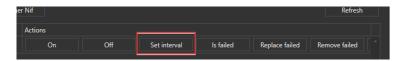
With On and Off a device can be switched on and off to check the function.



The available functions differ depending on the device and are described in the operating manual of the respective device.

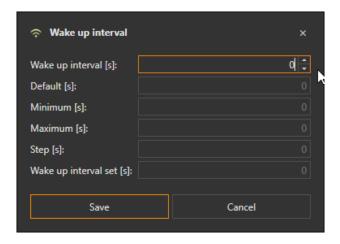
#### 3.4.7 Set interval of the devices

For battery- powered devices, the set interval can be set by clicking on "Set Interval".



The available functions differ depending on the device and are described in the operating manual of the respective device.

With "Set interval" a new set interval can be set. The new Set interval is only sent when the device wakes up. Depending on the previous setting, this can take a several hours. Most devices can be woken up by pressing buttons on the device. With " Wake up interval ready to send" you can see which wakeup interval is sent when the device wakes up. With a click on "Check" you can check the current wakeup interval set on the device, after pressing Check a message appears with the message to wake up the device.



## 3.4.8 Check if a device is reachable

The reachability of devices can be checked by clicking on "Is failed?".





A message will be displayed indicating whether the device can be reached or not.



#### 3.4.9 **Replace device**

With "Replace", device that are no longer reachable can be replaced. Reachable devices must be replaced by the general function "Remove" an "Add" at the top of Z-Wave management. See chapters 3.4.1 and 3.4.2.



#### 3.4.10 Remove device

With "Remove", devices that are no longer reachable can be removed. Reachable devices must be replaced by the general function "Remove" at the top of the Z-Wave administration. See chapter 3.4.2.



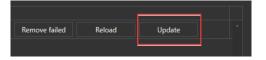
#### 3.4.11 Reload device

By clicking on "Reload" the device configuration can be reloaded if something is not working properly.



#### 3.4.12 Update device

By clicking on "Update" you can update a Z-Wave device over the wireless to a new version.

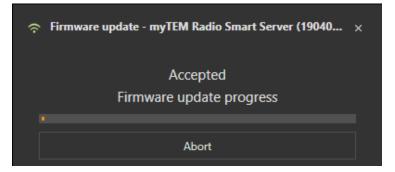


First, the manufacturer ID, the firmware ID and the firmware version are displayed. After clicking on "Continue" you have to select the file for the corresponding device.

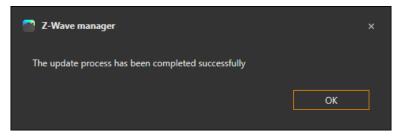




Afterwards the update will be started. The update process can take a few minutes.

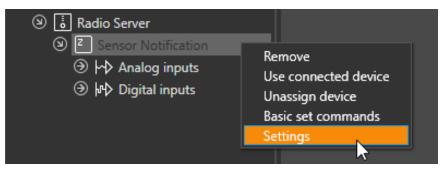


If the update was successful, a message will be displayed.



#### 3.4.13 Device settings

By clicking the right mouse button in a Z-Wave device and selecting "Settings" the parameter can be adjusted.



If the device supports the displaying the parameters, they are displayed, otherwise they must be added by pressing the plus sign.



		Name	Value	Min	Max	Default	Size	Description	
× × ×		Main voltage (V)	230	50	280	230		see manual	
×		Phase shift - cos (phi) 0.01	100	0	100	100		see manual	
×	3	Send interval power [min]	5	1	120	5		see manual	
×	4								
									<b>▶</b>
	<b>5</b> A1								6
	<b>)</b>    N								

All "Z-Wave Always On Slave" (AO) are sent the configuration when you click "Save".

# 3.4.14 Reset Z-Wave to Factory Settings

To Reset Z-Wave part to the factory settings click "Reset network":

Z-Wave manager -	Radio Server (130A	0910010000023430	)077EA) [Home ID:	E83A1BAB • Role ty	pe: SIS]
Add	Remove	Reset network	Learn mode	Trigger Nif	

This will reset all network settings to factory settings and send a "Device Reset Locally Notification".

If this controller on your network is a "Primary Controller", reset causes devices on your network to be referenced. If this controller is used as a "Secondary Controller" in your network, use this procedure to reset this controller only if the "Primary Controller" is not available in your network.

### 3.4.15 Include devices from multiple manufacturers in one network

Smart Server or Radio Smart Server from myTEM can be operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

### 3.4.16 Initiate a Replication

Copy (replication) is the process of updating network information from one controller to another controller. There are: lists of nodes or routing information.

- 1. Set the Radio Server into "Add" mode, as described in that chapter.
- 2. Set the "Secondary Controller" into Learn Modes. The description can be found in the manual of the manufacturer of this controller.



# 3.4.17 Send a "Node Information Frame"

To send a "Node Information Frame" click on "Trigger Nif": Z-Wave manager - Radio Server (130A0910010000023430077EA) [Home ID: E83A1BAB • Role type: SIS] Add Remove Reset network Learn mode Trigger Nif

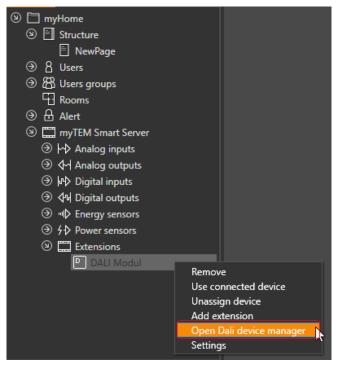
# 3.4.18 Behavior of Radio Server Receiving a Basic Command

The Radio Server ignores received "Basic Commands".

# 3.5 DALI- Devices

To use DALI you need a DALI modul. To actively integrate the devices in the system, you have to be connected to the server (see Chapter 4).

With the right mouse button in the tab Projects click on the corresponding DALI extension to open the device manager.



A new window opens and an automatic scan for devices is executed.

For the next steps all DALI devices must be running and functionally integrated in the system, i.e. connected to the DALI Bus.

### 3.5.1 Initialize DALI

To reinitialize all devices and assign a new address, click on the "New Address" button. After that, each device is assigned a new address or the existing address is overwritten.



		Number of	converters	0 ÷	Groups						
ject Address	Туре	Name	Groups	Basic set	Project	Address	Туре	Name	Basic set		
						0			On	Off	
									On	Off	
									On	Off	
									On	Off	
						4			On	Off	
									On	Off	
						6			On	Off	
									On	Off	
						8			On	Off	
						9			On	Off	
						10			On	Off	
						11			On	Off	
						12			On	Off	
						13			On	Off	
						14			On	Off	
						15			On	Off	

The addressing process may take a few minutes for some devices. When the process is finished, all DALI devices are listed in the left list.

ber o	f converters	0 📫	Devices			Numbe	r of c	onverters	0 🗧	Groups	Groups			
	Address	Туре	Name	Groups	Basic set				Туре	Name	Basic set			
Ŵ	0	Dali Dimmer			On	8		0			On	Off		
											On	Off		
											On	Off		
											On	Off		
								4			On	Off		
											On	Off		
								6			On	Off		
											On	Off		
								8			On	Off		
								9			On	Off		
								10			On	Off		
								11			On	Off		
								12			On	Off		
								13			On	Off		
								14			On	Off		
								15			On	Off		

These devices are not included on the project yet. The addresses are saved on the DALI Devices itself.

### 3.5.2 Add device to project

To add a DALI device to the project, click on the green symbol.



Number of	converters	0
Project	Address	Туре
<b>( + )</b>	0	Dali Dimmer

The green "Plus" symbol changes to a "Hook" after click and the devices is listed under the DALI extension.

Imperation (Section 2)	_	
Structure		Dali device
🖹 NewPage		Dall device
∂ Users		
⑦ 恐 Users groups		
P Rooms		Number of
Room		Project
) 🔒 Alert		6
myTEM Smart Server		
④ ↓ Analog outputs		
④ ₩> Digital inputs		
⊙ 색 Digital outputs		
Extensions		
DALI Modul		

### 3.5.3 Change the device name

The device name can be changed later on the project three or directly on the list.

Number of	converters	0 🗧			
Project	Address	Туре	Name	Groups	Basic set
🔞 🐨	0	Dali Dimmer	Dining Room		On

### 3.5.4 Test Device

A DALI device can always be switched on and off directly by using the "On" and "Off" buttons, provided it is available in the list. This serves for easy identification of the individual devices or the colour channel.

Number of	converters	0				
Project	Address	Туре	Name	Groups	Basic set	
🔞 🖗	0	Dali Dimmer	Dining Room		On	Off

### 3.5.5 Extension of the existing DALI system

To extend an existing DALI System, if already addressed devices exist, the new devices must be integrated into the system. These devices must not have any DALI address, otherwise address conflicts will occur and not all devices can be detected correctly.

To start the process click on the "Address new devices" button.



Dali device	e manager - I	DALI Modul (0101	1012011208005000851	3734)							×
			Devices							Groups	
Number of	f converters	0					Number	of converters	0		
Project	Address	Туре	Name	Groups	Basic set		Project	Address	Туре	Name	Basic set
8	0	Dali Dimmer	Dining Room		On	Off		c			On
											On
								2			On
								3			On
								4			On
								5			On
								6			On
								7			On
								8			On
								g			On
								10			On
								11			On
								12			On
											On
								14			On
											On
Scar	n	Readdress	Find new								Next hint

The system searches for new devices without an address, a new address is then assigned. The new devices are displayed in the left hand list.

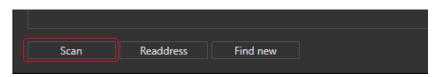
mber of conv	erters 0 🜲	Devices			Ni	converters		Groups			
oject Add		Name	Groups	Basic set	Project	Address	U 🚽 Type	Name	Basic set		
	Dali Dimmer	Dining Room	Gloups	On		0		Nume	On	Off	
🚖 🖗 🛛 1	Dali Led Dimmer			On		1			On	Off	I
è 🖗 2	Dali Led Dimmer			On					On	Off	
b 🕡 3	Dali Led Dimmer			On					On	Off	
4 🗑 🗑	Dali Led Dimmer			On		4			On	Off	
									On	Off	
						6			On	Off	
									On	Off	
						8			On	Off	
						9			On	Off	
						10			On	Off	
									On	Off	
						12			On	Off	
						13			On	Off	
						14			On	Off	
						15			On	Off	

The new devices can now be added to the project (see Chapter 3.5.2).

If a new project is created and the DALI devices are already addressed, the system can be read in.

The process is started by clicking the "Scan" button. When opening the DALI Device Manager a scan is automatically executed.





All connected and already addressed devices are listed on the left side and can be added to the project (see chapter 3.5.2).

umber of converters	0	Devices			Number	f converters	0 📫	Groups		
roject Address	Type	Name	Groups	Basic set	Project	Address	о ұ Туре	Name	Basic set	
	Dali Dimmer	Dining Room	Groups	On	- R R	0		Hume	On	Off
🖕 🖓 👔	Dali Led Dimmer			On		1			On	Off
🏚 🖗 2	Dali Led Dimmer			On		2			On	Off
🊡 🖗 3	Dali Led Dimmer			On		3			On	Off
🗟 🗑 🛛 4	Dali Led Dimmer			On		4			On	Off
						5			On	Off
						6			On	Off
						7			On	Off
						8			On	Off
						9			On	Off
						10			On	Off
						11			On	Off
						12			On	Off
						13			On	Off
						14			On	Off
						15			On	Off

# 3.5.6 Create Groups

DALI devices can be connected to one or more group addresses (up to 16 groups). The group settings are displayed on the right side.

To add a device to a group, select the corresponding group in the left column "Group".

Aurilier of convertes     0       Project     Address     Type     Name       Image: Solution of the state of the st	Groups  Groups  (Select All)  O  1  2  3  4  5	Basic set On	Project           @         @           @         @           @         @           @         @           @         @	Address 0 1 2	0 🗘 Туре	Name	Basic set On On	Off
Image: Constraint of the second sec	0 1 2 3 4	On		1				
Image: General system     2     Dali Led Dimmer       Image: General system     3     Dali Led Dimmer	0 1 2 3 4						On	0"
							On	Off
🏠 🕜 4 Dali Led Dimmer							On	Off
							On	Off
							On	Off
							On	Off
							On	Off
	8						On	Off
							On	Off
				10			On	Off
	12						On	Off
							On	Off
							On	Off
	ОК	Cancel		14			On	Off
				15			On	Off



mber of	converters		Devices			Number	of converters		Groups		
oject	Address	Туре	Name	Groups	Basic set	Project	Address	Туре	Name	Basic set	
ي 🕲	0	Dali Dimmer	Dining Room	0	On ^	🕞 😯		0 Dali Dimmer	Group of Dali Dimmer	On	Off
ي		Dali Led Dimmer			On					On	Off
۰		Dali Led Dimmer			On			2		On	Off
€ €		Dali Led Dimmer			On			3		On	Off
€ ⊕	4	Dali Led Dimmer			On			4		On	Off
								5		On	Off
								6		On	Off
								7		On	Off
								8		On	Off
								9		On	Off
							1	0		On	Off
										On	Off
							1	2		On	Off
								3		On	Off
							1.	4		On	Off
							1	5		On	Off

After creating the group, click on the button "Save groups". This writes the settings to the devices.

The groups are listed on the right side. The groups can be managed and tested in the same way as the devices themselves (see chapter 3.5.2 - 3.5.4). In the project tree, a group is represented like a device, with one output. This enables a very simple use of group addresses.

9 🖻	DA	LI Modul
9	ð	Dining Room
Э	Å	Dining Room Group

#### 3.5.7 Create RGB(W) Devices

If you want to operate one RGB(W) LED strip (as colour control), several DALI addresses (one address per colour) can be combined to one device.

er - DALI Modul (010101201120800B0008513734) Devices Number of c Add Na 0 Dali Led Din 0 Dali Led D 6 Din On 6 1 Dali Led Di ng 6 3 Dali Led D On Off 4 Dali Led Dimme 6 5 Dali Led Dimme On 6 6 Dali Led Din On 6 7 Dali Led Din 8 Dali Led Di On On On Next hin

If the "Number of converter devices" is increased, a new column "Convert" is displayed.



Now the respective color can be selected in the "Converter" column.

Tip: The colours can be identified using the On/Off button.

			)evices				Number of co	nverters 0 🗘 Save o	Groups			
oject Address	Туре	Name	Groups	Convert	Basic set		Project A	ddress Type	Name	Basic set		
0 😡 🚯	) Dali Led Dimmer	Dining room		D1 - Red	On	Off	<b>@ @</b>	0 Dali Led Dimmer	Dining room	On	Off	
1 🖗 🖢	Dali Led Dimmer	Dining room		D1 - Green	On	Off	ନ୍ତି 🖓	1 Dali Led Dimmer	Living room	On	Off	
2 🖓	2 Dali Led Dimmer	Living room	1	-	On	Off		2		On	Off	
<b>)</b> 🖗 3	B Dali Led Dimmer	Living room			On	Off		3		On	Off	
	Dali Led Dimmer			D1 - Red D1 - Green		Off				On	Off	
<b>)</b> 🖗 5	5 Dali Led Dimmer			D1 - Blue	On	Off				On	Off	
	5 Dali Led Dimmer			D1 - White	On	Off				On	Off	
	7 Dali Led Dimmer				On	Off				On	Off	
8	B Dali Led Dimmer				On	Off				On	Off	
											Off	
								10			Off	
											Off	
											Off	
											Off	
								14			Off	
											Off	

If all is completely configured, a new "Add" symbol is displayed.

			D	evices								Groups			
mber of	converters						N	umb	er of o	converters	1 🗘 Save	groups			
oject	Address	Туре	Name		Basic set					Address	Туре	Name	Convert	Basic set	
<b>)</b>		) Dali Led Dimmer			On	Off		6	_		0 Dali Led Dimmer	Group of Dali Led Dimmer	G1 - Red	On	Off
•		Dali Led Dimmer				Off		۲			1 Dali Led Dimmer	Group of Dali Led Dimmer	G1 - Green		Off
9	2	2 Dali Led Dimmer				Off		6		2	2 Dali Led Dimmer	Group of Dali Led Dimmer	G1 - Blue		Off
	3	B Dali Led Dimmer			On	Off		6	6		B Dali Led Dimmer	Group of Dali Led Dimmer	G1 - White	On	Off
	4	Dali Led Dimmer			On	Off				4	4			On	Off
	5	5 Dali Led Dimmer			On	Off					5			On	Off
	e	5 Dali Led Dimmer			On	Off				(	5			On	Off
0	7	7 Dali Led Dimmer			On	Off					7			On	Off
		B Dali Led Dimmer		2	On	Off				8	В			On	Off
										9	9			On	Off
										10	D			On	Off
											1			On	Off
										12	2			On	Off
											3			On	Off
										14	4			On	Off
										15	5			On	Off

The individual colours can be combined into one color device and added to the project by clicking the "+" in the red marked field.

It can be added to the project as a device and is now displayed as "On" color device.

# 3.5.8 Create RGB(W) Group

If you want to control several RGB(W) LED strips as a group, you can combine several DALI (RGB(W) device into one group.

You have to select each color of all devices you want to have in the group and put them in a group (e.g. red to group 1, green to group 2 etc.). When all groups are configured, they have to be you saved in the devices by clicking the button "Save groups"

Tip: By using On/Off button on the devices and group, the color can by identify.



Dali device	manager -	DALI Modul (0101	01201120800B000851	3734)									×
			D	Devices						Groups			
Number of	converters						Number of	f converters	0 🗘 Save <u>c</u>	groups			
	Address		Name	Groups	Basic set			Address	Туре	Name	Basic set		
@ @	0	Dali Led Dimmer			On	Off			Dali Led Dimmer	Group of Dali Led Dimmer	On	Off	
😨 🐨		Dali Led Dimmer			On	Off	ନ୍ତି 🖗		I Dali Led Dimmer	Group of Dali Led Dimmer	On	Off	
ନ୍ତି 🖗	2	Dali Led Dimmer			On	Off	ନ୍ତି 🖗		2 Dali Led Dimmer	Group of Dali Led Dimmer	On	Off	
ନ୍ତି 🖗	3	Dali Led Dimmer			On	Off	ନ୍ତି 🖓		B Dali Led Dimmer	Group of Dali Led Dimmer	On	Off	
ନ୍ତି 🖗	4	Dali Led Dimmer			On	Off			4		On	Off	
😧 🕤		Dali Led Dimmer		-	On	Off			5		On	Off	
	6	Dali Led Dimmer		(Select All)		Off			5		On	Off	
	7	Dali Led Dimmer		0: Group of Da		Off			7		On	Off	
	8	Dali Led Dimmer		2: Group of Da		Off			3		On	Off	
				☑ 3: Group of Da	li Led Dimmer				)		On	Off	
								1			On	Off	
									I		On	Off	
									2		On	Off	
				8					3		On	Off	
								1.	1		On	Off	
								1	5		On	Off	
				12 13									
				14									
				ОК	Cancel								
Sca		Readdress	Find new										Next hint

If the "Number of converter devices " is increased for the groups, a new column "Convert" is openend for the groups.

			D	evices						Groups			
	onverters							of converter					
		Туре	Name		Basic set		Project		Туре	Name	Convert	Basic set	
• • •		Dali Led Dimmer			On	Off			0 Dali Led Dimmer	Group of Dali Led Dimmer			Off
		Dali Led Dimmer				Off			1 Dali Led Dimmer	Group of Dali Led Dimmer			Off
		Dali Led Dimmer				Off			2 Dali Led Dimmer	Group of Dali Led Dimmer			Off
		Dali Led Dimmer				Off			3 Dali Led Dimmer	Group of Dali Led Dimmer			Off
		Dali Led Dimmer			On	Off							Off
		Dali Led Dimmer		•	On	Off						On	Off
		Dali Led Dimmer				Off							Off
		Dali Led Dimmer				Off							Off
	8	Dali Led Dimmer				Off						On	Off
							1 8 9		9			On	Off
									10			On	Off
									11			On	Off
									12			On	Off
									13				Off
									14			On	Off
									15			On	Off

The corresponding color can now be selected in the "Convert" column.



			0	Devices					Groups			
lumber of co	onverters						Number o	f converters 1 🗘 Save	groups			
	Address	Туре	Name	Groups	Basic set		Project	Address Type	Name	Convert	Basic set	
<b>@ @</b>		Dali Led Dimmer			On	Off	^ <b>€</b>	0 Dali Led Dimmer	Group of Dali Led Dimmer	G1 - Red	On	Off
		Dali Led Dimmer				Off	<u><u></u></u>	1 Dali Led Dimmer	Group of Dali Led Dimmer	· ·	On	Off
		Dali Led Dimmer				Off		2 Dali Led Dimmer	Group of Dali Led Dimmer	G1 - Red	On	Off
		Dali Led Dimmer				Off		3 Dali Led Dimmer	Group of Dali Led Dimmer	G1 - Green	On	Off
		Dali Led Dimmer				Off				G1 - Blue	۲ On	Off
		Dali Led Dimmer				Off				G1 - White		Off
		Dali Led Dimmer			On	Off					On	Off
ନ୍ତି 🖗	7	Dali Led Dimmer			On	Off						Off
🔞 🖗 🚽	8	Dali Led Dimmer		2	On	Off	® ®				On	Off
											On	Off
								10			On	Off
											On	Off
											On	Off
											On	Off
								14			On	Off
											On	Off

If everything is configured completely, a new "Add" symbol is displayed.

			Devices						Groups			
imber of convert	ters 0 📮					Numb	er of converter		groups			
roject Addre		Name	Groups	Basic set		Proje			Name	Convert	Basic set	
۵ 🖗	0 Dali Led Dimmer			On	Off	<u> </u>		0 Dali Led Dimmer	Group of Dali Led Dimmer	G1 - Red	On	Off
۰	1 Dali Led Dimmer				Off	<del>6</del> )		1 Dali Led Dimmer	Group of Dali Led Dimmer	G1 - Green		Off
۰	2 Dali Led Dimmer			On	Off	<del>@</del>		2 Dali Led Dimmer	Group of Dali Led Dimmer	G1 - Blue	On	Off
۵ 🖗 🔒	3 Dali Led Dimmer			On	Off	<del>و</del>		3 Dali Led Dimmer	Group of Dali Led Dimmer	G1 - White	On	Off
6 🖗 🔒	4 Dali Led Dimmer			On	Off						On	Off
6 🖗	5 Dali Led Dimmer			On	Off						On	Off
è 🖗	6 Dali Led Dimmer			On	Off						On	Off
è 🖗 🚽	7 Dali Led Dimmer			On	Off						On	Off
b 😡	8 Dali Led Dimmer		2	On	Off						On	Off
											On	Off
								10			On	Off
											On	Off
											On	Off
											On	Off
								14			On	Off
											On	Off

The individual colours can be combined into one color device and added to the project by clicking the "+" in the red marked field.

It can be added to the project as a group and is now displayed as "On" color device.

# 3.6 Network devices

# 3.6.1 Generic Network Device Explorer

With the Generic Network Device explorer, you can display all devices that are on the same network as the server. To open the Generic Network Device explorer, right mouse click on the server and select Find Network Device.



When you open it, a search in the Network is started directly. All devices found are then displayed. The desired device can now be selected and added to the project by clicking on the Add button.

Name	Туре	IP	DNS	Port
HP\032OfficeJet\032Pro\0329010\	_uscantcp	10.3.0.106	HPF8B46A2F5BD3.local	8080
Brother\032HL-2150N\032series	_printertcp	10.3.1.110	BRN001BA9441E23.lo	515
TEMNAS04\032\09100\05811\058	_workstationtcp	10.3.1.50	TEMNAS04.local	9
1203398505	_teamviewertcp	10.3.1.213	ERP1.local	2020
HP\032LaserJet\032MFP\032M42	_ippstcp	10.3.1.135	NPI24194B.local	443
297439246	_teamviewertcp	10.3.0.136	TEM-473.local	2020
HP\032LaserJet\032MFP\032M42	_httptcp	10.3.1.135	NPI24194B.local	80
TEMNAS01	_afpovertcptcp	10.3.1.10	TEMNAS01.local	548
myTEM\032Smart\032Home\0321	_mytem-servicetcp	10.3.0.99	13081410010000002	8091
myTEM\032Smart\032Home\0321	_mytem-servicetcp	10.3.0.88	14031810010000002	8091
myTEM\032Smart\032Home\0321	_mytem-servicetcp	10.3.0.68	130A0910010000002	8091
bha-1CCAE371D86B\032\0911c\0	_workstationtcp	10.3.0.113	bha-1CCAE371D86B.I	9
TEM_489	_ni-logostcp	10.3.0.102	TEM-489.local	2343
Doorstation\032-\0321CCAE371D	_axis-videotcp	10.3.0.113	bha-1CCAE371D86B.I	80
TEM_286\032Web-based\032Conf	_httptcp	10.3.0.159	TEM-286.local	3582
HP\032LaserJet\032Pro\032M404	_ipptcp	10.3.1.138	HPF8B46A0A4F08.local	631
HP\032OfficeJet\032Pro\0329010\	_http-alttcp	10.3.0.106	HPF8B46A2F5BD3.local	8080

When adding a hostname, the hostname is already set you have to set the username and password. If necessary the settings port, certificate and protocol have to be adjusted.



V1.11

(a) Device	
Name	RC7020
Room	
Serial number	0000009000000000000000
ld	9
Version	
Settings	
Port	80
Hostname or IP	rc7020.local
User name	USER
Password	•••
Certificate	$\checkmark$
Protocol	нттр

# 3.6.2 **RC7020**

### 3.6.2.1 Add devices

The RC7020 can be added via the menu Extension added (Chapter 3.2.1) or if connected to the server the Generic Network Device explorer (Chapter 3.6.1)

### 3.6.2.2 Enter user data

User name and password must be set for authentication.

If the RC7020 is on the same network as the server, you can use the HTTP protocol on port 80. The hostname is <u>*rc7020.local*</u>, alternatively you can enter the IP address. Certificate must not be selected.

(a) Settings	
Port	80
Hostname or IP	rc7020.local
User name	USER
Password	•••
Certificate	
Protocol	нттр

When connecting via VPN, the HTTPS protocol and port 443 are required. As hostname you must enter the specific VPN connection URL. Certificate must not be selected.

Settings	
Port	443
Hostname or IP	vpn94.temdns.ch
User name	USER
Password	•••••
Certificate	
Protocol	HTTPS



# 3.6.2.3 Add Inputs and Outputs

Inputs and Outputs can be added with a right mouse click on the respective Input/Output group.

I RC7020	
	Add input/output
() In Digital inputs	~

When adding Inputs or Outputs, a pop-up window opens in where you can enter the path from the desired data point.

The path is composed of the following components separated by a slash:

Example:

- 1/ eBus path (always 1)
- 2/ eBus address of the controller
- 4/ Function number
- 3/ first part of the parameter ID50 second part of the parameter ID

Add content IO path ×		
Path:		
1/2/4/3/50		
	Add	Cancel

The meaning of the parameters and the path can be determined via RC7020. The RC7020 has a web server, which can be accessed directly (see Chapter 3.6.2.2)

	RC7020	[German] [English] Version: S 0.3.2; G 4.4.0
<ul> <li>Configuration</li> <li>System</li> <li>Scan (Devices and functions)</li> <li>Devices and functions</li> <li>Parameter monitoring</li> <li>Shortcut menu</li> </ul>	(1) eBus (2) 6324 OGZ A10 (3) 6324 OGZ A10 (0) GLOBALFUNKTIONEN (1) ZUSATZKESSEL (106) Settings (124) Relay outputs (126) Set and actual values (0) 02:53 State heat generator control (1) 02:80 Operation cycles (2) 02:81 Operation hours (3) 02:83 Operation hours (3) 02:83 Operation hours stage 2 (4) 02:82 Operation hours stage 2 (156) Configuration (2) KESSEL (3) SOLARFUNKTION (99) Settings (116) Relay outputs (119) Set and actual values (156) unknown section	<ul> <li>Index Name</li> <li>0 02:53 State heat generator control</li> <li>1 02:80 Operation cycles</li> <li>2 02:81 Operation hours</li> <li>3 02:83 Operation cycles stage 2</li> <li>4 02:82 Operation hours stage 2</li> <li>Reload list +</li> </ul>

After clicking Add, the new Inputs or Outputs is added. All settings are filled in automatically.



ws
POST
Content-Type: application/xml
xml version="1.0" encodi</td
<value>(.*)&lt;\/value&gt;</value>
10

The input for alarms is included with the digital Inputs and is preconfigured. In case of an alarm message, the alarm is set to "On".

# 3.6.3 **DoorBird**

### 3.6.3.1 Add Device

The device can be added using the menu Add Extension Chapter 3.2.1 or if connected to the server using the Generic Network Device Explorer Chapter 3.6.1. The DoorBird as Doorstation in the Generik Network Device Explorer. The type is <u>axis-video.\_tcp</u>.

Doorstation\032-\0321CCAE371D	_axis-videotcp	10.3.0.113	bha-1CCAE371D86B.I	80	

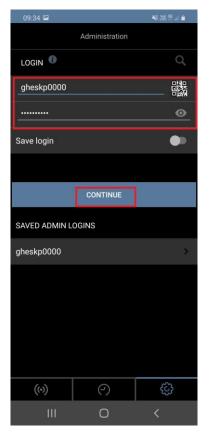
# 3.6.3.2 Assign API operator rights

In order for the Smart Home Server to communicate via the DoorBird API, the DoorBird user must be given API operator rights. The rights can be assigned with the DoorBird App. To do this, first select Settings and then Administrator.

09:31	NI 199 59 al 🗎	
Settings		
DEVICES		
gheskp0001 Gerät gheskp		
Add		
APP SETTINGS		
Hands-free mode		
Push2Talk	•	
Ignore Bluetooth Headset	•	
LAN only mode	•	
App security	2	
FURTHER FUNCTIONALITY		
Administration		
WiFi Setup	*	
Manual & Videos	2	
(0)	ŵ	
III O	<	

After that, you have to log in as Administrator.





### Then select the user.

07:11 🖺 🖬 Θ		NI 🖘 👷 🖬
	Administration	Save
USER		
gheskp0000 Administrator		
gheskp0001 gheskp0001, Call butt		
	Add	
OWNER EMAIL A	DDRESS	
paul.mustermann(	@tem.ch	
DEVICE NAME		
Device name		
CLOUD RECORDI	NG FREE	
Doorbell		
Motion		•
Storage duratior	ı	Unlimited
4D MOTION SEN	SOR	
(••)	$\bigcirc$	ŝ
ш	0	<



# Open access rights for the user.

09:35 📟		NI 200 39 Jul 🗎
	Administration	Save
USERNAME		
gheskp0001		
PASSWORD		
С	HANGE PASSWO	RD
NAME (COMMEN	IT)	
gheskp0001		
PERMISSIONS		
Permissions		select >
ASSIGN CALL BU	TTON	
Call button 1 (J1) >		1 (J1) >
SHARE USER DATA		
(••)	$\bigcirc$	ŝ
	Ο	<

For the access rights you have to set the check mark at API operator.

09:35 🖼		📲 👷 👯 all 🗎
	Administration	
PERMISSIONS		
Watch always		
History		
Motion		
Geofencing		
API-Operator		
ACCESS RELAYS		<b>V</b>
Relay 1		
Relay 2		
()	9	දරූ
Ш	Ο	<



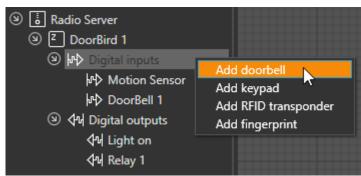
# 3.6.3.3 Set username and password

After adding the device you can enter the username and password of the user with API operator rights.

Device	<u>^</u>
Name	DoorBird
Room	
Serial number	0000009000000000000000
ld	0
Version	
Settings	
Port	443
Hostname or IP	bha-1CCAE371D86B.local
User name	
Password	
Certificate	
Protocol	HTTPS

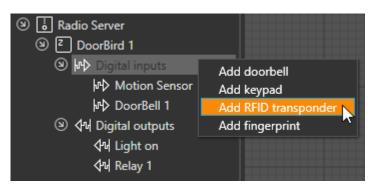
# 3.6.3.4 **Doorbell**

With a right mouse click on the Digital Entrances you can add more doorbells. If the device has several doorbells, DoorBell 1 shows the status of port 1, DoorBell 2 shows status of port 2 etc. With a right mouse click on the digital Outputs you can add more relay outputs.



# 3.6.3.5 **RFID transponder**

With a right mouse click on the digital inputs, you can add RFID transponder inputs.



The RFID transponders must be read with the DoorBird app. Before that you have to save the project on the server so that the HTTP(S) links are created. In order for the HTTP(S) links to be created, the input must either be in the drawing or a check mark must be set in a front panel of a function block at the input. In the



DoorBird app you have to log in as administrator first. How to log in as administrator is described in chapter 3.6.3.2. Then select settings for 125 kHz RFID transponder.

17:01 🛠 🕸 Θ	● 11. 昭 辞 多
Adminis	tration Save
Storage duration	Unlimited
4D MOTION SENSOR	
Activate	
Settings	>
BUTTON CONFIGURATION	
Settings	>
History	>
125 KHZ RFID TRANSPON	DER
Settings	>
History	>
FAVORITES	
HTTP(S) Calls	>
SIP Numbers	<u> </u>
<b>(•)</b> (-)	<u>نې</u> (
III C	) <

Select Add and hold the RFID transponder to the small black window below the speaker of the DoorBird door station.





# Then press Add on the scanned device.

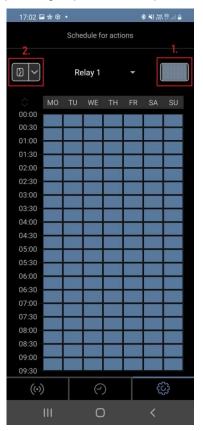
17:02 🖴 🛠 🤨 🔹		◆▲ 200 昭 201 章
	Settings	
Scan a transpond and swipe down t	er at the DoorBird o refresh.	
ID: 092,10195 07/05/2021 15:42		Add >
ID: 092,53996 07/05/2021 15:34		Add >
(0)	Θ	ĘĴ,
Ш	Ο	<

# Type a name and select schedule for actions.

17:02 🖬 🛪 🤤 🔹		★ ¥: 200 第 章
	Transponder	Save
ID: 092,10195		
Name		John Doe
VALIDATION		
Validation type		Weekly schedule
Schedule for ac	tions	
(0)	$\bigcirc$	Ę
Ш	0	<



By default, the selection is such that the RFID transponder directly switches the relay 1 when touching the DoorBird. To link this to the input in the ProgTool, you must first deactivate the active time at relay 1 by pressing at point 1 in the picture below. Then you can open the selection at point 2.



# Select HTTP(S).

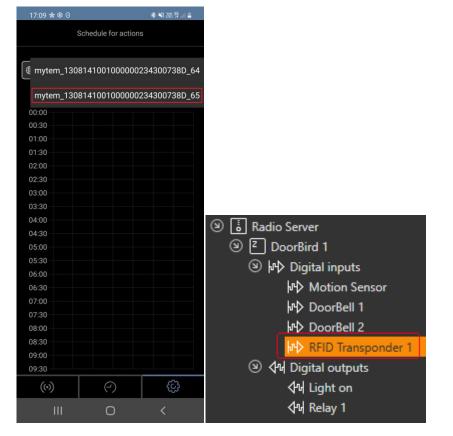
15:3	3 🖬 🛠 🕑				* *	Vet 55 .il	
	2	Zeitplan	für Akt	tionen			
Ø	Relais au	ıslösen	1				
1							
۲	HTTP(S)	Aufrufe	D	D F	R S	a so	
00:3							
01:0							
01:3							
02:0							
02:3	0						
03:0							
03:3							
04:0							
04:3							
05:0							
05:3							
06:0							
06:3							
07:0							
07:3							
08:0							
08:3							
09:0							
09:3	0						-
(	(0)		9			ŝ	
	Ш		0		<	<	



Then open the favourite selection in the centre.

15:38 🗳	*0				4	A 1 221	59 .nl 🚔
Zeitplan für Aktionen							
			100	01	•	ſ	
		iyten	130 <u>1</u>	01		l	
0	MO	DI	MI	DO	FR	SA	SO
00:00							
00:30							
01:00							
01:30							
02:00							
02:30							
03:00							
03:30							
04:00							
04:30							
05:00							
05:30							
06:00							
06:30							
07:00							
07:30							
08:00							
08:30							
09:00							
09:30							
(••)			9	)		40	3
	Ш		C	)		<	

The order of the links for the favourites corresponds to the order of the inputs in the project without the Motion Sensor and DoorBell 1. In this example, the second HTTP(S) link must be selected.



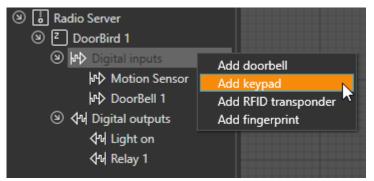


Now you can select when the RFID transponder should be active. By default, everything is deactivated. By pressing on the field at the top right, the entire period is activated.

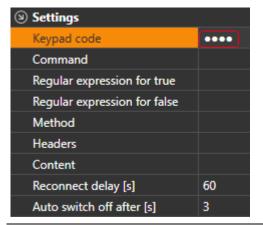
08:07 *	0					* *i #	199 .al 🗎	
	Zeitplan für Aktionen							
	mytem_13081 🔻					(		
$\sim$	MO		MI	DO	FR	SA	SO	
00:00								
00:30								
01:00								
01:30								
02:00								
02:30								
03:00								
03:30								
04:00								
04:30								
05:00								
05:30								
06:00								
06:30								
07:00								
07:30								
08:00								
08:30								
09:00								
09:30								
()			(P	)		20	<u>ب</u> ريز ا	
	111		C	)		<		

### 3.6.3.6 **Keypad**

With a right mouse click on the digital inputs, you can add keypad inputs.



By Keypad Code, you can enter a four- to six-digit PIN code.

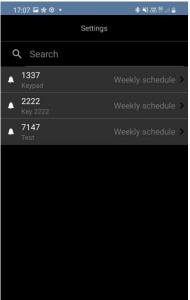


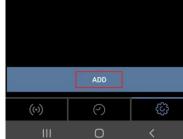


The PIN code must also be entered in the DoorBird app. Before that you have to save the project on the server so that the HTTP(S) links are created. In order for the HTTP(S) links to be created, the input must either be in the drawing or a check mark must be set in a front panel of a function block at the input. In the DoorBird app you have to login as administrator first. How to log in as administrator is described in chapter 3.6.3.2. Then select Settings by Keypad.

17:07 🛠 🕸 🛛		≉ ₩ 器 腎 川 會					
	Administration	Save					
wohon		<b>—</b>					
Storage duration							
4D MOTION SEN	4D MOTION SENSOR						
Activate							
Settings		>					
KEYPAD							
Settings							
History		>					
Illumination Always (							
Button sound							
125 KHZ RFID T	RANSPONDER						
Activate		•					
Settings		>					
(0)	Ċ	ŝ					
Ш	0	<					

# Select Add.







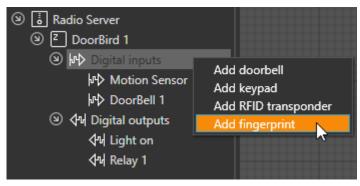
# Enter the PIN code and a name. Then press schedule for actions.

17:07 🖼 🛠 🕸 🔹		◆ ¥! 器 發 川 畠
	Keypad code	Save
BASICS		
Code		Pin
Display name		John Doe
VALIDATION		
Validation type		Weekly schedule
Schedule for action	ons	
(0)	( )	Ęې
Ш	Ο	<

The assignment of the HTTP(S) links is the same as for the RFID transponders 3.6.3.5.

# 3.6.3.7 Fingerprint

With a right mouse click on the digital inputs, you can add fingerprint inputs.

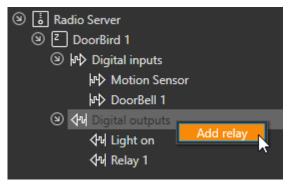


The fingerprints must be read in with the DoorBird app. Before that you have to save the project on the server so that the HTTP(S) links are created. In order to create the HTTP(S) links, the input must either be in the drawing or a check mark must be set in a front panel of a function block at the input. In the DoorBird app you have to log in as administrator first. How to log in as administrator is described in chapter 3.6.3.2. Then select settings for fingerprint. The assignment of the HTTP(S) links is done in the same way as for the RFID transponders 3.6.3.5.



# 3.6.3.8 Relay outputs

With a right mouse click on the digital outputs, you can add additional relay outputs.



### 3.6.4 **Netatmo**

# 3.6.4.1 Add Netatmo Cloud Gateway

With Add extension Chapter 3.2.1 you can add the Netatmo Cloud Gateway.

### 3.6.4.2 Add Device

Netatmo devices can be installed with a right mouse click on the Netatmo Cloud Gateway.

Netatmo Cloud Gateway	Remove
Properties	Add extension
· · · · · · · · · · · · · · · · · · ·	Open Netatmo device manager
$=$ $\equiv$ Search	Sign In 💦 🧎
(a) Device	*

# 3.6.4.3 Log In

With a right mouse click on the Netatmo Cloud Gateway you can log in.

Netatmo Cloud Gateway	Remove
Properties	Add extension
E ≡ Search	Open Netatmo device manager
	Sign In

### 3.6.4.4 Device Manager

The Netatmo Device Manager can be opened with a right mouse click on the Netatmo Cloud Gateway.

Netatmo Cloud Gateway	Remove	
Properties	Add extension	
	Open Netatmo device manager	
🗄 🗮 Search	Sign In 🦷	
(9) Device		

In the Netatmo device manager, you can see all devices that are currently connected to the Netatmo Cloud Gateway. By clicking on the plus sign, the devices can be added to the project.



Netatmo o	device manager: temagchur@gi	nail.com		
Toolbox	Name	Туре	Serial number	
	Entwicklung	Netatmo Weather Station	0000007000000070EE505EDBDC	
No.	Netatmo Outdoor Modul	Netatmo Outdoor Modul	00000070000000200005F49E4	
	Niederschlagsmesser	Netatmo Rain Gauge	00000070000000500000609D6	
	Windmesser	Netatmo Anemometer	000000700000006000003D2E2	
	Dauertestraum	Netatmo Indoor Modul	000000700000003000059BAEE	

#### 3.6.5 Generic network devices

#### 3.6.5.1 **Add devices**

Network devices can be added using the menu Add Extension Chapter 3.2.1 or if connected to the server using the Generic Network Device Explorer Chapter 3.6.1.

#### 3.6.5.2 **Settings**

The default port for network devices is 80 for HTTP and 443 for HTTPS. The Network Device can be addressed by the host name or directly by the IP Address. The user name together with the password is required for authentication on the Network Device. Only Basic and Digest Access authentication is supported. If Certificate is selected, the certificate is checked for validity by the Network Device (only for HTTPS connections). Certificate must not be selected if the Network Device uses a self-signed certificate.

Settings	•
Port	80
Hostname or IP	
User name	
Password	
Certificate	$\checkmark$
Protocol	нттр

### 3.6.5.3 Add inputs and outputs

Inputs and outputs can be added with a right mouse click on the respective inputs/outputs group.

- <u> </u>	
	Add input/output
④ ⊮⊅ Digital inputs	n

### 3.6.5.4 Analog inputs

**Command**; Specific path and component of the HTTP(S) request.

Method; Specific method, GET, PUT or POST. If on metod is selected, no request is sent.

**Headers**; Specific HTTP(S) headers.

**Content**; Specific message text of the HTTP(S) request.

**Regular Term;** Regular Term with a collection group. Regular Term can be used to filter patterns in a text. The captured data are used as analogue input values.



# Reconnection delay; settings how often the request should be sent.

### Example with the data format JSON

https://10.3.0.93/api/datapoint?id=3

```
{
  "datapoint": {
     "customname": "",
     "id": 1,
     "ioid": -1,
     "isconfiguration": true,
     "name": "VirtualOperationMode",
     "objectid": 1,
     "range": [
        "1",
        "3",
        "5"
     ],
     "remote": true,
     "type": 16,
     "value": 3,
     "writeprotect": false
  }
}
```

### Action

The value at "value" is to be read as analog input.

### Settings

The command to call the example code shown above on the Network Device is: <u>/api/datapoint/?id3.</u> The Regular Term to filter the result at "value" is <u>"Value":(.\*)</u>. The number to be used for the analog input is after <u>"value":</u> With <u>(.\*)</u> the acquisition grouo is indicated. A dot can stand for any charcter, in the example the dot at the end is the comma, which does not belong to the acquisition group. Since the value is queried, the method is GET. With the setting reconnection delay [s] 10 the value is queried every 10 second.

Settings	
Command	/api/datapoint?id=3
Method	GET
Headers	
Content	
Regular express	"value":(.*).
Reconnect dela	10



# Example with SOAP

https://vpn94.temdns.ch/ws

#### HTTP Request Header

POST /ws HTTP/1.1 User-Agent: Mozilla/4.0 (compatible; MSIE 6.0; MS Web Services Client Protocol 2.0.50727.1434) Content-Type: text/xml; charset=utf-8 SOAPAction: http://ws01.lom.ch/soap/readDP Host: 10.0.0.32 Content-Length: 413 Expect: 100-continue

### SOAP Request

```
<?xml version="1.0" encoding="utf - 8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://ws01.lom.ch/soap/">
  <SOAP-ENV:Body>
    <ns:readDpRequest>
       <ref>
         <oid>/1/2/4/119/0</oid>
      </ref>
      <startIndex>0</startIndex>
      <count>-1</count>
    </ns:readDpRequest>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

SOAP Response

V1.11



<soap-env:envelope< td=""></soap-env:envelope<>
xmlns:soap-env="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:soap-enc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:ns="http://ws01.lom.ch/soap/">
<soap-env:body></soap-env:body>
<ns:readdpresponse></ns:readdpresponse>
<ref></ref>
<oid></oid>
/(1)EBusRoot/(13)18263/(0)WE FSK Pellet/(0)group/(11)00:11/(0)
00:11
<prop>-r</prop>
$\langle dp \rangle$
<index>0</index>
<name>00:11</name>
<prop>-r</prop>
<desc>Scalar Var</desc>
<value>37.5</value>
<unit>°C</unit>
<timestamp>252376498</timestamp>

# Action

The Value at <value> to call the example code shown above on the Network Device is <u>ws</u>. The header is Content-Type: <u>application/xml</u>. The content is the entire SOAP request. The header and content information of the SOAP request must be sent to the Network Device using the POST method, this respond with the SOAP Response where the values is contained at <value>. The regular term to dipsplay the value is <u><value>(.\*)<Vvalue></u>. With the setting reconnection delay [s] 60 the value is queried every 60 second.

ws
POST
Contenet-Type: application/xml
xml Version="1.0" encoding</td
<value>(.*)<vvalue></vvalue></value>
7

### 3.6.5.5 Analog outputs

**Command**; Specific path and component of the HTTP(S) request.

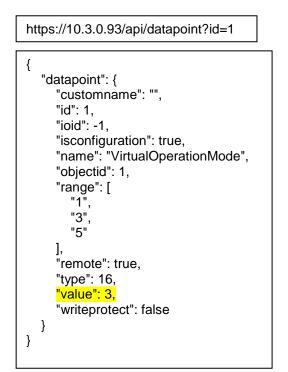
Method; Specific method, GET, PUT or POST. If on method is selected, no request is sent.

Headers; Specific HTTP(S) headers.

**Content;** Specific message text of the HTTP(S) request. The value of the Analog Output is marked with the tag <myTEM\_server\_TAG>.



# Example with the data format JSON



# Tasks

The value at <value> should be changed with the value of the Analog Output.

#### Settings

The command to change the value shown above at <value> in the example code on the Network Device is /api/datapoint?id=1&value=. The <a href="https://www.mark.is">www.mark.is</a> mark is replaced by the value at the Analog Output. Since the value is written, the method is PUT.

Settings	
Command	/api/datapoint?id=1&value= <mytem_server_tag></mytem_server_tag>
Method	
Headers	
Content	
Regular expression	

# Example with SOAP

https://vpn94.temdns.ch/ws	
11(1)5.// 00194.10110115.01/05	

### HTTP Request Header

POST /service HTTP/1.1 User-Agent: Fiddler Content-Type: text/xml; charset=utf-8 SOAPAction: "http://ws01.lom.ch/soap/readDP" Host: 10.0.0.32 Content-Length: 542

### SOAP Request



xml version="1.0" encoding="UTF-8"? <soap-env:envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/" xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"</soap-env:envelope 
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:ns="http://ws01.lom.ch/soap/">
<soap-env:body></soap-env:body>
<ns:writedprequest></ns:writedprequest>
<ref></ref>
<oid>/1/13/0/0/11/0</oid>
<startindex>0</startindex>
<count>-1</count>

#### HTTP Response Header

```
HTTP/1.1 200 OK
 Server: ICOM/x.y
 Content-Type: text/xml;
 charset=utf-8
 Connection: close
 Content-Length: 628
SOAP Response
 <soap-env:envelope
   xmlns:soap-env="http://schemas.xmlsoap.org/soap/envelope/"
   xmlns:soap-enc="http://schemas.xmlsoap.org/soap/encoding/"
   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
   xmlns:ns="http://ws01.lom.ch/soap/">
    <soap-env:body>
      <ns:readdpresponse>
        <ref>
           <oid>
             /(1)EBusRoot/(13)18263/(0)WE FSK Pellet/(0)group/(11)00:11/(0)
             00:11
           </oid>
           <prop>-r--</prop>
        </ref>
        \langle dp \rangle
           <index>0</index>
          <name>00:11</name>
           <prop>-r--</prop>
           <desc>Scalar Var</desc>
           <value>37.5</value>
          <unit>°C</unit>
           <timestamp>252376498</timestamp>
        </dp>
      </ns:readdpresponse>
    </soap-env:body>
  </soap-env:envelope>
```

### Tasks

The value at <value> should be changed.

# Settings

The command to call the example code shown above on the Network Device is ws. The header is Content-Type: <u>application/xml</u>. The content consist of the SOAP request, where the value is written from the Analog Output with the tag <myTEM\_server\_TAG>.



xml version="1.0" encoding="UTF-8"?
<soap-env:envelope< td=""></soap-env:envelope<>
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:ns="http://ws01.lom.ch/soap/">
<soap-env:body></soap-env:body>
<ns:writedprequest></ns:writedprequest>
<ref></ref>
<oid>1/13/0/0/11/0</oid>
$\langle dp \rangle$
<index>0</index>
<value></value>
<mytem_server_tag></mytem_server_tag>
$\langle dp \rangle$

The Header and content information of the SOAP request must be sent to the Network Device using the POST method, and these responses must be sent with the SOAP response with the modified value.

Settings	
Command	ws
Method	POST
Headers	Content-Type: application/xml
Content	xml version="1.0" encoding="</td

# 3.6.5.6 **Digital inputs**

**Command**; Specific path and component of the HTTP(S) request.

**Regular term for correct;** Regular terms can be used to filter patterns in a text. If the Regular Term is found in the text, the Digital Input switches to "On". The Regular Term for "On" is evaluated first, if the pattern is not found, the Regular Term for "Off" is evaluated. If the field is empty, it always matches every pattern.

**Regular term for false;** Regular term can be sed to filter patterns in a text. If the Regular term is found in the text, the Digital Input switches to "Off". The Regular term for false will only be evaluated if the Regular term for correct does not find a matching pattern. If the field is empty it always matches any pattern.

Method; Specific method, GET, PUT or POST. If no method is selected, no request is sent.

Headers; Specific HTTP(S) headers.

**Content;** Specific message text of the HTTP(S) request.

Reconnection delay; Setting how often the request should be sent.

**Automatic switch-off after;** This setting determines the time after which a value is reset to "Off" after it has been set to "On" by the Network Device. This function is useful when a Network Device only send command for "On" and none for "Off".



# Example with the data format JSON

https://10.3.0.93/api/datapoint?id=1

```
{
   "datapoint": {
      "customname": "",
      "id": 1,
      "ioid": -1,
      "isconfiguration": true,
      "name": "VirtualOperationMode",
      "objectid": 1,
      "range": [
         "1",
"3",
         "5"
      ],
      "remote": true,
      "type": 16,
<mark>"value": 3,</mark>
      "writeprotect": false
   }
}
```

# Tasks

The Digital Input should be "on" if the value at "value" is 5 and "Off" if it is 3.

# Settings

The command to call the example code shown above on the Network Device is <u>/api/datapoint/?id=1</u>. The regular term for on is "value":5, and "value":3, for off. Since the value is queried, the method is GET. With the setting reconnection delay [s] 10 the value us queried every 10 seconds.

Settings	
Command	/api/datapoint?id=1
Regular expression f	"value": (5),
Regular expression f	"value": (3),
Method	GET
Headers	
Content	
Reconnect delay [s]	10
Auto switch off after	0

# Example with SOAP

https://vpn94.temdns.ch/ws

HTTP Request Header



POST /ws HTTP/1.1 User-Agent: Mozilla/4.0 (compatible; MSIE 6.0; MS Web Services Client Protocol 2.0.50727.1434) Content-Type: text/xml; charset=utf-8 SOAPAction: http://ws01.lom.ch/soap/readDP Host: 10.0.0.32 Content-Length: 413 Expect: 100-continue

# SOAP Request

```
<?xml version="1.0" encoding="utf - 8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://ws01.lom.ch/soap/">
  <SOAP-ENV:Body>
    <ns:readDpRequest>
      <ref>
         <oid>/1/2/4/119/0</oid>
      </ref>
      <startIndex>0</startIndex>
      <count>-1</count>
    </ns:readDpRequest>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

### SOAP Response

<soap-env:envelope< th=""></soap-env:envelope<>
xmlns:soap-env="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:soap-enc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:ns="http://ws01.lom.ch/soap/">
<soap-env:body></soap-env:body>
<ns:readdpresponse></ns:readdpresponse>
<ref></ref>
<oid></oid>
/(1)EBusRoot/(13)18263/(0)WE FSK Pellet/(0)group/(11)00:11/(0)
00:11
<prop>-r</prop>
$\langle dp \rangle$
<index>0</index>
<name>00:11</name>
<prop>-r</prop>
<desc>Scalar Var</desc>
<value>37.5</value>
<unit>°C</unit>
<timestamp>252376498</timestamp>



# Tasks

If the value of "value" in the SOAP Response is greater than 30 and less than 60, the Digital Input should be set to "On", otherwise to "Off".

### Settings

cThe command call the example Code shown above on the Network Device is ws. The header is Content-Type: application/xml. The content is the entire SOAP request. The information in the header and content of the SOAP request must be sent to the Network Device using the POST method, this response ,must then be sent with the SOAP response where the value is contained in "value". The regular term to evaluate the value for "On" is <u><value>([3-5]\d)<Vvalue>.</u> The value to be evaluated is after <value>. The first digit should be between 3 and 5 [3-5]. The next digit is decimal from 0 to 9, you can indicate this with the term <u>\d.</u> After the value comes <u></value>.</u> The backslash \ is needed zo mark the slash /. With the setting reconnection delay [s] 10 the value is queried every 10 seconds.

(a) Settings	
Command	ws
Regular expression f	<value>([3-5])<vvalue></vvalue></value>
Regular expression f	
Method	POST
Headers	Content-Type: application/xml
Content	xml version="1.0" encoding=</td
Reconnect delay [s]	10
Auto switch off after	0

# 3.6.5.7 **Digital Outputs**

**Command for correct;** Specific path and component of the HTTP(S) request when the outputs is switched to "on".

**Command for wrong**; Specific path and component of the HTTP(S) request when the output is switched to "Off".

**Method for correct;** Specific method,GET, PUT or POST if the output is switched to "On". If no method is selected, no request is sent.

**Method for wrong;** Specific method, GET, PUT or POST when the output is turned "Off". If no method is selected, no request is sent.

Header for correct; Specific HTTP(S) headers when the output is switched to "On".

Header for false; Specific HTTP(S) headers when the output is switched to "Off".

Content for correct; Specific message text of the HTTP(S) request when the output is switched to "On".

Content for false; Specific message text of the HTTP(S) request when the output is switched to "Off".

### Example for the data format JSON

https://10.3.0.93:443/api/datapoint?id=8



{
"datapoint": {
"customname": "",
"id": 8,
"ioid": -1,
"isconfiguration":
false,
"name":
"VirtualConnection",
"objectid": 2,
"range": [
"false",
"true"
],
"remote": true,
"type": 6,
"value": false,
"writeprotect": false
±
}
}

# Task

With the Digital Output output "value" should be changeable between true and false.

# Settings

The command to call the example code shown above on the Network Device is <u>/api/datapoint?id=8.</u> The value "value" can be set to "On" with <u>/api/datapoint?id=8&value=1</u> and to "Off" with <u>/api/fatapoint?id=8&value=0</u>. Since the value is written the method is PUT.

(a) Settings	
Command for true	/api/datapoint?id=8&value=1
Command for false	/api/datapoint?id=8&value=0
Method for true	PUT
Method for false	PUT -
Header for true	
Header for false	
Content for true	
Content for false	

# Example with SOAP

https://vpn94.temdns.ch/ws	

# HTTP Request Header

POST /service HTTP/1.1 User-Agent: Fiddler Content-Type: text/xml; charset=utf-8 SOAPAction: "http://ws01.lom.ch/soap/readDP" Host: 10.0.0.32 Content-Length: 542



#### SOAP Request

xml version="1.0" encoding="UTF-8"?
<soap-env:envelope< td=""></soap-env:envelope<>
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:ns="http://ws01.lom.ch/soap/">
<soap-env:body></soap-env:body>
<ns:writedprequest></ns:writedprequest>
<ref></ref>
<oid>/1/13/0/0/11/0</oid>
<startindex>0</startindex>
<count>-1</count>
1

#### **HTTP Response Header**

HTTP/1.1 200 OK Server: ICOM/x.y Content-Type: text/xml; charset=utf-8 Connection: close Content-Length: 628

#### SOAP Response Header

```
<soap-env:envelope
 xmlns:soap-env="http://schemas.xmlsoap.org/soap/envelope/"
 xmlns:soap-enc="http://schemas.xmlsoap.org/soap/encoding/"
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 xmlns:xsd="http://www.w3.org/2001/XMLSchema"
 xmlns:ns="http://ws01.lom.ch/soap/">
  <soap-env:body>
    <ns:readdpresponse>
      <ref>
         <oid>
           /(1)EBusRoot/(13)18263/(0)WE FSK Pellet/(0)group/(11)00:11/(0)
           00:11
         </oid>
        <prop>-r--</prop>
      </ref>
      \langle dp \rangle
         <index>0</index>
         <name>00:11</name>
         <\!\!prop\!\!>\!\!-r-\!<\!\!/prop\!\!>
         <desc>Scalar Var</desc>
         <value>37.5</value>
         <unit>°C</unit>
         <timestamp>252376498</timestamp>
      </dp>
    </ns:readdpresponse>
  </soap-env:body>
</soap-env:envelope>
```



#### Task

The value "value" should be 40 when the Digital Output is "Off" and 50 when the Digital Output is "On"

#### Settings

The command to call the example code shown above on the Network Device is ws. The header is Content Type: <u>application/xml.</u> The content consist of the SOAP request with the desired changes when switching to "On" and "Off".

SOAP Request for "Off".

xml version="1.0" encoding="UTF-8"?
<soap-env:envelope< td=""></soap-env:envelope<>
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:ns="http://ws01.lom.ch/soap/">
<soap-env:body></soap-env:body>
<ns:writedprequest></ns:writedprequest>
<ref></ref>
<oid>1/13/0/0/11/0</oid>
$\langle dp \rangle$
<index>0</index>
<value></value>
40
$\langle dp \rangle$

#### SOAP Request for "On"

xml version="1.0" encoding="UTF-8"?
<soap-env:envelope< th=""></soap-env:envelope<>
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:ns="http://ws01.lom.ch/soap/">
<soap-env:body></soap-env:body>
<ns:writedprequest></ns:writedprequest>
<ref></ref>
<oid>1/13/0/0/11/0</oid>
$\langle dp \rangle$
<index>0</index>
<value></value>
40



(a) Settings	
Command for true	wa
Command for false	ws
Method for true	POST
Method for false	POST
Header for true	Content-Type: application/xml
Header for false	Content-Type: application/xml
Content for true	xml version="1.0" encoding=</td
Content for false	xml version="1.0" encoding=</td

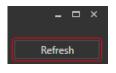
### 3.7 FreeTopology

To use FT, you need a FT Base Modul Extension. To actively integrate the devices into the system, you must be connected to the server (see chapter 0).

Click on the corresponding FT Base Modul extension in the project tab with the right mouse button to open the device manager.

<ul> <li>Radio Server</li> <li>F FT Base Modul 1</li> </ul>	
<ul> <li>⑦ ☐ Interface1</li> <li>⑦ ☐ Interface2</li> </ul>	Remove Use connected device Unassign device Add extension
	Open Free Topology Device Manager Settings

A new window opens and all FT devices that are connected to the FT Base Modul are added to the FT Base. Devices that are no longer connected to the FT Base Modul are removed. By clicking on "Refresh", this add/remove process is repeated.



For this step, all FT-devices must be running and functionally integrated in the system, i.e. connected to the FT-bus.

#### 3.7.1 Replace device

Devices can be replaced by clicking on "Replace". The new device must be connected to the same interface.



#### 3.7.2 Add device to project

To add a FT device to the project, the green icon must be clicked.



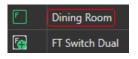
The green "Plus" symbol disappears after the click and the devices are listed under the interface of the FT Base Modul where they are connected.





#### 3.7.3 Change the device name

The device name can be changed either afterwards in the project tree or directly in the list.



#### 3.7.4 Test device

A FT-device can always (if it is present in the list) be switched on and off directly via the "On" and "Off" buttons. With the button "LED on" you can make the device LED blink blue. After a click on "LED off" the device LED shows the device state again. This serves for the simple identification of the individual devices. With "All LEDs off" or by closing the "Device manager" all device LEDs stop blinking blue.

All LED	ls off						
Toolbox	Name	Serial number	Interface	Actions			
F	Dining Room	010101A001A4B8	1	On	Off	LED on	LED off

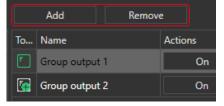
#### 3.7.5 **Groups**

Use the right mouse button in the project tab to click on the corresponding "Interface" or the "Group Outputs" to open the FreeTopology Group Editor.



#### 3.7.5.1 Create groups

FT devices can be added to one or more groups. Groups can be created or deleted with the "Add" and "Remove" buttons.



#### 3.7.5.2 Select device outputs for the group

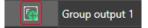
To add a device output to a group, select the group in the right column and check the device outputs in the left column.

FT Switch Dual 1 Digital output (DO1)	p output 1
FT Switch Dual 1 Digital output (DO2)	p output 2



#### 3.7.5.3 Add groups to project

To add a FT-Group to the project, the green icon must be clicked.



The green "Plus" symbol disappears after the click and the groups are listed under the "Group outputs" at the interface of the FT Base Modul.



#### 3.7.5.4 **Test groups**

If the outputs for a group are selected, the groups can be updated in the FT Base Modul by clicking on "Update groups".



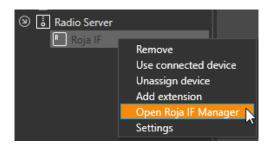
Only then can the outputs of a FT-group be switched on and off directly via the "On" and "Off" buttons. With the "LED on" button, you can make the device LED flash blue for all devices that belong to the group. After a click on "LED off" the device LEDs show the device state again. This serves for the simple identification of the devices in the group. With "All LEDs off" or by closing the "Group Editor" all device LEDs stop blinking blue.

/e		Update groups	All LEDs off
Actions			
On	Off	LED on	LED off

### 3.8 Roja IF

To use Roja IF devices, you need a Roja IF extension. To actively integrate the devices into the system, you must be connected to the server (see chapter 0).

Use the right mouse button to click on the corresponding Roja IF extension in the projects tab to open the device Manager.





#### 3.8.1 Add device

After clicking on "Add" a new window opens and devices can be added.

Ade	d	Reset network
Toolbox	Name	

To do this, press the STOP button on the corresponding Roja remote control.

्रे Adding Roja Blind device - Roja IF (01	101012014c0d8)			
Adding started Please push the STOP button on the Roja remote control				
Bind device	Abort			

#### 3.8.2 Replace device

After clicking on "Replace failed" a new window opens and devices can be replaced.

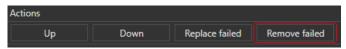
Actions			
Up	Down	Replace failed	Remove failed

To do this, you need to press the STOP button for the new device on the remote control.

奈 Replacing Roja Blind device - Roja IF (010101C000b4e931232861)					
Replace started Please push the STOP button on the Roja remote control					
Bind device	Abort				

#### 3.8.3 Remove device

Devices can be deleted by clicking on "Remove failed".



#### 3.8.4 Reset network

Clicking on "Reset network" will delete all devices.



#### 3.8.5 Add device to project

To add a device to the project, the green icon must be clicked.

#### Roja Blind

The green "Plus" icon disappears after the click and the devices are listed under the Roja IF.





#### 3.8.6 Testing device

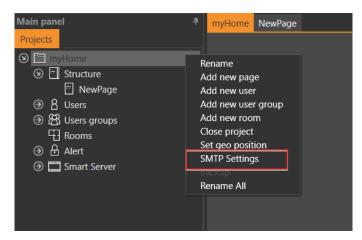
A Roja Blind device can always be controlled directly via the "Up" and "Down" buttons.

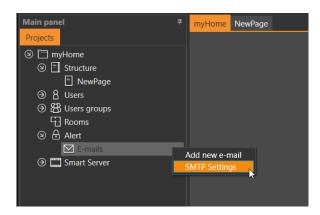


# 4 E-Mail Configuration

#### 4.1 SMTP Settings

With a right mouse click on the project name or E-Mail under Alarm, access the "SMTP" settings.





If SSL is disabled, but the SMTP server support the Start TLS extension, TLS is also used (connection is switched to encoded). The Standard-Start-TLS-Connection is 557 Standard-SSL/TLS-Port is 465

If Start-TLS should be used: Port: 587 SSL not activated



For SSL/TLS Port: 465 SSL activated

Without SSL Port: 25 SSL not activated

The following example shows the settings for a Google (Gmail) account.

E-Mail: The address of the sender is entered here

Server: For Gmail, smtp.gmail.com (servers of other providers can be found out on the Internet) Port: for SSL 465

SSL: activated

User: Username of the E-Mail account, matching the sender address. Password: E-Mail Password (for a Gmail account you have to login with App passwords). See link: https://support.google.com/accounts/answer/185833?hl=de# )

SMTP Settings						
E-mail:	user@googtemail.com					
Server:	😵 smtp.gmail.cp,					
Port:	465					
SSL Enabled:						
User:	user@googlemail.com					
Password:	••••••					
	Save Cancel					

# Alternative settings with StartTLS Port: for TLS 587

SMTP Settings						
E-mail:	user@googtemail.com					
Server:	😵 smtp.gmail.cp,					
Port:	465					
SSL Enabled:	$\checkmark$					
User:	user@googlemail.com					
Password:	••••••					
	Save Cancel					



### 4.2 Set up E-Mail receiver

With a right mouse click on E-Mail under Alarms, select "Add new E-Mail".

Main panel	<sup>‡</sup> myHome NewPage
Projects	
(a) 🛅 myHome	
) 🖹 Structure	
NewPage	
Э ४ Users groups	
Rooms	
🕲 🕂 Alert	
🗹 E-mails	Add new e-mail
	SMTP Settings

Enter name and E-Mail address of the receivers.

1	) Add new e-mail		×
	Name		
	MaxMustermann		
	E-mail address		
	max.mustermann@googlemail.com		
	Add	Cancel	

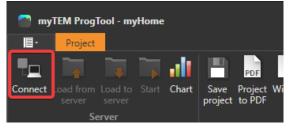
Now this user can be selected in the different function blocks to receive E-Mails.



Notification block	×
Step 1	0 min
Push notification Mail:	
Mail: Step 2	(Select All) MaxMustermann max.mustermann@googlemail.com
Push notification Mail:	OK Cancel
Step 3	10 min
Push notification Mail:	
Message for push notificat	tions:
ОК	Cancel

# 5 Connect to Server

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



A new window opens, where connection settings can be entered. If you do not know the IP address, you can search for the device by clicking on the "Find device" button in the network.



-	Connection window								
Server I	P addro	ess:							
192		168		1		33			
User:									
admin									
Passwor	d:								
•••									
✓ Rem	ember	<b>-</b>							
Find	device	C	onnect		Can	cel	]		

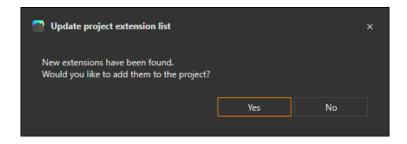
A list of all available devices is displayed. By clicking on the green arrow the device can be selected. This feature is only available in the same network link and not over multiple routed IP ranges.

61	N	etwork scanner			-		×
		Name	Address	Serial number	Version		
		myTEM Smart Server	10.3.0.129	1904151000000002343006B92	0.7.9	-	

After clicking on "Connect" a connection is made. If the user name or password are incorrect, an error message will be displayed. If the connection was successful, the window will close automatically. Standard user is 'admin'

Standard password is '123'

If devices already connected to the system, you will be asked if they should be added to the project. See Description in the chapter 3.

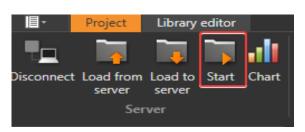


The current connection status can be read in the status bar.

### 6 Real-time view

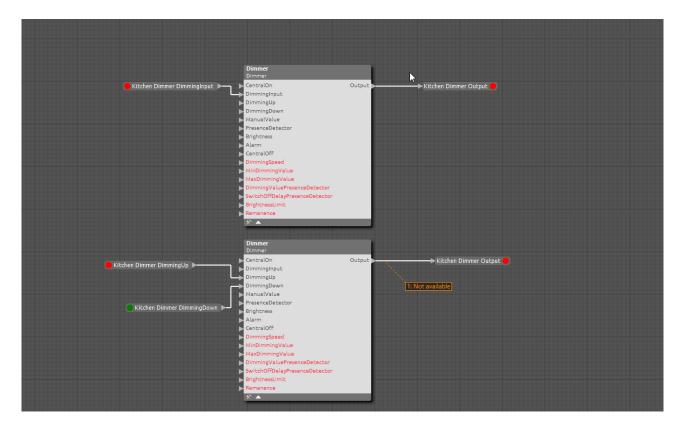
#### 6.1 Start and stop real-time view

When the connection to the server is active the real-time view can be started in the menu bar. Drawing pages cannot be edited during the real-time view.





If the real-time view is running and the connection to the server is active, the values are displayed for all inputs and outputs. The displayed values are always those which are reported back by the devices. If you want to see the values sent to the devices, a measuring point (see chapter 5.2) can be added to the line by using the right mouse button.

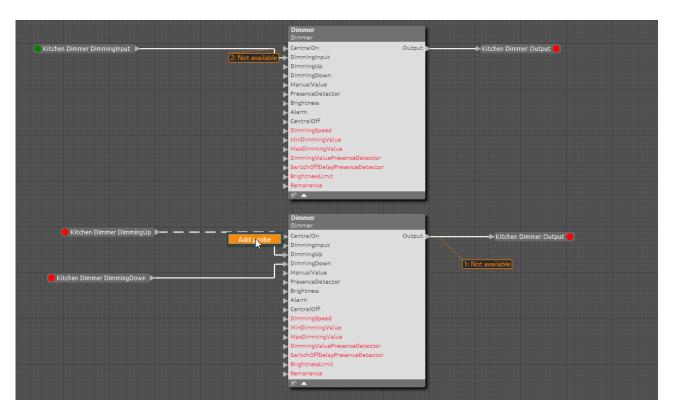


### 6.2 **Real-time view measuring Points**

With a right mouse click on the connecting lines, measuring points can be set to display values between program blocks.







### 6.3 Real-time Charts

If the real-time view is active, values and switching operations can be visualized live using the chart function.



With click on the chart button opens the selection window in which inputs and outputs can be selected and visualized in one or up to four different charts. After selecting desired inputs and outputs, press the OK button to continue.



	Chart 2	Chart 3	Chart 4	Name	Category	Room	
$\checkmark$				LivingHome	Not assigned	Not assigned	
	~			Comm.Home	Not assigned	Not assigned	
~				Wohnzimmer_Licht_Nächste Szene	Not assigned	Not assigned	
		$\checkmark$		Fenstekontakt	Not assigned	Not assigned	
$\checkmark$				Raumregler_Sensor	- Not assigned	Not assigned	
$\checkmark$				Multilevel switch	Not assigned	Not assigned	
	$\checkmark$			Bad1_Licht_Nächste Szene	Not assigned	Test	
$\checkmark$				Bad1_Licht_Ausgang 1	Temperature sensor	Test	
$\checkmark$				Kitchen Dimmer DimmingInput	Not assigned	Schlafzimmer	
$\checkmark$				Kitchen Dimmer Output	Not assigned	Schlafzimmer	
				Kitchen Dimmer DimmingUp	Not assigned	Wohnzimmer	
				Kitchen Dimmer DimmingDown	Windows and doors	Schlafzimmer	
				Kitchen Dimmer Output	Not assigned	Wohnzimmer	
				5.1 Probe	Probe	Not assigned	
				5.2 Probe	Probe	Not assigned	

If you place the mouse pointer on the line, the exact values and the time are displayed.





# 7 Simulation

The project can be simulated without connection to a PC or device

### 7.1 Start and stop simulation

The simulation can be started and stopped at any time via the simulation menu.

Start Ste	28/05/2020 08:34:06 op Chart ☑ Actual date and time	-
	Project simulation	

When a simulation is running, the values are indicated for all inputs and outputs. During simulation the drawing pages cannot be edited.

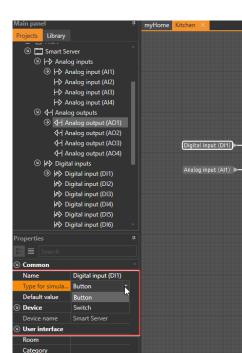
k		
	Digital input (DI1)	Digital output (DO1)
	5.5 Analog input (Al1) 🕨	Analog output (AO1) 5.5%

The digital inputs can be selected by clicking on them. Clicked = on, not clicked = off. For digital outputs, the colour red means switched off and the colour green means switched on.

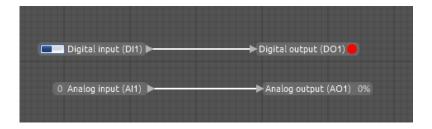
₽ Digital input (DI1) ►	Digital output (DO1) 🔵
5.5 Analog input (Al1) ▶	Analog output (AO1) 5.5%

By default, the digital inputs are configured as push buttons. If a switch is to be simulated, it can be selected from the corresponding digital inputs in the properties window.

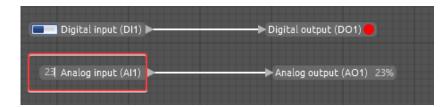




After starting the simulation, a switch is displayed which has the state "On" or "Off".



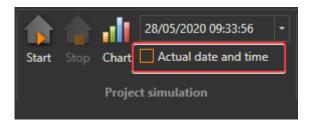
For analogue inputs the value can be set directly by clicking on the input.



### 7.2 Set simulation time

If you want to test time functions or calendar functions, you can set the simulation time. This way, events in the future can be tested and simulated.

Deactivate the checkbox "Current date and time" in the simulation menu (remove the hook).





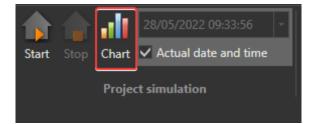
	ali I	28/05/2022 09:33	:56 -					
Start	Chart	20	C.	2020		J.	يىر.	
	Projec							
	 	27	04	2021	08	32	55	
		28 <sub>Satu</sub> way	05 <sub>May</sub>	2022	09 hours	33 mins	56 secs	
		29	06	2023	10	34	57	
		29	00	2025	10	54	51	
		20	~7	2024	лл	٦F		

Now date and time can be set via the selection menu.

After starting the simulation the set time is taken over.

### 7.3 **Chart**

Using the Chart button, manually set values or switching processes can be displayed and followed visually.



A click on the diagram button opens the selection window in which inputs and outputs can be selected and displayed in one or up to four different diagrams.

Selection of inputs and outputs.

	Chart -	туНоте	•			Î	_ 🗆 ×		
	Chart 1	Chart 2	Chart 3	Chart 4	Name	Category	Room		
	$\checkmark$				Digital input (DI1)	Not assigned	Not assigned		
					Digital output (DO	Not assigned	Not assigned		
I		~			Analog input (AI1)	Not assigned	Not assigned		
					Analog output (A	Not assigned	Not assigned		
Sel	ect / unse	elect all:				ОК	Cancel		

Presentation of an analogue value in diagram 1 and presentation of a digital switching process in diagram 2.





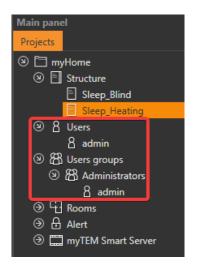
# 8 Mobile App visualization

Each function added on the drawing pages can be displayed on the phone.

### 8.1 Users and User groups

Users are required to secure access from the mobile app. Each function can be assigned one or more user groups, which have access to the respective function.

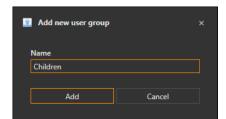
The users and user groups are managed and displayed in the project tree. The user "Admin" cannot be deleted.



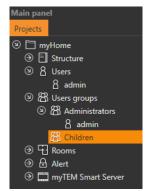
#### 8.1.1 Create user group

Click in the menu "Add new user group". A new window opens.





Here the name of the user group can be specified. This can be changed later. After clicking on the "Add" button, the user group is created and added to the project.



Currently no users are assigned to this group ...

#### 8.1.2 Add new user

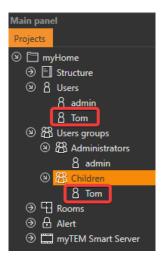
By clicking "Add new user" in the menu, a new window opens in which the name and password for this user can be entered. The password must be another one than default password **123.** The user can be assigned to one or more user groups

😨 Add new user		
Name		
Tom		
Password		
••••		
Groups		
Children		
Add	Cancel	

After clicking on the "Add" button, the user is added to the project. The new user is now visible in Users and in the user group.



myTEM



### 8.2 **Rooms**

Rooms are needed to sort the functions in the drawing pages and to define where this function is used. On the mobile app they are sorted accordingly Rooms are managed in the project tree.

#### 8.2.1 Create new room

Click on the menu "Add new room". A new window is opening.

Add new room			
Category	Name		
Living room -	Living ro	oom	
Add		Cancel	

Any name can be selected. You can also select any category. This is used for the view in the mobile app

After adding, the room is displayed in the project tree.

### 8.3 Visualize / display a function

After clicking on the function block in the drawing page, settings can be made in the properties window for the display in the mobile app.

④ ☐ myTEM Smart	t Server				
Properties					
🗄 🔳 Search			Blinds Blinds		
Function block setting	ngs	Digital input (DI1)	Trigger Down	Is Moving Down	Digital output (DO1)
Name	Blinds	Digital input (DI2)	Trigger Up	Is Moving Up	Digital output (DO2)
View on myTEM App	I ■ 1		* 🔻		
Remote access					
Favorite					
Ranking	****				
	Administrators 2				
Room	Living room 3				
Category	Blinds				
Individual					

- 1. Activate the view in the app
- 2. Show function also at remote access, otherwise the function is only shown if the mobile phone is in the same LAN
- 3. Assign user group, which will get access to the function



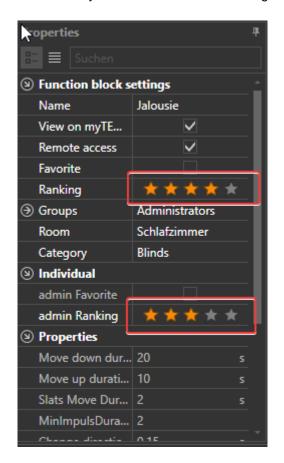
4. Assign the room in which the function is used

Optionally, ranking settings can also be made, but these can also be set individually for each user later via the mobile app.

#### 8.4 Favorites

Function blocks can be displayed in the myTEM App under Favorites. You can set this in the properties as soon as a function block is selected. You can also set the rating, even more stars the higher up the function block is displayed in the myTEM App under Favorites.

Default settings can be set for Favorite and Rating. Each new user added to this function block will automatically receive these favorite settings.



With "Individual" the desired favorite settings can be for each user.

V1.11



Properties	ų.
🗄 🗏 Suchen	
(a) Function block s	ettings 🔶
Name	Jalousie
View on myTE	$\checkmark$
Remote access	
Favorite	
Ranking	$\star \star \star \star \star$
③ Groups	Administrators
Room	Schlafzimmer
Category	Blinds
Individual	
admin Favorite	
admin Ranking	****
Properties	
Move down dur	20 s
Move up durati	10 s
Slats Move Dur	2 s
MinImpulsDura	2

The ratings for the rooms are used to determine the order in which the rooms are displayed in the myTEM App. To set this, you must select the corresponding room.

General settings of the rating can be set for each room. Every new user that is added automatically receives this rating.

<ul> <li>Schlafzimmer</li> <li>Wohnzimmer</li> <li>Kitchen</li> <li>Alert</li> </ul>					
Kitchen Alert					
⊙ ि Alert					
③ 🛄 Smart Server -					
• • • • • • • • • • • • • • • • • • •					
Properties 4					
📰 🔳 Suchen					
Seneral					
Name Kitchen					
Ranking 🗙 ★ ★ ★					
Individual					
admin Ranking 🛛 🛨 🛨 🛨 🖈					

An individual room rating can be set for each user.



V1.11

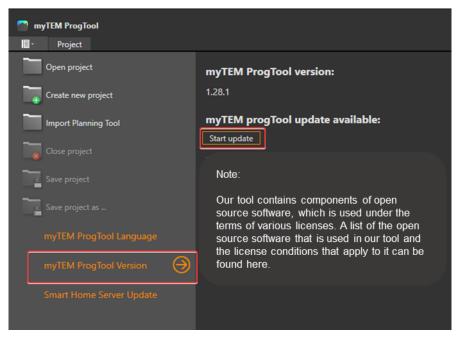
Sunction block settings					
Name	Dimmer				
View on myTE					
Remote access					
Favorite					
Ranking	****				
	Administrators				
Room					
Category	Lighting				
Individual					
admin Favorite					
admin Ranking	$\star$				
Kelly Favorite					
Kelly Ranking	$\star$				
Properties					
DimmingSpeed	19				
MinDimmingVa	0				

# 9 Update

### 9.1 ProgTool update

The ProgTool version can be found under "myTEM ProgTool Version"

- 1. The current ProgTool version
- 2. If a new version is available, this will be listed here.



If a new version is available, this is reflected in the status bar.



Properties		<b>4</b>					
🗄 🗮 Suchen						Dimmer	
Sunction block s	ettings					Dimmer	
Name	Dimmer					CentralOn	Output >
						DimmingInput	
View on myTE	$\checkmark$					DimmingUp	
Remote access	$\checkmark$					DimmingDown	
Favorite						ManualValue	
		-				PresenceDetector	
Ranking						Brightness	
③ Groups	Administrators					Alarm	
Room						CentralOff	
	12.1.0					DimmingSpeed	
Category	Lighting					MinDimmingValue	
Individual						MaxDimmingValue	
admin Favorite						DimmingValuePresenceDetector	
admin Ranking	****					SwitchOffDelayPresenceDetector	
	****					BrightnessLimit	
Properties						Remanence	
DimmingSpeed						* •	
MinDimmingVa							
MaxDimmingVa	100						
 DimmingValueP	50						
Connection status:		Device type:	IP: Serial	number:	Version:	myTEM progTool update available:	Start update

By clicking on "Update" in the status bar or on "Update" on the page "myTEM ProgToll Version" a warning is displayed.

Warning	•	×
The ProgTool update takes few minutes. Mak in the Project. Do you want continue?	ke sure that you hav	e saved all changes
	Yes	No

If you ckick on "Yes", the new version is starts downloaded from the Internet. Afterwards the ProgTool is closed and the installer is started. The new ProgTool can than be installed with the installer. Follow the instructions on the screen.

myTEM ProgTool Update	×
Download: 19%	

### 9.2 Server update

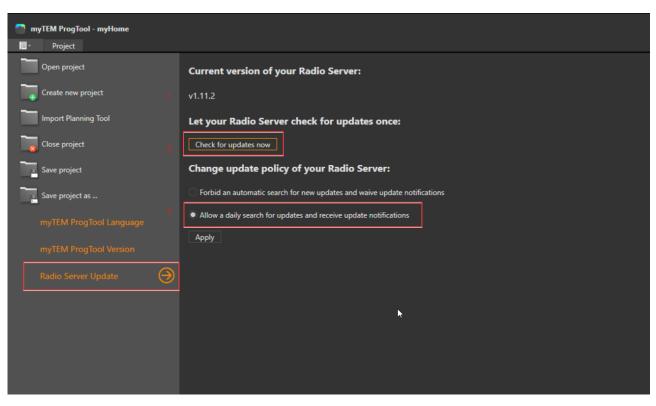
During a server update, the firmware on the Smart Home Server is updated, and the project on the server is also updated automatically.

#### 9.2.1 Server Firmware update over the Internet

The settings for the firmware updates can be found under "Smart Server Update".

- 1. The current Smart Home Server version is listed
- 2. Over the button "Check for Updates" you can check if a new firmware version is available.
- 3. If the automatic search is activated, new updates are checked daily and you will be notified via the myTEM App and the myTEM ProgTool when a new version is available





If a new version is available, this is indicated in the status bar.

By clicking "Check" in the status bar or "Check for Updates" on the "Smart Server Update" page shows which version is currently on the server and which can be updated.



After clicking on "Start update" the Smart Home Server is updated. This can take several minutes.

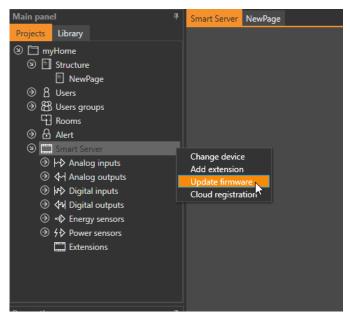
#### Attention: The Micro SD card must be inserted!

<u> </u>	Gerver firmware update - Radio Server (130814100100000234300738A)	×
File:	radioserver_1.11.2.bin	Select
	Prepare 1%	
	Start	



#### 9.2.2 Server Firmware update with File

The Radio Smart Sever and the Smart Sever can be updated by right clicking on the server and selecting "Firmware Update".



By clicking on the "Select" the update file can be selected.

🕋 s	erver firmware update - Smart Server (13081510000000023430072F2)	×
File:		Select
	File is not selected	
	Start	

Afterwards you can start the firmware update by clicking on "Start". **Attention: The Micro SD card must be inserted!** 

Server firmware update - Radio Server (130814100100000234300738A)		
File:	radioserver_1.11.2.bin	Select
	Firmware update has been done successfully	
	Close	

The firmware update can take a few minutes.



🕋 s	erver firmware update - Radio Server (130814100100000234300738A)	×
File:	radioserver_1.11.2.bin	Select
	Prepare 1%	
	Start	

After the firmware update finished the window can be closed.

# 10 Appendix

### 10.1 Associations

Group	Profile	1	Max. no	Command	Class	Description
ID	Name		of units			
1	General:		1	Device	Reset	When Button is pressed 10 times or either "Learn
	Lifeline	/		Locally		mode" or "Reset network" is clicked in myTem
	Lifeline			Notification		ProgTool the notification is sent.

# 10.2 **Z-Wave Supported Command Classes**

Command Class (CC)	Version	Required Security Class
Z-Wave Plus Info CC	2	None
Transport Service CC	2	None
CRC16 Encap CC	1	None
Application Status CC	1	None
Security 2 CC	1	None
Security CC	1	None
Inclusion Controller CC	1	None
Powerlevel CC	1	Highest granted Security Class
Manufacturer Specific CC	2	Highest granted Security Class
Version CC	2	Highest granted Security Class
Supervision CC	1	None
Multi Cmd CC	1	None
Association CC	2	Highest granted Security Class
Association Group Information CC	3	Highest granted Security Class
Device Reset Locally CC	1	Highest granted Security Class
Network Management Inclusion CC	3	Highest granted Security Class
Network Management Basic CC	2	Highest granted Security Class
Network Management Proxy CC	2	Highest granted Security Class



### 10.3 Basic Command Handling

The Smart Home server is able to control other devices, which support "Basic Command" by sending Basic SET ON and OFF from the Z-Wave Manager window (See Chapter 3.4.6).

It can also receive "Basic Commands" from other devices on the network, but it does not respond to them.

### 10.4 List of abbreviations

API	Application Programming Interface
DALI	Digital Adressable Lighting Interface
DNS	Domain Name System
DSK	Device Specific Key
FT	FreeTopology
HTTP	Hypertext Transfer Protocol
HTTPS	Hypertext Transfer Protocol Secure
IP	Internet Protocol
JSON	Java Script Object Notation
LED	Light Emitting Diode
PDF	Portable Document Format
RGBW	Red Green Blue Warm-white
SD	Secure Digital
SMTP	Simple Mail Transfer Protocol
SSL	Secure Sockets Layer
TLS	Transport Layer Security
URL	Uniform Resource Locator
VPN	Virtual Privat Network

