

YOUVI software package

User manual

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1 What's new

The changes in the latest updates include:

YOUVI 5.0, Release May 2024

YOUVI

- New: User management, find out more <u>here.</u>
- New: Apple HomeKit integration, find out more <u>here.</u>
- Redesign of the YOUVI mobile app
- Project editor: Alphabetical sorting for buildings, floors and rooms
- Project editor: Support for ASCII text, device type: "Text"
- Project editor: PIN lock for widgets
- Project editor: Position group addresses are now optional for blinds and shutters
- New tab under General > "Images" for selecting and uploading background images for rooms and scenes
- ETS 6.2 support
- Adjustments to the parsing of shutters and blinds
- Improvements to the parsing of Dali gateways
- Improvements in RTSP streaming of cameras
- New data clean-up-routine: Door station images will be deleted after 30 days
- YOUVI Configuration default port switches to the new general gateway port: 31228; access to Bus Monitor and Logic will then only be available via the dashboard in YOUVI Configuration, more information can be found <u>here</u>.
- Backups are now backwards compatible
- Added option to deactivate user management
- Door intercom and camera added to access control
- Improvements in handling network address changes
- Added RTMP to stream types

Fixed:

- Scrolling in server list is not possible
- Exceptions related to handling telegrams from multi-channel RGB lights YOUVI Visu



YOUVI Visu

- Redesign of the complete user interface
- New: Widget for air conditioning systems
- New: Widget for ASCII text, device type "Text"
- PIN lock for widgets
- Background colour and icons for binary sensors customisable
- Spanish version: When switching the Windows language to Spanish, the user interface of the visualisation is displayed in Spanish
- Numerical widget extended by 4-byte value display, data point types 12.xxx (unsigned), 13.xxx (signed), 14.xxx (floating point value)
- +/- buttons in dimmers, air conditioning systems and heaters for step-by-step control
- New features on RGB widget: 5 favourite colours and new colour selection field
- New data clean-up-routine for diagrams: For sensor recordings older than one year, only 6 values per day will be saved at the following times: 00:00, 4:00, 8:00, 12:00, 16:00, 20:00
- Heating widget: The cooling symbol has been replaced with a blue symbol
- Support for decimal numbers with "." as a separator added for AirCon, ventilation, and groups
- Optimised switching of the webcam full-screen display
- Stream profiles for HTTP/RTSP optimised

Logic

- Support for air conditioning systems
- Support for numerical widgets with 4-byte values (trigger, condition)
- Support for air conditioning systems
- Support for numerical widgets with 4-byte values (trigger, condition)
- The maximum value for the brightness sensor has been changed to 100,000, and the size of the text field has been adjusted accordingly
- Login can now also be confirmed by pressing Enter

Panel Client

Turn on monitor for incoming SIP call

Connect

Integration of climate devices into Amazon Alexa



Plug-ins

- New: Airzone bridge
- New: Bluesound bridge, find out more <u>here.</u>

Sonos

Fixed:

Problems displaying thumbnails for radio stations

YOUVI 4.5, Release September 2023

YOUVI

- Installer: New option: Convert YOUVI Client to YOUVI Server, find out more here.
- KNX-mapping: This option is available for the Tradfri, Netatmo, Yeelight, Philips Hue and neoom bridges. During device import or in the "Edit devices" dialogue, group addresses can be assigned in order to send bridge device values via the KNX bus.
- Project Editor: Support for RGB control via XY data point types, support for heating control with multiple setpoints
- Project Editor: Support for drag-and-drop
- Project editor: Device types of devices from add-ons can no longer be changed
- Support of ETS 6.1 projects
- Button on the YOUVI Configuration page "About" to download logs
- Support for ISE remote connect, find out more <u>here.</u>

YOUVI Visu

- Temperature control in 0.5°C steps
- Support for ISE remote connect, find out more <u>here.</u>

Bus monitor

Support of data point type 251.600

Logic

- Support sound systems as action: mute/unmute, volume, start playlists/favourites, pause
- Support door stations as trigger: doorbell ringing event



- Support door stations as action: mute/unmute door station on specific client
- Support camera streams as action: camera image is brought to the foreground in the visualisation
- Support device groups as conditions
- Support of the ISE Remote Connect

Support actions for group shading: Up/Down, Step Up/Step Down Fixed:

Trigger with device group cannot be created

Door station

- Support multiple door stations, find out more <u>here.</u>
- Button for viewing the camera stream in the widget, as well as button for opening (for KNX and http), find out more <u>here.</u>

Philips Hue

First release, find out more <u>here</u>

Yeelight

First release, find out more <u>here</u>

Connect

Better overview of the imported devices: New columns for room and device type

YOUVI 4.4, Release March 2023

YOUVI Logic

Fixed:

Problem with Timers

YOUVI 4.4, Release January/Febuary 2023

YOUVI

- Performance improvements
- Added: RGBW light control via data point type 251.600, find out more here
- Added: White channel for RGB widget, type HSV control, find out more here



- Added: Brightness channel for RGB widget, type XY control, find out more here
- Added: White slider for RGBW-Widgets in timers
- Integration of plugin devices into group functions
- Performance and stability improvements
- Better handling of KNX scene numbers

Fixed:

- Error in parsing ventilation systems
- Problems when zooming web widgets
- Incorrect scaling or display of visual elements on certain devices
- Problems playing camera stream in full screen mode with Controlmicro in landscape mode

Netatmo

Fixed:

Problem with CO2 values

YOUVI 4.4, Release November 2022

YOUVI

- Project editor, find out more here
- Button reorganization: Trigger button, Custom state button and Push-button are fused into a <u>Custom Button</u>
- Node red support
- Manually add a server to the server overview by entering the IP address, find out more <u>here</u>

Add-Ons

Logout button added

YOUVI Visu

- Energy monitoring widget, find out more <u>here</u>
- Heating/cooling systems: support of multiple setpoints, find out more <u>here.</u>
- Ventilation widget, find out more <u>here</u>
- Support of RGB lights with XY color selection via data point type 242.600, find out more <u>here</u>
- HSV-Control support, find out more <u>here</u>



- Web-Widget improvements, a navigation bar is now integrated into the widget
- Overwriting KNX scenes (ETS data type 17.001). Find out more about this option <u>here.</u>
- Show current room temperature in <u>Room button</u>

Fixed:

Adding Tunable White group address for DPT 5.001 in Visu

Sonos

Fixed:

Handle mixing Sonos groups

Ntuity (neoom)

Initial release, find out more <u>here</u>

lkea

Initial release, find out more <u>here</u>

Door station

- Support for multiple call participants, find out more <u>here</u>
- Option to mute the ringtone
- Show gallery with photos of missed door calls, find out more <u>here</u>
- Default ring tone duration reduced from 60 seconds to 30 seconds

Fixed:

Door intercom Visu rings but the widget doesn't open

Connect

ProKNX voice control support

Logic

- Support for energy monitoring, ntuity (neoom), KNX
- Energy tracker support; data point types: mA (7.x), mA (9.x), kW (9.024), W (14.056), kWh (13.013), Wh (13.010)

Netatmo

New authorisation method



YOUVI 4.3 June 2022 release

YOUVI

- Improvements in parsing blinds
- Improvements in parsing Dali Control Pro64 Gateway

Fixed:

IP router deactivation

YOUVI Visu

Improvements in camera streaming

Fixed:

- Diagram display on Controlmicro cut off in landscape mode
- Creating custom state button fails

YOUVI 4.3 April 2022 release

YOUVI

- Tunable White support for DPT 5.001
- Improvements on services synchronization: better stability of the KNX connection and Controlmicro sensors and RGB light after update

Fixed:

- Incorrect setpoint feedback (setpoint shift DPT 6.010 percent, temperature control)
- Update plugin devices when panel changes IP address
- Trigger button looses group address

YOUVI Visu

- Tunable White support for DPT 5.001
- Single channel RGB control via DPT 232.600: Brightness Write address added

Fixed:

- Crash on auto start option
- Camera crash when Visu goes to background



- Camera crash if streams are removed that are selected
- Camera full screen doesn't work in portrait mode
- Visu cannot connect if sound zones are removed while Visu is not active
- Timer error message
- Single channel RGB control via DPT 232.600: Dimming address send value

YOUVI Client

Handle network address change in panel service

Sonos

Button to synchronize changes in Sonos playlists and favorites

trivum

Button to synchronize changes in trivum playlists and favorites

Door station

DTMF type configurable

YOUVI 4.3 December 2021 release

RGBW integration

YOUVI 4.3 November 2021 release

Main changes in brief:

- Module: Door station with Echo Cancelation, for now only usable on one panel
- Bridge: Sonos (music player)
- Bridge: trivum (music player)
- Color temperature (Tunable White) integrated in dimmer
- New device type: rain amount sensor (I/m²) (KNX and Netatmo)

All changes

YOUVI

New features:



 ETS functions can be used to (prioritize) room assignment (Important when using multiple switches for one device in multiple rooms)

Fixed:

- UI issues (YOUVI Configuration)
- Improved logs

YOUVI Client

New features:

Client status check (Online/Offline)

Visualisation

New features:

- Module: Door station with Echo Cancelation, for now only usable on one panel
- Bridge: Sonos (music player)
- Bridge: trivum (music player)
- Color temperature (Tunable White) integrated in dimmer
- New device type: rainfall sensor (I/m²) (KNX and Netatmo)
- Added unit options for noise sensor (W/m², dB)
- Pressure sensor now supports 4-byte data type (14.058)
- Added slider for angle in degrees for blinds (scene editor)

Fixed:

- Problem when adding building parts
- UI issues on Controlmicro
- Camera errors: crash when adding, crash in fullscreen mode, button view doesn't work, flickering, streaming problem when password contains special characters

Connect

Fixed:

Connect list is empty

Logic

New features:

- Integration of Tunable White
- Integration of rain sensor



Fixed:

- Time shift for astro functions
- UI problems on the Controlmicro

YOUVI 4.2

Note: With the update from version 4.1 to 4.2, the YOUVI structure changes and the YOUVI Dashboard app becomes part of YOUVI Configuration.

By right-clicking on the house icon in the taskbar, more options become visible:



YOUVI 4.2 October 2021 release

ETS-6-projects are supported

YOUVI 4.2 July 2021 release

Most important changes in brief

- New structure: Dashboard App integrated in YOUVI Configuration
- Controlmicro integration (sensors and ambient light)
- Optionally disable parsing on import
- New sensor types:
 - Energy tracker (mA, W, kW, kWh)
 - Numeric sensor
- Sending push messages from logic module to YOUVI mobile app

Note: To receive push notifications, you must connect the app via YOUVI Connect.



All Changes

YOUVI

- Switch IP router on or off (Default setting: off)
- Enable or disable parsing on import (i)
- Own page as overview for connected clients

Note: To also see connected mobile devices in the client view, you must connect the app via YOUVI Connect.

- Own page as overview for updates
- Display/access integrated hardware of the Controlmicro

Visualisation

- Optimization of the user interface for display on the Controlmicro
- Controlmicro sensors and Controlmicro RGB light appear in the Visualisation as individual widgets
- New device type "Numerical sensor"
 - for integrating different numerical value displays
 - Number format: signed, unsigned, or float value (ETS data point types 7.x, 8.x, 9.x) (i)
 - Unit can be entered freely
- New device type "energy tracker" with diagram display, ETS data point types: 7.012 (current in mA), 9.021 (current in mA), 9.024 (power in kW), 13.013 (active energy in kWh), 14.056 (power in W)
- RGB slider of group widgets available in scene editor
- RGB slider of group widgets available in timers
- Alphabetical sorting of rooms and floors

Logic and Connect module

Sending push notifications to YOUVI mobile app

Note: To receive push notifications, you must connect the app via YOUVI Connect.

Integration of Controlmicro sensors and Controlmicro RGB light into the logic module

Netatmo Bridge

• Automatic device detection and import into Visualisation (i)

YOUVI Help

New pages for

- Server/Client
- Backup options
- <u>Reporter Tool</u>

2 Welcome

The YOUVI software is used to connect a touch panel to the KNX network of the house. The software makes it possible to visualize KNX devices in the home, such as dimmers, lamps or shutters, and to control them via the integrated KNX/IP router using a touch panel, app or the Amazon Echo.

This software consists of the following components:



1. YOUVI Dashboard

YOUVI Dashboard provides access to all YOUVI components. In addition to the add-ons, i.e. modules and bridges, the <u>YOUVI Bus Monitor</u> and the Visualisation can be accessed from here. Since version 4.2 YOUVI Dashboard is part of YOUVI Configuration.

You can access YOUVI Dashboard/Configuration by right-clicking on the house in the taskbar and selecting "Open YOUVI Dashboard".

	Ĉ,	8 🐮
		Open YOUVI Dashboard
		Open Panel Configuration
Š		Select YOUVI
		Send Support Ticket
Z	?	Help
	(i)	About
	\otimes	Exit



2. YOUVI Configuration (Including IP router)

YOUVI Configuration runs as a browser app and is used to configure YOUVI programs. Furthermore, the <u>IP router</u> can be found on the *KNXnet/IP router* page. For more information take a look at the <u>functional scope of YOUVI Configuration</u>.



3. Visualisation

The Visualisation is installed as an app on the Windows device. Which usage options it offers can be found in the <u>functional scope</u> of the Visualisation.

Note: YOUVI cannot be used with USB connectors or IP routers from third-party manufacturers.

In case of problems in YOUVI please refer to the FAQs for more information.

3 Server and client

YOUVI can be installed either fully with server function or as a client. In small projects, YOUVI is installed as a server on a panel with KNX access and YOUVI as a client on the remaining panels. The client is then connected to the server via the connection settings of the Visualisation. It is also possible to set up a <u>connection manually</u> in the Visualisation.

Here you will learn how to

- <u>connect to the server configuration app</u>
- change the server connection
- change the server name
- Find the IP address of the server
- change the name of the YOUVI client

How do I connect to the server configuration app?

 You can reach the configuration app via your PC by entering the YOUVI server IP address and port "31228" in your browser, e.g. 10.2.42.116:31228. Make sure that the YOUVI server and your PC are on the same network.

Change server connection:

You can adjust the server connection in two places:

<u>1. In the Visualisation:</u>

• Open the Visualisation and connect to the desired server via the connection settings:

Û				2:22 PM 21°C 0 [°] 11°C 0 [°]
	Settings	Connection Settings		
88		10.11.12.72		
	Connection Settings	YOUVI on PNX-WS-MP-01	Temperature Display	
	YOUVI Settings	YOUVI on PNX-WS-AH-01 10.11.12.65		
G	Further Information	YOUVI Lu on PEAKNX-HAS		
	Activate cleaning mode	YOUVI on PEAKNX-HAS		Shut down application
0	YOUVI Help	YOUVI on PNX-WS-CP-02		
		YOUVI on PNX-WS-AR-01 10.11.12.88		
52		YOUVI on PNX-WS-AZUBI-02 10.11.12.85		
		YOUVI on PNX-WS-MG-02 192.168.178.82		
		YOUVI C12 Demo on PNX-C12-DEMO01 10.11.12.69		
	Edit mode	YOUVI on PNX-WS-NR-01 10.11.12.61	Autostart Disabled Enable	
	The Edit mode is used to set up the	YOUVI on PNX-WS-PROD-02		
	visualization. Deactivate the edit mode for normal use.	Panel-UG on PNX-WS-LR-02		
0				

2. Via the system configuration:

- Right-click on the green house in the taskbar and select "Choose YOUVI Server".
- Select the desired server from the list to connect.



- The status "Connected YOUVI" indicates the currently connected server.
- Check the box for "Open YOUVI Dashboard when closing the window."
- Close the window.

Papierkorb VLC media player		
Tec	Choose YOUVI:	
TecTool - Verknubrung	Connected YOUVI: KNX Status: Network Status: Controlpro rechts Connected Connected	
YOUMAIITO v437	10.2.42.122 Controlpro rechts on CONTROLPRO-3415 ~	
YOUVI Best	10.2.42.50 Controlpro links on CONTROLPRO-1318	
Practice E	10.2.42.60 Controlmicro hochkant on MICRO-9SAFQ8MID	
PEAKnx System Conf	10.2.42.110 YOUVI on CONTROLMINI-207	
PEAKra Visu Backup 2,	Close	
Sonos Sonos		Open YOUVI Dashboard Open YOUVI Dashboard Open Panel Configuration Select YOUVI Server
# 0 H 🧕 🗖 🌆 🖸		$\begin{array}{c c} \hline \hline$

 By selecting the arrow symbol, YOUVI servers in the network are searched for again. This is helpful in case of <u>connection problems</u>, for example.

Manually add a server to the server overview

If the overview does not contain all or any YOUVI servers,

• use the "+" symbol to enter the IP address manually:

Choose YOUVI:	Choose YOUVI:
Connected YOUVI: KNX Status: Network Status: Controlpro living r Connected Connected	Connected YOUVI: KNX Status: Network Status: Controlpro living r Connected Connected
10.2.42.50 Controlpro living room on CONTROLPRO-1318 -	10.2.42.22 Controlpro entertainment area on CONTROLPRO-3415
10.2.42.49 YOUVI on PNX-WS-MB-01 10.2.42.22 Controlpro entertainment area on CONTROLPRO-3415	10.2.42.69 YOUVI on PH-WS-SN01 10.2.42.31 Controlmini right on CONTROLMINI-207
10.2.42.69 YOUVI on PH-WS-SN01	10.2.42.29 Controlmicro portrait on MICRO-9SAFQ8MID
10.2.42.31 Controlmini on CONTROLMINI-207	IP Address: 10.2.42.116 Rest port: 31223
Close	Close

• Click on the tick to confirm the entry.

Change server name:

Option A:

- Open the configuration app on the desired server.
- Select the General > General tab and enter a suitable name under "Name of the YOUVI server".

Option B:

- Connect to the server you want to rename.
- Use the menu in the taskbar to open YOUVI Dashboard.
- Select the General > General tab and enter a suitable name under "Name of the YOUVI server".

Configuration		9
	Connected YOUVI: KNX Status: Network Status: YOUVI C12 Demo Connected Connected Name of the YOUVI Server: YOUVI C12 Demo Choose Language: English German French City Name: Luxemburg	
General		
General	Name of the YOUVI Server:	YOUVI C12 Demo
Dashboard		
Projects	Choose Language:	English
Email		German
Icons		French
Images		
Clients		
Updates	City Name:	Luxemburg
Users		

How do I find the IP address of the server?

- With a right click or long finger press on the green house icon in the right area of the taskbar, you open further options.
- Select "Select YOUVI".
- At the beginning of each server name in the list, the corresponding IP address is shown:

C	Choose YOUVI:	
Connected YOUVI: Controlpro rechts	KNX Status: Connected	Network Status: Connected
10.2.42.122 Controlpro	rechts on CONTROLPRO	-3415 ×
10.2.42.50 Controlpro li	nks on CONTROLPRO-13	318
10.2.42.109 YOUVI on C	ONTROLPRO-3216	

How do I change the name of the YOUVI client?

Option A:

- Open the configuration app on the desired server.
- Switch to the *General* > *Clients* page.
- Adjust the names accordingly.



Option B:

- Right-click on the green house in the taskbar and select "YOUVI Dashboard".
- Switch to the *General* > *Clients* page.
- Adjust the names accordingly.



4 Backups

In YOUVI there are two different backups:

- A central backup of the YOUVI settings, project, the building structure, all devices and the modules.
- A "client" backup that saves the Visualisation on a specific panel/client.

When do I make a backup?

After setting up the first client, it is recommended to perform a central backup and a client backup.

What does which backup contain?

Backup of the Visualisation

In the backup of the Visualisation all properties of the Visualisation are stored, which have to do with the appearance and display of the individual widgets or which are needed for the client:

- Theme of the Visualisation (light or dark mode)
- Edit-Mode password, if defined
- Placeholder
- Arrangement of the widgets on the dashboard and in the individual rooms
- Appearance of buttons (big button style, small button style, Christmas button style)
- Size of the tiles (collapsed or expanded)
- Device selection of indoor and outdoor temperature display in the title bar
- The Visualisation dashboard
- Created web widgets

Note: Added modules, such as cameras, are stored in the YOUVI Configuration central backup.

Central backup

The entire YOUVI project and all additional settings made in YOUVI Configuration are saved in this backup:

Data from the YOUVI project file:

- Devices (designations, type, icon, measurement units, status displays, room assignments, etc.)
- Building structure (new rooms/buildings/floors, as well as designations)
- Group addresses
- Physical addresses (internal usage)



- All data of your modules
- All data of your bridges
- Selection of the filter table of the IP router

Changes you have made in the Visualisation:

- Edited devices
- Edited building structure
- Edited group addresses
- New functions (group functions, scenes, timers)
- Minimum and maximum temperature display of the heating widgets

Settings made in YOUVI Configuration:

- YOUVI Server Name
- Location
- Language
- Icon library
- E-mail server
- KNX connection
- Physical and multicast address of the IP router

Creating a backup

- In YOUVI Configuration on the General > General page, you will find the item "YOUVI Server Backup". Click on the "Backup" button.
- The central backup is created.
- In the Visualisation under Settings > YOUVI Settings > Visualisation Backup click on "Save".
- The backup of the Visualisation is created.
- Save both backups together.

Restoring the back-up

- Under YOUVI Configuration > General > General, you will find the item "YOUVI Server Backup" at the bottom of the page. Click on the "Restore" button.
- Upload your *.youvidb file.
- Open the Visualisation.
- Under Settings > YOUVI Settings > Visualisation Backup select "Load".
- Upload the backup file of the Visualisation
- Close the Visualisation after loading the backup and open it again.

5 Project Editor

During YOUVI installation, the ETS project is read in, and the Visualisation of the building and devices is created. As of version 4.4, YOUVI includes the project editor, which makes it possible to view and edit the parsed project without having to switch to the Visualisation. If you are already used to the Visualisation, you can still change devices via the Visualisation.

Note: Currently, ETS projects with 2-level and 3-level group addresses are supported.

You can find the project editor in *YOUVI Configuration > Projects* by clicking on the arrow on the right side of the project name:

🔍 Configuratior)			2
	Connected YOUVI: YOUVI C12 Demo	KNX Status: Connected	Network Status: Connected	
General General Dashboard Projects Email Icons Images Clients User Management Updates	Projects: YOUVI Best practice 4-5 D YOUVI Best practice 4-5-8		Project Name: YOUVI Best practice 4-5-8_EN	

The following options are available in the project editor:

- Create, delete, edit devices (icon, name, group addresses, device type, room assignment)
- Create, delete, edit rooms/buildings/floors (icon, name, location)
- Move devices via drag-n-drop

Note: All YOUVI Add-Ons (Camera, Connect, Door Station, Logic, Sound Systems, neoom, Netatmo, Tradfri, Philips Hue, Yeelight) are created in YOUVI Configuration. Devices created with the Tradfri, Philips Hue, Yeelight and Netatmo bridges also appear in the project editor.

The following functions are not (yet) supported:

- RGB control with HSV control and via DPT 251.600
- Group functions
- Scenes
- Timers
- Energy Monitoring via own Widget

Display of group addresses for KNX mapping

To get an overview, there are 2 possible views that can be changed via the tabs on the left side:

- Building structure
- Group addresses

💼 Project Editor				Back to Configuration
Building Group addresses	Device		e.g. light kitchen 🍳 🕂	Info
	lcon Name	Floor / Room	Device	Name Eat-in kitchen

View by building structure

	Project Editor								Back to Confi	guration	Ø		
	Building Group addresses	Device		Search by device na	me	e.g. light kitchen	ष् 🕀 🛛	Info					
		Icon	Name	Floor / Room	Dev	rice		Name Eat-in kitchen					
	VOUVI Best Practice	10	Eat in kitchen Blind South	Ground floor / Eat-in kitchen	Blin	br		kon			- 1		
Expand and collapse tree view		II	Eat in kitchen Blind East	Ground floor / Eat-in kitchen	Blin	h		금종 Kitchen			∇		
C O V22A13122/4/projects Expand and collapse tree View View View V	House	\$	Eat in kitchen Dimmer Couch	Ground floor / Eat-in kitchen	Ligh	ht Dimming		Floor					
Constant and collapse tree view	\bigtriangledown Ground floor	\otimes	Eat in kitchen Dimmer dining table	Ground floor / Eat-in kitchen	Ligh	ht Dimming		Ground floor			\leq		
	The East in kitchen		Eat in kitchen Heating	Ground floor / Eat-in kitchen	The	ermostat							
Expand and collapse tree view	0 (0) 2 (0) 1 (0) (0 k)	RGB	Eat in kitchen RGB	Ground floor / Eat-in kitchen	RGB	B Light							
		*	Kitchen Ceiling light worktop	Ground floor / Eat-in kitchen	Ligh	ht Switch							
		4	Kitchen Ceiling light counter	Ground floor / Eat-in kitchen	Ligh	ht Switch							
	Control Contro Control Control Control Control Control C												
Partial and lilapse trees W '00/I bish fraction *1 = 1 = *1 = *1 = *0 = *1 House ♥ Gound floor ♥ Gound floor	🚐 Bedroom	<u> </u>					_						
C C C	0 (□ 1 III 1 III 2 (□ 0 II)			Device overview									
	Sub-distribution												
	Terrace/balcony												
	0 🖸 0 🗐 0 🔛 2 🌾 0 8 ()												
								In	fo pane				
	0 🖂 1 📰 0 🔛 0 🌾 0 B)								io pune				
	Building structure												
	Balang Structure												
									_				
	+ Add						-	Abort	Delete	Save			

In the view based on building structure you can select building parts in the left part and have the contained devices shown in the center. If a device is selected from the list in the middle, it can be edited in the right windowpane. If building parts are selected, they can also be edited in the right info pane.

Devices can be moved by drag-and-drop if you click on the grid icon and drag the device into the desired room while holding down the left mouse button.

The **search function** always searches through the device names* in the entire building.

*Device names are drawn during the project import from the designations of the group addresses in the ETS project.

The "Add" button is used to create new building parts or devices. Devices can also be added via the plus button next to the search. If a room is selected, this device will be created in the selected room.

View by group addresses

	127.0.0.1:31226/#/projects						A	ିର୍ ଜି 🕻	81	¢=	@ ¥	. 6	9
	🔟 Project Editor							Back to Config	uration	Ø			
	Building Group addresses	Device		Search by group ad	dress	e.g. 4/0/9 Q +	Info			٦			
xpand and ollapse tree) <u> </u>	lcon	Name	Group address	Devic	ie .	Group addre	55					
iew	D Lights/Sockets/Switches	Π.	Office Blind	1/4/1, 1/3/2, 1/2/1, 1/0/1, 1/1/1, 1/3/1	Blind		Name						
			Eat in kitchen Blind South	1/4/2, 1/3/3, 1/2/0, 1/0/0, 1/1/0, 1/3/0	Blind		Start Stop						
			Bedroom Shutter	1/2/3, 1/0/3, 1/1/3, 1/3/6	Shutt	ter	Data point ty 1.001	/pe					
	▽ 1/0 Start Stop		Bathroom Shutter	1/2/4, 1/0/4, 1/1/4, 1/3/7	Shutt	ter				1			
	1/0/0 Eat-in kitchen Blind South Start/Sto		Eat in kitchen Blind East	1/4/0, 1/3/4, 1/2/2, 1/0/2, 1/1/2, 1/3/5	Blind								
	P		Bedroom Blind	1/3/9, 1/3/9, 1/2/5, 1/0/5, 1/1/5, 1/3/8	Blind								
	1/0/1 Office Blind Start/Stop												
	1/0/2 Eat-in kitchen Blind East Start/Stop			Device overview									
	1/0/3 Bedroom Shutter Start/Stop							Info pane					
	1/0/4 Bathroom Shutter Start/Stop												
	1/0/5 Bedroom Blind Start/stop												
	> 1/1 Opening degree												
	⇒ 1/2 Up/down												
	▷ 1/3 Feedback												
	⇒ 1/4 Angle												
	▷ 2 Heating	Grou	ıp address overview										
	3 Weather station	GIUC	ip address overview					Delete					

When the tab "Group addresses" next to the "Building" tab is selected, the group address view is displayed.

Group addresses are displayed hierarchically in the left area sorted by main and middle group. By clicking on the main group, all devices containing group addresses from this main group are shown in the middle view. The list behaves analogously when selecting middle groups and group addresses. When you select a group address from the left field, the group address, name, and data point type are shown on the right windowpane. When clicking on a device from the middle view, device properties can also be edited here on the right side.

The **search** function searches among all group addresses.

Note: Group addresses that have not been assigned to an actuator are marked with an info icon.

If you want to add a group address, this is only possible when creating new devices. Group addresses that are not assigned to any device can be created in the logic module as triggers and actions.

5.1 Secure PIN

As soon as the Secure PIN has been set up in the project editor for a device, this PIN is requested for every switching or rule operation.

First carry out the following steps:

- Select a device in the project editor.
- Go to the Security PIN field in the info area.
- Enter a 4-digit number and then save.

ilding Group addresses			Device	e.g. light kitc	hen Q (+)	Info	
	Þ	= ~=	Icon Name	Floor / Room	Device	Name* Showroom left	
3 🕥 5 📄 7 👬 19 🔆	1 (5))	^	😵 🎟 Showroo	Showroom	Light Dimming	Device Type	
\bigtriangledown Ground floor			😵 🖩 Showroo	Showroom	Light Dimming	🛞 Light Dimming	\bigtriangledown
Bathroom			ISE ISE	Showroom	ISE Remote Access	lcon	
• 🖸 1 🗐 • • • • • •	3:8:	0 (5))				Dimming	\bigtriangledown
Bedroom	, e					Room	
	3 :00:	0 (%))				Showroom	\bigtriangledown
⊡ Distribution						Secure PIN	
0 🔘 0 📑 0 👬	0:0:	0 (5))					
Hallway						Group addresses	
0 🕐 0 🖬 0 👬	2 :0	0 (5))				Switch Write Address*	
🛅 Kitchen						1/0/50	
0 0 1 1	0:0:	0 (5))				Switch Feedback Address*	
Kitchen living						1/4/50	
1 🕐 2 📄 1 👬	7 :0:	0 ("))				Dimming Write Address Brightness	*
Store room/cellar	0.30	0.5%				1/1/50	
		-				Brightness Write Address Switch*	
PH Showroom ◎ ◯ ◎ 🗐 ◎ 🗮						1/2/50	
Outside area						Brightness Feedback Address Swite	:h*
V Outside area						1/5/50	
➢ Upper floor		Ų				Color Temperature Write Address	
+ Add		-				Cancel Delete	Save

Note: Only 4-digit number entries are permitted for the Secure PIN.

As soon as the Secure PIN has been set up for the device, it is requested each time a switching operation or controller is used.

The action is only executed once the Secure PIN has been entered correctly.





Note: You can deactivate the functionality again by removing the Secure PIN from the device in the project editor.



6 Energy Monitoring

In YOUVI, a special widget is available for an overview of the power currents in the household. The widget can be filled with values from the neoom app or with values transmitted via KNX.

A separate add-on is required to couple YOUVI with neoom. You can learn more about the neoom bridge <u>here.</u>



The following values are shown in the widget:

Measured variable	ETS data point type
Power fed into/taken from the grid Power delivered/generated in-house	9.024 Power (kW)
Vehicle, current charging batch	
Total consumption	
House battery, power fed in/withdrawn	
Vehicle, last charge	13.013 Active energy (kWh)
In-house battery, charging status Self-sufficiency	5.001 Percent (0100 %)

Creation of an energy monitoring widget

To create the widget, proceed as follows:

- Activate the Edit mode of the Visualisation.
- Go to the building structure

and click on the + **Add** > *Device* button.

 Enter a name and select "Energy monitoring" under Device type and confirm with the arrow in the lower right corner.



Integration of further sensors

Furthermore, up to 5 sensors can be displayed in the lower part of the widget.

- To do this, select the desired sensors from the drop-down menus.
- This selection can also remain empty.
- Confirm your selection by selecting the arrow in the lower right corner.



Entering the group addresses

In the last step you enter the corresponding group addresses for the individual fields.

- To do this, you can use the "..." button on the right side of a field to open the group address tree to select from the group addresses available in the project.
- Confirm your entries by clicking on the check mark.

7 YOUVI Mobile App

Note: If you have set up user management, first assign the desired user to the mobile device.

- To do this, open YOUVI Configuration > User management > Clients.
- Select the desired user for the corresponding end device in the "User" column:

Configuration				C Logout
	Connected YOUVI: Controlpro left	KNX Status: Connected	Network Status: Connected	
General	Client Type	Client Name	Status User	Settings
General		Controlpro left	Online None 🗸	
Dashboard				
Projects		Controlmini left	Online None 🗸	<u>نې</u> ا
Email		Controlmicro kitchen	Online None 🗸	्रि 🗊
Icons				
Images		PC	Online None 🗸	<u>نې</u> ا
Updates		iPhone14,4	Online user 🗸	
KNX				
Modules				
Bridges				
User Management				
Users				
Permissions				
Clients				

You set up the app belonging to the visualisation as follows:

- Open the Playstore or AppStore on your mobile phone, download the YOUVI Mobile App and install it.
- Open the app.
- Open the settings via the gear wheel at the bottom right and then open "Connection".
- Tap on the YOUVI server you want to connect to. It will appear in red font, if connected.

Note: If no server appears, you can add a server manually via the "Add" button.

Therefore, enter the IP address of the YOUVI server. You will find more information on how to find the IP address <u>here.</u>

- Note: The YOUVI server and the YOUVI Mobile app must be on the same network for the server to be displayed in the list. For remote access you need a special account and the YOUVI Connect module. You will find out more here.
- 12:02 12:02 ...| 🌫 🕞 12:02 ''II 🕹 💽 ...| 🗢 💽 $\langle |$ User login Settings Connection The login is used to authorize YOUVI user to Connection + Add execute actions on mobile application. Username user About YOUVI on PNX-WS-MB-01 Î Password YOUVI on PRO-4PK2G1TKTJS Authentication Ŵ Change Theme Controlpro left on CONTROLPRO Send report Login User login र्छे
- If User management has been set up, also log in via the user login:

- Once you are connected to a YOUVI server, the devices available in the visualisation are displayed in the app.
- First go to the Dashboard page and tap "Select Dashboard Devices".
- Add devices to the dashboard by selecting the dashboard icon on the right side.
- Use the back arrow to return to the dashboard.
- Tap tiles to see more settings.
- *Rooms* takes you to the house overview, where you can find devices sorted by room.

Remote access with the YOUVI Mobile App

If you are no longer in your own WLAN, you can continue to access your devices as desired. For doing so you need a YOUVI Connect account. If you have already created a YOUVI Connect account while using the Alexa voice module, steps 1 & 2 do not apply to you:

Create a YOUVI Connect Account

In the YOUVI Mobile App: Navigate to Settings > Connect-Login > Register and register your YOUVI Connect account.

OR

- In the YOUVI Desktop Program: Open YOUVI Configuration > Dashboard > YOUVI Connect > Register and create your YOUVI Connect account.
- After you have entered e-mail and password, you will receive an e-mail with a confirmation link to click on.
- In YOUVI Configuration: Go the Connect page, select the "Connect" tab and use the Login tab underneath to log in with the created account. You will now see devices that you can access via Amazon Alexa or the YOUVI Mobile App.
- With the check mark, you determine which devices can be controlled via the app, while you are outside your home network.
- In the YOUVI Mobile App: Navigate to Settings > Connect Login and log in here as well with the YOUVI Connect account data.

Now you can control your YOUVI devices also from outside your home network.

7.1 Functional scope

Supported functions in the YOUVI App:

Device Type	State/control option
Heating	 Temperature °C
	Modes:
	Comfort, C Economy
	₩ Building Protection, Building Protection, Building Protection,
Lights, sockets and Switches	 On/Off
RGB-Lights	On/OffBrightness: 0-100 %RGB-Color
Dimmer	 On/Off Brightness: 0-100 % Color temperature (K and %)
Shutters	Up/DownPosition: 0-100 %



Device Type	State/control option
Blinds	 Up/Down Position: 0-100 % Angle: 0, 90°, 180°
Sensors	 Binary Brightness (lux) Humidity (%) Percent Temperature (°C) Time (12h and 24h Format) Wind speed (m/s) Noise (W/m²) CO₂ (ppm) Wind direction Pressure (Pa) Current (mA), DPT: 7.012, 9.021 Power (kW, W), DPT: 9.024, 14.056 Active energy (kWh) DPT: 13.013 Numeric values: signed, unsigned, or float value (ETS data point types 7.x, 8.x, 9.x) Rainfall (l/m²)
Add-ons	 IKEA Tradfri Netatmo Philips Hue Yeelight

General functions in the YOUVI Mobile App

- Visualisation and control of KNX devices in a tile-like device representation
- Receive push notifications from YOUVI logic module
- Use <u>buttons</u> which haven been configured in YOUVI Visu
- Start <u>Scenes</u> which have been configured in YOUVI Visu
- Use weather stations which haven been configured in YOUVI Visu
- Add room buttons

Functions on the dashboard

Presents your most important devices in one screen

Functions on the building structure $\begin{bmatrix} -- \\ - \end{bmatrix}$ screen:



Visualisation of the building structure i.e. floors and rooms in hierarchical menus

Functions on the settings $\begin{cases} \zeta_{i} \\ \zeta_{i} \\$

- Dis-/Enable YOUVI Dark Mode
- Connect to a YOUVI Server in the WiFi, create a connection manually (enter IP address)
- Connect to YOUVI via a YOUVI IoT account
- Send error report

7.2 Adding room buttons

To add a room button in the YOUVI Mobile App, proceed as follows:

- Open the app and connect to a YOUVI Server under *Settings > Connection* if necessary.
- Select the *Rooms* view.
- Select the dashboard icon next to the desired room.
- The desired room button will now appear in the *Dashboard* view. It serves as a link to the respective room and shows a status overview of all device groups in this room.


8 Modules

YOUVI consists of a basic package and a constantly growing range of modules.

The basic package:

- Visualisation
- IP router
- Bus monitor
- YOUVI Mobile*

Modules:

- Connect
 - Alexa
 - YOUVI Mobile*
 - Apple Home
- Camera
- Door intercom
- Logic

*The app YOUVI Mobile is included free of charge in the basic package and can be used in your home network. If you also want to use the app while on the move, the YOUVI Connect module is required.

8.1 Cameras

In this tab, you can set up your IP cameras for use in YOUVI Visu, as shown in the image below.

Note: The widget design "Small Stream Displays", shown in the image should only be used on the Controlpro panel. For the smaller panels, the widget design "Buttons" is recommended to keep the panel load moderate.

Installation

You can find more information about the installation <u>here.</u>



Set up a camera in YOUVI Configuration

- Below the plus icon next to Camera Sets, you can create a new camera group and associated camera streams. Each camera set is displayed as a camera widget (see picture), in YOUVI Visu. The widget displays all defined camera streams in a small view. The currently selected stream is displayed in a larger view or in full screen mode.
- In **Camera Set's Name** you assign a suitable name for the selected camera group.
- In Select Camera Stream, select the plus icon again to create a new stream for the selected camera set.
- Name the stream using the Stream Name field.
- Low Resolution URL: This URL is used for the small stream image of the camera widget.
- High Resolution URL: This URL is used for the full-screen view of stream.
- The Stream Type field allows you to choose between MJPEG, JPEG and RTSP as a streaming format.

MJPEG

If you would like to use MJPEG as a streaming format, you can use up to 4 camera streams for each widget at a low frame rate. If you even want to define multiple camera sets, we recommend using the resolutions below and limiting the stream refresh rate to 4 fps.

JPEG

If you would like to use JPEG as a streaming format, you can use up to 4 camera streams at a low frame rate per widget. If you even want to define multiple camera sets, we recommend using the resolutions below and limiting the refresh interval to 500 ms per stream.

<u>RTSP</u>

• We recommend that you use the resolutions below with the RTSP streaming format.

Note: High **stream refresh rates** significantly increase CPU utilization and network traffic for each additional camera stream. Make sure you use the recommended resolutions (see blue box) and only define a maximum of 2 streams on the panel.

Note: Always check your CPU usage while defining new streams before adding more streams.

We recommend using an RTSP streaming format.

Important!

Make sure the entered stream URL has the correct resolution. We recommend the following values: Low Resolution URL: 320 x 240 pixels High Resolution URL: 1920 x 1080 pixels

Add the camera to the dashboard

- Switch to YOUVI Visu and switch on the Edit mode in the Settings
- Switch to the Dashboard page and select the + Webcam button. Select the defined camera set.

8.2 Door intercom

Via the door intercom module it is possible to integrate SIP intercom systems into YOUVI's Visualisation. To set this up, only the data for registration of the door station, a video link and the opening mechanism have to be entered in YOUVI Configuration. The door station module can then be added to the dashboard of the Visualisation (edit mode switched on).

Note: If the panel is in standby, calls from the door station cannot be received! For the module to work, make sure that only the screen switches off to save energy.

Note: High **refresh rates** lead to a significant increase in your CPU usage and network traffic. Therefore, use a **maximum resolution of 1920x1080** on the PEAKnx panels. The refresh rate and resolution can usually be set in the respective video settings during setup of the door station.

Installation

• You can find more information about the installation here.

Creating a door station in YOUVI Configuration

- Use the plus symbol
- to create a new door station.
- Enter a name for the door station in the field on the right.
- SIP server: Enter the IP address of your SIP server.
- **Camera stream:** Enter the link of the camera stream from your door station here. The link is usually found in the documentation of the manufacturer of the door station. In the following table you will find some examples:

Door station	Stream link	Format
2N	rtsp://{2N_ip}:554/	rtsp
2N	http://{2N_ip}/enu/camera1280x960.jpg	jpeg
Agfeo	Go to AGFEO configuration website > Video.	mjpeg
Doorbird	rtsp://{app_user}:{app_password} @{Doorbird_ip}/mpeg/media.amp	rtsp
Mobotix	rtsp://{user}:{password} @{Mobotix_ip}:554/stream0/mobotix.mjpeg	rtsp
Siedle Access	Go to the Siedle user interface; Users in the properties of the SIP phone (PEAKnx Panel) > Switching and controlling > Video URL	mjpeg
Siedle InHome	Go to the Siedle user interface, page: Network users > IP users under Video decoupling	mjpeg
TCS	http://{TCS_ip}:12000/video.mjpg	mjpeg
wantec	http://{wantec_ip}:80/video.jpg	jpeg

- **Stream Type:** Select a suitable streaming format according to the specifications of the door station manufacturer. In the case of JPEG streams, an image refresh interval is also requested. For example, select 500 ms to receive a new image twice per second.
- **Unlocking method:** Select the mechanism to which your door opener function is connected.
- Then enter either the appropriate group address (telegram), Http command or the DTMF opening code.

Door station	DTMF code
2N	Enter the DTMF opening code that you defined in the "Switches" tab on



	the 2N configuration website. For confirmation, the code must be terminated with a "*" symbol, e.g. "00*"
Agfeo	Enter the DTMF opening code that you defined in the "Relay" tab on the Agfeo configuration website.
Doorbird	Enter the DTMF opening code that you defined in the doorbird configuration app. For confirmation, the code must be terminated with a "#" symbol, e.g. "00#".
Siedle Access	You will find the code for DTMF under <i>Users</i> in the SIP phone properties (PEAKnx Panel). The only option currently available for activating the door opener in the Access System is via DTMF (either SIP INFO or RFC2833).
Siedle InHome	You can find the opening code for DTMF under: Basic settings > DTMF. To activate the door opener in the InHome system via the SG, the only option currently available is via DTMF (either SIP INFO or RFC2833)
wantec	Enter the DTMF opening code that you have defined under <i>Basic Settings</i> > <i>Relay</i> on the wantec configuration website.

- If a group address is specified, a 1 is sent to the group address when the door opener icon is touched and a 0 is sent when the opening interval has elapsed.
- Duration of the opening interval: Specify the opening duration for the controlled door/relay.
- Forward call to: Select whether the door call should arrive on all panels (all) or only a specific client (specific panel(s)). If you select "all", it is important to also add the door station module to the Dashboard on each client.
- All Clients: Enter the SIP user data predefined in the SIP server (for example a fritzbox) for YOUVI. The SIP user and password are used for all clients. Under General > Clients you can view which devices are currently connected to the YOUVI server and delete individual clients if necessary.

Note: Depending on the SIP server, the number of allowed SIP users varies. If the allowed number is exceeded, registration cannot take place. If YOUVI displays a grey status during registration, switch to "Specific Clients" to view the status of the individual registrations and adjust the login data for each client. Then set up a call group in the SIP server.

- Specific Clients: Enter the SIP user data predefined in the SIP server (for example a fritzbox) for each client. Each field must be filled to save the entries. The same user data for several clients is allowed. If a SIP account is not provided for each client, enter any characters for user and password to save your entries.
- The number of panels that can be used simultaneously depends on your SIP server. The same applies to the camera stream used.
- Username: Here you enter the name that you have assigned in your SIP server for the touch panel with YOUVI, e.g. "Control".
- **Password:** Enter the password associated with the username.



Select "save". The status symbol is green if the login to the server is successful. If the login fails, check the IP address and the access data of your SIP account in the SIP server settings again. Make sure that the IP address really refers to the SIP server and not to the door station or the panel. Also check the correct spelling of username and password. Upper and lower case letters matter.

Status	Description	
Orange	SIP server registration in progress	
Green	SIP server registration successful	
Red	SIP server registration failed	
Grey	SIP server registration not yet initiated	

If you want to integrate a second door station, e.g. for a second entrance, select the plus symbol again and proceed in the same way for the second door station.

Note: When creating a second door station, make sure to use a different SIP user, otherwise YOUVI cannot distinguish the door stations from each other.

Adding the door station in the Visualisation

- Now open the Visualisation.
- To ensure that the Visualisation is started automatically when the system is rebooted, open the YOUVI-Visu settings under **Autostart** and activate it.

חר

- Now switch on the Edit Mode and switch to the **Dashboard**.
- Select the "Door Intercom" button to select a door station created in YOUVI Configuration.

Û	🖉 Edit mode						2:42 PM	⊂ J° ^Ω _{21°C} J° [₽]
	Add Page	📋 Remove Page	+ Placeholder	+ Web widget	+ Webcam	+ Door Intercom	+ Sound systems	Layout 1 🛛 🗸
A	Living room	* 🎛 🕸	Living room	* 🔡 🕸	All lights	80		
•	©≈ ®≈	Actual 21.0 °C				Lights 3 On / 17 Off		

In the picture, the door station widget shows a warning. In this case, check the SIP access data and the network connection of the panel again. As soon as the panel was able to register with the SIP server, the warning symbol disappears and the widget is ready for use.



This image is interactive

• The buttons at the bottom right can also be used to access the camera stream of the door station, to silence the ringtone on the panel and to view missed calls.

Viewing the camera image and opening the door without a call from the door station

The camera button in the widget can be used to view the camera stream of the door station, even if no SIP call is currently being received. If the opening method "telegram" or "http request" was selected to open the door, a button for opening the door also appears on the camera image:



Functions of the full screen widget:

- Before accepting the call: accept video call from the door station, reject, or open the door directly
- After accepting the call: make video call, open door, mute, end call, deactivate camera image
- Select a ringtone of 5 predefined tunes or upload a ringtone in the <u>tile settings</u> of the Door intercom widget
- Define the duration of the ring tone in the tile settings
 523 of the Door intercom widget

Note: After the duration of the ring tone has elapsed, the ring tone is silenced, but the widget remains open for the duration of the call. The call duration is determined by the SIP server or the settings in the door station.

- The widget closes automatically after 3 seconds after the door is opened.
- Video transmission in MJPEG, JPEG and RTSP

Recording of missed calls

Missed door calls are stored in a gallery that you can access via an icon in the bottom right of the widget. If a door call is not accepted, 3 captures are made and stored at an interval of 3 seconds with the camera of the door station. The user can then view these images:

			×
2022 - (∞ 80		
5	6 7	8	9 10
((Q))	11:36:52		

Images are stored until the storage space allocated for this purpose exceeds 200 MB. Images will then be deleted, starting with the oldest, if memory space is required for new photos.

Removing or deleting the door station

Removing the door station from the dashboard of a panel:

- Switch to the visualisation and switch on the Edit mode.
- Switch to the dashboard.
- Tap on the dashboard icon on the tile of the door station module.
- The widget is removed from the dashboard. The respective panel no longer reacts when the door bell rings.



Removing the door station completely:

- Go to YOUVI Configuration > Modules > Intercoms.
- Click on the minus button next to the name of the door station and confirm.
- The door station has been deleted. The associated widget disappears from the visualisation of all connected display units.

Compatible door stations

Compatible PEAKnx Products	Tested door stations
 Controlpro Control 12 (- mini) Controlmicro 	 AGFEO IP-Video TFE 1 2N IP Verso DoorBird IP Video Door Station D10x/D11x/D21x Series, Firmware version: 000138 Mobotix T25 wantec Monolith C IP TCS AVE intercom outdoor, IP Gateway: FBI6119-0400, Supply and control unit: VBVS05-SG Siedle Access: ASH 671-0 S - Access server hardware, ATLC/NG 670-0 - Access door loudspeaker controller, ACM 673-03 - Access camera, ATLM 670-0 - Access door loudspeaker module, BTM 650-04 - Bus pushbutton module; Access system version: V6.1.0 Siedle InHome: BVNG 650-0 - Bus video line rectifier, SG 650-0 - Smart Gateway Professional, BCM 653-03 - Bus camera, BTLM 650-04 - Bus door loudspeaker module, BTM 650-04 - Bus pushbutton module, SG 650-0 System version: V2.1.1

You will find corresponding instructions in the <u>download area</u> under the respective panel

8.3 Connect

The YOUVI Connect module is used to control KNX devices via app from outside the home network or via Alexa.

Setup

To use the Connect module you must first install it:

- You can find more information about the installation <u>here.</u>
- Here is a brief introduction to using the YOUVI Mobile app
- Here is a brief introduction to using the Alexa Voice module
- Here you will find a brief introduction on how to connect to the Apple Home App

8.3.1 Alexa

With Amazon Alexa, smart home devices and also devices connected to the KNX network can be controlled via voice inputs. In the following Quick Start, you can read how to set it up.

- You will also find <u>here</u> how to change device names.
- Here's how to give voice commands to Alexa.

Quick start

The home control with Alexa is possible after registering your YOUVI Connect account. To do this, follow these steps:

In YOUVI Configuration:

- Navigate to the YOUVI Connect page and the "Register" tab to create your account.
- Enter an email address and set your password for registration.
- You will then receive an email to activate the YOUVI Connect account.
- Open the confirmation link to complete the activation.
- Now select "Log in" in YOUVI Configuration and log in.
- After logging in, you will see all the devices of your KNX project as a list, as shown in the picture.
 From these devices, you can choose which will be controllable via the Amazon Echo by putting a checkmark or not.

	Connected YOUVI: YOUVI C12 Demo	KNX Status: Connected		vork Status: nected
General				
General	Conn	ect	Hom	ieKit
Dashboard				
Projects	Logged user:	peaknx.com		Log Out
Email	Devices to be discove	ered:		
Icons	🗸 Name		Room	Device Type
Images	🗸 Kitchen living	dimmer couch	Kitchen living	Light Dimming
Clients	🗹 Lampe de pla	fond	Kitchen living	Light Dimming
Updates	📝 🛛 Tous les volets	s rez-de-chaussée	Kitchen living	Blind
<nx< td=""><td>🗹 Kitchen living</td><td>blind east</td><td>Kitchen living</td><td>Blind</td></nx<>	🗹 Kitchen living	blind east	Kitchen living	Blind
	🗹 Lumière de co	ouloir	Kitchen living	RGB Light
Modules		RGB TV board s	Kitchen living	RGB Light
Cameras		heating setpoi	Kitchen living	Heating
Intercoms	Kitchen RGB X		Kitchen living	RGB Light
Connect	 Lumière de co Kitchen ceiling 	g light worktop	Kitchen living Kitchen living	Light Switch Light Switch
Bridges	✓ Kitchen centra		Bedroom	Light Switch

Download and install the Amazon Alexa App from the Google Play Store or App Store.

In the Amazon Alexa app:

- Navigate to Skills & Games and type "Peaknx youvi" into the Search box.
- The "PEAKNX YOUVI" skill is shown. Select and activate this.
- Log in with the account you have created. Allow the access for YOUVI.
- YOUVI is now linked to Alexa. After closing the window, select "Discover Devices" to connect the devices shared in YOUVI.

Creating groups

To control multiple devices together, you can assign them to different groups, such as "living room."

You create the groups in the Alexa app under "Devices".

Some examples:

- "Alexa, turn on the living room."
- "Alexa, set the living room temperature to 23 °C."



• "Alexa, dim the living room to 15%."

8.3.1.1 Alexa commands

The device control by voice commands is done via Alexa. The devices are addressed in the same way as they are displayed in YOUVI Visu.

For example, if the living room lighting is named "living room light" in YOUVI Visu, just say, "Alexa, turn on the living room light."

In the Alexa app you can also add devices to groups to use Alexa more efficiently.

Lights and sockets:

"Alexa, turn on/off [device name]."

Dimmable lights:

- "Alexa, dim the [light name] to ... %."
- "Alexa, set [light name] to ... %."
- "Alexa, dim/brighten [light name] (by ... %)."
- "Alexa, increase/decrease [light name] (by ... %)."

RGB-lights:

- "Alexa, change the [light name] to [color]."
- "Alexa, turn [light name] to [color]."
- "Alexa, set the [light name] to [color]."

Radiators/thermostats:

- "Alexa, [radiator name] ... degrees."
- "Alexa, set [radiator name] to ... degrees."
- "Alexa, what temperature is [radiator name] set to?"
- "Alexa, make [radiator name] warmer/cooler."*
- "Alexa, raise/lower the temperature of [radiator name]."*
- "Alexa, raise/lower (the temperature of) [radiator name] by 2 degrees.."
 *Alexa changes the temperature by 1 degree.

Temperature sensors:

"Alexa, what is the temperature at [sensor name/radiator name]?"

Blinds and shutters:

"Alexa open/close the [blind/shutter name]."

- "Alexa raise/lower the [blind/shutter name]."*
- "Alexa set the [blind/shutter name] to ... %."
- *command changes the blind position by 20 %

Update devices

To update devices, for example after a name change in YOUVI Visu, just say:

"Alexa, discover my devices"

8.3.1.2 Change device names

The device name can easily be changed via YOUVI Visu:

- To do so, activate the Edit Mode in the Settings
- Go to the tile settings, of the device you want to change and adjust the device name as desired.
- Press the circle arrow in the bottom left corner of the YOUVI Visu to refresh the view.
- If you now view your device overview in YOUVI Configuration in the YOUVI Connect tab, you will find the new device name there.
- Say to Alexa: "Alexa, find my new devices"

8.3.2 Apple Home

YOUVI Connect also allows you to control your KNX installation via the Apple Home app or Siri.

The following devices are supported:

- Light (on/off, dimmer, RGB)
- Ventilation
- Air conditioning
- Blinds
- Shutters
- Switches
- Thermostats

Sensors:

- Brightness sensor
- CO2 sensor
- Humidity sensor



- Temperature sensor
- Weather station

Set-up

How to set up the connection:

• On the Connect page, switch to the "Apple Home" tab and select "Enable Apple Home".

Configuration			🖉 Logout 🌘
	Connected YOUVI: YOUVI	KNX Status: Connected	Network Status: Connected
General		Connect	Apple Home
General Dashboard		onnect	Apple nome
Projects	Enable/Disable Apple	Home	Reset Apple Home
Email	-		
Icons			

 You will now find a QR code and a list of available devices. This list is filled with the contents of the active project. Make sure that all devices in the project appear in the list.

Note: If not all devices from the project appear in the list, reload the page.

Configuration			C Logout
	Connected YOUVI: YOUVI	KNX Status: Connected	Network Status: Connected
General			
General	Cor	inect	Apple Home
Dashboard			
Projects		Enable/Disable Apple Home	Reset Apple Home
Email			
lcons	Devices to be discovered:		
Images	🗹 Name	Room	Device Type
Updates	🗹 Cellar heating	Store room/cellar	Heating
7107	Home cinema	Home cinema	Heating
KNX	Attic cooling	Attic	Heating
Modules	Fitness room ventilat	ion Z Fitness room	Ventilation
Connect	Bedroom RGB HSV	Bedroom	RGB Light
	J Bathroom RGB 232.6	00 wri Bathroom	RGB Light
Bridges	🗸 🛛 Bathroom dimmer	Bathroom	Light Dimming

- Remove all tick marks from devices that should not appear in Apple Home.
- Open the Home app > "Home" on the Apple end device, swipe down and go to "Add Accessory":



Scan the QR code on the Connect page (if you click on the QR code, it will be displayed larger).

Note: Make sure that the YOUVI server and the mobile Apple device are in the same WLAN/network and that the panel has "private" network settings.

- When the "Bridge" dialogue opens, select "Add to Home".
- After successful connection, select the room in which your YOUVI server is located as the "Bridge location" and confirm with "Continue".
- Confirm the suggested name with "Continue"
- All devices selected in YOUVI will now be added to the Home app.
- Confirm the name and location of the individual devices.
- As soon as this process is complete, the imported devices are displayed in the app and are ready to use.
- You have the option of adding devices, scenes and rooms in the app.

Deactivating Apple Home

You can use YOUVI Configuration to activate or deactivate control of the home installation via Apple Home at any time - all device and connection data is retained. Only the connection from YOUVI to the app is "switched on" or "switched off".

• To do this, select the "Enable/disable Apple Home" button:

Configuration			🛆 Logout 🖉
	Connected YOUVI: YOUVI	KNX Status: Connected	Network Status: Connected
General			
General	Connect		Apple Home
Dashboard			
Projects	Enable/Disable Apple Home		Reset Apple Home
Email			
lcons			

Reset Apple Home

This option is used if, for example, the KNX project is substantially changed and uploaded again. Previously connected devices are no longer connected and can no longer be controlled. The connection in your app is reset and a new QR code and setup code is generated. The bridge on the iPhone/iPad must then be deleted and added again:

Select the "Reset Apple Home" button:

		C Logout
Connected YOUVI: YOUVI	KNX Status: Connected	Network Status: Connected
Connect		Apple Home
Enable/Disable Apple Home		Reset Apple Home
	YOUVI	YOUVI Connect

In the Apple Home app, the bridge must be deleted in the "Home Settings " under "Home Hubs & Bridges":



8.4 Logic

With the YOUVI Logic module you can let your house react to certain events. Here we show you how to do it.

Setup

To use the logic module you must first install it:

• You can find more information about the installation here.

What is a routine?

In the simplest case, a routine consists of a trigger and an action. You first define a specific trigger event. For example, this could be a certain outdoor temperature value measured by your weather station. As soon as this event occurs, an action is triggered, for example, the heating switches to economy mode.



Triggers initiate one or more actions.

Actions are, for example device values, E-mail notifications, or http commands that are set or sent after their triggers occur.

Besides the classic if-then routines, you can also add conditions. For example, if you want to switch on your sprinkler system at a certain time every morning, you can set appropriate conditions, such as a certain soil moisture level.

Conditions restrict whether actions are played after their trigger occurs.



As an additional function we provide the **custom state**. This can be used in any part of the routine. For example, as an additional, flexible condition: For example, during a party in your house, normal logic such as "bedtime" logic can be deactivated while "party mode" is active. Or you can select the party mode as a trigger, for example to adjust your lighting to suit your needs.







Creating a routine

There are basically two ways to create a routine: You can first create all the building blocks (triggers, conditions, actions) of the routines separately, or you can create a routine and define the individual building blocks during the configuration of the routine. These newly defined triggers, actions and conditions are then also listed in the "Triggers", "Actions" or "Conditions" tabs and can be changed there.

Note: To create a routine an ETS project must already be stored in YOUVI Configuration > Projects. From the project, all devices, their group addresses but also timers and scenes from the Visualisation are provided for the logic module.

Note: Scenes created in the Visualisation, YOUVI Visu can be found in the Logic Module under the "Actions" tab. They have the suffix "action visu". Timers created in YOUVI Visu can be found in the Logic module under the "Triggers" tab and with the corresponding devices in the Routines overview

Creating the building blocks of a routine

The individual building blocks (actions, triggers and conditions) of all routines can be viewed in separate tabs in the Logic app. All created triggers are collected e.g. in the tab "Triggers", also those you created while defining a routine. Here you have an overview of your triggers, you can edit, rename or delete them. Furthermore, you can use the same building block in several routines. The same principle applies analogously to actions and conditions.

🖻 Logic	Routines Triggers Actions Conditions Custom States
Routines 🏷 Trigger 🏷 Action 🏷 Condition 🏷 Routine Name	

This is how you create e.g. a trigger:

- Switch to the "**Trigger**" tab
- Go to "+New trigger" there

For example, you may want to set a timer for your getting-up-routine,

- Select "Time" as the type of trigger.
- Set the appropriate time there, e.g. 7:00 a.m. and weekdays (WD), and save.

A message will appear indicating that the trigger was successfully created.

Note: When you create a routine, you will find the created trigger under "Select Trigger".

Creating a new routine

How to create a routine:

- In the "Routines" tab, select "+ New Routine".
- Either select a predefined trigger "Select Trigger" or create a new one "+ New trigger".
- Edit the autogenerated name if necessary.
- Proceed analogously for actions and conditions.
- At the end of the procedure you can edit the routine name, which is automatically generated from the settings you made, and add a label to the routine.
- A detailed description and examples for creating a routine can be found here.

Note: If you change a trigger, action or condition used in a routine in the respective "Triggers", "Actions" or "Conditions" tab, the corresponding routine is also changed! In the lower part of the window, the routine view shows in which routine(s) the block is used.

Labels

Labels are available to help you find and check routines more easily. You can name them freely and drag and drop them onto any routines. You can find the label overview by clicking on the red area on the left side of the routine table.

Search for routines

If you are looking for a routine, you can either filter for the label in the routine column or open the area on the left side of the routine table to use the text search.

Activating and deactivating routines

You can set whether the defined routine is to be played via the checkboxes under "Active". If the check mark is set, the routine will be executed.

History

All routines that were defined and would have been started according to their trigger are listed here. If they have taken place, "Successful" is displayed in the "Result" column. Testing of the routines via the "Test" Button does not appear in the history.

Testing routines

If you want to test a routine or better; an action, you will find the button "Test" on the main page "Routines". If it is pressed, the trigger and condition of the routine are skipped and the action of the routine is executed directly.

8.4.1 Example routine

In this example, we set the blinds to 50% with an angle of 90° at a certain time (summer) or at sunrise (winter), but only on days when you have to get up early.

Note: If you have already created a timer for your blinds in the Visualisation before, you will already find the associated routine in the routines overview and only need to integrate the condition into the routine. To do this, select the routine, choose "Edit routine" and then "Condition" on the left, then switch to point <u>3. Creating the condition.</u>

This is how you create the complete routine:

In the "Routines" tab, select "+ New routine".

1. Creating the trigger

<u>a) Timer:</u>

- Select "+ New Trigger" > "Time" and click on the displayed time.
- Set 7:00 AM and "WD" for weekdays.
- Edit the auto generated name if necessary.
- Click on "Next".
- The trigger is created.

b) Astro times (sunrise and sunset):

- If you have not already done so, create the astro times now.
- Click on "Select Trigger", and select from the predefined triggers "Sunrise in ...".
- Confirm with "Ok".
- Click on "Next".

2. Creating the action

- Select "New Action" > "Device" and click (on the right side) on the box under "Device" to open the device selection.
- Click on the "Shading" button, select the desired blind (the device is marked blue) and click on "Ok".
- Under "Action" select "Position" and drag the slider to 50 %.
- Under "Delay" you can define how much time should pass between the trigger and the action. This can be left at 0 in this case.
- Then click on the green "+" symbol to add another action.
- A new row appears in which a new action can be defined.
- Select the desired blind again.
- Under "Action", select "Angle" and set 90° in the slider.
- Change the delay as desired or leave it at 0.
- Edit the auto generated name if necessary.
- Click on "Next".
- The action is created.

3. Creating the condition

- To create the custom state select "+ New condition" and "custom state".
- Create a new custom state with the "+" symbol.
- For example, name it "Sleep in". For the status select e.g. for text if on: "Sleep in" and for text if off: "Get up early".
- Select "Save".
- Edit the auto generated name if necessary.
- Press "Save".

4. Naming and assigning labels

- At the end of the process, you can adjust the routine name that is automatically generated from the settings.
- You can also add a label to the routine.
- To do this, click on "Manage Labels" to create new labels.
- With a click on the color field you can adjust the colored of the label.

5. Save

Click on "Save" to save the routine.

6. Switch on custom state if required

On the previous day you switch on the custom state in your Visualisation if you know that you
do not want to be woken up early the next day, see <u>Create custom state button in Visu</u> and the
routine will not be played.

8.4.2 Creating times for sunrise and sunset

To always use the exact times for sunrise and sunset in your logics, proceed as follows:

- Switch to YOUVI Configuration > General > General.
- Enter your location e.g. "Darmstadt" as city name.
- Now switch back to the logic module and refresh the page.
- Under "Triggers" you will now find the predefined triggers for sunrise and sunset.

8.4.3 Creating a custom state

Custom states are used for cases that can influence your standard routines.

- To create a custom state, click on the "Custom State" tab.
- Click on "+ New Custom State".
- In the field on the right, under "Name", enter for example "Party".
- If you want to set a specific display text in the Visualisation, enter it in the "On Text" and "Off Text" fields.
- The current status of the custom state is displayed below this.
- Click on "Save".
- Proceed in the same way for other custom states, such as "holiday".

How to create a "Custom state button" in your Visualisation is explained here.

8.4.4 Functional scope

The following basic functions are provided by the logic module, listed by logic components:

Triggers

- Create, name, delete, edit triggers
- Overview in which routine(s) used



Trigger types:

- Timer: time, weekdays, sunset, sunrise
- Interval: Every x hours, x minutes, x seconds
- Device value: (Trigger on value change or on exact value under the condition that device value =, \neq , > or < x)
 - Sun protection: position, angle (blind)
 - Lights: On/Off, brightness, color (Hex, RGB value)
 - Heating: HVAC mode, actual value cooling, actual value heating, actual value temperature, setpoint temperature
 - Ventilation: Any, Ventilation Preset, Auto Mode, Boost, Temperature
 - Switches/buttons: On/Off
 - Scene: On
 - Sensors: unit depending on sensor
 - Door station: doorbell rings
 - ISE Remote Connect: Access to portal, access for installers, access for residents, remote access or Quick Connect allowed/denied
- Custom states: On/Off
- Http command: Generated Http trigger command, creates a link for you that triggers an event. The link is created when you select "Next/Save" and can be found in the "Triggers" tab.
- Telegram: Group address and command

Actions

- Create, name, delete, edit actions
- Overview in which routine(s) used
- Define an action with several elements
- Define a delay for each action and its elements

Action types:

- Device value:
 - Sun protection: position, step up/down, open/close, angle (blind)
 - Lights: On/Off, brightness, color (Hex, RGB value)
 - Heating: HVAC mode, temperature
 - Ventilation: Auto Mode, Boost, Temperature
 - Switches/Buttons: On/Off
 - Scene: On
 - Sound system: Mute/unmute, volume, start playlists/favourites, pause



- Door station: Mute/unmute on a specific client
- Camera: Camera image is brought to the foreground of the visualisation
- ISE Remote Connect: allow/deny: access to portal, access for installers, access for residents, remote access, Quick Connect
- Action: Include an already created action
- http command: Methods: GET, PUT, POST, DELETE
- Custom states: On/Off
- Set the Visualisation theme of a specific panel, the YOUVI Mobile app or all clients to light/dark. You can change the naming of the clients under YOUVI Configuration > General > Clients.
- Send toast/push/popup notifications to the Visualisation of a specific panel, the YOUVI Mobile app or all clients. You can change the naming of the clients under YOUVI Configuration > General > Clients.
- E-mail: E-mail dispatch to a predefined recipient, Set up e-mail function
- Telegram: Group address and command

Conditions

- Create, name, delete, edit conditions
- Overview in which routine(s) used
- Create several conditions and link them with "AND" or "OR" operator

Condition types:

- Device value: (under the condition that device value =, ≠, > or < x)</p>
 - Sun protection: position, angle (blind)
 - Lights: On/Off, brightness, color (Hex, RGB value)
 - Heating: HVAC mode, actual value cooling, actual value heating, actual value temperature, setpoint temperature
 - Ventilation: Setpoint Temperature, Actual Temperature, Is Heating, Is Cooling, HVAC Mode
 - Switch: On/Off
 - Sensors: Unit depending on sensor
 - ISE Remote Connect: access to portal, access for installers, access for residents, remote access or Quick Connect allowed/denied
- Condition: Include an already created condition
- Time span: Action is executed only on time from hh:mm to hh:mm
- Day/night: Day and night times according to sunrise and sunset
- Custom states: On/Off



Custom States

- Create, name, delete, edit custom states
- Switching custom states on and off
- Assign status text

Routines

- Create, name, delete, edit and filter routines
- Activate/deactivate routines
- Create, edit and assign labels
- Test routines
- View history for played and blocked routines



9 Bridges

YOUVI consists of a basic package and a constantly growing range of bridges to other manufacturers.

The basic package:

- Visualisation
- IP router
- Bus monitor
- YOUVI Mobile*

Bridges:

- Airzone
- IKEA Tradfri
- neoom
- Netatmo
- Philips Hue
- Sonos
- Bluesound
- trivum
- Yeelight

*The app YOUVI Mobile is included free of charge in the basic package and can be used in your home network. If you also want to use the app while on the move, the <u>YOUVI Connect</u> module is required.

9.1 Airzone

With the Airzone Bridge, you can integrate air conditioning systems that are connected to the <u>Aidoo Pro gateway from Airzone</u> into YOUVI.

To do this, proceed as follows:

Installation

- Install Airzone Aidoo Pro according to the instructions supplied and put it into operation.
- Use an IP scanner software to search for the Airzone Aidoo Pro device in the network (the device contains the identifier 'AZ').

Note: Make sure that YOUVI and Aidoo Pro are on the same network.

- Note the IP address.
- Go to YOUVI Configuration and install the Airzone bridge.
- You can find more information about the installation here.

Set up the Airzone bridge

- Click on the Airzone bridge icon on the Dashboard and go to 'Create device' in the configuration.
- Enter the IP address of the Airzone gateway.
- Enter the name and select a room.
- Select 'Save device'.



🔍 Configuration				C Logout
	Connected YOUVI: YOUVI	KNX Status: Connected	Network Status: Connected	
General General Dashboard Projects Email Icons Images Updates KNX Modules Bridges Airzone Bluesound User Management	Airzone Devices: Device Type: IP Address: Name: Icon: Room: Group addresses		Create Device Airzone Aidoo Pro Air Condition 10.2.42.51 Airzone Aidoo Pro ① Air conditioning ③ Air conditioning Kitchen living	>
More			Remove Device	Save Device

9.2 IKEA Tradfri

With this bridge, various Ikea devices are integrated into the YOUVI visualisation. The IKEA devices are displayed and operated in YOUVI in the usual widgets:

IKEA device	Device type in YOUVI
TRÅDFRI lights	Dimmer, dimmable RGB Light
TRÅDFRI socket	Switch
Fyrtur	Roller shutters/awnings

Note: To use the YOUVI Tradfri Bridge you need an IKEA Tradfri Gateway.

Tip: Once created in YOUVI, IKEA devices are not only available in the visualisation, but also in the Logic module and in the YOUVI Mobile App.

Setting up IKEA Tradfri units

Use the supplied documentation to set up the desired IKEA Tradfri appliances.

Installation

You can find more information about the installation <u>here.</u>

Preparation

- Select the "Connect" button.
- Enter the IP address of the Tradfri Gateway. You can find this, for example, when you log into your Fritzbox under Home Network > Network.

Entry)		FRITZ!Box 7490			
CIGA Las.					
 Übersicht Internet 		Diese FRITZIBox ist Teil des Heimnetz	letzwerkeinstellungen es einer anderen FRITZIBox (eines anderen Routers). V n FRITZIBox (des Routers) zu gelangen.	/enn Sie eine Übersicht der Netzwerkverbindungen	und des Heimnetzes sehen und Einstellunge
	^	Name 🗘 Diese FRITZIBox	Verbindung 🗘	IP-Adresse 🗘	Eigenschaften 🗘
Mesh Netzwerk		R PEAKnx-Demo-Fritz Aktive Verbindungen	💌 DSL , deaktiviert	10.2.42.245	WLAN 2,4 / 5 GHz
USB / Speicher Mediaserver		 TRADFRI-Gateway-d44da43a1c0 PC-10-2-42-1 	1 AN 3 mit 100 Mbit/s	10.2.42.23	
FRITZIBox-Name		 PC-10-2-42-43 	LAN 2 mit 1 Gbit/s	10.2.42.43	
 Diagnose System 		● PC-10-2-42-63	🛃 LAN 2 mit 1 Gbit/s	10.2.42.63	
Assistenten		 mx10-20-210-90 Sonos-7828CA162C1C 	LAN 2 mit 1 Gbit/s	10.2.42.89	2,4 GHz, 54 / 24 Mbit/s
		 Sonos-7828CA162CIC Sonos-7828CA1602EE 	≈ WLAN	10.2.42.136	2,4 GHz, 54 / 24 Mbit/s

- Enter the security code that you will find on the bottom of the gateway.
- If the connection has been established successfully, the status "Connected" is displayed:



Tradfri

Status: Connected

Device import

- Select the "Discover devices" button.
- A window will appear listing all devices found in IKEA.
- Use the checkmarks to select which devices to import into the Visualisation.
- With a click on the element, further properties can be set:

	Discovered devices
Shutter: left shutter	
Device ID:	65547
Name:	left shutter
lcon:	Shutter 🗸
Room:	living room 🗸
Group addresses	\bigtriangledown
Up Down Write Address:	1/2/6
Step Write Address:	1/0/6
Position Write Address:	1/1/6
Shutter: right shutter living room	
Device ID:	65552
Name:	right shutter
lcon:	Shutter 🗸
Room:	living room 🗸
Group addresses	\bigtriangledown
Up Down Write Address:	1/2/7
Step Write Address:	1/0/7
Deselect all devices	Cancel Create devices

 If desired, change the name of the widget, the icon and the room in which the widget should appear in the visualisation.



- Below the device properties the element "Group addresses" is shown. If you want to send Tradfri device values over the KNX bus, e.g. to integrate them into a KNX push button, insert the desired group addresses here.
- Select the "Create devices" button.
- In the "Devices" drop-down menu, the devices can be viewed again, edited or deleted:

	Connected YOUVI: YOUVI	KNX Status: Connected	Network Stat Connected	us:	
ieneral					
General	Tradfri				
Dashboard	Status: Connected		Disconnect	Disconnect	
Projects			Discover devic	es	
Email					
Icons			Create Device	2	
Clients	Devices:		right shutter	`	
Updates	Device Type:		Shutter		
NX	Device ID:		65552		
odules	Name:		right shutter		
ridges	lcon:		Shutter		
Trivum	Room:		living room		
Ntuity			lingroom		
Yeelight	Group addresses			\bigtriangledown	
Netatmo Sonos	Up Down Write Address:		1/2/6		
Tradfri	Step Write Address:		1/0/6		
	Position Write Address:		1/1/6		

- Now switch to the Visualisation via the *Dashboard* page.
- Switch on the Edit mode.
- Switch to the room overview. You will find the imported devices in the previously selected rooms.
- If desired, add the devices to the dashboard and expand or collapse the tiles.

9.3 neoom

The YOUVI Bridge to neoom allows you to always see core parameters of the Internet of Energy platform in your Visualisation.

The energy monitoring widget for neoom integrates the following variables:

Power fed into the grid



- Power taken from the grid
- Power supplied by yourself (e.g. via photovoltaics)
- Vehicle, current charging process
- House battery, fed-in/taken-out power
- House battery, charging status
- Total consumption
- Self-sufficiency

Installation

You can find more information about the installation <u>here.</u>

Preparation

- Select the "Connect" button. A window opens.
- Enter the API key and your location ID here.
- If the connection was established successfully, the status shows "Connected".

Ntuity

Status: Connected

Device import

- Select the "Discover devices" button.
- A window appears in which the energy management found is shown.
- Select the element to set further parameters.

D	iscovered devices	
Energy Monitoring: Energy Monitoring		\checkmark
Name:	Energy Monitoring	
con:	(i) Info	~
Room:	Showroom	~
Group addresses		\bigtriangledown
Feedback address, power taken from the grid	d (kW):	
10/1/1		
Feedback address, power generated in-hous	e (kW):	
10/1/2		
Feedback address, car, current charging bate	ch (kW):	
10/1/3		
Feedback address, car, last charge (kW):		
10/1/4		
Feedback address, in-house battery, chargin	g status (%):	
10/1/5		
Feedback address, in-house battery, charge	(kW):	
10/1/6		
Feedback address, in-house consumption (k	W):	
10/1/7		
Feedback address, self sufficiency (%):		
10/1/8		
Feedback address, boiler, consumption (kW)	:	
10/1/9		
Deselect all devices	Cance	el Create devices

- Assign a name for the widget, select the appropriate room and another icon if needed.
- Below the device properties the element "Group addresses" is shown. If you want to send neoom values over the KNX bus, insert the desired group addresses here.
- Select the "Create devices" button.
- The widget is created in the previously selected room in the Visualisation.
- Open the Visualisation and switch on the edit mode.
- By selecting the Dashboard icon you add the widget to the Dashboard.

The widget visualizes the variables of the energy management from neoom in an animated graphic:



Integration of further sensors

Furthermore, up to 5 sensors can be displayed in the lower part of the widget.

- To do this, switch to the edit mode of the Visualisation and click on the gearwheel on the tile.
- Select the wrench \mathcal{V} to make
 - to make a sensor selection.
- Confirm your selection by selecting the check mark at the bottom right.



9.4 Netatmo

With this bridge, various Netatmo devices are integrated into the YOUVI visualisation. The values measured by the Netatmo devices – but also defined setpoints of the thermostats – are displayed and operated in YOUVI in the usual widgets:

Netatmo device	Device type in YOUVI	
Smart Thermostat, Smart Radiator Valve	Heating	
Smart Weather station, outdoor module	Sensor: Humidity, temperature, pressure	
Smart Weather station, indoor module	Sensor: Humidity, temperature, noise, CO2	
Smart Anemometer	Sensor: Wind direction, wind speed	
Smart Rain Gauge	Sensor: Rain Gauge	
Anemometer/outdoor module	Weather station (contains values for wind direction and speed, temperature and humidity)	



Note: Once created in YOUVI, Netatmo devices are not only available in the visualisation, but also in the Logic module and in the YOUVI Mobile App.

Setting up Netatmo units

• Use the supplied documentation to set up the desired Netatmo appliances.

Installation

You can find more information about the installation <u>here.</u>

Preparation

- Select the "Connect" button. The Netatmo page opens.
- Log in with your Netatmo account. In the next step, give YOUVI the appropriate permissions.
- If the connection has been established successfully, the status "Connected" is displayed:

Netatmo

Status: Connected

Device import

- Select the "Discover devices" button.
- A window will appear listing all devices found in Netatmo:

Discovered devices		
Temperature Sensor: Temperature Innenraum		
CO2 Sensor: CO2 Innenraum		
Humidity Sensor: Humidity Innenraum		
Noise Sensor: Noise Innenraum		
Pressure Sensor: Pressure Innenraum		
Temperature Sensor: Temperature Aussenraum		
Humidity Sensor: Humidity Aussenraum		
Weather Station: Weather Station Aussenraum		
Wind Direction Sensor: Wind Windmesser		
Wind Speed Sensor: WindSpeed Windmesser		
Thermostat: TemperatureControl EG Wohnzimmer		
Thermostat: TemperatureControl EG Eingang		
Thermostat: TemperatureControl OG 1 Bad		
Thermostat: TemperatureControl OG 1 Schlafzimmer		
Thermostat: TemperatureControl OG 1 Kinderzimmer		
Thermostat: TemperatureControl OG 2 Bad		
Thermostat: TemperatureControl OG 2 Arbeitszimmer		
Deselect all devices	Cancel	Create devices

- If you have an outdoor weather station, make sure your location is stored on the *General* page to fill in the 3-day forecast in the widget. Otherwise, an error will be displayed when importing the weather station.
- Use the checkmarks to select which devices to import into the Visualisation.
- With a click on the element, further properties can be set:
| Discover | ed devices | | |
|---------------------------|-------------------|--------|--------------------|
| Dimmer: Dimmer Floor lamp | | | \checkmark |
| IP Address: | 10.2.42.46 | | |
| Name: | Dimmer Floor lamp |) | |
| lcon: | 🛞 Dimming | | ~ |
| Room: | living room | | ~ |
| Group addresses | | | \bigtriangledown |
| Switch Write Address: | 0/0/15 | | |
| Brightness Write Address: | 0/3/15 | | |
| | | | |
| Deselect all devices | | Cancel | Create devices |

- If desired, change the name of the widget, the icon and the room in which the widget should appear in the visualisation.
- Below the device properties the element "Group addresses" is shown. If you want to send Netatmo device values over the KNX bus, e.g. to integrate them into a KNX push button, insert the desired group addresses here.
- Select the "Create devices" button.
- In the "Devices" drop-down menu, the devices can be viewed again, edited or deleted:

Configuratio				1
	Connected YOUVI: YOUVI	KNX Status: Connected	Network Status: Connected	
General	Netatmo			
General				
Dashboard	Status: Connected		Disconnect	
Projects Email			Discover devices	
lcons			Create Device	
Clients	Devices:		Temperature living room	~
Updates	Device Type:		Temperature Sensor	~
KNX	Module name (Netatmo)	:	Indoor module	
Modules	Name:		Temperature living room	
Bridges	Icon:		『) Temperature sensor	~
Trivum	Room:		living room	~
Ntuity				
Yeelight Netatmo	Group addresses			\bigtriangledown
Sonos	Feedback Address:		2/4/4	
Tradfri				_
More				
nore				
			Remove Device	Save Device

- Now switch to the Visualisation via the *Dashboard* page.
- Switch on the Edit mode.
- Switch to the room overview. You will find the imported devices in the previously selected rooms.
- If desired, add the devices to the dashboard and expand or collapse the tiles.

Quick tutorials

In addition to the automatic import, it is also possible to create devices manually:

- <u>Creating a weather station widget</u>
- <u>Creating a heating widget</u>
- Creating a sensor widget

Creating a weather station widget

- Select "Create Device".
- Fill in the fields as follows:
 - **Device type:** "Weather station".
 - Weather station name (Netatmo): Enter the name of the Netatmo weather station, see picture.



• Wind station name (Netatmo): Enter the name of a Netatmo anemometer, if available, see picture.

Darr	nstadt	
	Meereshöhe	124 m
	Innenraum	ę
	Aussenraum	D
T	Niederschlagsmesser	🔲 🖬 🔲
묩	Windmesser	🔲 atl

- **City*:** Enter the city where the weather station is located.
- Wind speed unit: Select the preferred unit.
- **Device name:** Set the widget name for the YOUVI visualisation.
- **Device icon:** Select a preferred icon for the widget.
- **Room:** Set where in the YOUVI visualisation the widget will be placed.
- Select "Save device".

*From this location data, the 3-day forecast in the weather station widget is pulled. Missing data, such as wind speed if the user does not have an anemometer, is also completed.

General			
KNX	Netatmo		
Bridges	Status: Connected	Connect	
Netatmo		Create Device	
More	Devices:	Weather station Netatmo	
	Device Type:	Weather Station 🗸	
	Weather station name (Netatmo):	Aussenraum	
	Wind station name (Netatmo):	Windmesser	
	City:	Darmstadt	
	Wind speed unit:	km/h 🗸	
	Device name:	Weather station Netatmo	
	Device icon:	$\stackrel{\nu \uparrow \diamond}{\subseteq}$ WeatherStation \checkmark	
	Room:	Garden 🗸	
		Remove Device Save Device	



Creating a heating widget

- Select "Create Device".
- Fill in the fields as follows:
 - Device type: "Thermostat".
 - **Room name (Netatmo):** Enter the room in which the Netatmo thermostat is located, see picture.

	EG Eingang
19°	a =

- **Device name:** Set the widget name for the YOUVI visualisation.
- **Device icon:** Select a preferred icon for the widget.
- **Room:** Set where in the YOUVI visualisation the widget will be placed.
- Select "Save device".

(NX	Netatmo	
ridges	Status: Connected	Connect
Netatmo		Create Device
lore	Devices:	Heating Entrance ~
	Device Type:	Thermostat ~
	Room name (Netatmo):	EG Eingang
	Device name:	Heating Entrance
	Device icon:	Heating
	Room:	Entrance

Creating a sensor widget

- Select "Create Device".
- Fill in the fields as follows:



- Device type: "...sensor".
- Module name (Netatmo): Enter the name of the Netatmo station, that includes the desired sensor, see picture.

Darmstadt	
A Meereshöhe	124 m
Innenraum	(0
Aussenraum	🕒 atil
T Niederschlagsmesser	
🔄 Windmesser	

- Device Name: Set the widget name for the YOUVI visualisation.
- **Device icon:** Select a preferred icon for the widget.
- Room: Set where in the YOUVI visualisation the widget will be placed.
- Select "Save device".

General		
KNX	Netatmo	
Bridges	Status: Connected	Connect
Netatmo		Create Device
More	Devices:	CO2 Sensor Netatmo
	Device Type:	CO2 Sensor 🗸
	Module name (Netatmo):	Innenraum
	Device name:	CO2 Sensor Netatmo
	Device icon:	CO2Sensor ✓
	Room:	Office 🗸
		Remove Device Save Device

9.5 Philips Hue

With this bridge, various Philips Hue devices are integrated into the YOUVI visualisation. The smart lights are displayed and operated in YOUVI in the common widgets:

Philips Hue device	Device type in YOUVI
Light	RGB light, dimmer, dimmer with Tunable White support
Smart socket	Light/switch
Motion sensor	Binary sensor, brightness sensor, temperature sensor

Note: The YOUVI Hue Bridge only works along with with a Philips Hue Bridge.

Tip: Once created in YOUVI, Philips Hue devices are not only available in the visualisation, but also in the Logic module and in the YOUVI Mobile App.

Setting up Philips Hue devices

• Use the supplied documentation to set up the desired Philips Hue devices.

Note: Make sure that the Hue app can access the local network to find the Hue Bridge on the network.

First, set up devices in the Hue app and then return to YOUVI.

Installation

• You can find more information about the installation here.

Connecting to the Hue Bridge

- You are on the YOUVI Configuration page "Philips Hue".
- Select the "Connect" button. A window opens.
- Enter the IP address of the Philips Hue Bridge.
 - You can find this in the Hue App > Settings > My Hue System. Tap the info icon next to the Bridge here and scroll to the very bottom:



Press the large button on the Hue bridge and select "Okay" in the pop-up window where you
entered the IP address. You have 4 to 5 seconds between pressing the button on the bridge
and selecting "OK".

Note: These three steps must also be carried out if you have manually disconnected the bridge and want to re-establish a connection.

The status shows connected:



Philips Hue

Status: Connected

Device import

- Select the "Discover devices" button.
- A window will appear listing all discovered Philips Hue devices.
- Use the checkmarks to select which devices are to be imported into the visualisation.
- With a click on the element, further properties can be set:

	Discovered devices
Light Switch: Socket aquarium	\checkmark
Name:	Socket aquarium
Icon:	① Info 🗸
Room:	living room 🗸
Group addresses	\bigtriangledown
Switch Write Address: 10/1/1	
Switch Feedback Address: 10/2/1	
RGB Light: Floor lamp	\checkmark
Name:	Floor lamp
Icon:	RGB RGB light ~
Room:	living room 🗸
Group addresses	\bigtriangledown
Switch Write Address: 10/1/2	
Brightness Write Address: 10/2/2	
Color Write Address:	
Deselect all devices	Cancel Create devices

- If desired, change the name of the widget, the icon and the room in which the widget should appear in the visualisation.
- Below the device properties you will see the element "Group addresses". If you want to send Philips Hue device values over the KNX bus, e.g. to integrate them into a KNX push button, insert the desired group addresses here.
- Select the "Create devices" button.
- In the "Devices" drop-down menu, the devices can be viewed again, edited or deleted:

🔍 Configuration				?
	Connected YOUVI: YOUVI	KNX Status: Connected	Network Status: Connected	
General KNX	Philips Hue Status: Connected		Disconnect	_
Modules Bridges	Status, connected		Discover devices	
	Devices:		Floor lamp	~
Ntuity Philips Hue	Device Type:		RGB Light	~
More	Name:		Floor lamp	
	Icon:		RGB RGB light	~
	Room:		living room	~
	Group addresses			\bigtriangledown
	Switch Write Address:		10/1/2	
	Brightness Write Address:		10/2/2	
	Color Write Address:		10/2/3	
	Switch Feedback Address:		10/2/4	
	Brightness Feedback Addre	SS:	10/2/5	
	Color Feedback Address:		10/2/6	
			Remove Device Sa	ave Device YOUVI v4.5.2

- Now switch to the visualisation via the *Dashboard* page.
- Switch on the Edit mode.
- Switch to the room overview. You will find the imported devices in the previously selected rooms.
- If desired, add the devices to the dashboard and expand or collapse the tiles.

9.6 Sonos

You can use the sound system widgets to connect the following functions of your Sonos system:

- Sonos playlists
- Sonos favorites
- Music selection by zones



Supported functions

Player:

- Adjust volume, mute
- Play/Pause, next song, previous song
- Play mode: repeat, shuffle

Playlists and Favorites:

 Titles that you have added to your favorites or assigned to playlists in the Sonos app are selected for the player using the "Playlists" and "Favorites" tabs.

Zone widgets

Each zone is visualized by a widget in the respective room. These are imported during sound zone discovery:

	Room Kitchen Source Spotify Title Electronic soft Album Electronic mix	Player Playlists Favourites
$[\forall \forall \Rightarrow \Rightarrow (1)$		

Group-Widget

The entire Sonos system is visualized by a group widget on the dashboard, which includes all imported zones:

Electronic mix Room Kitchen	Nature Sounds Vol. 1
Jazz & Blues Room Living room	Electronic Mix Room Living room

Tapping on the respective zone opens the corresponding player in the widget. The "Back" button takes you back to the group overview:

	Zone Entrance	← Back
	Source Spotify Title No information Album No information	Player Playlists Favourites
$[\langle \rangle] \Leftrightarrow \sim \langle \langle \rangle $		

Installation

• You can find more information about the installation here.

Preparation

- Select the "Connect" button. The Sonos page opens.
- Log in to Sonos with the same username and password used to access the app/web application. In the next step, grant YOUVI the appropriate access permissions.
- If the connection was established successfully, the status shows "Connected".

Sonos	
Status:	Connected



Detect Sonos zones

- Select the "Discover devices" button.
- A window appears that lists all Sonos zones.
- Use the check marks to select which zones should be imported into the Visualisation.
- Clicking on a zone will show more properties:

Discove	ered devices		
Sound Zone: Living room			\checkmark
Name:	Living room		
Icon:	Music player		*
Room:	Living room		*
Sound Zone: Kitchen			
Name:	Kitchen		
Icon:	Music player		*
Room:	Kitchen		*
Deselect all devices		Cancel	Create devices

• Select the appropriate room and a different icon if needed.



- Select the "Create devices" button.
- The widgets will be created in the previously selected rooms of the Visualisation.
- Open the Visualisation and switch on the edit mode.
- By selecting the Dashboard icon, you can add the separate zone widgets to the dashboard.

Creating a Group widget

You create a widget with all zones as follows:

- Open the Visualisation and turn on the edit mode.
- Switch to the Dashboard page of the Visualisation.
- Select "+ Sound System" and "Sonos".
- The group widget will be created on the dashboard.

Device overview

All imported zones can be found in the "Sound Zone" drop-down menu on the Sonos page:

- Select the desired zone from the list to edit or delete it (for YOUVI).
- You can also delete zones (widgets) in the Visualisation in Settings of the widget.

Configuration					9
	Connected YOUVI: YOUVI	KNX Status: Connected		Network Status: Connected	
General KNX	Sonos Status: Connected			Connect	
Modules Bridges Sonos				Discover devices Create Device	
Netatmo Trivum	Sound Zone:		Kitchen		~
More	Name: Icon:		Kitchen	r	~
	Room:		Kitchen		~
				Remove Device	Save Device

9.7 Bluesound

You can use the sound system widgets to connect the following functions of your Bluesound system:

- Bluesound playlists
- Bluesound favorites
- Music selection by zones

Supported functions

<u>Player:</u>

- Adjust volume, mute
- Play/Pause, next song, previous song
- Play mode: repeat, shuffle

Playlists and Favorites:

 Titles that you have added to your favorites or assigned to playlists in the Bluesound app are selected for the player using the "Playlists" and "Favorites" tabs.

Zone widgets

Each zone is visualized by a widget in the respective room. These are imported during sound zone discovery:

	Room Kitchen Source Spotify Title Electronic soft Album Electronic mix	Player Playlists Favourites
[1] $[1]$ $[2]$ $[2]$ $[2]$ $[2]$		

Group-Widget

The entire Bluesound system is visualized by a group widget on the dashboard, which includes all imported zones:

	Room Kitchen	Nature Sounds	i Vol. 1 Room Living room	
Jazz & Blues	Room Living room	Electronic Mix	Room Living room	

Tapping on the respective zone opens the corresponding player in the widget. The "Back" button takes you back to the group overview:

	Zone Entrance	← Back
	Source Spotify Title No information Album No information	Player Playlists Favourites
$\forall \parallel \forall \Leftrightarrow \sim \mathbf{v}$		

Installation

• You can find more information about the installation here.

Preparation

- Select the "Connect" button. The Bluesound page opens.
- Log in to Bluesound with the same username and password used to access the app/web application. In the next step, grant YOUVI the appropriate access permissions.
- If the connection was established successfully, the status shows "Connected".



Detect Bluesound zones

- Select the "Discover devices" button.
- A window appears that lists all Bluesound zones.
- Use the check marks to select which zones should be imported into the Visualisation.
- Clicking on a zone will show more properties:

Discovered devices			
Sound Zone: Living room			
Name:	Living room		
Icon:	Music player		
Room:	Living room 🗸		
Sound Zone: Kitchen			
Name:	Kitchen		
lcon:	Music player		
Room:	Kitchen 🗸		
Deselect all devices	Cancel Create devices		

- Select the appropriate room and a different icon if needed.
- Select the "Create devices" button.
- The widgets will be created in the previously selected rooms of the Visualisation.
- Open the Visualisation and switch on the edit mode.
- By selecting the Dashboard icon, you can add the separate zone widgets to the dashboard.

Creating a Group widget

You create a widget with all zones as follows:



- Open the Visualisation and turn on the edit mode.
- Switch to the Dashboard page of the Visualisation.
- Select "+ Sound System" and "Bluesound".
- The group widget will be created on the dashboard.

Device overview

All imported zones can be found in the "Sound Zone" drop-down menu on the Bluesound page:

- Select the desired zone from the list to edit or delete it (for YOUVI).
- You can also delete zones (widgets) in the Visualisation in Settings of the widget.

🔍 Configuratio	on		?
	Connected YOUVI: YOUVI ControlPro	KNX Status: Connected	Network Status: Connected
General General	Bluesound		
Dashboard	Status: Connected		Disconnect
Projects			Discover devices
Email	Sound Zone:		PULSE MINI 2i
lcons			
Clients	Device Type:		Sound Zone
Updates	lcon:		Music player
KNX	Room:		Wohnzimmer
Modules			
Intercoms			
Bridges			
Trivum			
Bluesound			
Sonos			
More			
			Remove Device Save Device

9.8 Trivum

You can use the sound system widgets to connect the following functions of your trivum system:

trivum playlists



- trivum favorites
- Music selection by zones

Supported functions

Player:

- Adjust volume, mute
- Play/Pause, next song, previous song
- Play mode: repeat, shuffle

Playlists and Favorites:

 Titles that you have added to your favorites or assigned to playlists in the trivum app are selected for the player using the "Playlists" and "Favorites" tabs.

Zone widgets

Each zone is visualized by a widget in the respective room. These are imported during sound zone discovery:



Group-Widget

The entire trivum system is visualized by a group widget on the dashboard, which includes all imported zones:

	Room Kitchen	Nature Sounds	Vol. 1 Room Living room	
and the second se	Room Living room	Electronic Mix	Room Living room	

Tapping on the respective zone opens the corresponding player in the widget. The "Back" button takes you back to the group overview:

	Zone Entrance	← Back
	Source Spotify Title No information Album No information	Player Playlists Favourites
$[\forall \parallel \forall \Rightarrow \Rightarrow \texttt{a})$		

Installation

• You can find more information about the installation here.

Preparation

- Select the "Connect" button.
- Enter the IP address of the trivum application.
- If the connection was established successfully, the status shows "Connected".

Trivum

Status: Connected



Detect trivum zones

- Select the "Discover devices" button.
- A window appears that lists all trivum zones.
- Use the check marks to select which zones should be imported into the Visualisation.
- Clicking on a zone will show more properties:

Discove	ered devices	
Sound Zone: Living room		
Name:	Living room	
Icon:	Music player	*
Room:	Living room	*
Sound Zone: Kitchen		\checkmark
Name:	Kitchen	
Icon:	Music player	*
Room:	Kitchen	*
Deselect all devices	Cancel	Create devices

• Select the appropriate room and a different icon if needed.



- Select the "Create devices" button.
- The widgets will be created in the previously selected rooms of the Visualisation.
- Open the Visualisation and switch on the edit mode.
- By selecting the Dashboard icon, you can add the separate zone widgets to the dashboard.

Creating a Group widget

You create a widget with all zones as follows:

- Open the Visualisation and turn on the edit mode.
- Switch to the Dashboard page of the Visualisation.
- Select "+ Sound System" and "trivum".
- The group widget will be created on the dashboard.

Device overview

All imported zones can be found in the "Sound Zone" drop-down menu on the trivum page:

- Select the desired zone from the list to edit or delete it (for YOUVI).
- You can also delete zones (widgets) in the Visualisation in Settings of the widget.

Configuration					?
	Connected YOUVI: YOUVI	KNX Status: Connected		Vetwork Status: Connected	
General KNX	Trivum Status: Connected			Connect	
Modules Bridges Sonos				iscover devices Create Device	
Netatmo	Sound Zone:		Kitchen		~
Trivum	Name: Icon:		Kitchen		~
	Room:		Kitchen		~
				Remove Device	Save Device

9.9 Yeelight

With this bridge, various Yeelights are integrated into the YOUVI visualisation. The smart lights are displayed and operated in YOUVI in the common widgets:

- Lights
- Dimmers
- RGB(W)-lights

Note: No separate registration is necessary for using the Yeelights. As soon as a Yeelight is found in the network, it is displayed during device import ("Detect devices" button).

Tip: Once created in YOUVI, Yeelight devices are not only available in the visualisation, but also in the Logic module and in the YOUVI Mobile App.

Setting up Yeelights

• Use the supplied documentation to set up the desired Yeelights.

Note: Make sure to use the exact location and Bluetooth in the Yeelight app so that the app can log into the network and connect to the Yeelights.

- Turn on LAN control for the lights so they can be found by YOUVI.
- First set up devices in the app and then return to YOUVI.

Installation

• You can find more information about the installation here.

Device import

- Select the "Discover devices" button.
- A window will appear listing all devices found in the network.
- Use the checkmarks to select which devices are to be imported into the visualisation.
- With a click on the element, further properties can be set:

	Discovered devices	
Dimmer: Dimmer Floor lamp		\checkmark
P Address:	10.2.42.46	
Name:	Dimmer Floor lamp	
lcon:	🛞 Dimming	~
Room:	living room	~
Group addresses		\bigtriangledown
Switch Write Address:	0/0/15	
Brightness Write Address:	0/3/15	
Deselect all devices	Cancel	Create devices

- If desired, change the name of the widget, the icon and the room in which the widget should appear in the visualisation.
- Below the device properties you will see the element "Group addresses". If you want to send Yeelight device values over the KNX bus, e.g. to integrate them into a KNX push button, insert the desired group addresses here.
- Select the "Create devices" button.
- In the "Devices" drop-down menu, the devices can be viewed again, edited or deleted:

🔍 Configuratio	n			?
	Connected YOUVI: YOUVI	KNX Status: Connected	Network Status: Connected	
General	Yeelight			
Dashboard	Status: Connected		Disconnect	1
Projects			Discover devices	1
Email				ł
Icons			Create Device	1
Clients	Devices:		Dimmer Floor lamp 🗸	J
Updates	Device Type:		Light Dimming 🗸	
KNX	IP Address:		10.2.42.46	
Modules	Name:		Dimmer Floor lamp	
Bridges	lcon:		Dimming Y	
Yeelight				
Netatmo	Room:		living room 🗸	
Sonos	Group addresses		\bigtriangledown	
Tradfri	Switch Write Address:		0/0/15	
Ntuity Trivum				
mvum	Brightness Write Addres	s:	0/3/15	
More				
			Remove Device Save Device	1

- Now switch to the Visualisation via the *Dashboard* page.
- Switch on the Edit mode.
- Switch to the room overview. You will find the imported devices in the previously selected rooms.
- If desired, add the devices to the dashboard and expand or collapse the tiles.



10 YOUVI Configuration

YOUVI Configuration is used to configure the YOUVI server.

Tip: You can access the configuration app via your PC by entering the <u>IP address of the YOUVI</u> <u>server</u> and the port "31228" in your browser, e.g. 10.2.42.116:31228. Make sure that the YOUVI server and your PC are in the same network.

Functional scope

<u>General > General</u>

- Rename YOUVI Server
- Change language
- Select network connection
- Edit location for logic module and weather station
- Create/restore a server back-up

General > Dashboard

Access and install YOUVI modules, bridges, Visualisation and bus monitor

<u>General > Projects</u>

- Upload, update, rename and delete ETS projects
- Access to the YOUVI Project Editor

<u>General > E-mail</u>

Configure SMTP server for sending e-mails from the logic module

<u>General > Icons</u>

Manage icon library

<u>General > Images</u>

Manage wallpaper library

<u>General > Clients</u>

 Overview of connected clients, rename clients, status of the client (online/offline), access to ambient light and sensors of the client (Controlmicro)



General > User administration

User administration

<u>General > Updates</u>

Overview of the current version and update function

KNX > KNX connection

- Establishing or disconnecting a KNX connection
- Send time and date to the KNX bus

KNX > KNXnet/IP router

• Configure the integrated IP router, switch it on and off.

Modules

- Connect: Alexa voice control, app access outside of own WLAN
- Camera: IP cameras and streams for YOUVI Visu
- Logic: creation of if-then routines
- Door intercom: Integration of a SIP door intercom system

Bridges

- <u>Netatmo:</u> integration of Netatmo weather stations, thermostats and sensors for air quality and room comfort
- Sonos: Integration of a Sonos sound system
- Bluesound: Integration of a Bluesound sound system
- trivum: Integration of a trivum sound system
- Ikea Tradfri: Integration of Tradfri dimmers and blinds
- neoom: Integration of the Internet-of-Energy-Platform neoom

More > License

View or activate running licenses

More > Services

View and restart YOUVI services

More > About

Change user status



10.1 General

General settings for YOUVI are made in this tab:

- YOUVI Server Name
- YOUVI Backup
- Language: English, German, French
- Network Adapters
- Location

Name of the YOUVI Server

Assign a name to the YOUVI Server.

This name is displayed in YOUVI Configuration, the server selection and in the Visualisation in the list of YOUVI servers.

💼 Configura	ation	Ω		
	Connected YOUVI: KNX Status: Network Status:	1	Settings	Connection Settings
	Connected Connected Connected		Connection Settings	YOUVI on CONTROLPRO-3216 10.11.12.72
General			YOUVI Settings	YOUVI Lu on PEAKNX-HAS
General Dashboard	Name of the YOUVI Server: YOUVI C12 Demo	Ĝ	Eurther Information	YOUVI on PEAKNX-HAS
Projects	Choose Language: English		Activate cleaning mode	YOUVI on PNX-WS-CP-02
Email	Choose YOUVI:	8	YOUVI Help	YOUVI C12 Demo on PNX-C12-DEMO01 10.11.12.69 YOUVI on PNX-WS-AZUBI-02
	Connected YOUV/: KNK Status: Network Status: YOUVI C12 Demo Connected Connected			10.11.12.85 YOUVI on PNX-WS-AH-01
	10.11.12.69 YOUW C12 Demo on PNX-C12-DEM001 ~	Ø		10.11.12.65
	10.11.12.72 YOUVI on CONTROLPRO-3216			
	10.11.12.85 YOUVI on PNX-WS-AZUBI-02			
	10.11.12.65 YOUVI on PNX-WS-AH-01		Edit mode	
	10.11.12.79 YOUVI on PEAKNX-HAS		The Edit mode is used to set up the visualization. Deactivate the edit mode	
	Open 100/II Dashboerd when closing the window O Close	0	for normal use.	+ 0 ~

For more information about the YOUVI server and client, click here.

YOUVI Backup

Creating a YOUVI backup

In this backup, the entire YOUVI project and all additional settings made in YOUVI Configuration are saved.

Note: The representation of the project in the Visualisation of the respective client, such as the set up dashboard, must be <u>saved separately in the Visualisation</u>.



Restore a YOUVI backup

Note: To restore the add-ons, they must be installed before restoring the back-up.

If a created backup is restored, all information from the YOUVI project and settings made in YOUVI Configuration are restored from this backup.

You can find more about the backup <u>here.</u>

Network adapters

If the YOUVI server is connected to several networks, you can select here in which network YOUVI should be found.

Location

For the astro function (times for sunrise and sunset) of the logic module and the 3-day forecast of the weather station widget a location is entered here.

10.2 Dashboard

YOUVI Dashboard provides access to all YOUVI components. In addition to the add-ons, i.e. modules and bridges, the <u>YOUVI Bus Monitor</u> and the <u>visualisation</u> can be accessed from here.

How do I reach YOUVI Dashboard?

You can access YOUVI Dashboard/Configuration in different ways, depending on whether you are on the server (panel) or not:

Access from the server panel

a) Right click on the house in the taskbar and select "Open YOUVI Dashboard":



b) Use the desktop link from YOUVI (Green House) labelled "PEAKnx System Configuration".

Access via the browser

• Enter <server IP>:31228 in the browser to get to the server configuration menu:

$\leftarrow \rightarrow$ C \bigtriangleup O $\&$ = o	10.11.12.58:31228/#/dashboard	文 _A 110%		മ ≡
Configuration	10.11.12.58:3122	28)		?
	Connected YOUVI: YOUVI C12 Demo	KNX Status: Connected	Network Status: Connected	
General General				

Note: Depending on the available ports, access to YOUVI Configuration may vary. By default, port 31228 is used.

When you open YOUVI Configuration via the desktop shortcut on the panel, you can see the port used there. The IP address is shown in the <u>server overview</u>.

Installing a YOUVI Add-On

- Open the *Dashboard* page of the desired YOUVI server, see the <u>previous chapter</u> for more information.
- Select the house of the desired add-on to install it. Confirm the message.
- Under More > Licence you can view the remaining days of your trial licence.
- For unlimited use, please purchase the add-on in the PEAKnx Shop.
- Return to the *Dashboard* page. Select the house of the add-on to open it:

	Connected YOUVI: YOUVI C12 Demo		Status: nected	Network Connect	
eneral General		5		24.	BR
Dashboard Projects	Bus Monitor	Camera	Door Intercom	Connect	Visualization
Email	-	Netosmo	SONOS	trivum	N
Images	Logic	Netatmo	Sonos	trivum	Ntuity
Clients User Management	INCER	502	hue	Э	A
Updates	Tradfri	Yeelight	Philips Hue	Bluesound	Install Airzone
NX					
Iodules					
Cameras					
Intercoms Connect					
ridges					
lore					

10.3 Projects

The KNX project is managed on this page.

Note: To use the visualisation, it is mandatory to upload a KNX project on this page. Read the section <u>Tips for your ETS project</u> before uploading the project!

You have the following options on the page:

- Upload projects
- Update projects
- Switch between projects
- Rename projects
- Delete projects

Attention: In the uploaded project, <u>all settings and changes concerning connected devices of the</u> <u>Smart Home</u> are saved! It is therefore always recommended to make a <u>backup</u> after the first commissioning and configuration. Use the <u>update function</u> when making changes to the ETS project.

Click on the Upload button to upload a project.

Note: If you do not want to update a project but import it as a new project: Open your ETS. Right-click on the project in the ETS overview and select "Copy" or "Duplicate" select "As new project". Now the project can be imported into YOUVI as another project.

Parsing option:

 During the upload, you will be asked whether you want to allow parsing. With the parsing function, the building structure and devices are automatically parsed from the ETS project and visible in the Visualisation. If you only want to import group addresses, switch off this parsing function. For example, if you want to import the project again and do not want to overwrite any changes in the project status.

Update projects

- Leave the old project in the overview!
- Upload the new project.
- During the update you will be asked if you want to allow parsing. If you only want to import group addresses, uncheck "Enable device parsing", If you want to parse devices (automatically create them from the group addresses), please note the points in the following section.
- You will be asked whether you want to update the project.
- Agree to this.

How are changes applied during the project update with parsing?

- All changes of the ETS project are added to YOUVI.
- Devices that have been deleted once in YOUVI are not imported again from the ETS project.
- If changes were made to a device both in the ETS project and in YOUVI, the changes of the ETS project are prioritised.

Rename projects

 Change the project name under Project Name. Make sure that no special characters are used in the name of the project.

Delete projects

Click on the minus button ____ nex

next to the project to delete it.

Attention: If you delete the project, all settings from modules and bridges as well as all contents of the Visualisation will be deleted!

What does YOUVI save in the project?

- Devices (names, type, icon, measuring units, status displays, room assignments, etc.)*
- Building structure (new rooms/buildings/floors, as well as naming)*
- Group addresses*
- Physical addresses (internal use)*
- All data of your modules
- All data of your bridges
- Selection of the filter table of the IP router
- Changes you have made in the visualisation to devices, building structure and group addresses or new functions created in the visualisation (group functions, scenes, timers).
- * These points are updated after a change in the ETS project.

What is not saved in the project?

General settings such as:

- Name of the YOUVI server, location, language
- Icon repository
- Email server
- KNX connection
- Physical and multicast address of the IP router

First steps

- To visualise a project, select it. It will then be highlighted in blue.
- Then open the visualisation. The project (building structure and devices) is shown in the visualisation.

10.4 KNX connection

In this menu item all KNX interfaces discovered by YOUVI are listed. Note that YOUVI Configuration only shows USB-Connectors from PEAKnx. To connect to the KNX network, select the desired interface and press **Connect**.

Note: YOUVI cannot be used with USB connectors or IP routers from third-party manufacturer.

- The PEAKnx USB-Connector is a KNX-to-USB adapter with which Windows devices, such as laptops, panels and tablets, can be connected to a KNX network. When the KNX network is accessed from a Windows device via the USB-Connector, the connector is displayed on this page and can be selected to connect to the KNX network.
- In the case of the Control 12 (-mini) and the Controlpro, Gen 2., a USB interface is integrated and is displayed as "PEAKnx USB-Connector". Because of the two KNX connections, two interfaces are also listed. If the KNX connection fails, try to connect with the other interface.

Refresh

The refresh button Utriggers a manual search for changed KNX-Interfaces.

Send time and date to KNX bus

If you want to connect KNX devices to the KNX bus that have a timer, time display or similar, you can have the current time and date sent there via the KNX bus. Simply enter the required group addresses, as defined in the ETS for the device, and the time interval in which the information is to be sent to the device.

10.5 KNXnet/IP router

The PEAKnx IP router represents a software component, which acts as a KNXnet/IP server, i. e. it connects the KNX world to the IP world. This means that the IP router can be used by any KNX enabled software (for example the YOUVI Bus Monitor or the Engineering Tool Software, ETS 5) that implements the KNXnet/IP client protocol. Further Information about the IP router and background information can be found <u>here</u>.

Tip: By importing an ETS file on the Projects page, the IP router knows which KNX group addresses are used and how they are named. This makes the routing filter usable for you.

Note: YOUVI cannot be used with USB-Connectors or IP routers from third-party manufacturer. The IP router has to be used with PEAKnx Hardware such as the USB-Connector, the Controlpro or the Control 12 (-mini).
Physical address

The physical address is used as source address for all telegrams that are sent from YOUVI to the bus. For example, it is used as the source address when sending telegrams via the YOUVI Bus Monitor . The physical address can be changed manually to uniquely identify telegrams sent by YOUVI. The default physical address assigned to the IP router is 15.15.0.

Switching the IP router on and off

If there are several YOUVI servers in your network, you can switch off the IP router here to avoid circulating messages.

Multicast address and IP routing

The main purpose of the routing interface is to enable KNXnet/IP clients to connect to a KNX network using a routing interface. The second way to use the IP router is to connect different KNX networks and share telegrams over the IP network. Thereby the user has the possibility to forward data of several KNX networks through an IP network.

Note: If you want to operate more than one KNX-IP router in a KNX network, the multicast address must be different. If they both communicate over the same multicast address, this will result in a circulating message.

Structure of an IP routing multicast address

An IPv4 multicast address consists of 4 bytes, each in a certain digit range. The allowed digit ranges of each address section is given in the following table:

Structure	Byte 1	Byte 2	Byte 3	Byte 4
Digit range	224-239	0-255	0-255	0-255

KNX telegram filter

On this page all the group addresses of the KNX project are shown in a directory style. By importing the ETS project the IP router knows all the used group addresses, the address style and names and shows them in the categories *Incoming* and *Outgoing*. By selecting the small boxes you can select or deselect different group addresses and that way filter them. By setting this up, the chosen group address will (check mark set) or will not (blank box) be transmitted for the chosen direction (Incoming or Outgoing). To use the filter effectively the group address names in the ETS should be precise and understandable.

Incoming

The **Incoming** tab shows all the telegrams coming from the IP network (Computer, Smartphone etc.) and being sent to the KNX network in a directory style.

Outgoing

The **Outgoing** tab shows all telegrams that are sent from the KNX network to the IP network in a directory style.

√	Checkmark: The address/address range will be transmitted.
	Blank Box: The address/address range will NOT be transmitted.
	Blue Box: A part of this address range is transmitted. For more detail, you need to expand that branch of the directory.

Depiction of group addresses

After importing the ETS file, the different addresses will be displayed depending on the group address style used in the ETS. This can be a 2-level, 3-level or free group address style. If the ETS-file is created by using the Project Wizard, the 3-level configuration is used.

10.5.1 Functionality of the IP router

The KNX specification classifies the PEAKnx IP router as a class B KNXnet/IP device. This means that the IP router supports the following service types:

Core function of a KNXnet/IP router

The IP router supports discovery and self-description features

Device management

Device management features

Routing and tunneling

- KNXnet/IP Tunneling and KNXnet/IP-Routing
- KNXnet/IP Tunneling: up to 15 simultaneous connections
- KNXnet/IP Routing: communication between KNX lines and areas

Filter function

Filter and forward incoming and outgoing telegrams depending on group addresses

Supported protocols:

- IGMP
- UDP/IP
- TCP/IP



Further functions:

Supports extended frames

Background information

Connection between IP and KNX

As defined in the KNX specification, a KNXnet/IP router has to be capable to forward KNX telegrams to a local area network. Therefore, the IP router has to be installed on a device that is physically connected to the KNX network and to the local network via LAN or WLAN. The KNX connection is established by a special driver created by PEAKnx, which is integrated in YOUVI as a Windows Service. On the other hand, information has to be transmitted to other devices that are not connected to the KNX network. This is realized by using an existing IP network (LAN or WLAN), as described in the KNX specification.

IP Address and tunneling

The device receives its IP address from the local area network. This IP is used for direct contact to the PEAKnx IP router. This can either be used to connect with the ETS or via any PC client. It is a one to one connection, meaning that the receiver is only listening to one sender and vice versa.

10.6 E-mail

In order to enable e-mail transmission from the logic module, an SMTP server is to be set up first. To do this, fill in the fields as follows:

- E-mail: Enter the e-mail address from which the logic module should send the e-mails.
- Password: Enter the password for the selected e-mail account. In the case of Office 365, for example, your Microsoft password.
- SMTP server: Specify the address of the SMTP server. For Office 365 this would be: "outlook.office365.com". If you don't know this address, enter "SMTP Server *your service provider*" in a search engine to find the address.
- Port: 587
- Use SSL: Yes
- Select the "Test" button to send a test e-mail.

		?
Connected YOUVI: YOUVI	KNX Status: Connected	Network Status: Connected
Email: Password:		joe.public@provider.en
SMTP server:		outlook.office365.com
Port:		587
Use SSL:		\checkmark
		Test

Gmail

To use a Gmail account for sending e-mails, proceed as follows:

- Open the Google search engine and log in to your Google account.
- Click on the profile picture or the letter of the account in the upper right corner to open the menu.
- Select the item "Manage your Google Account" to switch to the settings:



- Select the item "Security" on the left-hand side.
- On this page, under "How you sign in to Google", select the item "2-Step Verification".

© □ G Security × +				-
← C බ 🗄 https://myaccount.google.com/sec	urity?hl=en			A 🏠 📬 🐨 📽 😩
Google Account Q Search Google Ac	count			() III Peret
Home	Review security activity (4)			
Personal info				
Data & privacy	How you sign in to Google			
Security	Make sure you can always access your Google A			
People & sharing	② 2-Step Verification	On since Oct 27, 2022	>	
Payments & subscriptions	*** Password	Last changed May 10, 2012	>	
i) About	Google prompt	2 devices	>	
	2-Step Verification phones		>	
	Recovery phone		>	
	Recovery email		>	
	You can add more sign-in options			
	🔹 Passkeys 📋 Security keys 🕃	Authenticator 🛛 🕑 Backup 2-Step Verification pho	nes 🔲 Bac	
	Your devices			
	Where you're signed in			
	7 sessions on Windows computer(s	Windows, Windows,		
	6 sessions on iPhone(s)	iPhone		
	1 session on Android device			
Privacy Terms Help About	You're signed in on more devices			

- Log in again if necessary.
- Scroll all the way down to the item "App passwords".

G Bestatigung in zwei Schritten × +			-	o ×
← C බ 🗈 https://myaccount.google.com/signinoptions/two-step-verifi	ation?rapt=AEjHL4PJJApT8fJhdXGWr7fNsrG4COh3Zzrh76t9cTKMp-K8sbWjCJsL6D35d0g8kashqxLL5KeuZDEATnMdhDkMpu9tLIAtUQastastastastastastastastastastastastasta	P A 🟠 🖆 🖷	🗞 😩 ·	··· 🜔
G <mark>oogle</mark> Konto		0	PEAC.	^ Q 2
	← Bestätigung in zwei Schritten			0
	Authenticator App Nutzen Sie die Authentifizierungs-App, um kostenios Bestätigungscodes zu erhälten. Das funktioniert auch, wenn Bie offline sind. Verfügbar für Android und iPhone.			• +
	Sicherheitsschlüssel ist eine Bestätigungsmethode, die eine sichere Armeldung ernöglicht. Sie können einen in ihr Smartphone integrierten Sicherheitsschlüssel, einen Bluntooth Sicherheitsschlüssel der einen USB- Sicherheitsschlüssel für ihren Computer verwenden.			
	Geräte, auf denen kein zweiter Schritt erforderlich ist Sie können den zweiten Schritt auf vertrauenswürdigen Geräten wie ihrem Computer überspringen.			
	Vertrauenswürdigke Geräte Vertrauenswürdigkeit aller ihrer Geräte widerrufen, bei denen die Bestätigung in zwei Schritten übersprungen wird. ALLE WIDERRUFEN			
	App-Passwörter App-Passwörter werden nicht empfohlen und sind in den meisten Fällen nicht erforderlich. Verwenden Sie zum Bessenen Schutz Ihres Kontos die Option "Über Google anmelden", um Apps mit Ihrem Google- Konto zu vebinden.			
Datenschutz Nutzungsbedingungen Hilfe Info	App-Passwörter			

- Select "Other (custom name)" from the drop-down menu (Select App) and name the app, for example, "YOUVI" and then click on "Generate".
- A new window opens with a secure password:

🕼 🔲 G App-Passwörter X 🕄 Einstellungen X +			-	ð X
← C ⋒	le-account&utm_medium=myaccountsecurity&utm_campaign=tsv-settings&rapt=AEjHL4OXH0_oltUvYxznXAkvGAN0g8-wplGhOMHjwhztCP9ruve2Oi A 🖒 🏠	œ «	8	··· 🜔
Google Konto		?	PEAG.	Q
	← App-Passwörter			6
u	Mithife von App-Passwortem können Sie sich auf Geräten, die die Bestätigung in zwei Schritten nicht unterstützen, über Apps in ihrem Googie-Konto anmelden. Sie müssen das Passwort nur einmal eingeben und es sich daher nicht merken. Weitere Informationen			3 +
	Generiertes App-Passwort			
	Image: Second			
	FERTIG			
Datenschutz Nutzungsbedingungen Hilfe Info				÷

- Use this password to log in to YOUVI Configuration > E-mail with the corresponding Gmail address.
- Enter the following data as SMTP server address and port:



- smtp.gmail.com
- **587**

Connected YOUVI: Controlpro	KNX Status: Connected	Network Status: Connected
Email: Password: SMTP server: Port:		peak-doku@gmail.com smtp.gmail.com 587
Use SSL:		✓

10.7 Icons

The Icons tab lists all icons that you can use in the Visualisation. Here you can assign the icons to categories, create categories, and add new icons.

Move Icons

Multiple icons can be moved between categories at the same time. Therefore, proceed as follows:

- Select the category to which the icons should be moved.
- Select the button "Move icons to selected category".
- Select icons to be moved from all the desired categories.
- Click on "OK".

Upload your own icons

YOUVI icons, in addition to PEAKnx touch panels, must be displayed on many different devices such as tablets or smartphones. Therefore, YOUVI cannot use fixed size icons, but only scalable vector graphics. If you want to use your own icon in the Visualisation, please note the following points:

- Format: svg
- Path color: white (#fff)
- Background: transparent

- Responsive svg: The icon must be scalable *
- Aspect ratio of the image: 1:1
- No padding: The best way to create the icon is if there is no distance between the path and the edge of the image

* This usually requires deleting the "height" and "width" information in svg. To do this, right-click on the icon and go to "Open with" Choose e.g. Code Writer, Notepad ++ or the Editor).

Unintentional filling of the icons

/ Icon wrong export	×#@	🖉 Icon right export	× == ∅
		B	

If your icon consists of lines but is displayed in the Visualisation as a filled form, please note the following export settings from Illustrator:

	SVG Opti	ions
Get multiple	e file formats in one cli	ck. (Try Export for Screens)
Styling:	Presentation Attribute	<u>15 ~</u>
Font:	SVG	*
Images:	Link	~
Object IDs:	Unique	~
Decimal:	2	
	🖾 Minify 🖾 Responsi	ive
Show Cod	e 🛛 🤇	Cancel OK

Tool suggestion for creating svg icons: <u>Vectr - Free Online Vector Graphics Editor</u> Tool suggestion for converting png to svg icons: <u>Online Converter</u> <u>Here</u> you can find an icon Template for the upload.

10.8 Images

All background images that you can use in the visualisation are listed in the images tab. Background images are either assigned to the "Room" or "Scene" category. You can also add your own background images to one of the two categories.



Upload your own images

YOUVI images can be added to either a room or a scene via "Upload image". The following file extensions are available as supported formats:

- *.jpg,
- *.jpeg
- *.png
- *.svg

To delete your own background image from the room or scene template, move the mouse pointer over the image and click on the trash icon that appears.

Only manually added images can be deleted.

All background images can be selected accordingly when editing the rooms or scenes in the YOUVI visualisation or in the project editor.

10.9 Clients

In the Clients tab you will find a list of all YOUVI clients that are in the same network and have already been connected to the YOUVI server.

Connected YOUV YOUVI C12 Demo	1: KNX Status:				
			Network Connecte		
Client Type	Client Name	Status	User	Settin	gs
	PNX-WS-ML-01	Online	user01] 🏠 '	Î
	C12DEMO	Online	None	िर्देश	Î
	PNX-WS-MG-02	Offline	None] < <u>`</u> }	
	VOG-L29	Offline	None] ,	Î
	PNX-WS-LR-02	Offline	None	े दुरे	Ê
	PNX-WS-MP-01	Offline	None		Î
	Client Type	Client Type Client Name PNX-WS-ML-01 C12DEMO PNX-WS-MG-02 VOG-L29 PNX-WS-LR-02 PNX-WS-LR-02	Client Type Client Name Status PNX-WS-ML-01 Online C12DEMO Online PNX-WS-MG-02 Offline VOG-L29 Offline PNX-WS-LR-02 Offline	Client Type Client Name Status User PNX-WS-ML-01 Online user01 C12DEMO Online None PNX-WS-MG-02 Offline None VOG-L29 Offline None PNX-WS-LR-02 Offline None	Client Type Client Name Status User Setting PNX-WS-ML-01 Online user01

The client name can be changed. The status shows whether the respective client is online.

The cogwheel takes you to the "Panel settings", behind which the sensor settings are located.

You can use the assignment under "User" to specifically grant access to a user who has been authorized in the user management.

This user can then only control or display the devices that you have approved under User management / authorizations.

10.10 User management

YOUVI can be used with or without user administration.

Note: Install the visualisation before you create the user administration.

What is user administration for?

User management is used to provide different users, such as residents or guests, with different operating options on the user interface. For example, guests can only access and view the guest room, while residents can view the entire house overview with all rooms and devices. More specialised devices, such as the error display for the ventilation system, can only be made visible to the integrator (administrator role), for example.

Create administrator (superuser): Creating the user administration

User management is activated by creating an administrator, similar to a superuser. After creation and logging in, they have full access to all configuration options of the YOUVI software. They can create administrators and users and assign them rights.

Note: Once the administrator has been created, you will have to log in to YOUVI Configuration with login data from then on. Make sure you keep them for future reference.

Note: Pass on the access data to the owner of the building when handing over the project.

Go to the General > User Management page:



🔍 Configuration					?
	Connected YOUVI: Controlpro	KNX Status: Connected		vork Status: nected	
General	Creating the user administratio	'n			
General Dashboard	Please note: Access data canno administrator (owner) below ar			s data assigned to the	
Projects	Username:		Administrator		
Email	Password:		*****		
Images	Confirm Password:		*****		
Clients				Create Administrator	
User Management					
Updates					
KNX					
More					

If you seek to create a user administration, proceed as follows:

- Enter your desired user data under "User name" and "Password" and keep them in a safe place.
- Click on "Create administrator".

This administrative user is then marked as the owner and has all authorisations in YOUVI Configuration and the visualisation.

After activation, you will be asked to enter the new admin credentials in the login dialogue:

Enter the specified user data again and click on "Login".

	Configuration	
Username admin		
Password		
••••		
		Log In

• The dashboard opens and the user administration appears in a separate tab.

Creating users

 Now switch to the User Management > Users page. Here you can create users with different access options.

Possible users are, for example, "Guest", "Child" or "Resident". Users then have access to the visualisation depending on the predefined rights. To do this, the respective user must be logged into the visualisation.

Configuration					C Logout	?
	Connected YOUVI: Controlpro	KNX Status: Connected		Network Statu Connected	s:	
General						
General	Users:	+				
Dashboard	admin	_				
Projects	guest	-				
Email	resident					
lcons						
Images			Owner			~
Updates						
KNX						
User Management						
Users						
Permissions						
Clients						

To create users, proceed as follows:

- Select the plus icon to create a new user.
- Enter a user name and password.
- Select the user role. You can choose between "<u>User</u>" and "Administrator".

The **Administrator** role not only allows you to view and control but also to edit devices within the visualisation or via the project editor in YOUVI Configuration. See also, <u>Editing devices in edit</u> <u>mode</u>.

Tip: As the owner, it is possible to create access for a service provider (integrator) by creating a user with the "Administrator" role. However, the user with the administrator role is not able to change or view the access data of the owner (superuser). This ensures that further integration

services can also be flexibly implemented by several service providers in YOUVI Configuration, the logic module or the project editor.

The user roles can still be changed at a later date.

• Use the minus icon 🔲 to remove individual users from the user administration.

Assign rights to users

Then assign the appropriate user rights for each device for each user created with the "User" role.

To do this, proceed as follows:

- Switch to the User administration > Permissions page.
- Under "Select user", select the user to whom you want to assign authorisations.
- Then expand the project to the desired rooms and enable devices for viewing and/or controlling by ticking the box:

Configuration		C Logout
	Connected YOUVI: KNX Status: Controlpro Connected	Network Status: Connected
General	Select User:	
General	guest	~
Dashboard Projects	Buildings / Devices	
Email	Permissions	View Control
lcons Images	✓ YOUVI Best practice 4-5-8_EN	
Updates	▽ Single family home	
KNX	∽ Ground floor	
User Management	ি দু⊒ি Guest room	
Users Permissions	Guest room blind	
Clients Delete User Management	🛞 Guest room TW dimmer	
More	Guest room heating setpoint shift percent	

User role and permissions



With the "View" authorisation, users can

- assign device tiles to the dashboard,
- retract or expand device tiles or
- set timers.

If the "Control" tick has been set, devices can also be controlled.

Assign users to the connected end devices

Which user is currently logged on to which end device can be viewed and customised via the Clients page.

- To do this, go to the User management > Clients page.
- Select a user profile. The selected user is now logged in in the visualisation and the corresponding authorisations are implemented.

Configuratic				
	Connected YOUVI: Controlpro	KNX Status: Connected	Network Status Connected	:
General	Client Type	Client Name	Status User	Settings
General		Controlpro	Online resident 🗸	<u>نې</u> کې
Dashboard Projects		Controlmini kitchen	Online resident V	بنه ۲
Email		Controlmicro	Online guest V	ين ال
lcons		Controlimicro	onine guest	
Images		PC	Online None 🗸	र्देहेः 🗊
Updates		iPhone14,4	Online resident 🗸	
<nx< td=""><td></td><td></td><td></td><td></td></nx<>				
Nodules				
Bridges				
Jser Management				
Users				
Permissions				

Using the visualisation

If the visualisation is opened after creating the user administration, the user assigned under *User Management* > *Clients* is already logged in. Alternatively, you can also switch between users by entering the user data directly in the visualisation, see image. This variant is used for the administrator login, for example. Devices can then also be edited.

Log into the visualisation with the desired user to view the dashboard and all shared rooms and devices or to edit them if necessary:

Ω		
	Settings	Connection Settings
	Connection Settings	10.11.12.57
	YOUVI Settings	YOUVI on PNX-WS-MG-02 10.11.12.90 Panel-UG on PNX-WS-LR-02
G	Further Information	10.11.12.117 YOUVI on PNX-WS-MP-01
	Activate cleaning mode	10.11.12.92 YOUVI on MICRO-EFTQ35HSQ
0	YOUVI Help	192.168.178.182 YOUVI C12 Demo on C12DEMO 10.11.12.58
		YOUVI on PNX-WS-PROD-02
1		
		Login information: Username
	Edit mode	User02 Password
		•••••
	The Edit mode is used to set up the visualization. Deactivate the edit mode for normal use.	Log in
0	15	+ () 🗸

Reset user management

If you want to delete the user administration again, proceed as follows:

- Go to the User Management > Reset
- Click on the "Reset user management" button.
- All users and permissions including the owner (super-user) are deleted.

10.11 Updates

Software updates are performed in YOUVI via the *Updates* page. If an update of the software is available, this is indicated via an icon on the tab. If you want to install the updates, click the "Update" button.

Note: Always carry out client updates consecutively, otherwise complications may arise in the update process.

Configuration				
	Connected YOUVI: YOUVI	KNX Status: Connected	Network Status: Connected	
General		10 mm		
General	YOUVI Software	Current Version	Available Version	
Dashboard	YOUVI	5.0.0	5.0.4 🔺	
	YOUVI Panel	5.0.0	5.0.1 🔺	
Projects	Visualization	5.0.2	5.0.2	
Email				
lcons			Update	
Images				
Clients				
Updates				

10.12 Services

Here you can see the status of the YOUVI services. Each service has different tasks he is taking care of. The most important services are the YOUVI Service Manager and the YOUVI Message Bus. Here you will find a brief explanation of each.

Furthermore, next to some services you will find the corresponding port numbers, when you select the circled **i** next to them. The different ports are used by the services for communication.

YOUVI consists of the following services:

 YOUVI service manager, YOUVI Bus Monitor, YOUVI database service, YOUVI IoTBridge service, YOUVI KNX adapter, YOUVI logic service, YOUVI Logic UI Service, YOUVI message bus, YOUVI MySQL, YOUVI Panel Service, YOUVI Plug-in Service, YOUVI REST service, YOUVI configuration service

Service manager

The Service Manager is a Windows service which is responsible for checking the status of all parts of the system. It is for example checking if other services are running without any issues. In case of a problem it can start, stop or restart the other services.

Bus monitor service

The bus monitor Service is responsible for hosting the YOUVI Bus Monitor Web application. The YOUVI Bus Monitor can be used for monitoring and debugging of the KNX network.

Database service

The Database Service's main purpose is storing telegrams into the database. It listens to the KNX traffic and stores all telegrams in the database, see MySQL.



IoTBridge service

The IoTBridge Service is designed to leverage cloud-based features, such as voice control with Alexa. The service establishes a secure connection to the associated web-based services and thus makes it possible to use compatible features of the Internet of Things or "IoT".

KNX adapter

The Service KNX Adapter enables the communication with the KNX network for YOUVI. The IP router is also part of the KNX Adapter.

Logic service

The Logic Service is responsible for advanced home automation features. For example the timer functionality is a part of the logic module service.

Logic UI Service

The Logic UI Service provides the user interface of the logic module.

Message bus

The Message Bus is the main communication channel of YOUVI. All the services are communicating with each other through the message bus.

MySQL

My SQL is a database which is used by YOUVI to store all data, like telegrams, information about imported projects, the KNX connection being used or language data.

Panel Service

This service is the heart of the YOUVI client and is essential e.g. for the function of the Visualisation and its updates. Furthermore, the service communicates with hardware components of the Controlmicro, i.e. RGB light and sensors. It is also used to generate the display of connected clients under YOUVI Configuration > *General* > *Clients*.

Plug-in Service

This service is used for communication of connected bridges, such as Netatmo.

REST service

The main purpose of the REST service is to provide an interface to YOUVI. Client applications such as the Visualisation and the YOUVI Bus Monitor can communicate with the YOUVI server through the REST service. Also they receive notification messages from the REST service via websockets.



Configuration service

The Configuration Service hosts the YOUVI Configuration Web-Application.

10.13 License

YOUVI only works with a valid license. When purchasing related PEAKnx hardware it will be included in the following way:

- If you buy a PEAKnx USB-Connector and the PEAKnx bus monitor and IP router Softwarepackage, there will be a 90-day test license for you available. A full license is available in the <u>PEAKnx web shop.</u>
- If you buy a PEAKnx USB-Connector and the YOUVI Softwarepackage, there will be a full license for you available.
- For other PEAKnx hardware, namely the Performance Server, the Control 12 (-mini), Controlmicro and the Controlpro there is a full license for YOUVI included.

Further licenses for the **YOUVI Modules**, for example for the use of Alexa or the integration of additional Webcams can be bought separately in the <u>PEAKnx web shop</u>.

Activate YOUVI modules

Note: To be able to use modules for YOUVI, you must first buy them in the PEAKnx Shop. Further information is given in this chapter.

First perform the following steps in YOUVI:

- If the desired module has not yet been installed, do it now via YOUVI Dashboard. For example, in case of the YOUVI Netatmo bridge, click on "Install Netatmo".
- Then open YOUVI Configuration > More > License and select the desired module.
- Copy the hardware key.

	Connected YOUVI: YOUVI	KNX Status: Connected	Network Status: Connected
eneral			
٩X	Camera		
odules	Logic		
	Netatmo		
idges	Type of license:	Trial license	
ore	Type of ticelise.	manicense	
icense	Trial expiration date:	8/4/2021 (90 day(s) le	ft)
Services	Hardware key:	9f3a0478e0	Сору
lbout	naraware neg.		copy
	License:		
			Activate

Then carry out the following steps in the <u>PEAKnx web shop</u>:

- Enter the copied code under "Hardware Key". A license key will be generated from it and stored in the following.
- After completing the order process and paying the invoice, you can take the license key from your customer account. In the tab "My license keys" you will find all purchased license keys.



orme > Shop > Software > YOUVI > YOUVI Netatmo Bridge		B2B Area Products ~ Shop ~	Service ∨ Company ∨ Q N	
			YOUVI Netatr	no Bridge
Wohnzimmer	1: Bûro	130 and 15 measurements 22.2 °C	r: <u>r`</u> 39.00€	IN STOC SKU#: PNX31-100
	er ander T79,0 ppm	e) boundary 36,0 dB intervention interventin interventin	The Netatmo Bridge for the <u>YOUVI softwittegration</u> of Netatmo devices directly in Thermostats as well as weather stations integrated into YOUVI. This way, users a temperature in the Smart Home. The intidisplayed in the YOUVI home control ap own home network with <u>YOUVI Connec</u> controlled automatically via timers or the Prices for systemintegrators and transmitted statements .	nto the Smart Home visualisation. s and anemometers from Netatmo can b can always monitor the weather and legrated Netatmo devices can also be op and are also available outside of your t. The Netatmo thermostats can also be a logic module
			Qty 1 Add to Cart	
			C ⁴ 30 Days Money Back 🛛 🖋 Free su	Ipport () Fast delivery

Return to YOUVI:

- Open YOUVI Configuration > More > License and make sure that the correct module/bridge is selected.
- Enter the license key under the "License" field and select "Activate".

11 Visualisation

The Visualisation is the interface for controlling a KNX Smart Home, such as dimming the lights, selecting a room temperature or setting a timer for your shutters.

The YOUVI server can either run on the same panel or on a separate device.

Further information can be found in the <u>functional scope</u> of the Visualisation.

Language settings

The language used by the Visualisation is the default language of the Windows device YOUVI Visu is running on.



11.1 Functional scope

Device types and functions supported by the Visualisation can be found in the following table.

Device Type	State/control option
Heating	 Temperature °C <u>Multiple absolute setpoints</u> Setpoint shift 9.002: Absolute temperature shift 6.001: Temperature shift in percent 1.001: 1-bit temperature shift <i>Modes:</i> Comfort, Economy We Building Protection, Standby, Manual



Device Type	State/control option
Lights, sockets and Switches	 On/Off
RGB(W)-Lights	 On/Off Brightness: 0-100 % RGB-Color For RGBW: Brightness of the white channel
Dimmer	 On/Off Brightness: 0-100 % Color temperature (K and %)
Ventilation	 Preset, level (1-3) Auto mode Setpoint temperature Ventilation, boost Filter change Room temperature Humidity CO2 value
Shutters	Up/DownPosition: 0-100 %
Blinds	 Up/Down Position: 0-100 % Angle: 0-180°
Sensors	 Binary Brightness (lux) Humidity (%) Percent Temperature (°C) Time (12h and 24h Format) Wind speed (m/s) Noise (W/m²) CO₂ (ppm) Wind direction Pressure (Pa) Current (mA), DPT: 7,012, 9,021 Power (kW, W), DPT: 9.024, 14.056 Active energy (kWh) DPT: 13.013 Numeric values: signed, unsigned, or float value (ETS data point types 7.x, 8.x, 9.x) Rainfall (l/m²)
Remote maintenance	ISE Remote Connect

Modules/Bridges	
Camera	IP cameras, streaming types: RTSP, JPEG, MJPEG



Modules/Bridges	
Connect	Alexa voice control YOUVI Mobile: Android, iOS
Door intercom	Integration of SIP door stations
Ikea Tradfri	Tradfri lights, Tradfri sockets, Fyrtur
Philips Hue	RGB luminaires, dimmers, dimmers with Tunable White support, motion detectors, smart sockets
Netatmo	Temperature control, Sensors: Humidity, Temperature, Air Pressure, Noise, CO2, Wind Direction, Wind Speed, Weather Station, Rain Gauge
neoom	Integration of neoom energy monitoring
Sonos	Integration of Sonos sound systems
Bluesound	Integration of Bluesound sound systems
trivum	Integration of trivum sound systems
Yeelight	RGB luminaires, dimmers, dimmers with Tunable White support

The functional scope of the Visualisation

To set up the Visualisation, switch to the edit mode. With it, all settings of the Visualisation are accessible. The daily use takes place outside the edit mode, there are only very basic settings possible, such as setting a timer.

Functions that are possible when the Edit mode is enabled are shown highlighted in this list:

General functions in YOUVI Visu

- Visualisation and control of KNX devices in a <u>tile-like device representation</u>
- Moving the device tiles via drag & drop
- Make changes to existing devices:
 - Change device icon, design, name, type, room assignment, group addresses
 - Enlarge or reduce the tile display
 - Add tile to the dashboard
 - Delete devices
 - Set a Timer
- Diagram view of the device values, representation: day, week, month and year view
- Update the view on all panels

Functions on the <u>dashboard</u> creen:

- Presents your most important devices in one screen
- Choose between 3 different layouts
- Create up to 5 different dashboard pages
- Add <u>placeholders</u>
- Add <u>web widgets</u>
- Add <u>camera sets</u>
- Adding a <u>door station</u>
- Adding a sound system (<u>Sonos</u>, <u>Bluesound</u> or <u>trivum</u>)

Functions on the <u>building structure</u>

screen:

- Visualisation of the building structure i.e. floors and rooms in hierarchical menus
- Show devices by room, by floor, or another KNX area
- Move devices via drag & drop into other rooms
- Change room names and Icons
- Add/delete rooms, floors, buildings
- Add <u>placeholders</u>
- Add <u>new devices</u>, <u>more</u>
- Add weather station
- Add <u>energy monitoring</u>
- Add <u>room button</u>
- Add <u>specific device groups of one type</u>
- Creating <u>Scenes</u>

Functions on the device filter 5

screen:

- Filter the devices according to:
 - Type (lights, radiators, roller shutters, ...)
 - Status (active/ inactive, Comfort/Economy/ ...)
 - Location (floor, room, KNX area)
- Use filtered master tiles to overview and control device groups
- Pin master tiles to the *dashboard*



Functions on the <u>settings</u> for screen:

- Settings for the minimum and maximum temperature of the heating widgets
- Selection of sensors for outdoor and indoor temperature display
- Create a <u>backup</u> of the client view
- Enable the cleaning mode
- Dis-/Enable, lock the Edit Mode
- Dis-/Enable Autostart
- Dis-/Enable YOUVI Dark Mode
- Autodiscovery of YOUVI servers on the IP network, adding YOUVI servers manually via IP address

11.2 Dashboard

The *dashboard* page serves as a screen to overview your favorite <u>device tiles</u>. The tiles are

pinned to the *dashboard* by selecting the dashboard icon each item with the edit mode enabled.

In Edit Mode you can also

- move the tiles on the dashboard via drag & drop
- adding <u>camera widgets</u>, <u>web widgets</u>, music widgets(<u>Sonos</u>, <u>Bluesound</u>, <u>trivum</u>), <u>door stations</u> and <u>placeholders</u>
- make a choice between 3 dashboard layouts
- create up to 5 different dashboard pages

Set up the dashboard of YOUVI Visu

As soon as you have activated the Edit mode in the settings , you will be able to add <u>placeholders</u>, <u>web widgets</u> and IP cameras to the dashboard.

Camera sets

In YOUVI Configuration you can set up camera sets for the YOUVI Visu *dashboard*. More about this topic can be found **here**. Each camera set is displayed as one widget, with multiple camera streams. An example with 2 streams is shown in the picture. You can add the Camera Stream by selecting **+ Webcam**. On the widget you can choose between the individual streams and have them displayed larger. Selecting the large stream shows it in full screen mode.



Web widgets

Web widgets allow the user to pin websites to the dashboard. Adding a Web Widget:

- Switch on the Edit mode and go to the dashboard
- Select the "+ Web widget" button.
- Address: Specify the link to the website to be shown in the widget.
- Full screen address: If you want to use the widget interactively, do not specify an address here and only check the "interactive" box. If you want the website to appear in full screen when you tap on the widget, enter the corresponding link here.
- Username/Password: If the server uses digest authentication, enter the appropriate credentials here. For other password-protected sites, check "Interactive" and log in directly from the site displayed in the widget. Place a check mark by "Stay logged in" once you are logged in.
- **Zoom factor:** If only parts of the website are visible, the magnification of the page can be adjusted here.
- Interactive: If the checkmark is set, not only text can be read on the website in the widget, but also, for example, all links and navigation elements can be used. A navigation bar appears in the upper part of the widget. The full screen page is always interactive.



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		24 мо	25 Di	26 Mi	27 Do	28 Fr	
8 ⁸			Marketing Jour Fixe		Big Project Jour Fixe		
Û	10		S.		S		
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2	12	Jour Fixe 📿					
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	14						
	15			PEAKnx Jour Fixe		•	
	16			Konferenzraum OG 4			
	17						

Full screen web widgets

If a URL is entered in the **Fullscreen address** field when configuring a Web widget, the function of the widget changes. In this configuration, a web widget is generated that serves as a display unit for a full-screen display. If the display widget, see Figure 1, is touched, the full screen display opens, see Figure 2.

To set up the display, copy a URL into the **Address** field. This URL can be a display image or a website for status display. For example, you can use the Google Image Search and right-click on the desired image > "Copy image address" to use it as a display image for the website. If you don't find anything suitable, you can also use the same URL for both fields.



Left: Display Widget, right: Fullscreen display of the Web Widget

Placeholders

The YOUVI dashboard builds up from left to right and from top to bottom. Newly added tiles will be inserted to the right of the last element, if there is enough space, or as the first element of the next line. In order to simplify the arrangement of the device tiles, placeholders can be used. They prevent the unwanted automatic placement of the next tile by blocking existing gaps. You can add a placeholder by selecting the **+ Placeholder** field.

Placeholders are e.g. useful if different tile sizes are selected. In Edit Mode, the placeholder is displayed as a white tile, see Figure 3. If the Edit Mode is switched off, it will be invisible, see Figure 4.



Figure 3: Placeholders in Edit mode



Figure 4: Placeholders, Edit mode disabled

11.3 Building overview

Û					10:08 AM 18°C J° ^Δ 21°C J° ^Φ
	Ground floor		All lights - Bedroom	All shades - Bedroom	Bedroom blind
	Bathroom	Ť	Lights 1 On / 2 Off	() (‡) (†) 31%	\$ 0° / = 90° ○ = 31%
	Bedroom	æ	-0+		
	Hallway	A	Bedroom dimmer	Bedroom heating	≢90°O == 31%
	Kitchen			(§)≋ (∰)≋ Actual 18.0 °C	t 1000
0	Kitchen living		28 %		γ ₁₀₀ .
C	Store room/cellar	18	Bedroom RGB HSV	- 20.5 °C +	Bedroom shutter
	Showroom	면			
र्द्रो			(x) 33 %		31 %
600					
			Wall lighting bedroom		
\bigcirc					

In the menu item *Building overview*, the devices are shown according to their location in the building, i.e. floor and room.

In this view in <u>edit mode</u>, new devices, placeholders, <u>scenes, group functions</u>, rooms, floors or even buildings (field: **+ Add**) can be added.

Moving the tiles:

- Switch on the edit mode.
- Drag and drop the <u>tile</u> to the desired room or use the gear menu at the tile.

All button: shows all devices of a floor.

Folder or "Room" **Unassigned devices**: All devices that could not be clearly assigned to a room from the ETS project structure are displayed here. This folder is only displayed in Edit Mode.

11.4 Device filter

Û							10:19 AM 18°C () 21°C	J°®
	All	\bigtriangledown \bigtriangledown	All lights	 (\$)	Bathroom dimmer	Ô	(33)	٩
88		v	2 On	Lights /17 Off			Bathroom lig	
	Lights	×~				0 %	Bathroom RGB 232.600 writing	\$
	Heating	*** 		0		0		
G	Switches		Bedroom dimmer	201	Bedroom RGB HSV	107	670	
	Shades			28 %			- 64% -	+
9	Sensors		O	28 %	- 33%	+		
				0				0 %
			Hallw	ay light			0	_
<u> </u>			Hallway RGBW multiple 5.001 c	0	663		Kitchen ceiling light counter	¢
				•			(X)	
			0%	0 %	Kitchen ceiling lig	ڻ twor		
			Kitchen living dimmer couch	0	Kitchen living dimmer dinner t	6	Kitchen living RGB) (4)
				197		101		/ 125
\odot			(Č)	0%	(- <u>©</u> -)	0%	45 % 5	53 %
			0	0.70	0			

This page shows the devices by type:

For example, the **All** field shows all the lights in the house. A master tile that allows to control all lights together is the first item in the list. The **All** field is used to select the **device state**. For example, if **active** is selected, a list of all the lights in the house that are turned on will appear.

The **Filter** field is used to show devices of a certain part of the building, for example all lights on the first floor. After filtering the devices, the filter result appears as a master tile as the first element of the filtered list. With the master tile it is possible to control each filtered group of devices.

11.5 Settings

Settings		YOUVI Settings	
Connection Settings		Temperature Display	YOUVI - Version: 5.0.1
YOUVI Settings		Minimal Temperature	www.peaknx.com
Further Information		Maximal Temperature	© 2024 PEAKnx GmbH
Activate cleaning mode			Shut down application
YOUVI Help		Inside Bedroom Bedroom heating	
		Outside Kitchen Kitchen heating	
		Visualization Backup	
		Save backup Load backup	
		Autostart	
Edit mode		Disabled Enable	
The Edit mode is used visualization. Deactivat for normal use.	to set up the e the edit mode	Application theme	
tor normal use.		Light 🗸	

The following functions can be used in the settings:

Cleaning mode

 This mode is used to clean the touch-sensitive surface. It deactivates the YOUVI Visu user interface for 20 seconds.

Note: In cleaning mode, Windows functions such as closing or maximizing the window are not disabled.

Edit Mode

 By switching on the Edit Mode in the settings scope of functions.



By switching on the Edit Mode in the settings further (device) settings can be made, see

If it is preferred that only certain users can edit the Visualisation, the edit mode can be locked with a password. To do this, go to "YOUVI Settings" > Lock Edit Mode and "Lock". Set your password and write it down if necessary. If you do not remember your password, please contact our support.

Note: The Edit Mode deactivates all YOUVI tiles in order not to unintentionally change device values while dragging and dropping. To test new functions, always switch off the Edit Mode first.

Connection settings

Here you can see a list of all YOUVI servers found in the network. The server to which a connection exists is displayed in red.

Tap on a server to connect to it.



With "+ Add" you can manually configure a connection to a YOUVI server. This will be necessary if the autodiscovery for the YOUVI server does not work, e.g. when using a VPN connection. Therefore, enter the IP address and port of the YOUVI Server.

YOUVI Settings

- Settings for the minimum and maximum temperature of the heating widgets
- Select sensors for the temperature display in the right area of the title bar.

Make a backup of the YOUVI Visualisation

- This saves the Dashboard and all settings made in YOUVI Visu that affect the local device.
- You can find out more about this in the <u>Backup</u> topic.

Note: When a backup of the Visualisation is created in YOUVI Visu, a <u>YOUVI backup</u> should also be created in YOUVI Configuration > General >General. This saves specific settings of the Visualisation with the associated project data.

Activate/deactivate Autostart

If the autostart of the app is activated, YOUVI Visu starts automatically after each reboot.

Activate/deactivate YOUVI Dark Mode

YOUVI's night view (dark mode) can be switched here manually.

11.6 Device tiles

All the devices contained in the KNX network are shown as individual tiles in the Visualisation. The tiles are displayed collapsed or expanded, depending on your preference on the <u>dashboard</u>. Each item has an icon (position 2) to add it to the <u>dashboard</u>. Each tile can be configured when position 4: <u>Settings</u> is selected. Each device can be further configured there respectively.



In addition to the standard device tiles for roller shutters, blinds, heating, dimmers, (RGB) lights, sockets and sensors, additional widgets are also included:

- Switch
- Custom-Button
- Room button
- Weather station
- Custom group tiles
- Web widget
- Webcams
- Music Widget (<u>Sonos</u>, <u>Bluesound</u>, <u>trivum</u>)
- Placeholders

(Light) Switch

The switch widget is used for the classic on/off function of luminaires, devices, sockets or other applications. Input are also group addresses of the application.

The widget is available in three designs. The classic design (smaller switch style) can also be resized after the tile has been created.



Small button style





Christmas button style

To create a switch, switch on the Edit mode of the Visualisation. Go to the building structure

and click on the + **Add** > *Device* button. Select "Switch" or in case of a luminaire "light" under Device type.

Custom Button

Further switch configurations are made via the device type "Custom Button". The device type allows the following combinations:

Button type	Possible action	Status feedback
<u>Action on press</u>	Group address <u>Custom state (</u> logic) Action (logic) (does not contain status feedback)	Always included if "custom state" was selected before Optional, if a binary group address was previously selected. A binary feedback address is needed. Status shown: Text state 1 Text state 2 Icon state 1 Icon state 2

Action on press and release	Group address <u>Custom state (</u> logic)	-
Toggle (normal switch function)	Group address (binary) <u>Custom state (</u> logic)	Always included if "custom state" was selected before If binary group address was selected before, a binary feedback address is required. Status shown: Text state 1 Text state 2 Icon state 1 Icon state 2

• To create a Custom button, switch to the <u>Edit mode</u> of the Visualisation. Go to the building

structure and click on the + **Add** > *Device* button. Under *Device type*, select "Custom button".

Action on press

This button type sends a **value to a group address**, for example On or Off, a numerical value or a command to call up a <u>KNX scene</u> when the button is pressed. Furthermore, an **action created in the logic module** or a <u>custom state</u> can be started or switched.

If a feedback address or the custom state is specified for the object, the widget also shows the status of the object. The exact status message can be entered freely.

Note: This button type can only be configured to **one command at a time: 1 (On) or 0 (Off)**. Sending both switching commands (On/Off) is only possible via the button type "Toggle".

The button in the picture shows an application example. Here the custom state "Party" is activated when the button is pressed.

Party		Ô			
	~1111)				
	((((ا		Party	~	Ô
				a(30)))	

Call up KNX scenes

If "Group address" is selected under "Action type", you can enter a group address with KNX data type 18.001 and call up a scene predefined in the ETS. The entered value must be between 0 and 63.

Option KNX scene overwrite

This option appears if you have created the button once with a KNX scene and then switch to edit mode and the editing dialog of the device again.

Attention! Overwriting the scene at the actuator cannot be undone! If you want to change scenes without reprogramming the actuators, we recommend using the <u>YOUVI scenes.</u>

If a KNX programmed scene is to be reset to different values you can do so by setting the devices of the corresponding actuators to the desired new value and then selecting the option "overwrite KNX scene" under the scene number. A telegram is then sent out which reprograms the actuators belonging to the scene to the current device values.

Action on press and release

This button type is used for the application of a door buzzer. As long as it is pressed, it sends a 1 to the stored group address. As soon as the finger is removed from the button, a 0 is sent to the group address.

🔲 Garden gate	Ø		
		Garden gate	Ô

Toggle

This button type corresponds to the classic switch widget with additional status feedback via text and icon. Input are also group addresses or a custom state generated in the logic module.




Garage door	<u> </u>	
	Status closed	ද්ූා Garage door closed

Custom State Button for switching and toggling

If you select the "custom state" action type, you can switch or set a specific value of a custom state via the custom button in the Visualisation .

The "custom state" function contained in the <u>logic module</u> allows you to design your logics for special, user-specific cases. For example, the custom state can be used to suspend your evening routine when visitors are present. In this case, you can create a custom state button on your dashboard that you can simply press when guests are visiting to suspend evening routines. Depending on the button type, you can switch the user mode on and off via the button (type: toggle) or generate a button that can only activate or deactivate the custom state (type: action on press).

Room button

The room button serves as a quick access to the functions of a room. It can be pinned to the dashboard as a large or small variant. In the small version it serves as a link to get directly into the room. In the larger version you can also see the main functions of the room: lights, switches (sockets and switches), shading (blinds and shutters). When you touch one of these buttons for example the light, all the lights in the room are switched on or off. As soon as a light is switched on, the button displays the light status as "On". The same applies to roller shutters and blinds: As soon as a roller shutter or blind is open, the function button displays the status of the roller shutters/blinds in this room as "Open".



To create a room button, switch to the Edit mode of the Visualisation. Go to the building structure

Li] . Next to the rooms you will see the dashboard icon. Select this for the rooms you want to add to the dashboard.

Weather station

With YOUVI you can add a weather station to your dashboard, even without your own sensors.

Activate the <u>Edit mode</u>, go to the building structure and select + **Add** > *Device*. Select under device type "weather station". To be able to call up local weather data, enter your place of residence. If you also have weather sensors, you can enter the appropriate group addresses in the next window. In this case the weather station shows your sensor values.



Custom Group Tiles

Besides the automatically generated group tiles for all lights of a room, floor or the whole building, user-defined group tiles can be created.

These **can contain only one device type** (roller shutters, lights, etc.). With this widget, for example, lights from the kitchen and living room can be controlled simultaneously.





To create a group tile, switch on the Edit mode of the Visualisation. Go to the building structure

and click on the **+ Add** > *Group function*.

11.6.1 Tile settings

To use the full scope of the device settings, turn on the Edit mode.



In the tile settings the following things can be changed:

- 🖉 Change device name, type, icon, pin to dashboard, room assignment
- Set a timer
- Change group addresses
- Uelete a device

11.7 Changes in existing projects

If changes are made to the KNX structure in the building by introducing new devices, they can also be transferred to the Visualisation without a new ETS project import via YOUVI Configuration. After programming the actuator via the ETS, the change is made in the Visualisation.

To do so, follow these steps:

Navigate to settings

and switch on the Edit Mode.

Note: The Edit Mode deactivates all YOUVI tiles in order not to unintentionally change device values while dragging and dropping. To test new functions, always switch off the Edit Mode first.

- Go to *building structure* and click on, + **Add** and **Device**.
- Assign a type, name, icon, (dashboard) and room and continue the dialog by selecting the arrow at the bottom of the window.
- In case of a light/switch or socket, select the button representation.

- Assign the corresponding write and feedback addresses, programed for the new device in the ETS and confirm by selecting the check mark.
- By pressing the arrow symbol in the bottom left corner of the screen, the Visualisation is refreshed.

Tip: Using the + Add Button you can also add rooms, floors, or whole buildings to your YOUVI project.

Changing an existing device

If you want to reprogram actuators, it is possible - after the change in the ETS - to change only the corresponding device in the Visualisation. To do this, update the project and remove the checkmark from "Enable parsing". This way, only the new group addresses will be imported. Then open the <u>device tile settings</u> on the device tile and change the corresponding write and feedback address(es). For each group address field a selection menu with already existing group addresses is available.

11.8 Creating Scenes

Note: If you want to start or overwrite a scene in a KNX actuator, you will find more information <u>here</u>.

A scene contains a set of predefined values for a selection of your smart home devices. The "Scene Button" is used to trigger a scene. When it is pressed, the devices switch to the values defined in the scene.

With a scene you can therefore set several devices, such as a blind, the ceiling light and the heating to a desired value at the same time - simply by pressing a "scene button". By entering a delay for each device, you can define exactly in which order devices are switched to the desired value and thus let a scene begin harmoniously. This function can be used, for example, to create different lighting scenes, a scene after work or a scene for leaving the house.

This is how you create a scene:

- Activate the Edit mode in the Visualisation settings.
- Switch to the building overview
- Select "+ Add" > "Scene".
- An area is displayed at the bottom where you can drag and drop all devices that are to be part of your scene.
- Once the device is included in the scene, an icon with the device symbol appears in the red bar.



- After you have dragged all the devices you want to use into the red bar, select the check mark in the red area to configure the scene.
- The table view opens. Here you can define the desired action for each device using the controls under "Action".
- "Value" shows you the set value on the slider as a numerical value.
- Via "Delay" you can set a time interval in hours:minutes:seconds after which the devices change to the set value after the scene button has been pressed.
- Via "Delay" you can also set a sequence in which actions are executed.
- Then enter a name for the created scene in the lower left area of the Visualisation, a room in which the scene button should appear and select the appropriate icon.
- Next to the icon selection, select the dashboard icon to display the scene button on the dashboard.
- Save the scene by selecting the check-mark at the bottom right.

12 YOUVI Bus Monitor

The YOUVI Bus Monitor is intended to monitor KNX telegrams, bus events, or switching actions. It is also useful for remote diagnosis, e.g. by the system integrator, as status information can easily be filtered and exported as a csv file.

It can be accessed via YOUVI Dashboard.

Further information is located in the YOUVI Bus Monitor Help.

O ŵ	① 127.0.0.1:3	1225/#/										
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	Destina	ition Address		Type it switch/bli (01/El	S 1,2,7)	Off	On		(0)	î 0 C	1 76 74 6	2
	x	Date/Time ↓	Priority	Service	Source	Repeat	Route	Destinatio	Description	Data	Value	
		01/02/201	Low	From Bus	1.1.30	No	6	1/5/3		0D	~	
		01/02/201	Low	From Bus	1.1.30	No	6	1/4/3		01		
		01/02/201	Low	From Bus	1.1.30	No	6	1/5/2		0D		
		01/02/201	Low	From Bus	1.1.30	No	6	1/4/2		01		
		01/02/201	Low	From Bus	15.15.0	No	6	1/3/1	Schlafzim	82	51	
		01/02/201	Low	From Bus	15.15.0	No	6	1/3/0	Wohnzimm	94	58	
		01/02/201	Low	From Bus	15.15.0	No	6	1/1/0	Wohnzimm	01	On	
		01/02/201	Low	From Bus	15.15.0	No	6	1/1/16	Küche RG	01	On	
		01/02/201	Low	From Bus	15.15.0	No	6	1/1/11	Schlafzim	01	On	
		01/02/201	Low	From Bus	15.15.0	No	6	2/3/8	Küche RollI	00	0	
		01/02/201	Low	From Bus	15.15.0	No	6	2/3/8	Küche RollI	00	0	
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		01/02/201	Low	From Bus	1.1.30	No	6	1/4/3		01		

13 Status information

On this page you will find the 3 statuses that are displayed in YOUVI Configuration and their meaning.

Connected YOUVI

This status becomes interesting if there are several devices in your network, on which the YOUVI server is installed. The status shows which YOUVI server is currently connected. In YOUVI Configuration you can then rename the connected YOUVI server.

KNX status

The KNX status reflects whether YOUVI is connected to the KNX network.

Status information	Description
Connected	The KNX connection is established
Limited	YOUVI is connected to a USB-Connector, but the connection to the KNX network failed. This could be due to a flawed KNX cable.
Disconnected	No working connection to a USB-Connector.

Network status

The network status displays the connection to the LAN

Status information	Description
Connected	YOUVI is connected to the local area network.
Disconnected	YOUVI is not connected to the local area network.

14 Limit of saved telegrams

Due to possible performance issues, YOUVI records only a limited number of telegrams. The default limit value is 2.5 million.

Cleaning task

Every day at 3 AM local time the telegrams cleaning task is executed. If the number of telegrams exceeds the set limit (default setting: 2.5 million), the exceeding telegrams will be deleted, starting from the oldest telegrams in the database.

Change the number of recorded telegrams

Note: If a user changes the telegram limitation number, the limit for the telegram cleaning task is automatically updated. This leads to the cleaning task being executed immediately after the change.

To change the recorded number of telegrams you need to adapt the YOUVI Database Service configuration file. Therefore, do the following steps:

- Navigate to the installation directory of YOUVI: Local Disk (C:) > Program Files (x86) and then: PEAKnx > YOUVI > YOUVI - Database Service.
- Open the configuration file (".config"): "YOUVI.Database.Service.dll.config". Set the value for: "TelegramsLimitation" to the desired number of recordings.

15 Reporter Tool

In case of problems with YOUVI, use the Reporter Tool to contact our support.

- To do this, make a long finger press or right click on the green house in the taskbar and select "Send Support Ticket".
- Provide a brief description of the problem and, if possible, what you did in the software before the problem occurred.
- When you send the report, the required log files (logs) are automatically sent with it.

	Đ	8 🔹		×
•		Open YOUVI Dashboard	Reporter-Tool v0.0.16	
		Open Panel Configuration	Report Description	
<u></u>		Select YOUVI		
		Send Support Ticket		
N	?	Help		
	(i)	About		
	\otimes	Exit		
			I want PEAKnx to contact me directly First Name* Email* Phone Note: When sending a report ticket, you sent directly to PEAKnx. All data remain and PEAKnx.	Last Name*

16 Controlmicro Hardware Integration

Controlmicro panel settings

This tool gives you access to the CO2 value and to the brightness value, to the ambient light and the proximity sensor.

Panel Settings	
Control Ambient Beleuchtung	Info FW: 4.0.1 SW: 4.2.2.0 589.81ppm
Helligkeit Steuerung Hell 53.70 lux	Näherungssensor 60 sek. Timeout Erkennungsbereich 10 10 120 cm Status: Anwesend

You open the application by typing http://localhost:31521/ into the panel's browser or using the icon in the taskbar*:

*If YOUVI is not yet installed, this icon will take you directly to the Panel Settings, if YOUVI is already installed, right click on the house and select "Panel Configuration".



Control and query of the sensors and the ambient light via http

• Under the address http://localhost:31521/swagger you will find all usable http commands for the sensors and the ambient light of the Controlmicro.



- For "localhost" enter the IP address of the Controlmicro, e.g.: http://10.2.42.60:31521/swagger, if you access the page from a PC in the network.
- Under the heading "Panel" you will find all http commands for querying and controlling the installed hardware.
- Click on the desired link to open more options.
- Select "Try it out".
- Test the function by clicking on "Execute".
- A corresponding "Request URL" link will be created to copy the command.
- At the end of the expanded area it will be shown if the execution was successful: "Success".

Example: control the RGB light

- Click on the third "POST" command under the category "Panel" (/api/v1/panel/led/color Setting led color)
- The link area will expand.
- Click on "Try it out".
- In the following "Color of led" field, enter the appropriate RGB value for the desired color:

POST /api/v1/panel/led/color Setting led color	
Parameters	Cancel
No parameters	
Request body	application/json-patch+json ~
Color of led	
<pre>{ "r": 55, "g": 19, "b": 233 }</pre>	

- Click "Execute" to test the light and generate the appropriate link.
- Under "Request URL" you will find the generated http command.



17 Supported KNX devices

In the topic <u>Tips for your ETS project</u> you will find all the information needed to parse a device in YOUVI. Supported device types can be found in the topic <u>Scope of functions</u> under Visualisation. More about integration and examples for specific devices can be found here:

- Air conditioning
- Dimmer
- Heating
- Temperature control via multiple setpoints
- RGB(W)
- Ventilation
- ISE Remote Connect

17.1 Example: Dimmer and tunable white

This example shows how to create a dimmer with optional Tunable White functionality for the Visualisation.

Parsing requirements

To detect a dimmer, at least 3 group objects for writing (flags "Write" set) must be defined in the ETS*:

- 1 bit object, e.g. 1.001 switch, write
- 4-bit object, e.g. 3.007 dimmer step, write
- 8-bit/1-byte object, e.g. 5.001 percent, write

* Information about the detection of other devices can be found on the help page <u>Tips for your</u> <u>ETS Project</u>.

Creating an active feedback

To ensure that the current dimming status is also displayed in the Visualisation after using the physical switches, an "active signaling object" is required for feedback. For this purpose, the feedback channels for the switch status and the current brightness value may have to be enabled for the dimming actuator, see Figure 1.

Feedback objects for the switching status and the dimmer brightness can have the following form:

- 1.001 switching, feedback
- 5.001 brightness, feedback



1.1.1 Dimming actuator, 2-gang >	K1 - Feedbacks	
Channel definition	Feedback switching status ?	feedback object is active signalling object
General	Updating the object value for switching status feedback	after each update obj. "Switching"/"Central" only if the feedback value changes
Times	Time delay for feedback telegram after bus voltage return?	Ves 🔘 No
Manual operation	Cyclical transmission of the feedback ?	© Yes ○ No
K1 - General	leedback :	
K1 - Enabled functions	Feedback brightness value ?	feedback object is active signalling object 🔹
K1 - Feedbacks	Updating the object value for brightness value feedback	 after each update obj. "Brightness value" only if the feedback value changes
K1 - Supplementary functions	Time delay for feedback telegram after bus voltage return?	Ves No
K1 - Dimming characteristic	Cyclical transmission of the feedback ?	O Yes O No
K2 - General	-	

Figure 1: Settings for the feedback of the dimmer

Creating a push button

In the ETS, the actuator is created in the control cabinet and the light switch in the corresponding room. The group addresses are then assigned to both the actuator and the switch/button. During the project import YOUVI places the dimmer in the room where the corresponding switch is located. Only devices that have no switches in another room and whose actuator has been assigned to the control cabinet are also displayed in the control cabinet in the Visualisation. The device definition in the ETS, as well as the result in the Visualisation can be seen in Figure 2 and 3.

ETS5™ - PEAKnx Showroom											
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🔲 Buildings 🗸 🗸	Nu	mber Name *	Object Function	Description	Group Addres	s Length	с	R W	τu	J Data Type	Priority
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 Control Cabinet 	■‡ 21	Channel 2	Switching	2nd Floor Showroom Light Board left s	1/1/0	1 bit		W -			Low
🔺 📗 1.1.1 Dimming actuator, 2-gang	∎‡ 24	Channel 2	Dimming	2nd Floor Showroom Light Board left ds	1/2/3	4 bit		W -		2	Low
■ 2 3: Channel 1 - Switching	■225	Channel 2	Brightness value	2nd Floor Showroom Light Board left dv	1/3/0	1 byte				percentage (0100%)	
■之 6: Channel 1 - Dimming	■ 2 26	Channel 2 Channel 2	Switching feedback	2nd Floor Showroom Light Board left FBs 2nd Floor Showroom Light Board left FBv	1/4/0	1 bit	с -			state percentage (0100%	Low
■ 7: Channel 1 - Brightness value	=+ 27	Channel 2	Feedback brightness value	2nd Floor showroom Light board left PBV	1/3/0	Tbyte	C -			percentage (0100%)	LOW
2 8: Channel 1 - Switching feedback	Group	o Objects / Pai	rameter								
Buildings 🔻											
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Figure 2: Configuration of dimming actuator and switch in the ETS

					2 9:40 AM 18°C \$	- □ × ^Δ 21°C ∫° ^Φ
	Ground floor		All lights - Showroom	ېنې ۲	Showroom left	¢۵
	Bathroom	- T		Lights 1 On / 1 Off		42 %
	Bedroom	8		+		
	Hallway	<u>I</u> II	Showroom light	ţŷł		
	Kitchen					
	Kitchen living	F		0 %		
	Store room/cellar	10				
	Showroom	면				
र्दुरे			11 C 11 P			

Figure 3: Result of the dimmer in the visualization

Tunable White

In addition to the objects required for a dimmer, dimmers with Tunable White functionality require objects to control the color temperature. For this purpose, 2 different data point types are supported:

- 7.600 color temperature in K, write or 5.001 color temperature in %, write.
- 7.600 color temperature in K feedback or 5.001 color temperature in %, feedback

ETS Edit Workplace Commission													- 0
👩 Close Project 🖌 Undo 🛝	Redo 🚔 Reports 📰 W	/orkplace 👻 📗	Catalogs Diagnostics										
Buildings 🔻										∧ □ ×	Propert	ies	
🕨 Add Channels I 🔹 🗙 Delete 🛨 B	Download 🔹 🌗 Info 👻 🛃 Re	iset 🤌 Unioa	d 🔻 🚔 Print						Search	ρ	0	-	1
Buildings		* Numb	ber * Name	Object Function	Description	Group	Address Length C R	WTU	Data Type	Priority	Settings	Comments	Information
Dynamic Folders		# 2 51	Channel D (TW 2 - Warm White)	Dim absolutely			1 byte C -	W p	ercentage (0100%)	Low ^	Name		
Building		# 2 52	Channel D (TW 2 - Warm White)	State On/Off				- T - st		Low	LED TW 1 Col	or temperature (Kr	elvin)
1st floor		5 4	LED TW 1	Switch On/Off	Tunable white switch	0/0/15	1 bit C -			Low	Description		
4 [1] Room1		. 74	LED TW 1 Color temperature (level CW in %)	Dim absolutely					ercentage (0100%)	Low	Tunable whith	color temperature	
Control cabinet		2 75	LED TW 1 Color temperature (Kelvin)	Dim absolutely	Tunable white color temperature	7/0/1			osolute colour temperate				
		=2 76 =2 77	LED TW 1 Brightness	Dim absolutely	Tunable white brightness	0/0/18			ercentage (0100%)	Low			
I.0.1 AKD-0424R.02 RGBW Si		■↓ //	LED TW 1 Transition (Color temperature and brightr LED TW 1 Color temperature (level in %)	Dim relatively					rightness colour tempera imming control	stLow	Priority		
🖻 📘 1.0.2 LUMENTO X4 Single 232		■+1/0 ■2 79	LED TW 1 Color temperature (level in %) LED TW 1 Brightness	Dim relatively Dim relatively	Tunable white dimmer step	0/0/17			mming control	Low	Low		
I.0.3 AKD-0424V.02 LED Cont	troller 4 Kanäle/RGBW Multiple	=2 79 =2 80	LED TW 1 Brightness	State On/Off	tunable white switch status	0/0/1/	4 bit C -			Low			
I.0.4 LUMENTO X3		■≠180 ■≠186	LED TW 1 Color temperature (level CW in %)	State of dimming value		0/0/10			ercentage (0.,100%)	Low	Flags		
1.0.5 LUMENTO X4		2 87	LED TW 1 Color temperature (kelvin)		Tunable white color temperature status	7/0/2			osolute colour temperati		Communi Read	cation	
1.0.6 AKD-0424R.02 TW		2188	LED TW 1 Brightness		Tunable white brightness status	0/0/19			ercentage (0100%)	Low	Vrite		
Trades		2198	LED TW 2	Switch On/Off			1 bit C -			Low	✓ Transmit		
Trades		2100	LED TW 2 Color temperature (level of CW in %)	Dim absolutely			1 byte C -	W p	ercentage (0.,100%)	Low	Update		
		#2101	LED TW 2 Color temperature (Kelvin)	Dim absolutely					solute colour temperate		Read On I	nit	
		102	LED TW 2 Brightness	Dim absolutely			1 byte C -	W p	ercentage (0.100%)	Low	Data Type		
		Z 103	LED TW 2 Transition (color temperature and brightr	eDim absolutely			6 bytes C -	W b	rightness colour tempera	st Low	7.* 2-byte uns		
		Group O	biects Parameters								7.001 pulse 7.002 time		
Group Addresses 👻											7.002 time		
										_	7.004 time	(100 ms)	
🕨 Add Group Addresses 🛛 🔹 🗙 Delete	e 붗 Download 🔹 🕕 Info 🔹	🕤 Reset 🛛 🖗	Unload 👻 🚔 Print						Search	Q.	7.005 time		
Group Addresses	* Address	Name		Description	c	entra Pass I	T Data Type	Lengt	h No. of Last	Value	7.006 time 7.007 time		
Dynamic Folders	88 0/0/18		e white brightness		N		percentage (0.,100%)	1 byte	1			erty data type	
B 0 Light	88 0/0/19		e white brightness status		N		percentage (0.100%)	1 byte	1		7.011 lengt		
	88 0/0/17		e white dimmer step		N		dimming control	4 bit	1		7.012 curre		
88 0/0 Test board lights	88 0/0/15	Tunable	e white switch		N	o No	switch	1 bit	1		7.013 brigh	tness (lux) lute colour tempera	
BB 0/1 Central	88 0/0/16	tunable	e white switch status		N	o No	state	1 bit	1		8.* 2-byte sign		sture (K)
1 Ventilation	88 0/0/23	TW 500	06 brightness		N	o No	percentage (0100%)	1 byte	1			s difference	
2 Weather station	88 0/0/24	TW 500	D6 brightness status		N	o No	percentage (0100%)	1 byte	1		8.002 time		
88 3 Temperature	88 0/0/22	TW 500	06 dimming		N	o No	dimming control	4 bit	1		8.003 time		
8 4 Shutters	88 0/0/20	TW 500	D6 switch		N	o No	switch	1 bit	1		8.004 time 8.005 time	lag (100 ms)	
	88 0/0/21	TW 500	06 switch status		N	o No	switch	1 bit	1			ag (s)	
S RGBW											Default		
7 Tunable White											0		
											🔎 Find an	d Replace	
											Worksp	aces	
											O Todo It		
											-	ems 9 Operations	
	Group Addresse	s /									🖌 Undo H	listory	
YOUVI (10.11.12.34:3671)	+ 10 Main In			0.6 AKD-0424R.02 TW			75: LED TW 1 Color temperature (K			1.000	sed workspace		

A dimmer with tunable white functionality can be implemented in the ETS as follows:

17.2 Example: Heating device

The second example shows how to create a heating control. At least three group objects are required for automatic detection of a heating system: A group object that transmits the temperature setpoint, one for the feedback of the current temperature and one for the feedback of the setpoint temperature.

Each heating widget in YOUVI Visu also has a mode selection, see Figure 2: Comfort, economy mode, building protection, standby and manual. To use these modes, two group objects are further created for writing and status of the HVAC mode.

A short summary of the required group objects:

- First group object: Data type: 9.001/Temperature, Flag: Write set, temperature setpoint
- Second group object: Data type: 9.001/temperature, Flag: Transmit set, Write not set, current temperature
- Third group object: Data type: 9.001/Temperature, Flag: Transmit set, Write not set, feedback setpoint temperature

Optional:

- Fourth group object: Data type: 20.102/HVAC mode, Flag: Write set, HVAC mode
- Fifth group objects: **Data type:** 20.102/HVAC mode, Flag: Transmit set, Write not set, **feedback HVAC mode**

Note: When defining the group objects, make sure that group addresses have the correct data types and flags as show above and in figure 1.

Creating a button

As in the example of the dimmer, it is not decisive where the actuator is located in the ETS project, but where the associated controller is created. The placement of the controller also defines the placement of the widget in the Visualisation. In this example it is located in the kitchen.

You have two options when creating a heater, depending on the actuator:

1. Mode and setpoint temperature are processed by a controller which gives the heating command to a heating actuator if the actual temperature falls below the setpoint temperature.

2. The heating actuator gives the heating command after receiving the current and set temperature.

For parsing the setpoint temperature, use the term "setpoint".

For parsing the current temperature, use the term "measured value".

In the case of an air conditioning system, the command for cooling is sent by the controller or actuator in the same way as the heating system when the setpoint temperature is exceeded. Both variants are supported by YOUVI.

Feedback

For the temperature display in the widget, it is also important to either regularly send the current temperature and setpoint temperature via the bus or to have a status sent after a temperature change.

An example of the parameterization of a controller for a heating widget is shown in the picture below. The result in the Visualisation is shown in figure 2.

👩 Close Project 🧳 Undo 🛝	Redo 📄	Reports Workplace *	Catalogs 🔤 Diagno:	stics				
Buildings 🔻								∧ □
🕂 Add Channels 🔹 🗙 Delete 🔮	Download •	🕕 Info 💌 💋 Reset 🖗 U	nload 🐐 🚔 Print				Search	
📱 Buildings 🔹 🔻	Number	Name	Object Function	Description	Group Address	Length C R W T	U Data Type *	Priority
📁 Dynamic Folders	# 2 30	RHCC Status	Send controller status			2 bytes C R - T	-	Low
Heating Test project	2 4	Reset setpoint value	Parameter read in			1 bit C - W -	- enable	Low
Garden	25	DPT_HVAC Status	Send controller status	1. Floor Kitchen (HVAC status)	1/6/3	1 byte C R - T	- HVAC mode	Low
	■ 2 31	mode selection	select mode	1. Floor Kitchen (HVAC mode)	1/2/3	1 byte C - W -	- HVAC mode	Low
🔺 📳 Main	■ ‡ 8	Control value heating	Send control value	1. Floor Kitchen (Heating 0/1)	1/3/3	1 bit C R - T	- switch	Low
 I.Floor 	■ # 11	Mode comfort	Switch mode			1 bit C - W -	- switch	Low
Bedroom	1 2	Mode night	Switch mode			1 bit C - W -	- switch	Low
▲ 🛱 Kitchen	■ 2 13	Mode frost protection	Switch mode			1 bit C - W -	- switch	Low
Heating Kitchen 1.Floor	■ ‡ 0	Currentl temperature value	Transmit temperature value	1. Floor Kitchen (current temperature)	1/0/3	2 bytes C R - T	 temperature (*C) 	Low
	■ ‡ 6	Setpoint comfort	Set setpoint	1. Floor Kitchen (setpoint)	1/1/3	2 bytes C R W T	 temperature (°C) 	Low
1.1.5 Room temperature	#2 9	Current setpoint	Send setpoint	1. Floor Kitchen (current setpoint)	1/1/103	2 bytes C R - T	 temperature (°C) 	Low
🖻 🚈 Laundry room	■ ‡ 7	Manual set point value offset	Reduction / increase			2 bytes C - W -	 temperature difference (K) 	Low
🖻 😓 Livingroom								
A Office								
> 🚰 2. Floor								
> 🚰 3. Floor								
Trades								

Figure 1: ETS-Parameterization of a temperature controller in the kitchen

Ω	🖉 Edit mode			
	Ground floor 🖉 🗸		Kitchen heating	× == ↔
	Bathroom	A A	6	Actual 21.0 °C
	Bedroom		- 22.0 9	<u> </u>
0	Distribution		Setpoint temp	erature
	Hallway	FI		
	Kitchen)= (
	C Kitchen living	(III)		
τζζε	Store room/cellar			
	Study	무		
	Unassigned devices	?		

Figure 2: Heating Widget after ETS-Import, showing the temperature control and mode selection

Heating control with setpoint shift

In addition to the usual setting of an individual setpoint temperature in every room of your house, there are also heating controllers which adjust the respective room temperature by means of a setpoint value shift. Depending on the actuator, various technical variants are available. The exact actuator and switch configuration can be found in the operating instructions for the respective actuators. Depending on the configuration, the setpoint shift must be **adjusted in the Visualisation** after the project import. To do this, switch on the edit mode and go to the tile

settings and the device settings of the heating widget. YOUVI supports setpoint shifts with the following data types in addition to the usual setpoint specification:

- 9.002: Absolute temperature shift
- 6.001: Temperature shift in percent
- 1.001: 1-bit temperature shift

In case of a temperature shift via data point 9.002 (temperature difference in K), select either the standard KNX data point (20.102) or MDT specific (if you have an MDT actuator). For both variants, the setpoint temperature in comfort mode that you assigned in the ETS must also be entered in the Visualisation and serves as a basis.

For 1-bit objects and a temperature shift in percent, the step width assigned in the ETS is also entered in the Visualisation.



17.3 Example: Airconditioning

Air conditioning systems are integrated into YOUVI via the Airzone gateways <u>Aidoo KNX</u> and <u>Aidoo Pro</u>.

These gateways integrate air conditioning systems from the manufacturers Mitsubishi Heavy, Mitsubishi Electric and Toshiba.



Note: Please note that you need to turn on the air conditioning unit located at the bottom left before adjusting the temperature.

The following communication objects are required to automatically recognise and use an air conditioning system:

- 1.001 Switching
- 1.001 Switching status
- 9.001 Setpoint temperature
- 9.001 Setpoint temperature status
- 9.001 Current temperature

In general, the following group addresses can be linked:

Shown in the widget:

- 1.001 Switching
- 1.001 Switching status
- 20.105 HVAC control mode (expand widget)



- 20.105 HVAC control mode status
- 9.001 Setpoint temperature
- 9.001 Setpoint temperature status
- 9.001 External sensor temperature (current temperature)

Further optional group addresses:

- 1.100 heating/cooling
- 1.100 heating/cooling status
- 5.001 Fan speed
- 5.001 Fan speed status
- 5.001 Blade position
- 5.001 Blade position status
- 9.001 Return temperature
- 9.001 Internal sensor temperature
- 1.005 Error/alarm status
- 16.001 Error display text
- 13.100 Operating hours counter

An example of the assignment of the actuator channels is shown below:

III ETS5™ - Airzone_ (1)										
ETS Edit Workplace Commissioning Diagn	ostics Apps	Window								
👩 Close Project 🛛 🖍 Undo 🛝 Redo 🛛 🚔	Reports	Workplace • Catalogs Diagno	stics							
Buildings 🝷									^	×
🕂 Add Floors 🔹 🗙 Delete ± Download 🔹 (🚺 Info 🔹 🍨	🕽 Reset – 🖗 Unload 💌 🚔 Print					S	earch		P
Buildings •	^ Numb	per * Name	Object Function	Description	Group Addre: Le	ngth C	R	wт	U Data Type	Prior
Dynamic Folders	# # 1	Control On/Off [DPT_1.001]	0-Off, 1-On	Living room Airconditioning On/Off	1/0/1 1 bi	e C	-	w -	- switch	Low
New project	■ # 2	Control Mode [DPT_20.105]	0-Auto, 1-Heat, 3-Cool, 9-Fan, 14-Dry	Living room Airconditioning HVAC Control mode	1/0/2 1 by	te C	- 1	- W	- HVAC control	m Low
House	■ # 3	Control Mode Cool/Heat [DPT_1.100]	0-Cool, 1-Heat	Living room Airconditioning 0_Cooling_1_Heating	1/0/17 1 bi	e C	- 1	- W	- cooling/heatir	ig Low
	1 2	Control Fan Speed/3 Speeds [DPT 5.001]	0%-49% Speed1, 50%-82% Speed2, 8	Living room Airconditioning Fan Speed	1/0/3 1 by	te C	- 1	- W	- percentage (0	10Low
4 🚰 Groundfloor	# 2 18	Control Vanes U-D/5 pos [DPT 5.001]	0%-29% Pos1, 30%-49% Pos2, 50%-69.	Living room Airconditioning Control Vanes	1/0/4 1 by	te C	- 1	- W	 percentage (0 	10Low
A 💾 Hallway	27	Control Setpoint Temperature [DPT 9.001]	°C	Living room Airconditioning Setpoint Temperature	1/0/5 2 b	tes C	- 1	- W	- temperature (C) Low
Control cabinet	■ 2 51	Status On/Off [DPT_1.001]	0-Off, 1-On	Living room Airconditioning On/Off_Status	1/0/6 1 bi	t C	R	- T	- switch	Low
1.1.2 Board KNX-HVAC AIRZONE GA	2 52	Status Mode [DPT_20.105]	0-Auto, 1-Heat, 3-Cool, 9-Fan, 14-Dry	Living room Airconditioning HVAC Control Mode Status	1/0/7 1 by	te C	R	- т	 HVAC control 	m Low
1.1.20 KNX-HVAC AIRZONE GATEWAY	# 2 53	Status Mode Cool/Heat [DPT 1.100]	0-Cool, 1-Heat	Living room Airconditioning 0_Cooling_1_Heating_Status	1/0/18 1 bi	: C	R	- T	 cooling/heating 	ig Low
	■ ‡ 60	Status Fan Speed / 3 Speeds [DPT 5.001]	33%-Speed1, 67%-Speed2, 100%-Spe	Living room Airconditioning Fan Speed Status	1/0/8 1 by	te C	R	- T	 percentage (0 	10Low
■2 1: Control On/Off [DPT_1.001] - 0	■ 2 66	Status Vanes U-D/5Pos [DPT 5.001]	20%-Pos1, 40%-Pos2, 60%-Pos3, 80%	Living room Airconditioning Control Vanes Status	1/0/9 1 by	te C	R	- T	 percentage (0 	10Low
2: Control Mode [DPT_20.105] - 0	2 75	Status AC Setpoint Temp [DPT 9.001]	°C	Living room Airconditioning Setpoint Temperature Status	1/0/10 2 b	tes C	R	- T	- temperature (C) Low
3: Control Mode Cool/Heat [DPT_1	■2 76	Status AC Return Temp [DPT 9.001]	°C	Living room Airconditioning Return Temperature Status	1/0/11 2 b	tes C	R	- T	- temperature (C) Low
12: Control Fan Speed/3 Speeds [D	2 77	Internal probe temperature [DPT 9.001]	°C	Living room Airconditioning Internal probe temperature	1/0/12 2 b	tes C	R	- T	- temperature ('C) Low
■Z 18: Control Vanes U-D/5 pos [DPT	■ 2 78	External probe temperature [DPT 9.001]	°C	Living room Airconditioning External probe temperature	1/0/13 2 b	/tes C	R	- T	 temperature (C) Low
	# # 81	Status Error/Alarm [DPT 1.005]	0-No Alarm, 1-Alarm	Living room Airconditioning Error/Alarm_status	1/0/14 1 bi	e C	R	- т	- alarm	Low
27: Control Setpoint Temperature [2 82	Error text code [DPT 16.001]	ASCII String	Living room Airconditioning Error_text_code	1/0/15 14 b	ytes C	R	- T	- Character Stri	ig Low
51: Status On/Off [DPT_1.001] - 0	# # 83	Status Operation Hour Counter [DPT 13.100]	Number of operating hours	Living room Airconditioning Operation hour counter	1/0/16 4 b	tes C	R	- т	 time lag (s) 	Low
52: Status Mode [DPT_20.105] - 0										
53: Status Mode Cool/Heat [DPT 1										
■	< Group O	hierts Parameters								>



17.4 Example: Ventilation

YOUVI currently supports ventilation systems through which the following parameters can be viewed and controlled:

Control

- Auto mode
- Ventilation preset (level)
- Ventilation Mode: boost
- Setpoint temperature

Status

- Auto mode
- Air quality (CO₂ value)
- Filter change
- Air humidity
- Ventilation status (%)
- Ventilation preset (level)
- Room temperature
- Setpoint temperature
- Ventilation Mode: boost



To display the widget, at least the ventilation preset, i.e. the ventilation level, must be entered or assigned a group address in the ETS. If the other values are also assigned with group addresses, these are also parsed, provided they contain the following data types:

Auto mode, write; Enable 1.003



- Auto mode, status; Enable 1.003
- CO2 value, status; parts/million (ppm) 9.008
- Filter Change; Boolean 1.002
- Humidity; Humidity (%) 9.007
- Ventilation status; Percent (0...100%) 5.001
- Ventilation preset, write; Counter pulses 5.010
- Ventilation preset, status; Counter pulses 5.010
- Room temperature; Temperature (°C) 9.001
- Setpoint temperature, write; temperature (°C) 9.001
- Setpoint temperature, status; temperature (°C) 9.001
- Ventilation Boost, write; trigger 1.017
- Ventilation Boost, status; switch 1.001

In the ETS, the actuator would be configured as follows. In this example the ComfoConnect from Zehnder is used:

👩 Close Project 🖌 Undo 🛝 Redo	Reports	Workplace • 🚺 Catalogs	Diagnostics					
uildings *							∧ □	× Properties
• Add Building Parts 🔹 🗙 Delete ± Down	load 💌 🌖 I	nfo 🔹 👩 Reset 🤌 Uniload 💌 🚔 Print					Search J	° 🍈 🖵 🌔
Buildings	* Numb	er * Name	Object Function	Description	Group Address	Length C R W T U Data Type	Priority	Settings Comm Infor
Dynamic Folders	# 2 1	Ventilation Preset	Status	Ventilation Preset Feedback	0/0/2	1 byte C R - T - 8-bit unsigned value, counter pulses (0.255)	Low	^ Name
Building	# 2 2	Ventilation Preset (set)	Control	Ventilation Preset Write	0/0/1	1 byte C - W T U 8-bit unsigned value, counter pulses (0.255)	Low	Zehnder ComfoConnect KNX C
	210	Ventilation Preset Away [switch]	Status			1 bit C R - T - 1-bit switch	Low	
Floor1	2 11	Ventilation Preset Away [switch] (set)	Control			1 bit C - W T U 1-bit switch	Low	Individual Address
Room1	# 2 14	Ventilation Preset 1 (switch)	Status			1 bit C R - T - 1-bit switch	Low	1.1 1 C P
1.1.1 Zehnder ComfoConnect KNX C	#2hs	Ventilation Preset 1 [switch] (set)	Control			1 bit C - W T U 1-bit switch	Low	Description
Trades	# 218	Ventilation Preset 2 (switch)	Status			1 bit C R - T - 1-bit switch	Low	
induca.	2 19	Ventilation Preset 2 (switch) (set)	Control			1 bit C - W T U 1-bit switch	Low	
	22	Ventilation Preset 3 (switch)	Status			1 bit C R - T - 1-bit switch	Low	
	223	Ventilation Preset 3 (switch) (set)	Control			1 bit C - W T U 1-bit switch	Low	
	z 30	Auto mode	Status	Ventilation Auto Mode Feedback	0/0/4	1 bit C R - T - 1-bit enable	Low	Last Modified 16.08.20
	= 2 31	Auto mode (set)	Control	Ventilation Auto Mode Victe	0/0/3	1 bit C - W T U 1-bit enable	Low	Last Downloaded -
	32	Temperature profile mode	Status	Vendadon Add Mode Write	0/0/3	1 byte C R - T - 8-bit unsigned value, counter pulses (0.255)	Low	Serial Number -
	233	Temperature profile mode (set)	Control			1 byte C - W T U 8-bit unsigned value, counter pulses (0.255)	Low	
	4 33	Temperature profile	Status			1 byte C - W I U 8-bit unsigned value, counter pulses (0.255) 1 byte C R - T - 8-bit unsigned value, counter pulses (0.255)	Low	Status
	Z 35		Control			1 byte C + W T U 8-bit unsigned value, counter pulses (0.255) 1 byte C - W T U 8-bit unsigned value, counter pulses (0.255)	Low	Unknown
		Temperature profile (set)						
	2 36	External setpoint [*C]	Status	Ventilation Temperature Feedback	0/0/11	2 bytes C R - T - 2-byte float value, temperature ("C)	Low	
	2 37	External setpoint [*C] (set)	Control	Ventilation Temperature Write	0/0/10	2 bytes C - W T U 2-byte float value, temperature ("C)	Low	
	2 44	Boost	Status	Ventilation Boost Mode Feedback	0/0/6	1 bit C R - T - 1-bit, switch	Low	
	Z 45	Boost (set)	Control	Ventilation Boost Mode Write	0/0/5	1 bit C - W T U 1-bit, trigger	Low	
	2 46	Boost time	Status			2 bytes C R - T - 2-byte unsigned value, time (s)	Low	
	2 47	Boost time (set)	Control			2 bytes C - W T U 2-byte unsigned value, time (s)	Low	
	#‡ 48	Away function	Status			1 bit C R - T - 1-bit, switch	Low	
	# 2 49	Away function (set)	Control			1 bit C - W T U 1-bit, switch	Low	
	2 50	ComfoCool	Status			1 bit C R - T - 1-bit, switch	Low	
	#‡ 51	ComfoCool (set)	Control			1 bit C - W T U 1-bit, switch	Low	
	# # 52	Standby	Status			1 bit C R - T - 1-bit, switch	Low	
	## 53	ComfoHood	Status			1 bit C R - T - 1-bit, switch	Low	
	■‡ 60	Error	Status			1 bit C R - T - 1-bit, boolean	Alarm	
	■ # 61	Filter replace [h]	Status			2 bytes C R - T - 2-byte unsigned value, time (h)	Low	
	# 2 62	Filter dirty	Status	Ventilation Filter Dirty Feedback	0/0/7	1 bit C R - T - 1-bit, boolean	High	
	# 2 70	Airflow [/h]	Sensor			2 bytes C R - T - 2-byte float value, volume flow (I/h)	Low	
	1 73	Room temperature [*C]	Sensor	Ventilation Room Temperature Feedback	0/0/9	2 bytes C R - T - 2-byte float value, temperature (*C)	Low	
	2 74	Extract temperature [*C]	Sensor			2 bytes C R - T - 2-byte float value, temperature (*C)	Low	
	275	Exhaust temperature ["C]	Sensor			2 bytes C R - T - 2-byte float value, temperature (*C)	Low	
	276	Outdoor temperature [*C]	Sensor			2 bytes C R - T - 2-byte float value, temperature (*C)	Low	Find and Replace
	277	Supply temperature [*C]	Sensor			2 bytes C R - T - 2-byte float value, temperature (*C)	Low	
	Z 103	Room humidity [%]	Sensor	Ventilation Humidity Feedback	0/0/8	2 bytes C R - T - 2-byte float value, humidity (%)	Low	Workspaces
	Z1104	Extract humidity [%]	Sensor			2 bytes C R - T - 2-byte float value, humidity (%)	Low	0
	Z 105	Exhaust humidity [%]	Sensor			2 bytes C R - T - 2-byte float value, humidity (%)	Low	O Todo Items
	2106	Outdoor humidity [%]	Sensor			2 bytes C R - T - 2-byte float value, humidity (%)	Low	Pending Operation
		Contraction manufactory [14]				2 bytes C R - T - 2-byte hole value, normony (ve)		v

In this example there is no CO2 value in the actuator configuration. Here, an external CO2 sensor can additionally be used for the display in the widget.

Air quality

The ventilation traffic light is used to display the air quality in the room:

	Carbon dioxide	Ventilation traffic light	Hygienic evaluation	Recommendations
--	-------------------	------------------------------	------------------------	-----------------



	concentration (ppm)			
Concentrations under 1000 ppm carbon dioxide in indoor air: Uncritical	<1000	Green	Hygienically uncritical (target value)	No further measures
Concentrations 1000 to 2000 ppm: Critical	1000 to 2000	Yellow	Hygienically critical	Ventilation measures (increase external air quality/air exchange Check and improve ventilation behavior
Concentrations over 2000 ppm: Unacceptable	>2000	Red	Hygienically unacceptable	Check ventilation options of room. Check possible further measures

17.5 Example: RGBW

YOUVI Visu supports RGB lights and RGBW lights. Two different widgets are available for those device types:

TV board	ද්දා	TV board	ŝ
	70%		70%

In the case of the RGBW widget (left), the white channel can be controlled separately (blue slider). The orange slider is used to dim the remaining channels (RGB).

The following table shows all supported RGB(W) setups. On the right-hand side, the communication objects are listed that must at least be present for parsing* RGB lights. The important thing here is to use the data types and flags as listed in the table. Bold text is text that must appear in the group address designation to distinguish the channels.

Subsequently, it is shown for each setup which group addresses can be optionally assigned and an example implementation in the ETS is shown.

*If the group addresses are created and linked as described, a widget is created for each RGB light and the associated group addresses are automatically taken over from the ETS project for the widget.



RGB(W) types	Required group objects	Write	Read
<u>Single</u> 232.600	1.001 Switching, write	Yes	
<u>channel</u>	1.001 Switching, feedback		Yes
	232.600 Color, write	Yes	
	232.600 Color, feedback		Yes
	5.001 Brightness absolute, write	Yes	
<u>Single</u> 232.600	1.001 Switching, write	Yes	
<u>channel for</u> writing only	232.600 Color, write	Yes	
	5.001 Brightness red, feedback		Yes
	5.001 Brightness blue, feedback		Yes
	5.001 Brightness green, feedback		Yes
	5.001 Brightness absolute, write	Yes	
<u>Multiple 5.001</u> <u>channels</u>	Contained objects: 4 objects per color, max. 20 objects, e.g.: 1.001 Switching write, red	Yes	
	1.001 Switching feedback, red		Yes
	5.001 Brightness absolute, write, red	Yes	
	5.001 Brightness absolute, feedback, red		Yes
	 Green, blue and white analogously		
Single XY 242.600	1.001 Switching write	Yes	
<u>channel</u>	1.001 Switching feedback		Yes
	242.600 colour xy write	Yes	
	242.600 colour xy feedback		Yes



RGB(W) types	Required group objects	Write	Read
HSV Control	1.001 Switching write	Yes	
	1.001 Switching feedback		Yes
	5.003 Hue (H), dim abs., write	Yes	
	5.003 Hue (H), dim abs., feedback		Yes
	5.001 Saturation (S), dim abs., write	Yes	
	5.001 Saturation (S), dim abs., feedback		Yes
	5.001 Brightness (V), dim abs., write	Yes	
	5.001 Brightness (V), dim abs., feedback		Yes
<u>Single</u> 251.600	1.001 Switching write	Yes	
<u>channel</u>	1.001 Switching feedback		Yes
	251.600 colour write	Yes	
	251.600 colour feedback		Yes

Single 232.600 channel (RGB only)

Contained objects:

- 1.001 Switching, write
- 1.001 Switching, feedback
- 232.600 Color, write
- 232.600 Color, feedback
- 3.007 Brightness relative, write (optional)
- 5.001 Brightness absolute, write

This RGB type can be implemented in the ETS as follows:

	keports 🔤 Workp	ace *	Catalogs Piagnostics											
Buildings *											~ □ ×	Properti	es	
🕨 Add Channels 🐑 🗙 Delete 🔮 Download 💌 (🚺 Info 🔹 🧖 Reset	² / ₂ Unload	* 🖨 Print							Search	ρ	0	— (
Buildings	•	Numbe	r * Name	Object Function	Description	G	iroup Address	Length C R W	τU	Data Type	Priority	Settings	Comments Inform	
i Dynamic Folders		2 50	Channel D	Dim relatively				4 bit C - W		dimming control	Low ^	Name		
R Building		51	Channel D	Dim absolutely				1 byte C - W		percentage (0100%)	Low	AKD-0424R.02	RGBW Single 232.600 cl	hannel
4 📑 1st floor		2 52	Channel D	State On/Off				1 bit C R -	T	state	Low	Individual Ad	drace	
A Room1		2 53	Channel D	State of dimming value						percentage (0100%)	Low		1.0 1	Park
		56	Channel D	Block state				1 bit C R -			Low			
Control cabinet		64	LED RGB / HSV / TW	Switch	Single 232.600 channel RGB switch			1 bit C - W		switch	Low	Description		
I.0.1 AKD-0424R.02 RGBW Single 232.600 ch		266	LED RGB	Color setting	Single 232.600 channel RGB value	5/0				RGB value 3x(0255)	Low			
🖻 📗 1.0.2 LUMENTO X4 Single 232.600 channel w		2 67	LED HSV	Color setting						RGB value 3x(0.255)	Low			
I.0.3 AKD-0424V.02 LED Controller 4 Kanāle/		2 68	LED HCV Hue (H)	Dim absolutely				1 byte C - W			Low			
1.0.4 LUMENTO X3		₹ 69 ₹ 70	LED HSV Saturation (S)	Dim absolutely						percentage (0100%)	Low	Last Modified	08.06.2022 10:59	
1.0.5 LUMENTO X4			LED HSV Brightness (V)	Dim absolutely	Single 232.600 channel RGB brightness abs	5/0				percentage (0100%)	Low	Last Downloa	ded -	
-		271	LED HCV Hue (H)	Dim relatively						dimming control	Low	Serial Numbe	· ·	
I.0.6 AKD-0424R.02 TW		72	LED HSV Saturation (S)	Dim relatively						dimming control	Low			
🕅 Trades		73	LED HSV Brightness (V)	Dim relatively	Single 232.600 channel RGB brightness rel					dimming control	Low	Status		
		280 281	LED RGB / HSV / TW	State On/Off	Single 232.600 channel RGB switch feedbac			1 bit C R -			Low	Unknown		
			LED RGB		Single 232.600 channel RGB value feedback	5/0				RGB value 3x(0.255)	Low			
		리 82 리83	LED HSV	3Byte State of dimmin						RGB value 3x(0255)	Low			
		7 83 7 84	LED HSV Hue (H)	State of dimming value						angle (degrees)	Low			
		2 85	LED HSV Saturation (S)	State of dimming value						percentage (0100%)	Low			
		2 139	LED HSV Brightness (V)		Single 232.600 channel RGB brightness abs	sta 5/0				percentage (0100%)	Low			
			Central	Current alarm				1 bit C - W		alarm	High			
		루 140 루 143	Central	Overtemperature alarm				1 bit C - W 1 bit C R -			High			
		2 144	Central	State of 12/24V power.							Low			
		2 144 2 145	Time	Receive				3 bytes C - W			Low			
		2 145 2 146	Date Date/Time	Receive				3 bytes C - W			Low			
		2 146 2 147		Send State				8 bytes C - W			Low			
			Operation					1 bit C R -			Low			
		148	Day/Night	Receive				1 bit C - W	τU	boolean	Low 🗸			
		<pre>Group Obj</pre>	ects Parameters								,			
Group Addresses *											• • ×			
🖡 Add Group Addresses 👻 🗙 Delete 🛨 Downloa	d • 🕕 Info • 🕤	Reset 🤣	Unload 🔹 🚔 Print							Search	ρ			
1 5 RGBW ^	Address	Name *		Description	Cent	ra Pass '	T Data Type	L	ength	No. of Last Value				
4 88 5/0 MDT	B 5/0/3	Multiple	5.001 channels red switch feedback		No	No	state	18	oit .	1	^			
5/0/0 Multiple 5.001 channels red switch	88 5/0/17		5.001 channels white brightness abs		No	No	percentage (01	00%) 1 t	yte	1		🔎 Find and	Replace	
	B 5/0/19		5.001 channels white brightness abs feedback		No		percentage (01		oyte	1				
Do 5/0/1 Multiple 5.001 channels red brighth	ES 5/0/16		5.001 channels white brightness rel		No	No	dimming contro			1		Worksp.	aces	
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5/0/4 Multiple 5.001 channels red brightn	5/0/24	Single 23	2.600 channel RGB brightness abs		No	No	percentage (01	00%) 1 t	oyte	1		Pending	Operations	
5/0/5 Multiple 5.001 channels green switch	Group Addresses											🖍 Undo H	story	
YOUVI (10.11.12.34:3671)	+ 10 Main line			1.0.1 AKD-0424R.02 RGBW Single								ed workspace		

Single 232.600 channel for writing only

Contained objects:

- 1.001 Switching, write
- 1.001 Switching, feedback (optional)
- 232.600 Color, write
- 5.001 Brightness white, write (optional)
- 5.001 Brightness white, feedback (optional)
- 5.001 Brightness red, feedback
- 5.001 Brightness blue, feedback
- 5.001 Brightness green, feedback
- 3.007 Brightness relative, write (optional)
- 5.001 Brightness absolute, write
- 5.001 Brightness absolute, feedback (optional)

This RGB type can be implemented in the ETS as follows:

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Buildings *							^	×	Properties		
🕨 Add Channels 🔹 🗙 Delete ± Download 🔹 🌗	🖡 Info 🔹 💋 Reset 🛛 🦑 Un	load * 🖨 Print					Search	Q.	8		1
Buildings	* Nu	umber * Name	Object Function	Description	Group Address	Length C R W T U	Data Type	Priority	Settings	Comments I	Information
E Dynamic Folders	1 2	Dimming	4 bits dimmer ctrl	Single 232.600 writing channel Brightness relative	5/1/8	4 bit C - W d	imming control	Low	Name		
Building	# 2 13	Precise Dimming	1 byte dimmer ctrl	Single 232.600 writing channel Brightness absolute	5/1/7	1 byte C - W p	ercentage (0100%)	Low	LUMENTO X4 Sin	gle 232.600 cha	nnel write only
1st floor	#2 14	On/Off	0-Off; 1-On	Single 232.600 writing channel RGB Switching	5/1/20	1 bit C + W + + s	witch	Low	Individual Addre		
A Soom1	#2 15	[R] On/Off (Status)	0=Off; 1=On				witch	Low	Individual Addre		2 ‡ P
	■ 2 16	[G] On/Off (Status)	0=Off; 1=On			1 bit C R - T - s	witch	Low		1.0	2 + P
 Control cabinet 	2 17	[B] On/Off (Status)	0=Off; 1=On			1 bit C R + T + s	witch	Low	Description		
I.0.1 AKD-0424R.02 RGBW Single 232.600 cha		[W] On/Off (Status)	0=Off; 1=On			1 bit C R + T + s	witch	Low			
I.0.2 LUMENTO X4 Single 232.600 channel write	ite only	[R] Luminosity (Status)	0 - 100 %	Single 232.600 writing channel Brightness red, feedback	5/1/0	1 byte C R - T - p	ercentage (0100%)	Low			
1.0.3 AKD-0424V.02 LED Controller 4 Kanåle/F	=2 20	[G] Luminosity (Status)	0 - 100 %	Single 232.600 writing channel Brightness green, feedback	5/1/2	1 byte C R - T - p	ercentage (0100%)	Low			
_	· • 21	[B] Luminosity (Status)	0 - 100 %	Single 232.600 writing channel Brightness blue, feedback	5/1/1	1 byte C R - T - p	ercentage (0100%)	Low	Last Modified	08.06.2022	
I.0.4 LUMENTO X3	2 2	[W] Luminosity (Status)	0 - 100 %	Single 232.600 writing channel Brightness white, feedback	5/1/5	1 byte C R - T - p	ercentage (0100%)	Low	Last Modified		15:43
I.0.5 LUMENTO X4	1 23	On/Off (Status)	0=Off; 1=On	Single 232.600 writing channel RGB Switching, feedback	5/1/22	1 bit C R + T + s	witch	Low		d -	
I.0.6 AKD-0424R.02 TW	2 4	Luminosity (Status)	0 - 100 %			1 byte C R - T - p	ercentage (0100%)	Low	Serial Number		
Trades	# # 34	Dimming Speed 1	0%=Min. Speed; 100%.			1 byte C R W p	ercentage (0100%)	Low			
(1000)	# # 35	Dimming Speed 2	0%=Min. Speed; 100%.			1 byte C R W p	ercentage (0100%)	Low	Status		
	1	Direct Color	Color number (Scene 1			1 byte C R W		Low	Unknown		
	2 39	Color Shift	0-Stop, 1-Start			1 bit C - W s	art/stop	Low			
rroup Addresses *	Group	p Objects Parameters					~				
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Add Group Addresses * X Delete 👲 Download	Address Na	⁽³⁾ Unload * ⁽⁴⁾ Print ime * gle 232.600 writing channel Brightne			No No percentage	(0100%) 1 byte	Search No. of Last Value		Q End and B	201202	
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Add Group Addresses ▼ X Delete ★ Download 2 Weather station 2 Weather station 2 Weather station 2 S Temperature 2 A Shutters 2 S RGBW	I ▼ ① Info ▼ 2 Reset Address Na 85 5/V7 Sing 85 5/V3 Sing 85 5/V1 Sing	Unload Print Unload Print e Print e Print e Print ple 232.600 writing channel Brightn ple 232.600 writing channel Brightn ple 232.600 writing channel Brightn	ess absolute feedback ess blue, feedback		No No percentage No No percentage No No percentage	(0.100%) 1 byte (0.100%) 1 byte (0.100%) 1 byte	Search No. of Last Value		Find and R	1.00	
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Add Group Addresses * X Delete 🔶 Downback 88 2 Weather station 88 3 Temperature 88 4 Shutters 88 4 Shutters 88 5 RoBW 88 50 MDT	Address Na 88 5/1/7 Sing 88 5/1/3 Sing 88 5/1/3 Sing 85 5/1/2 Sing 85 5/1/2 Sing 85 5/1/0 Sing	Unload * Im Print # 232.600 writing channel Brightn Unload * Im Print # 232.600 writing channel Brightn Unload * 232.600 writing channel Brightn * * * * * * * * * * * * * * * * * * *	ess absolute feedback ess blue, feedback ess green, feedback ess red, feedback		No No percentage No No percentage No No percentage No No percentage No No percentage	(0100%) 1 byte	Search No. of Last Value 1 1 1 1		Workspace	5	
Add Group Addresss ◆ X Delete ◆ Connoc 82 2 Weather station 83 3 Temperature 84 3 Shutters 85 5 SnoW 88 5 Sn MOT 88 5 S1 Zennio	Address Na 88 5//7 Sing 85 5//7 Sing	Unload * (## Print me * Je 232.600 writing channel Brightin Je 232.600 writing channel Brightin	ess absolute feedback ess blue, feedback ess green, feedback ess red, feedback ess relative		No No percentage No No percentage No No percentage No No percentage No No percentage No No dimming c	(0100%) 1 byte (0100%) 1 byte	Search No. of Last Value 1 1 1 1 1 1 1		Workspace	5	
88 4 Shutters 8 88 5 RGBW 8 89 5/0 MDT 8 89 5/1 Zennio 8 89 7/1 Tunable White 8	Image Image Image Reset Address Na 88 5/1/7 Sing 88 5/1/3 Sing 88 5/1/3 Sing 88 5/1/3 Sing 85 5/1/2 Sing 85 5/1/2 Sing 85 5/1/8 Sing	Unload * Im Print # 232.600 writing channel Brightn Unload * Im Print # 232.600 writing channel Brightn Unload * 232.600 writing channel Brightn * * * * * * * * * * * * * * * * * * *	ess absolute feedback ess blue, feedback ess green, feedback ess red, feedback ess relative		No No percentage No No percentage No No percentage No No percentage No No percentage	(0100%) 1 byte (0100%) 1 byte	Search No. of Last Value 1 1 1 1		Workspace	s perations	

Multiple 5.001 channels

Contained objects; 5 objects per color:

• 1.001 Switching write, red

...

- 1.001 Switching feedback, red
- 3.007 Brightness relative, write, red (optional)
- 5.001 Brightness absolute, write, red
- 5.001 Brightness absolute, feedback, red

Green, blue and white analogously

This RGB(W) type can be implemented in the ETS as follows:

ETS5** - Projekt RGBW											- 0	
ETS Edit Workplace Commissioning Diagnost		-										^
👩 Close Project 🦨 Undo 🐴 Redo 🚔 F	Reports Workplace *	Catalogs 🔤 D	iagnostics									
Buildings *								▲ □	×	Properties		
🕂 Add Trades 🐑 🗙 Delete ± Download 🔹 🕕	Info 🔹 👩 Reset 🧳 Unioad	* 🚔 Print					Search		P	a	1	
Buildings	* Number	Name	Object Function	Description	Group A	ddress Length C	R W T U Dat	a Type	1 3	Settings Comments		
Dynamic Folders	■‡ 0	LED Red	Switch On/Off	Multiple 5.001 channels red switch	5/0/0	1 bit C -	W swite	h	Le ⁿ Na	me		
Building	#2 2	LED Red	Dim relatively	Multiple 5.001 channels red brightness relative	5/0/1	4 bit C -	W dimn	ning control	LC M	DT		
A 📑 1st floor	#2 3	LED Red	Dim absolutely	Multiple 5.001 channels red brightness abs	5/0/2	1 byte C -	W perce		LC Ad	dress		
4 [3] Raum1	2 4	LED Red	State On/Off	Multiple 5.001 channels red switch feedback	5/0/3	1 bit C R			Lc -	0 0		
	■2 5	LED Red	State of dimming value	Multiple 5.001 channels red brightness abs feedback	5/0/4	1 byte C R	- perei		Le			
4 🔄 Control cabinet	■ 2 16	LED Green	Switch On/Off	Multiple 5.001 channels green switch	5/0/5	1 bit C -	W swite		-	scription		
I.0.1 AKD-0424R.02 RGBW Single 232.600 ch		LED Green	Dim relatively	Multiple 5.001 channels green brightness relative	5/0/6	4 bit ⊂ -	W dimn		Lo			
🖻 📗 1.0.2 LUMENTO X4 Single 232.600 channel w	write only	LED Green	Dim absolutely	Multiple 5.001 channels green brightness abs	5/0/7	1 byte C -	W perce		Lc			
I.0.6 AKD-0424R.02 RGBW Multiple 5.001 ch	nannels	LED Green LED Green	State On/Off	Multiple 5.001 channels green switch feedback	5/0/8 5/0/9	1 bit C R	1 2000		Le			
* Trades	■2 21 ■2 32	LED Green	State of dimming value Switch On/Off	Multiple 5.001 channels green brightness abs feedback Multiple 5.001 channels blue switch	5/0/9	1 byte C R 1 bit C -	W swite			Pass through Line Couple	er	
	■+ 32 ■ 2 34	LED Blue	Dim relatively	Multiple 5.001 channels blue switch Multiple 5.001 channels blue brightness rel	5/0/10	4 bit C -	W switc W dimn		Lc Sec	curity		
	■ # 34 ■ # 35	LED Blue	Dim absolutely	Multiple 5.001 channels blue brightness abs	5/0/12		W perce		Le Au	utomatic		
	■ 	LED Blue	State On/Off	Multiple 5.001 channels blue originities abs Multiple 5.001 channels blue switch feedback	5/0/12	1 bit C R			LC LC			
	■ ‡ 30	LED Blue	State of dimming value	Multiple 5:001 channels blue brightness abs feedback	5/0/14	1 byte C R			Lo			
	1 48	LED White	Switch On/Off	Multiple 5:001 channels white switch	5/0/15	1 bit C -	W swite		Le le			
	■ 2 50	LED White	Dim relatively	Multiple 5.001 channels white brightness rel	5/0/16		W dimn		Le			
	#2 51	LED White	Dim absolutely	Multiple 5.001 channels white brightness abs	5/0/17	1 byte C -	W perce		Le la			
	2 52	LED White	State On/Off	Multiple 5.001 channels white switch feedback	5/0/18	1bit C R	- T - state		Lo			
	1 53	LED White	State of dimming value	Multiple 5.001 channels white brightness abs feedback	5/0/19	1 byte C R	- T - perce	entage (0100%)	Lo			
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	Group Obje	ects Parameters										
Group Addresses -								^ □	×			
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🛨 Add Group Addresses 🛛 👻 Delete 🚽 Develop	ul 🔻 🙃 Info 🛪 🍙 Parat 🖉											
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Group Addresses	 Address * 	Name		Description		ss T Data Type	Length	No. of Last Valu	- I			
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Group Addresses	Address * Address * S/0/11 S/0/12 S/0/13	Name Multiple 5.001 channels Multiple 5.001 channels Multiple 5.001 channels	blue brightness abs blue switch feedback	Description	No No No No No No	dimming control percentage (0100%) state	Length 4 bit 1 byte 1 bit	No. of Last Valu	- I			
🛛 🔣 0 Light	 ✓ Address * 85 5/0/11 85 5/0/12 86 5/0/13 85 5/0/14 	Name Multiple 5.001 channels Multiple 5.001 channels Multiple 5.001 channels Multiple 5.001 channels	blue brightness abs blue switch feedback blue brightness abs feedback	Description	No No No No No No No No	dimming control percentage (0100%) state percentage (0100%)	Length 4 bit 1 byte 1 bit 1 byte	No. of Last Valu	- I			
Group Addresses Dynamic Folders Uight 1 Ventilation 2 Weather station	V Address * 80 5/0/11 83 5/0/12 85 5/0/13 85 5/0/14 85 5/0/15	Name Multiple 5.001 channels Multiple 5.001 channels Multiple 5.001 channels Multiple 5.001 channels Multiple 5.001 channels	blue brightness abs blue switch feedback blue brightness abs feedback white switch	Description	No No No No No No No No No No No No	dimming control percentage (0100%) state percentage (0100%) switch	Length 4 bit 1 byte 1 bit 1 byte 1 bit	No. of Last Valu	- I			
Group Addresses Dynamic Folders Olders Olders	✓ Address * S:0/11 S:0/12 S:0/12 S:0/13 S:0/14 S:0/14 S:0/15 S:0/16 S:0/16	Name Multiple 5.001 channels Multiple 5.001 channels Multiple 5.001 channels Multiple 5.001 channels Multiple 5.001 channels Multiple 5.001 channels	blue brightness abs blue switch feedback blue brightness abs feedback white switch white brightness rel	Description	No No	dimming control percentage (0100%) state percentage (0100%) switch dimming control	Length 4 bit 1 byte 1 bit 1 byte 1 bit 4 bit	No. of Last Valu 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- I			
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Group Addresse Gooup Addresse Goup Address Ouph Ouph Sources Venders ration Sources A Shorters S 3 Security	Address Address South South	Name Multiple 5.001 channels Multiple 5.001 channels Multiple 5.001 channels Multiple 5.001 channels Multiple 5.001 channels Multiple 5.001 channels Multiple 5.001 channels	blue brightness abs blue switch feedback blue brightness abs feedback white switch white switch white brightness abs white switch feedback white brightness abs feedback RGB switch	Description	No No	dimming control percentage (0100%) state percentage (0100%) switch dimming control percentage (0100%) state percentage (0100%)	Length 4 bit 1 byte 1 bit 1 bit 4 bit 4 bit 1 byte 1 bit	No. of Last Valu 1 1 1 1 1 1 1 1 1 1 1 1 1	•			
Group Addresses Group Addresses Go Uphn S0 Uphn S1 UphnIation S2 J Temperature S3 J Temperature S4 Shutters S5 Shutters S5 Shutters	Address * 85 Sn/11 85 Sn/12 85 Sn/12 85 Sn/12 85 Sn/12 85 Sn/12 85 Sn/14 85 Sn/15 85 Sn/16 <	Name Multiple 5.001 channels Multiple 5.001 channels Multiple 5.001 channels Multiple 5.001 channels Multiple 5.001 channels Multiple 5.001 channels Multiple 5.001 channels Single 232.600 channel	blue brighness abs blue witch feedback blue brighness abs feedback white brighness rel white brightness abs white brightness abs white brightness abs feedback RGB witch RGB witch	Description	No No	dimming control percentage (0.100%) state percentage (0.100%) switch dimming control percentage (0.100%) state percentage (0.100%) switch	Length 4 bit 1 byte 1 bit 1 byte 1 bit 4 bit 1 byte 1 bit 1 byte 1 bit 1 byte 1 bit	No. of Last Valu 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Workspaces		
Group Addresset Torum: Folders B Outprit B Uspit B S Wather Mathematics B S Addresset B M 12 Amin	Address * Sonn1 Sonn2 Sonn2 Sonn2 Sonn3 Sonn4 Sonn4 Sonn4 Sonn5 Sonn5 Sonn5 Sonn5 Sonn6 Sonn8 Sonn8	Name Multiple 5.001 channels Multiple 5.001 channels Multiple 5.001 channels Multiple 5.001 channels Multiple 5.001 channels Multiple 5.001 channels Multiple 5.001 channels Single 232.600 channel Single 232.600 channel	blue brightness abs blue svitch feedback blue brightness abs feedback where winch white brightness rel white svitch feedback where switch feedback RGS switch RGS switch RGS switch	Description	No No	dimming control percentage (0100%) state percentage (0100%) switch dimming control percentage (0100%) state percentage (0100%) switch RGB value 3x(0.255)	Length 4 bit 1 byte 1 bit 4 bit 4 bit 1 byte 1 bit 1 byte 1 bit 1 byte 1 bit 3 bytes	No. of Last Value 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
Group Addresse Group Addresse Governme Folders Solution	Address * Address * Sonn1 Sonn2 Sonn2 Sonn3 Sonn3 Sonn4 Son	Name Multiple 5.001 channels Multiple 5.001 channels Single 232.600 channel Single 232.600 channel	blue brightness aks blue switch feedback blue switch feedback whete switch whete brightness als whete brightness als whete brightness abs methal switch eredback whete brightness abs feedback RGB switch RGB switch RGB switch RGB switch	Description	No No	dimming control percentage (0.100%) state percentage (0.100%) switch dimming control percentage (0.100%) state percentage (0.100%) switch RGB value 34(0.255) state	Length 4 bit 1 byte 1 bit 1 byte 1 bit 4 bit 1 byte 1 bit 1 byte 1 bit 3 bytes 1 bit	No. of Last Value 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	• • •	Workspaces	s	
Group Addresse Group Addresse Governme Folders Solution	Address * Address * Address * S 5/0/1 S/0/2 S/0/2 S/0/2 S/0/2 S/0/7 S/0/7 S/0/7 S/0/7 S/0/7 S/0/7 S/0/2 S/0/2 S/0/2 S/0/2 S/0/2	Name Mutiple 5.001 channels Mutiple 5.001 channels Single 222.000 channel Single 222.000 channel	blue brightness aks blue switch feedback blue switch feedback whete switch whete brightness als whete brightness als whete brightness abs methal switch eredback whete brightness abs feedback RGB switch RGB switch RGB switch RGB switch	Description	No No No No	dimming control percentage (0.100%) state percentage (0.100%) switch dimming control percentage (0.100%) state percentage (0.100%) state RGB value 3x(0.255) state RGB value 3x(0.255)	Length 4 bit 1 byte 1 bit 4 bit 4 bit 1 byte 1 bit 1 byte 1 bit 1 byte 1 bit 3 bytes 1 bit 3 bytes			Workspaces Todo Items	s	

Single XY 242.600 channel

The communication objects that must be available for parsing the group addresses for an RGB widget are listed below. To ensure successful parsing, the data types and flags (write flag for write address and read flag for feedback address) must be present as shown below.

- 1.001 Switching write
- 1.001 Switching feedback
- 5.001 Brightness, write
- 5.001 Brightness, feedback
- 242.600 colour xy write
- 242.600 colour xy feedback

This RGB type can be implemented in the ETS as follows:

ETSS TM - YOUVI Best Practice EN-4-4 ETS Edit Workplace Commissioning Diagnostics Apps Window								- 0
👩 Close Project 💉 Undo 🔷 Redo 🚔 Reports 📰 Workplace	• 📄 Catalogs 📰	Diagnostics						
kuildings 🔻							▲	Properties
Add Buildings 👻 🗙 Delete 붗 Download 🔹 🚯 Info 🔹 幻 Reset 🔗	Unload 🔹 🖮 Print					Sea	rch 🖉	â 🖵 🐧
Ima room	Number *	Name	Object Function	Description	Group Address	Length C R W T U Data Type	Priority	Settings Comments Inform
Ground floor	#‡ 46	Effect Number	Start/Stop			1 byte C - W	Low ^	Name
	1 2 47	G1, Switching,	On/Off	Bedroom RGB switch	6/1/23	1 bit C - W switch	Low	G1, Colour XY,
E Car Bathroom	#2 48	G1, Dimming,	Dim relative			4 bit C - W dimming control	Low	Description
Bedroom	#‡ 49	G1, Set Value,	Dim absolute	Bedroom RGB dimming abs	6/3/11	1 byte C - W percentage (0100%)	Low	Bedroom BGB Color
E Corridor	#‡ 52	G1, Status,	Status On/Off	Bedroom RGB switch status	6/1/24	1 bit C R - T - switch	Low	
A Living room/kitchen	■‡ 53	G1, Status,	Status of dimming value	Bedroom RGB dimming abs status	6/3/10	1 byte C R - T - percentage (0100%)	Low	
A Office	#‡ 54		Failure status of DALI ECG			1 bit C R - T - alarm	Low	
	1 7 57	G1, Colour XY,	Colour setting	Bedroom RGB Color	6/0/0	6 bytes C - W colour xyY	Low	Priority
4 🚈 Sub-distribution	#2 69	G1, Colour XY,	Status of dimming value	Bedroom RGB Color Status	6/0/1	6 bytes C R - T - colour xyY	Low	Low
4 🔄 Control Cabinet	2 79	G2, Switching,	On/Off			1 bit C - W switch	Low	Flags
I.1.1 Dimming actuator, 4-gang	#‡ 80	G2, Dimming,	Dim relative			4 bit C - W dimming control	Low	Communication
1.1.2 JAL-0810D.02 Shutter Actuator 8-fold 85U 24VDC 8A	■ ‡ 81	G2, Set Value,	Dim absolute			1 byte C - W percentage (0100%)	Low	Read
1.1.3 AKU-0816.02 Universal Actuator 8-fold 16A 230VAC	≡‡ 84	G2, Status,	Status On/Off			1 bit C R - T - switch	Low	✓ Write
-	■ ‡ 85	G2, Status,	Status of dimming value			1 byte C R - T - percentage (0100%)	Low	Transmit
I.1.5 AKH-0800.02 Heating actuator 8-fold, 4TE,24/230VAC	#‡ 86	G2, Failure Status,	Failure status of DALI ECG			1 bit C R - T - alarm	Low	Update Read On Init
I.1.6 AKD-0424V.02 RGBW LED Controller	#‡ 89	G2, Colour RGBW	Colour setting			6 bytes C - W RGBW value 4x(0100%)	Low	
I.1.7 AKD-0424R.02 RGBW LED Controller, MDRC	2 101	G2, Colour RGBW	Status of dimming value			6 bytes C R - T - RGBW value 4x(0100%)	Low	Data Type
1.1.15 AKD-04248.02 RGBW LED Controller_MDBC	=2 111	G3, Switching,	On/Off			1 bit C - W switch	Low	219.* alarm info 219.001 alarm info
1.1.16 Zehnder ComfoConnect KNX C	■ ‡ 112	G3, Dimming,	Dim relative			4 bit C - W dimming control	Low	222.* 3x 2-byte float value
	= ‡ 113	G3, Set Value,	Dim absolute			1 byte C - W percentage (0100%)	Low	222,100 room temperature setpoint
I.1.17 AKD-0424R.02 RGBW LED Controller, MDRC	■ # 116	G3, Status,	Status On/Off			1 bit C R - T - switch	Low	222.101 room temperature setpoint s
I.1.18 AKD-0424R.02 RGBW LED Controller, MDRC	2 117	G3, Status,	Status of dimming value			1 byte C R - T - percentage (0100%)	Low	229.* 4-1-1 byte combined information
I.1.21 AKD-0424R.02 RGBW LED Controller, MDRC	# 2 118		Failure status of DALI ECG			1 bit C R - T - alarm	Low	229.001 metering value (value, encodi
1.1.23 DALI Control Pro64 Gateway	#2 143	G4, Switching,	On/Off			1 bit C - W switch	Low	235.* Signed value with classification and 235.001 electrical energy with tariff
> The Terrace/Balcony	#2 144	G4, Dimming,	Dim relative			4 bit C - W dimming control	Low	235.001 electrical energy with tariff 242.* status
	■‡ 145	G4, Set Value,	Dim absolute			1 byte C - W percentage (0100%)	Low	242,600 colour xvY
Trades	 Group Objects 	Channels /	Parameters					245.* Converter test result
roup Addresses *							∧ □ ×	245.600 DALI converter test result
	0							249.* brightness colour temperature tran
• Add Group Addresses * 🗙 Delete 붗 Download * 🍈 Info * 🙍 Res	et 😗 Unload * 🗎 Prin					Sea	rch 🔎	249.600 brightness colour temperatu 251.* Colour RGBW
	Name		Descri C	entra Pass T Data Type Length	No. of Last Value			251.600 RGBW value 4x(0, 100%)
BE 6 RGBW BE 6/3/1	Corridor RGBW dimmin	o abs status	N		1		^	
88 6/0 Color 88 6/3/2	RGBW Bathroom Red d		N		1			4

HSV(W) Control

The communication objects that must be available for parsing the group addresses for an RGB(W) widget are listed below. For step-by-step dimming of the channels, e.g. via speech, the write addresses for "Dimming control" can optionally be assigned. To ensure successful parsing, the data types and flags (write flag for write address and read flag for feedback address) must be present as shown below. Bold text is text that must appear in the group address designation to distinguish the channels.

- 1.001 Switching, writing
- 1.011 Switching, feedback
- 5.003 Colour (H), dim abs., write
- 3.007 Colour (H), dim rel., write (optional)
- 5.003 Colour (H), dim abs., feedback
- 5.001 Saturation (S), dim abs., write
- 3.007 Saturation (S), dim rel., write (optional)
- 5.001 Saturation (S), dim abs., feedback
- 5.001 Brightness (V), dim abs., write
- 3.007 Brightness (V), dim rel., write (optional)
- 5.001 Brightness (V), dim abs., feedback
- 5.001 White, dim abs. (optional)
- 5.001 White, dim abs., feedback (optional)

This RGB(W) type can be implemented in the ETS as follows:



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Int Four	^ Number *	Name	Object Function	Description	Group Address	Length C R W T U Data Type	Priority	Settings	Comments	Informati
	2 35	LED Blue	Dim absolutely			1 byte C - W percentage (0100%)	Low	Name		
Ground floor	2 36	LED Blue	State On/Off			1 bit C R - T - state	Low	AKD 0434R03	RGBW LED Cont	coller MD
Eg Bathroom	2 37	LED Blue	State of dimming value			1 byte C R - T - percentage (0100%)	Low			ouer, mor
Bedroom	2 48	LED White	Switch On/Off			1 bit C - W switch	Low	Individual Add		
Corridor	=2 50	LED White	Dim relatively			4 bit C - W dimming control	Low	1	.1 . 21 🗘	Park
Eiving room/kitchen	# 2 51	LED White	Dim absolutely	RGB TV-Board White dimming abs	6/3/5	1 byte C - W percentage (0100%)	Low	Description		
 A Office 	2 52	LED White	State On/Off			1 bit C R - T - state	Low			
	2 53	LED White	State of dimming value	RGB TV-Board White dimming abs status	6/3/6	1 byte C R - T - percentage (0100%)	Low			
4 🚈 Sub-distribution	2 64	LED RGBW / HSV.	Switch	RGB TV-Board switch	6/1/33	1 bit C - W switch	Low			
Control Cabinet	2 66	LED RGB	Color setting			3 bytes C - W RGB value 3x(0255)	Low	Last Modified	17.01.2023	
I.1.1 Dimming actuator, 4-gang	■ 2 67	LED HSV	Color setting			3 bytes C - W RGB value 3x(0255)	Low	Last Download		12.947
1.1.2 JAL-0810D.02 Shutter Actuator 8-fold. 8SU. 24VDC. 8A	6 8	LED HCV Hue (H)		RGB TV-Board Hue (H) dimming abs	6/4/2	1 byte C - W angle (degrees)	Low	Serial Number		
1.1.3 AKU-0816.02 Universal Actuator 8-fold.16A.230VAC	2 69	LED HSV Saturati.		RGB TV-Board Saturation (S) dimming abs		1 byte C - W percentage (0100%)	Low	Serial Number		
-	= 2 70	LED HSV Brightn		RGB TV-Board Brightness (V) dimming abs		1 byte C - W percentage (0100%)	Low	Status		
1.1.5 AKH-0800.02 Heating actuator 8-fold, 4TE,24/230VAC	2 71	LED HCV Hue (H)		RGB TV-Board Hue (H) dimming rel	6/4/3	4 bit C - W dimming control	Low	Unknown		
I.1.6 AKD-0424V.02 RGBW LED Controller	1 72	LED HSV Saturati.			6/5/2	4 bit C - W dimming control	Low	oncount		
I.1.7 AKD-0424R.02 RGBW LED Controller, MDRC	2 73	LED HSV Brightn.			6/6/2	4 bit C - W dimming control	Low			
I.1.15 AKD-0424R.02 RGBW LED Controller, MDRC	2 80	LED RGBW / HSV.		RGB TV-Board switch Status	6/1/35	1 bit C R - T - state	Low			
1.1.16 Zehnder ComfoConnect KNX C	2 2 81	LED RGB	3Byte Status of dimming value			3 bytes C R - T - RGB value 3x(0.255)	Low			
1.1.17 AKD-0424R.02 RGBW LED Controller. MDRC	=2 82 =2 83	LED HSV	3Byte State of dimming value	RGB TV-Board Hue (H) dimming abs Status		3 bytes C R - T - RGB value 3x(0255)	Low			
1.1.18 AKD-0424R.02 RGBW LED Controller, MDRC	■2 83 ■2 84		State of dimming value State of dimming value	RGB TV-Board Hue (H) dimming abs Status RGB TV-Board Saturation (S) dimming abs S.		1 byte C R - T - angle (degrees) 1 byte C R - T - percentage (0100%)	Low			
	■2 84 ■2 85						Low			
I.1.21 AKD-0424R.02 RGBW LED Controller, MDRC	■2 85 ■2 139	LED HSV Brightn Central	State of dimming value Current alarm	RGB TV-Board Brightness (V) dimming abs S.		1 byte C R - T - percentage (0.100%) 1 bit C - W alarm	Low High			
I.1.23 DALI Control Pro64 Gateway	■2 139 ■2 140	Central	Overtemperature alarm			1 bit C - W alarm 1 bit C - W alarm	High High			
	2143	Central	State of 12/24V power supply			1bit C B - T - state	High Low			
Trades	Group Objects	Parameters	state of 12/24V power supply			For C n - I - state	LOW	-		

Single 251.600 channel

The communication objects that must be available for parsing the group addresses for an RGBW widget are listed below. For step-by-step dimming of the channels, e.g. via speech, the write addresses for "Dimming control" can optionally be assigned. To ensure successful parsing, the data types and flags (write flag for write address and read flag for feedback address) must be present as shown below.

- 1.001 Switching write
- 1.001 Switching feedback
- 251.600 colour write
- 251.600 colour feedback
- 3.007 Brightness relative, write (optional)

This RGBW type can be implemented in the ETS as follows:

ETS5 ^w - YOUVI Best Practice EN-4-4 ETS Edit Workplace Commissioning Diagnostics Apps Window								- a ×
Close Project 🖌 Undo 今 Redo 🚔 Reports 📰 Workplace	• Catalogs	Diagnostics						
Buildings -							∧ ₫ 🔀	Properties
🕂 Add Buildings 🔹 🗙 Delete 🔮 Download 🔹 🚯 Info 🔹 幻 Reset 🤌	Unload * 🚔 Print					Sear	ch 🔎	
Buildings	* Number *	Name	Object Function	Description	Group Address	Length C R W T U Data Type	Priority	Settings Comments Information
Dynamic Folders	2 79	G2, Switching,	On/Off	Corridor RGBW switch	6/1/39	1 bit C - W switch	Low	Name
WW YOUVI Best Practice	# 2 80	G2, Dimming,	Dim relative	Corridor RGBW dimming rel	6/2/0	4 bit C - W dimming control	Low	G2. Colour RGBW.
A Bouse	2 81	G2, Set Value,	Dim absolute			1 byte C - W percentage (0100%)	Low	Description
	#2 84	G2, Status,	Status On/Off	Corridor RGBW switch status	6/1/40	1 bit C R - T - switch	Low	Corridor RGBW Color
Ist floor	2 85	G2, Status,	Status of dimming value			1 byte C R - T - percentage (0100%)	Low	Corneo Room Coor
4 🚰 Ground floor	2 86	G2, Failure Status,	Failure status of DALI ECG			1 bit C R - T - alarm	Low	
Bathroom	12 89	G2, Colour RGBW	, Colour setting	Corridor RGBW Color	6/0/2	6 bytes C - W RGBW value 4x(0100%)	Low	
Bedroom	# 2 101	G2, Colour RGBW	Status of dimming value	Corridor RGBW Color status	6/0/3	6 bytes C R - T - RGBW value 4x(0100%)	Low	Priority
E Corridor	= ; 111	G3, Switching,	On/Off			1 bit C - W switch	Low	Low
Uving room/kitchen	112	G3, Dimming,	Dim relative			4 bit C - W dimming control	Low	Flags
	#Z 113	G3, Set Value,	Dim absolute			1 byte C - W percentage (0.100%)	Low	Communication
A Office	2 116	G3, Status,	Status On/Off			1 bit C R - T - switch	Low	Read
4 🐔 Sub-distribution	117	G3, Status,	Status of dimming value			1 byte C R - T - percentage (0100%)	Low	✓ Write
4 🔟 Control Cabinet	118		Failure status of DALI ECG			1 bit C R - T - alarm	Low	Transmit Update
1.1.1 Dimming actuator, 4-gang	1 43	G4, Switching,	On/Off			1 bit C - W switch	Low	Read On Init
1.1.2 JAL-0810D.02 Shutter Actuator 8-fold, 8SU, 24VDC, 8A	Z 144	G4, Dimming,	Dim relative			4 bit C - W dimming control	Low	Data Type
1.1.3 AKU-0816.02 Universal Actuator 8-fold 16A 230VAC	145	G4, Set Value,	Dim absolute			1 byte C - W percentage (0100%)	Low	219.ª alarm info
	1 48	G4, Status,	Status On/Off			1 bit C R - T - switch	Low	219.001 alarm info
II.1.5 AKH-0800.02 Heating actuator 8-fold, 4TE,24/230VAC	1 49	G4, Status,	Status of dimming value			1 byte C R - T - percentage (0100%)	Low	222.* 3x 2-byte float value
I.1.6 AKD-0424V.02 RGBW LED Controller	1 50		Failure status of DALI ECG On/Off			1 bit C R - T - alarm 1 bit C - W switch	Low	222.100 room temperature setpoint
I.1.7 AKD-0424R.02 RGBW LED Controller, MDRC	■2 175 ■2 176	G5, Switching,	On/Off Dim relative				Low	222.101 room temperature setpoint shit
1.1.15 AKD-04248.02 RGBW LED Controller_MDBC	2177	G5, Dimming, G5, Set Value	Dim relative Dim absolute			4 bit C - W dimming control	Low	229.* 4-1-1 byte combined information 229.001 metering value (value, encoding
1.1.16 Zehnder ComfoConnect KNX C	■====================================	G5 Status	Status On/Off			1 byte C - W percentage (0100%) 1 bit C R - T - switch	Low	235.* Signed value with classification and v
II.1.17 AKD-04248.02 RGBW LED Controller. MDRC	■ 2 181	G5, Status, G5, Status,	Status of dimming value			1 byte C R - T - switch 1 byte C R - T - percentage (0100%)	LOW	235.001 electrical energy with tariff
-	21182		Failure status of DALI ECG			1bit C R - T - alarm	Low	242." status
I.1.18 AKD-0424R.02 RGBW LED Controller, MDRC	2 207	G6, Switching,	On/Off			1bit C - W switch	Low	242.600 colour xyY 245.* Converter test result
I.1.21 AKD-0424R.02 RGBW LED Controller, MDRC	208	G6, Dimming,	Dim relative			4 bit C - W dimming control	Low	245.600 DALL converter test result
1.1.23 DALI Control Pro64 Gateway	209	G6, Set Value.	Dim relative Dim absolute			1 byte C - W percentage (0.100%)	Low	249.* brightness colour temperature transiti
Therrace/Balcony	212	G6 Status	Status On/Off			1 bit C R - T - switch	Low	249.600 brightness colour temperature t
* Trades	212	G6. Status,	Status of dimming value			1 byte C R - T - percentage (0100%)	Low	251.* Colour RGBW
A naves	2/214		Failure status of DALI ECG			1bit C R - T - alarm	Low	251.600 RGBW value 4x(0.100%)

Create an RGB(W)-Light manually

To create an RGB or RGBW light manually, change to the <u>Project Editor</u> or the Visualisation, the house overview and klick on Add > Device. Select "RGB(W) light" as device type.

17.6 Example: Temperature control

Temperature control via multiple setpoints

The "Multiple absolute setpoints" device type not only takes one setpoint as a basis, but allows each setpoint to be configured individually. In this category, 4 setpoints for heating (comfort, standby, night and frost protection) and/or 4 setpoints for cooling (comfort, standby, night and heat protection) can be defined.

Depending on the configuration in the ETS or the actuator used, 3 options are possible:

- Heating only
- Cooling only
- Heating and cooling.

In order to automatically parse these devices, the group objects must be assigned **certain data types**. These can be found in the following tables.

Since a distinction must be made between the temperature objects, depending on the function, certain words must be used in the **naming**. Upper and lower case is not relevant:

Differentiation according to cooling/heating: "cooling" or "heating".

Assignment of the HVAC mode: "comfort", "standby", "night", "protection"*

*via the terms "heating" or "cooling" in the name of the group address a distinction between frost and heat protection is made

Setpoint	Data point type	Write	Read
Comfort, Heating	9.001	Yes	
Comfort, Heating Status	9.001		Yes
Standby, Heating	9.001	Yes	
Standby, Heating Status	9.001		Yes
Night, Heating	9.001	Yes	
Night, Heating Status	9.001		Yes
Frost protection, Heating	9.001	Yes	
Frost protection, Heating Status	9.001		Yes
HVAC	20.102	Yes	
HVAC Status	20.102		Yes

Heating only:



Setpoint	Data point type	Write	Read
Current Temperature	9.001		Yes

Exemplary implementation in the ETS shown on a Berker Thermostat 8044 01 00:

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🕂 Add Devices 🔹 🗙 Delete 🛨 Download 🔹 🌗	🕽 Info 🔹 幻 Reset	🖗 Unload 🔹 🚔 Print					Search	P
Buildings	* Number	Name	Object Function	Description	Group Address *	Length C R W T	U Data Type	Pric
🛅 Dynamic Folders	■≵ 5	Display	Predefined user text message 3			1 bit C - W -	- switch	Low
IIII YOUVI Best Practice	1100	Thermostat	Presence			1 bit C - W -	- switch	Low
▲ I House		Display	Reset alarm message			1 bit C - W -	- reset	Low
A 1st floor		Display	Lock-up			1 bit C - W -	- switch	Low
	■‡ 18	Thermostat	Setpoint selection automatic control			1 byte C - W -	 HVAC mode 	Low
4 🚔 Conference room		Display	Alarm message			14 bytes C - W -	- Character String (ASCII)	Low
1.1.8 Thermostat/room controller	■‡ 13	Thermostat	Mode selection	Conference room heating HVAC Mode	3/0/9	1 byte C - W -	 HVAC mode 	Low
A Office	■26	Thermostat	Status indication mode selection	Conference room heating HVAC Mode Status	3/0/10	1 byte C R - T	 HVAC mode 	Low
Ground floor	■‡ 63	Thermostat	Comfort setpoint heating	Conference room heating Comfort	3/2/0	2 bytes C - W -	 temperature (*C) 	Low
	■2 75	Thermostat	Status indication comfort setpoint heating	Conference room heating Comfort Status	3/2/1	2 bytes C R - T	 temperature (*C) 	Low
₹ Trades	■2 64	Thermostat	Standby setpoint heating	Conference room heating Standby	3/2/2	2 bytes C - W -	 temperature (°C) 	Low
	■2 76	Thermostat	Status indication standby setpoint heating	Conference room heating Standby Status	3/2/3	2 bytes C R - T	 temperature (°C) 	Low
	■2 65	Thermostat	Night setpoint heating	Conference room heating Night	3/2/4	2 bytes C - W -	 temperature (°C) 	Low
	■‡ 77	Thermostat	Status indication night setpoint heating	Conference room heating Night Status	3/2/5	2 bytes C R - T	 temperature (°C) 	Low
	■2 66	Thermostat	Frost protection setpoint heating	Conference room heating Frost protection	3/2/6	2 bytes C - W -	 temperature (°C) 	Low
	■2 78	Thermostat	Status indication frost protection setpoint heating	Conference room heating Frost protection Status	3/2/7	2 bytes C R - T	 temperature (°C) 	Low
	■≵ 43	Thermostat	Status indication room temperature	Conference room current Temperature	3/4/8	2 bytes C R - T	- temperature (°C)	Low
	1							

Cooling only:

Setpoint	Data point type	Write	Read
Comfort, Cooling	9.001	Yes	
Comfort, Cooling Status	9.001		Yes
Standby, Cooling	9.001	Yes	
Standby, Cooling Status	9.001		Yes
Night, Cooling	9.001	Yes	
Night, Cooling Status	9.001		Yes
Heat protection, Cooling	9.001	Yes	
Heat protection, Cooling Status	9.001		Yes
HVAC	20.102	Yes	
HVAC Status	20.102		Yes
Current Temperature	9.001		Yes

The assignment of the actuators for systems that only cool is analogous to the assignment of the previously described heating systems



Heating and cooling:

Setpoint	Data point type	Write	Read
Comfort, Heating	9.001	Yes	
Comfort, Heating Status	9.001		Yes
Comfort, Cooling	9.001	Yes	
Comfort, Cooling Status	9.001		Yes
Standby, Heating	9.001	Yes	
Standby, Heating Status	9.001		Yes
Standby, Cooling	9.001	Yes	
Standby, Cooling Status	9.001		Yes
Night, Heating	9.001	Yes	
Night, Heating Status	9.001		Yes
Night, Cooling	9.001	Yes	
Night, Cooling Status	9.001		Yes
Frost protection, Heating	9.001	Yes	
Frost protection, Heating Status	9.001		Yes
Heat protection, Cooling	9.001	Yes	
Heat protection, Cooling Status	9.001		Yes
HVAC	20.102	Yes	
HVAC Status	20.102		Yes
Current Temperature	9.001		Yes
Heating/cooling	1.100	Yes	
Heating/cooling Status	1.100		Yes

If a system is used that can both heat and cool, the group object for transmitting the heating/cooling status is very important. That is, whether the system is currently heating or cooling and whether corresponding setpoints for heating mode or for cooling are to be used. Whether the system is currently heating or cooling is also shown via an icon on the widget:



These icons can also be used to switch the mode between heating and cooling.

Exemplary implementation in the ETS shown on a Berker Thermostat 8044 01 00:

uildings 🔻											
											▲ □ ≥
• Add Devices 🔹 🗙 Delete 🛨 Download 🔹 🕕 Ir	nfo 🔻 🕤 Reset	🖗 Unload 👻 🚔 Print							ŝ	Search	£
Buildings	* Number	Name	Object Function	Description	Group Address *	Length	C R	t w	τU	J Data Type	Pri
Dynamic Folders	■ 2 21	Thermostat	Priority			2 bit	C -	W -		boolean control	Low
YOUVI Best Practice	■‡ 13	Thermostat	Mode selection	Office heating/air conditioning HVAC Mode	3/0/19	1 byte	C -	W -		HVAC mode	Low
House	■2 26	Thermostat	Status indication mode selection	Office heating/air conditioning HVAC Mode Status	3/0/20	1 byte	C R	- 1	T - T	HVAC mode	Low
	■2 68	Thermostat	Comfort setpoint cooling	Office heating/air conditioning Comfort Cooling	3/2/8	2 bytes	C -	W -		temperature (°C)	Low
4 🔛 1st floor	# 2 80	Thermostat	Status indication comfort setpoint cooling	Office heating/air conditioning Comfort Cooling Status	3/2/9	2 bytes	C R	- 1	T - 1	temperature (°C)	Low
4 🚔 Conference room	■2 69	Thermostat	Standby setpoint cooling	Office heating/air conditioning Standby Cooling	3/2/10	2 bytes	C -	W -		temperature (°C)	Low
1.1.8 Thermostat/room controller	#2 81	Thermostat	Status indication standby setpoint cooling	Office heating/air conditioning Standby Cooling Status	3/2/11	2 bytes	C R	- 1	T 1	temperature (°C)	Low
∠ ➡ Office	■ 2 70	Thermostat	Night setpoint cooling	Office heating/air conditioning Night Cooling	3/2/12	2 bytes	c -	W -		temperature (°C)	Low
1.1.13 Thermostat/room controller	#‡ 82	Thermostat	Status indication night setpoint cooling	Office heating/air conditioning Night Cooling Status	3/2/13	2 bytes	C R	- 1	T 1	temperature (°C)	Low
	■2 71	Thermostat	Heat protection setpoint cooling	Office heating/air conditioning Heat protection	3/2/14	2 bytes	C -	W -		temperature (°C)	Low
Ground floor	■‡ 83	Thermostat	Status indication heat protection setpoint cooling	Office heating/air conditioning Heat protection Status	3/2/15	2 bytes	C R	- 1	т Т	temperature (°C)	Low
Trades	#‡ 63	Thermostat	Comfort setpoint heating	Office heating/air conditioning Comfort Heating	3/2/16	2 bytes	C -	W -		temperature (°C)	Low
	# 2 75	Thermostat	Status indication comfort setpoint heating	Office heating/air conditioning Comfort Heating Status	3/2/17	2 bytes	C R	- 1	T 1	temperature (°C)	Low
	■2 64	Thermostat	Standby setpoint heating	Office heating/air conditioning Standby Heating	3/2/18	2 bytes	C -	W -		temperature (*C)	Low
	■‡ 76	Thermostat	Status indication standby setpoint heating	Office heating/air conditioning Standby Heating Status	3/2/19	2 bytes	C R	- 1	T 1	temperature (*C)	Low
	2 65	Thermostat	Night setpoint heating	Office heating/air conditioning Night Heating	3/2/20	2 bytes	c -	W -		temperature (*C)	Low
	1 2 77	Thermostat	Status indication night setpoint heating	Office heating/air conditioning Night Heating Status	3/2/22	2 bytes	C R	. 1	T - T	temperature (*C)	Low
	2 66	Thermostat	Frost protection setpoint heating	Office heating/air conditioning Frost protection Heating	3/2/23	2 bytes	c -	W -		temperature (*C)	Low
	1 78	Thermostat	Status indication frost protection setpoint heating	Office heating/air conditioning Frost protection Heating St.	.3/2/24	2 bytes	C R	. 1	T - T	temperature (*C)	Low
	2 2	Thermostat	Heating/Cooling - changeover	Office heating/air conditioning Heating Cooling	3/3/17	1 bit	с -	W -		cooling/heating	Low
	2 28	Thermostat	Heating/Cooling - status indication	Office heating/air conditioning Heating Cooling Status	3/3/18	1 bit	C R	- 1	T - T	cooling/heating	Low
	2 43	Thermostat	Status indication room temperature	Office heating/air conditioning current Temperature	3/4/21	2 bytes	C R	- 1	т -	temperature (°C)	Low

17.7 ISE Remote Connect

YOUVI supports the ise SMART CONNECT KNX Remote Access as a remote maintenance tool. It establishes a VPN connection for remote maintenance between the integrator and the end customer. The integrator thus gains access to the KNX network of his customer and can make changes via the ETS. The end customer can activate or deactivate access at any time with a KNX telegram to the ISE device. In addition, access to YOUVI Configuration (project editor, logic module, etc.) is possible.

To use the remote maintenance tool for the control cabinet, a separate widget is available after importing the ETS project:



Parsing

To ensure that the widget is recognised when the ETS project is imported, the following group addresses must be assigned:

- 1.003 Write address Grant portal access
- 1.003 Write address Grant "Residents" access
- 1.003 Write address Grant "Installers" access
- 1.003 Write address Allow Quick-Connect
- 1.011 Feedback address Grant portal access
- 1.011 Feedback address remote connection
- 1.011 Feedback address Grant "Residents" access
- 1.011 Feedback address Grant "Installers" access
- 1.011 Feedback address Allow Quick Connect

Optionally for error indication, also assign the following addresses:

- 1.005 Feedback address error indication (optional)
- 16.001 Feedback address Info portal connection (optional)
- 16.001 Feedback address Info connection error (optional)



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Reports	Workplace * Catalogs	Diagnostics													
										∧ ∂ ×	Propertie	s			
• 🕕 Info •	🕤 😨 Reset 🤌 Uniload 🔹 🚔 Print								Search	Q	ô.			1	
Number	Name	Object Function	Description	Group Address	Length	C R	wı	τU	Data Type	Priority	Settings	IP	Comments	Information	
 ₽ 1	Grant portal access	Allows or prohibits the connection of the	Grant portal access	8/4/0	1 bit	с -	W -	-	enable	Low	Name				
2	Grant portal access - status	Indicates whether the device is allowed t			1 bit	C R	- T	-	enable	Low	ise KNX Remote	Access			
1 2 3	Grant "Residents" remote access	Grants or denies members of the group "	Grant "Residents" access	8/4/2	1 bit	с -	w -	-	enable	Low	Individual Add				
2 4	Grant "Residents" remote access - status	Indicates whether remote access is grant			1 bit	C R	- T		enable	Low	Individual Addi	ess			
2 5	Grant "Installers" remote access	Grants or denies members of the group "	Grant "Installers" access	8/4/4	1 bit	с.	w -	-	enable	Low			1.1	2 🌲	Park
26	Grant "Installers" remote access - status	Indicates whether remote access is grant			1 bit	C R	- T	-	enable	Low	Description				
27	Allow "Quick Connect" access	Grants or denies remote access via "Quic	Allow Quick Connect	8/4/6	1 bit	с -	W -		enable	Low					
2 8	Allow "Quick Connect" access - status	Indicates whether remote access is grant			1 bit	C R	- T	-	enable	Low					
20	State portal connection	Indicates whether connection to portal is	Grant portal access - Status	8/4/1	1 bit	C R	- T	-	state	Low					
■‡ 21	State any remote connection	Indicates whether any remote connection.	Remote connection-Status	8/4/9	1 bit	C R	- T		state	Low					
22	State remote connection "Residents"	Indicates whether a remote connection b	Grant "Residents" access - Status	8/4/3	1 bit	C R	- T	-	state	Low	Last Modified	30.11.20	22 11:41		
23	State remote connection "Installers"	Indicates whether a remote connection b	Grant "Installers" access - Status	8/4/5	1 bit	C R	- T	-	state	Low	Last Download				
24	State remote connection via "Quick Co	Indicates whether a remote connection vi	Allow Quick Connect - Status	8/4/7	1 bit	C R	 T 		state	Low	Serial Number	-			
2 30	Error indication	Indicates a connection error which is des	Error indication	8/4/13	1 bit	C R	- T	-	alarm	Low					
Z 31	Portal connection info	Diagnostic information about the portal	Portal connection info	8/4/14	14 bytes	C R	- T	-	Character String (IS	Low	Status				
232	Connection error info	Additional diagnostic text in case of a po	Connection error info	8/4/15	14 bytes	C R	- T		Character String (IS	Low	Unknown				

Set-up

- After importing the project via the *Projects* page, open the <u>Project Editor</u>.
- Search for the ISE device and check the parsed data.
- Enter the registration ID located on the device under the Registration ID section.

Creating ISE Remote Connect Manually

To create the ISE Remote Connect manually, change to the <u>Project Editor</u> or the Visualisation, the house overview and klick on *Add* > *Device*. Select "ISE Remote Connect" as the device type.

18 Tips for your ETS project

The big advantage of using YOUVI is that you can set up the Visualisation of your KNX project without further configuration. Your ETS project will be read out by YOUVI and the Visualisation will be created automatically. However, eliminating the configuration level makes it all the more important to clearly define all the group objects in your ETS project so they can be recognized by YOUVI.

Therefore please note the following points:

Nine points to consider for your ETS project:

- 1. Work with the ETS 5 or 6.
- 2. Use group addresses in a 3-level address style for a better overview in your project.
- 3. Create a control cabinet in the rooms for the sub-distribution.
- 4. The room assignment of the devices (light, shutter, etc.) is realized via push buttons or functions that are located in the corresponding room. If push buttons for a device are located in different rooms, or if there are no push buttons for certain devices, use functions to make the room assignment unique. The push buttons or functions share at least one group address with the actuator in order to realize the room assignment of the device.
- 5. Make sure to always assign only one device to a function.
- 6. Mind the rules for device naming.
- 7. Use the <u>tables</u> below to ensure that YOUVI identifies your devices. Here you can see which group objects with which data types and flags must be at least present for device identification.
- 8. Define active feedback for the devices.
- 9. Export your project as a knxproj-file.

Some examples for the device definition:

- Example: Dimmer and tunable white
- Example: ISE Remote Connect
- Example: Heating device
- Example: RGBW
- Example: Temperature control
- Example: Ventilation

How devices are named

Depending on the area of application, other rules for naming devices, i.e. group addresses and functions in YOUVI must be taken in mind:
Use of functions

When using functions, you assign the corresponding group addresses to the function and the device is named like the function in the Visualisation.

Use of switches (group addresses)

If functions are not used, the names of the group addresses are used for device naming. The following must be considered for this:

YOUVI searches all group addresses of a device during the import and selects the part of the description as device name which is the same in all others.

Example 1:

If two group addresses have been created for a lamp, e.g.

- "GF Living room ceiling light (switching)" and
- "GF living room ceiling light (status)"

YOUVI adopts the part of the description as the device name, which is identical for both designations:

GF Living room ceiling light

Example 2:

Caution: If words at the end of the description will match again as in this example,

- "GF living room ceiling light (switch) switch 1" and
- "GF living room ceiling light (status) switch 1",

only the first identical part of the description is used:

GF living room ceiling light

Device naming with and without voice control

If you are planning building control **without voice control**, it is advantageous to name the devices as specifically as possible, as this allows each device to be assigned and checked without much effort, even after import, e.g. "1st floor living room ceiling light". In this way, devices are clearly identifiable, especially in the filter by trades and on the dashboard.

When planning **with voice control**, it is advantageous to keep the device name as simple and short as possible. Here, the use of room names or cryptic designations in the device name is a disadvantage.

Tips for naming devices when using voice control

If YOUVI is used with **ProKNX's Snips** voice control, the **room name is filtered from the device name**. This makes device names shorter and provides better intelligibility in voice control. For example, a device named "living room roller shutter" in the Visualisation is transformed to "roller shutter" for ProKNX. The room assignment is already stored in Snips, so that "Hey Snips, open 'roller shutter' in the living room." also works as a command.

Other recommendations for device naming when using voice control:

- Do not use special characters
- Write out numbers: "nursery two", instead of "nursery 2"
- Do not use abbreviations

If you are accustomed to writing the floor in the device name by using abbreviations, you should rather assign room names more specifically instead, e.g. "nursery one" for the children's room on the first floor and "nursery two" for the children's room on the upper floor. You can adjust the name of the devices directly in the Visualisation or already in the ETS project.

How your devices are detected

YOUVI distinguishes devices when reading out the ETS project according to their communication objects, flags, and data types. A minimum number of communication objects is required for each device to be recognized, for example, as a roller shutter. Only when the communication objects are correctly defined can the device be properly identified and controlled.

Note: Group objects that exclusively use the data type "1.001 (switching)" are automatically assigned as a light in YOUVI. If the defined object is intended to be a different device, the device type must then be changed in the visualisation <u>settings.</u>

Assign correct data types and flags for group objects 📫

The table below lists the devices supported by the Visualisation. It shows the minimum number of group objects, that must be present to recognize the device and depict it in the Visualisation. A list of assignable data types, which the respective group object can have, is given in column 3 of the table. Further, the flags for write and transmit must be set correctly for the corresponding group object, see columns 4 and 5.

Detected device		Data type, signal length	W *	T *
Lights at least 1 group object:	=2	1.001/Switch	Yes	No
Shutters at least 3 group	■₹	1.008, 1.023, (1.001)* / UpDown, ShutterBlinds Mode, (Switch)	Yes	No
objects:	■#	1.007, 1.009, 1.010, (1.001)* / Step, Open/Close, StartStop, (Switch)	Yes	No
	.	5.001/Percent (0100%)	Yes	No
Blinds at least 4 group	■#	1.008, 1.023, (1.001)* / UpDown, ShutterBlinds Mode, (Switch)	Yes	No



Detected device		Data type, signal length	W*	Т*
	■2	1.007, 1.009, 1.010, (1.001)* / Step, Open/Close, StartStop, (Switch)	Yes	No
	■\$	5.001/Percent (0100%)	Yes	No
	■\$	5.001, 5.003/ Percent (0100%), Angle (degrees)	Yes	No
Dimmers (option: with	■\$	1 bit/e.g. Switch	Yes	-
color temperature) at least 3 group	■\$	4 bits/e.g. Dimming Control	Yes	-
objects: You can find	■\$	8 bits (1byte)/e.g. Percent	Yes	-
more information <u>here.</u>	■2	7.600, 5.001/absolute color temperature (K), Percent (0100%)	Yes	-
RGB-Lights (Single 232.600	■≵	1.001/Switch	Yes	No
channel) at least 2 group objects: You can find more information <u>here.</u>	■\$	232.600/RGB-Value 3x(0255)	Yes	No
RGB-Lights (Single XY	■\$	1.001/Switch	Yes	-
242.600 channel) at least 4 group	■\$	1.001/Switch	-	Yes
objects: You can find	■\$	242.600/colour xy	Yes	-
more information <u>here.</u>	■\$	242.600/colour xy	-	Yes
Ventilation at least 2 group	■2	Counter pulses 5.010 (Ventilation preset, write)	Yes	-
objects: You can find more information <u>here.</u>	■2	Counter pulses 5.010 (Ventilation preset, status)	-	Yes
Radiators at least 3 group objects: For more information on control with one	■ ₹	9.001, 9.002, 6.001, 1.001 /Temperature (°C), Absolute temperature shift, Temperature shift in percent, 1-bit temperature shift	Yes	-



Detected device		Data type, signal length	W*	Т*
setpoint, click <u>here.</u>	■≵	9.001/Temperature (°C)	-	Yes
For more information on control with multiple setpoints, click <u>here.</u>	■₹	9.001/Temperature (°C)	-	Yes

*W= Write, T=Transmit

*YOUVI first searches for the more specific data types 1.008 and 1.023 to detect a shutter or blind. These data types are therefore recommended for better processing of the project.

Detected sensor		Data type, signal length	W*	T *
Temperature at least 1 group object:	- 2	9.001/Temperature (°C)	No	Yes
Wind Speed at least 1 group object:	- 2	9.005/Speed (m/s)	No	Yes
Brightness at least 1 group object:	- 2	7.013, 9.004/Brightness (lux), Lux (Lux)	No	Yes
Binary at least 1 group object:	• 2	1.002, 1.005, 1.006, 1.009, 1.011/ boolean, alarm, binary value, open/close, state	No	Yes
Humidity at least 1 group object:	■	9.007/Humidity (%)	No	Yes
Percent at least 1 group object:	.	5.001/Percent (0100%)	No	Yes
Time at least 1 group object:	.	10.001/Time of day	No	Yes
Noise at least 1 group object:	.	14.064/Sound intensity (W/m ²)	No	Yes
Pressure at least 1 group object:	• 2	14.058, 9.006/Pressure (Pa)	No	Yes



CO₂ at least 1 group object:	=2	9.008/Parts/million (ppm)	No	Yes
Wind direction at least 1 group object:	- 2	5.003/Angle (degrees)	No	Yes
Rain Gauge at least 1 group object	- 2	9.026/rainfall (I/m²)	No	Yes
Energy Tracker at least 1 group object	- 2	7.012, 9.021, 9.024, 13.013, 14.056/ current (mA), current (mA), power (kW), active energy (kWh), power (W)	No	Yes
Numeric at least 1 group object	- 2	7.002 (ms), 7.005 (s), 7.006 (min), 7.007 (h), 7.011 (mm), 7.600 (K), 8.002 (ms), 8.005 (s), 8.006 (min), 8.007 (h), 9.002 (K)	No	Yes

*W= Write, T=Transmit



19 FAQs

Possible problems are collected on this page and briefly answered. By selecting the specific problem in the list, you will get to the detailed description.

Why can't I open YOUVI Dashboard on my Controlmicro? How do I convert the YOUVI

client into a YOUVI server?

Currently, our customers can choose which visualisation they want to install on the panel. Therefore, YOUVI is supplied with the panels but not pre-installed. The YOUVI Client (YOUVI Panel) is installed on the Controlmicro by default, as a minimal installation of the YOUVI software is necessary to enable the control of the ambient lighting and the display of the sensor technology for the user. To use the YOUVI Server on the Controlmicro, run the installer again and select the option "Convert YOUVI Client to YOUVI Server" during the "Pre-installation". Then upload your KNX project to continue with the setup. You will be asked during the installation whether you want to repair, uninstall or skip the client. Select "Skip".

My bridge devices (Sonos, Bluesound, Tradfri, trivum, Hue, Yeelight, Netatmo) no longer

work after an update, what can I do?

First check whether the Bridge device can also be operated via the app of the respective manufacturer. Changes in the network settings may also have led to problems, so that access rights or IP addresses may have changed.

If there has been an update for a device that is connected in YOUVI via a bridge, this also leads to problems in some cases: If, for example, device IDs are changed, they can no longer be addressed even though YOUVI is connected to the bridge.

To solve the problem in YOUVI, switch to the YOUVI configuration page of the respective bridge, disconnect and reconnect. If the problem persists, delete the respective bridge devices and reimport them. If the problem persists, restart the plug-in service under *More > Services* or <u>contact</u> us directly.

I cannot register my door station module with my SIP server, the status shows grey.

If the status shows grey for longer, it is possible that the server has already received a request for these login data from another device and it is already registered. When creating the door station in YOUVI Configuration, make sure that you carry out the registration on the panel itself and not from a client, for example via the browser. If necessary, create a new SIP account in the server or restart it.

Problem	Possible Cause(s)
Devices are shown incorrectly	The ETS project cannot be interpreted correctly.
Keyboard does not show	The keyboard display is disabled.
Unexpected Device Behavior	 The Multicast address is used by multiple routers in the same KNX network.
YOUVI Connection failed	 YOUVI Services are not running. There is no network connection (LAN or WLAN.)

Problem	Possible Cause(s)
 <u>YOUVI cannot load the</u> <u>Visualisation and modules after</u> <u>installation</u>. 	The services are not runningNo network or internet connection

Typical Visualisation errors

The table below shows common errors that can occur in the Visualisation after the project import and how to solve them. Further information can be found <u>here.</u>

Typical Visualisation Errors	How to Avoid Typical Errors in your ETS Project
YOUVI Visu shows the wrong device type/The device is not shown.	 Assign the correct data types and flags to the group objects of your devices.
Many devices are "Unassigned devices".	 Place the actuators or operating devices, such as switches, touch panels or similar, in the room of the corresponding device.
The Visualisation does not show the current KNX device status.	 Create <u>active signaling objects</u> for the status feedback of your devices.
Devices, floors or rooms have ambiguous or rare <u>names</u> .	 All devices rooms, floors or buildings can be renamed in the Visualisation. The device names (group addresses) should include their location, as on the YOUVI Visu <i>dashboard</i>, the assigned room or floor is not shown on the device tile. For example: Living Room lights left.

19.1 YOUVI connection failed

If the connection to the YOUVI server fails, check the following points:

1. Check the network connection

Make sure YOUVI is connected to the network via LAN or Wi-Fi.

2. Check the YOUVI services

- Open YOUVI Configuration via YOUVI Dashboard.
- Go to the *Services* page and check if the YOUVI services are running (labeled by a green square).

- If the services do not run or YOUVI Configuration is inactive, open the Windows Services, for example via the Windows input field.
- In the Windows Services restart all the YOUVI Services by using "Start the service", as shown in the picture below.

🌼 Services					- 0	×
File Action View	Help					
	à 🔒 🛛 📊 🕨 🔳 II IV					
🥥 Services (Local)	Services (Local)					
	YOUVI - MessageBus	Name	Description	Status	Startup Type	Log ^
	<u>Start</u> the service	Q YOUVI - Service Manager YOUVI - REST Service YOUVI - MySQL	YOUVI - Ser YOUVI - RES	Running Running	Automatic Automatic Automatic	Loc Loc Loc
	Description: YOUVI - MessageBus	VOUVI - MySQL VOUVI - Logic Service VOUVI - KNX Adapter VOUVI - Bus Monitor Service	YOUVI - Me YOUVI - Lo YOUVI - KN YOUVI - Dat YOUVI - Bus	Kunning	Automatic Automatic Automatic Automatic Automatic	Loc Loc Loc Loc
	Extended Standard	`				>

- Switch to the Visualisation again and refresh the connection view.
- Connect to the desired server again.
- If you cannot fix the problem this way, please send a short report via the <u>Reporter tool.</u>

19.2 Keyboard isn't shown

The on-screen keyboard is not automatically displayed when typing in an input field. Here you have 2 options:

To display the keyboard icon in the taskbar

- right-click on the taskbar and select "Show touch keyboard button".
- When you need the keyboard, tap the keyboard icon in the taskbar.

Enable automatic keyboard input

To automatically display the keyboard when tapping on a text input field, do the following:

- Swipe into the screen from the right and select "All settings".
- Select "Devices" > "Typing".
- Under "Touch keyboard", check the last item: "Show the touch keyboard when not in tablet mode and there's no keyboard attached."

19.3 Unexpected device behavior

During device control, unexpected behavior occurs after entering the desired value. For example, shutters move to different positions, lights go on and off, or the dimmer behavior differs from the input value. The reason for this behavior is that there are several IP routers that communicate over an identical multicast address in the same KNX network.

Proceed as follows:

- In YOUVI Configuration go to the KNX Connection page and disconnect from the KNX-Bus .
- Check whether another router is active in the KNX network and communicates via the same multicast address as the YOUVI IP router.
- If this is the case, a circulating message has been generated.
- Go to the KNX > KNXnet/IP Router page and change the multicast address. In YOUVI Configuration you can adjust them on the KNXnet/IP-Router page as shown in the figure. In case of multiple YOUVI servers in the network, turn off the IP router by unchecking "Turn on IP router" so that only one IP router is running in the network.
- Then reconnect to the KNX on the KNX Connection page.

🕑 🛕 YOUVI Configuration 🛛 🗙	+		I X
\leftarrow \rightarrow C \textcircled{a} $\textcircled{127.0.0}$	1:31226/#/KNXnet	ta 🕐 ta 🕀 😩	
Configuration			2
	Connected YOUVI: KNX Status: Controlpro Lombardstreet 12 Connected	Network Status: Connected	
General KNX KNX Connection KNXnet/IP-Router	Physical Address: Enable IP Router IP Routing Multicast Address:	15.15.0 ✓ 224.0.23.12	
Modules	Incoming Outgoing		
Bridges	 ✓ All ✓ 1 - Licht 		
More	 2 - Beschattung 3 - Heizung/Temperatur 4 - Sensoren 		
		,	/OUVI v4.2.3



19.4 No program icons on the dashboard page

If no program icons appear on the Dashboard page, it can be due to two reasons:

- A) The server connection failed
- B) The network connection has failed

Note: YOUVI requires network and Internet access during the first startup to obtain an IP address and to load the Visualisation or further add-ons. After that, no Internet connection is required to function, but only to install updates.

20 Hard- and software requirements

Requirements to run YOUVI:

Minimum requirements			
YOUVI Basic/YOU	YOUVI Basic/YOUVI Visu		
ETS-Version	ETS 5 - 6.0		
Operating System	Windows 10, Version 1809 (32/64-Bit) or higher		
CPU	1,44 GHz Quad-Core		
RAM	4 GB (64 Bit)		
Disk Space	2 GB		
Graphics	DirectX 12		
.NET Version	ID 4.7.0. (in Windows 10)		
Ethernet	LAN or WLAN		
YOUVI Mobile Ap	YOUVI Mobile App		
Android	Android 6.0 (SDK 23) Recommended: Android 9.0 (SDK 28)		
iOS	iPhone/iPad: iOS 8.0		

Additionally recommended:

Display	Specification
To use touch navigation	a PEAKnx touch panel, a touch-sensitive monitor or tablet that supports multi-touch

21 Version and contact

Version

Help created:	2025-02-05
Help version:	5.0.19
YOUVI Version:	YOUVI 5.0.19, YOUVI Visu 5.0.16

Service & support

Here you will find all the necessary contact details to reach a member of the PEAKnx team. If you have problems with YOUVI, our support team will be happy to help.

E-Mail:	support@peaknx.com
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22 About PEAKnx

As a manufacturer of innovative hardware and software components, PEAKnx develops products for future-proof building automation. For example, individual front-end panels including Visualisation, which make all information of an intelligent building available at a central point. Great importance is attached to the longevity of the products and the qualitative interaction of design and functionality.

As the newest division of the PEAK group headquartered in Darmstadt, Germany, PEAKnx can draw from more than 30 years of experience in hardware and software development. Through a broad network of certified partners, PEAKnx also offers the associated services - from consulting to the installation and implementation of automation projects. The goal is to make home and building automation comfortable, cost-saving and future-proof through innovative solutions.

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