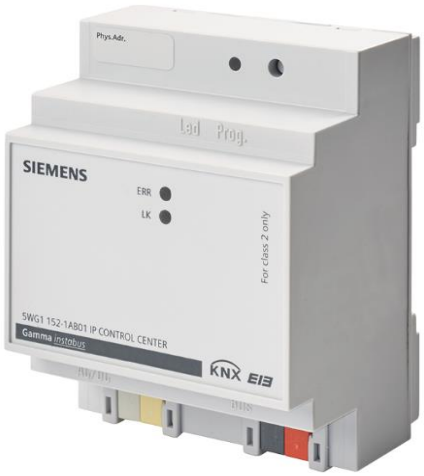
SIEMENS

GAMMA instabus | Application program description

Application program "07 0B IP Control Center 983501"



IP Control Center N 152

Product family:	Communication
Product type:	Interface / visualization
Manufacturer:	Siemens
Name:	IP Control Center N 152
Description:	IP Control Center - visualization controller
Order no.:	5WG1152-1AB01

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1 Cyber security liability exclusion

Siemens offers a portfolio of products, solutions, systems and services with security functions that assist in the safe operation of facilities, systems, machines and networks. In the business segment of building technology, this includes systems for building automation and control technology, fire safety, safety management and physical security systems.

To protect facilities, systems, machines and networks from online threats, it is necessary to implement a comprehensive state-of-the-art security concept and keep it up to date at all times. The Siemens portfolio is only a small element of such a concept.

You are responsible for preventing unauthorized access to your facilities, systems, machines and networks. You should connect them to a network or the Internet only if the connection is required, only to the necessary extent, and only if suitable safety measures (e.g. firewalls and/or network segmentation) have been provided. Furthermore, the Siemens safety recommendations must be observed. For more information, please speak to your contact at Siemens or visit our website at https://www.siemens.com/global/de/home/unternehmen/themenfelder/zukunft-der-industrie/industrial-security.html.

Siemens is continuously developing its portfolio in order to improve security. Siemens urgently recommends that you use updates as soon as they are available, and that you always use the latest versions. If you use versions that are no longer supported, or if you do not use the latest updates, this can increase your risk in regard to online threats. Siemens urgently recommends that you follow the safety recommendations regarding the latest security risks, patches and related measures, which can be found, among others, under http://www.siemens.com/cert/de/cert-security-advisories.htm

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2 Introduction

The IP Control Center (hereafter also referred to as the IPCC) is a web-based visualization controller. It is a device based on a database in the XML format. This means that the visualization as well as the editor are integral elements of a database. The entire IP Control Center software and the database are pre-installed in high-performance embedded hardware. This means you simply need to integrate the IP Control Center in the relevant network in order to begin commissioning.

All you need to create a project are basic network skills, a standard browser and the ETS programming software.
The device is a rail-mounted devices for assembly on DIN rails. It has a size of 4 HP. The IP Control Center can be used to configure individual full-graphic visualizations. These are displayed in an Internet browser. Up to 250 KNX objects and an additional 1000 group addresses can be visualized by means of the IP Control Center. Programming and the configuration of group addresses are performed using ETS 3 (vd5) and higher.

The ETS is also used for the following purposes:

- Assigning group addresses to communication objects.
- Configuration of the IP network parameters.
- Configuration of access protection to websites and the web editor.
- Setting the device as a synchronization master (synchronization of the time server via IP) or synchronization slave (synchronization of KNX telegrams).
- Configuration of a read request for the 250 KNX object values after a restart / bus reset.

The device contains a web editor (editor) for designing the websites. The web editor is opened via the integrated connection manager. This is loaded directly from the device during its first use. The editor can display graphics and images in various web formats such as JPG, PNG, GIF etc. Use drag & drop to connect the programmed group addresses to display and control elements. A library of display and control elements in the following categories is available:

- Switching general
- Switching miscellaneous
- Switching light
- Status General
- Shutter/blind
- HVAC
- Scenes
- Advanced elements
- Audio/video
- Navigation elements

These display and control elements are available in various designs (styles):

- Black magic
- Blue gray
- Blue transparent
- Creme frame
- Creme ocher
- Creme transparent

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In addition, powerful central functions are available. The configured communication objects and group addresses can be used in the following application modules:

- Scheduler: With astronomic calendar, for 300 schedules, with up to 30 schedule commands per schedule.
- Logic Control: Full-graphic logic module with up to 1000 logic functions.
- Scene Control: With up to 5000 scenes or events.
- Messenger and Alarm Control: Alarm function with up to 250 different alarms and an email function with up to 20 contacts.
- Chart Module: For recording up to 10 datapoints and displaying curve and bar charts.
- Monitoring Module: For monitoring and saving up to 1000 events in a ring buffer.
- TCP/UDP Commands. IP interface for controlling up to 20 IP devices via up to 20 TCP/UDP commands each.
- Overview Datapoints: Datapoint manager for displaying, managing and editing the communication objects and group addresses.
- SONOS Control: Direct control of the SONOS home sound system.
- Philips Hue: Control of the Philips HUE LED lighting system.

The described central functions are configured by means of the web editor (editor).

In addition, the device contains a Smart Editor. It is an easy and intuitive way to create visualizations, optimized for mobile browsers and all common smartphones. The smart and tablet visualizations configured with this editor have a consistently structured display and control philosophy.

Both editors can be operated in one of five languages (German, Spanish, French, Italian and English). The configuration page of the IP Control Center can be used to perform a firmware upload via the network and thereby keep the IP Control Center up to date at all times.

The various passwords for calling the visualization pages are also managed via the configuration page of the IP Control Center. In addition, the IP Control Center offers an interface with KNX installations via data networks with the help of the Internet protocol (IP).

At the same time, this device enables KNX devices to communicate with PCs or other data processing devices (KNXnet/IP tunneling).

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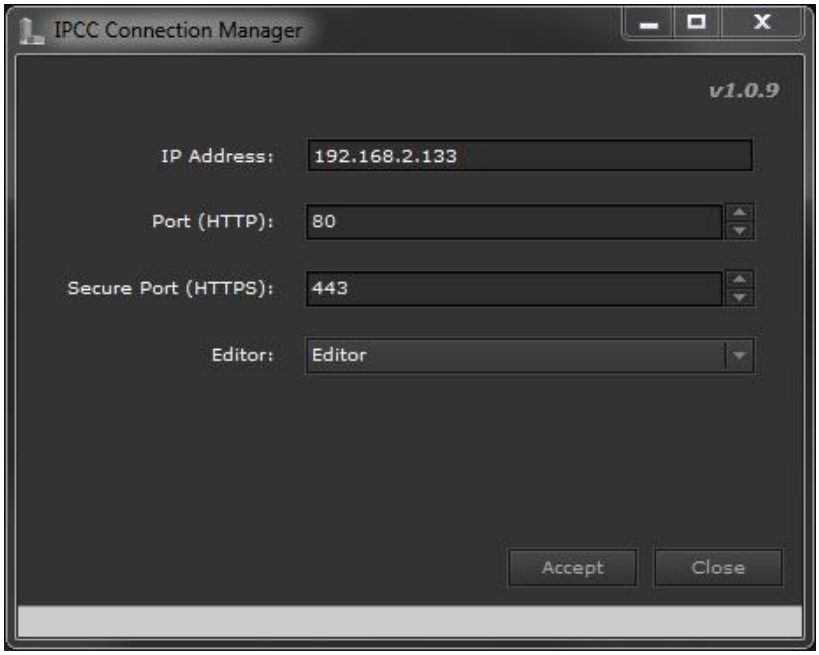
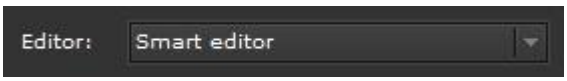
2.1 Conceptual overview of editors and visualization

The connection manager is at the heart of the IP Control Center. It is based on the Adobe AIR application, which can be used to download web applications and execute them directly on the desktop as self-contained programs. It combines the advantages of desktop applications with those of web applications.



The connection manager on the configuration PC is the link between the IP Control Center and the editors that are used to plan the visualizations. During initial commissioning, the connection manager is loaded from the IP Control Center to the PC. The connection manager installs the configuring editors on the PC. While the connection between the connection manager and the IP Control Center is established, the current firmware version of the IP Control Center is checked. On the basis of this firmware status, the current matching editors are launched on the PC. If the relevant editor versions are not on the PC yet, the connection manager loads the current editor versions of from the IP Control Center to the PC in the background.

Web editor (editor) for configuring a graphic visualization or for configuring the central functions.



Editor for creating smart or tablet visualizations.

The visualization user interface can be given any design with the web editors (editor / smart editor). A standard browser can be used to call up the created visualization page and the central configuration page (configuration manager) of the IP Control Center. All the settings for the IP Control Center can be made on this configuration page. See chapter: 7 Configuration manager.

Tablet visualization offers a visualization view optimized for tablets, while smartphone visualization is designed specifically for use on modern smartphones.

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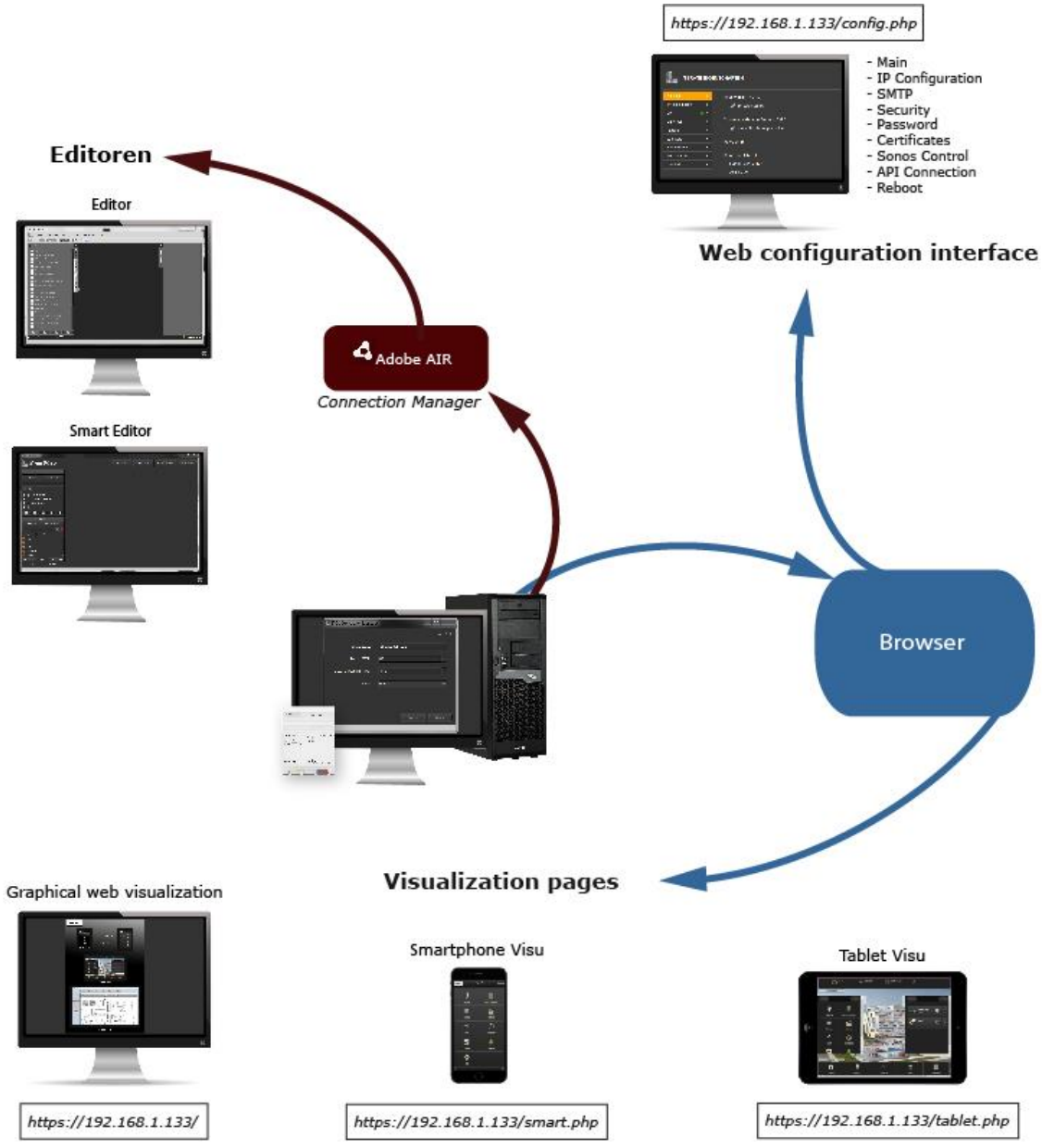
An overview illustrates the function concept of the IP Control Center.



Every visualization page is called up in a standard browser via a web address. The main element of this web address is the IP address of the IP Control Center as configured in the ETS: https://"assigned IP address"/...

The applications are selected via a corresponding extension to the URL: Example: The configuration page of the IP Control Center is called via the standard IP address: ("https://<ip>/config.php").

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2.2 System requirements

The IP Control Center requires a browser with HTML5 functionality, e.g. Edge, Internet Explorer IE11 (limited support) or higher, Firefox, Chrome or Safari. For its configuration, Adobe AIR must be installed on the PC.

The free download is available at https://get.adobe.com/de/air/, or it is installed automatically via the Internet when the connection manager is installed. For its first commissioning, the IP Control Center can be connected directly to a PC or laptop with a crossover patch cable. Configuration can also be performed on a remote client PC in the network. For the transfer of ETS group addresses, ETS 3 (vd5) and higher is a prerequisite.

Note: To display the visualization, you only need a web browser for displaying HTML pages. No Flash plug-in is required. All depicted and described functions are fully available from firmware **Version 4**.

2.2.1 Web browser

An Internet browser is required for displaying the web editor and smart editor and for displaying the visualization pages. All browsers require the HTML5 functionality.

Google Chrome, Mozilla Firefox, Microsoft Edge and Safari (based on iOS) in their current versions (when this document was issued) have all been tested. Only limited support is still provided for Internet Explorer.

Note: If you use other web browsers or other visions, mistakes may occur in the control and display of websites, and the function cannot be guaranteed.

2.2.2 Use of umlauts and special characters

Depending on the country-specific system settings, various Unicodes are used to display characters. Some web applications use Unicodes that do not properly display umlauts (ä, ö, ü). We therefore recommend that you avoid umlauts and other special characters.

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3 Security

The IP Control Center from **Version 4** supports encrypted HTTPS connections. HTTPS (Hyper Text Transfer Protocol Secure) is displayed in the URL if a website is secured with an SSL certificate.

To ensure secure access to the device, it is recommended that you purchase certificates from a certificate authority. Certificate authorities include, for example, Verisign https://www.verisign.com/ or Geotrust https://www.geotrust.com/de/ssl/. These certificates can then be loaded to the IPCC (see 7.6 Certificates). These certificates are then accepted as valid by all current browsers.

The IP Control Center can also create certificates. As these certificates are not issued by a certificate authority, browsers do not recognize them as valid, and browser-specific error messages occur. It is also more difficult or impossible to detect cyberattacks. That is why this procedure is not recommended. A self-signed certificate is pre-installed. The browser window displays buttons called “Advanced” or “Continue with unsafe certificate”, which allow you to bypass the security warning and continue to load the website without safeguarding. See also chapter: 17 Notes on security.

Note: For certificate management, it is very important that the time is set correctly on the device. It must therefore be ensured that the time is set correctly via a time server on the internet or via KNX, see chapter: 5 Quick guide.

3.1 Calling the website via HTTPS

The web visualization is called by default via Port 443 (HTTPS). For internal purposes, it is also possible to enable connection via Port 80 (HTTP). This is done by modifying the setting on the “*https://<ip>/config.php*” configuration page, see chapter: 7.2 IP configuration.

Note: External connections via the Internet should always use a secure connection via HTTPS. The configuration page of the IP Control Center can only be reached via HTTPS.

Note: It is not recommended to enable connection via Port 80 (HTTP), as this could compromise data (e.g. passwords).

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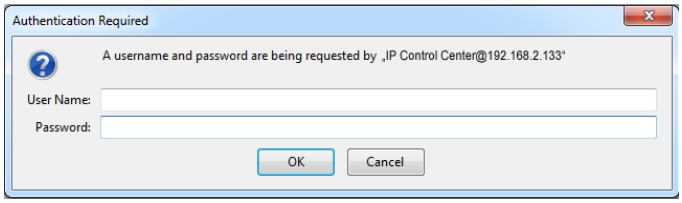
3.2 Password management

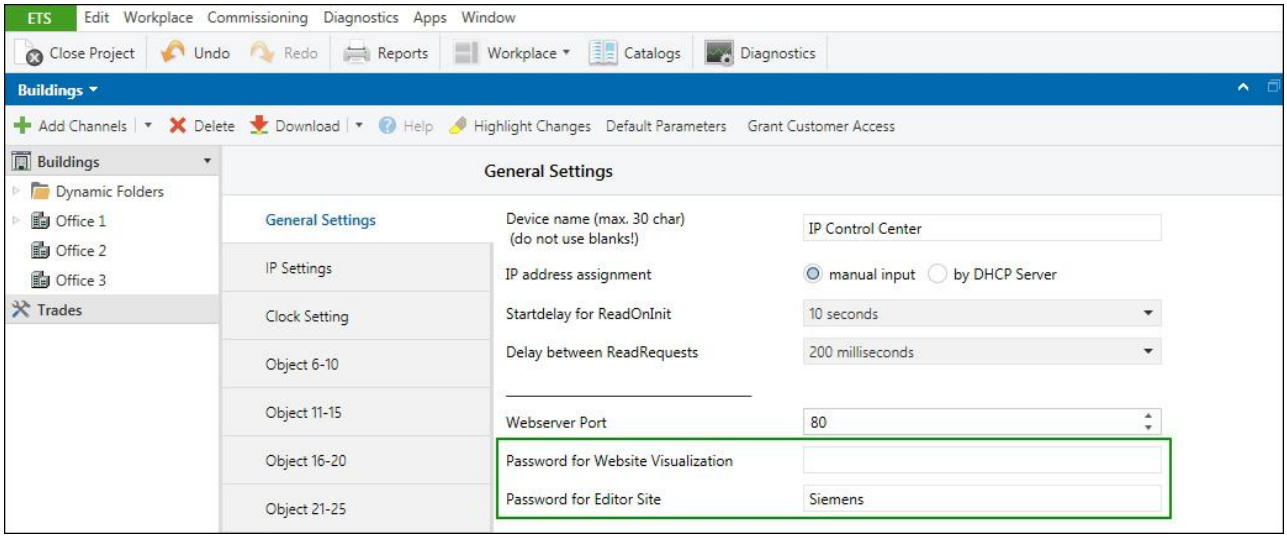
The visualization pages and the editors needed for configuration should be well protected against unwanted requests from the WLAN or the Internet, e.g. via DynDNS access with port forwarding. The IP Control Center provides standard DIGEST authentication for this purpose. The password protection applied by the IP Control Center must be applied!



By default, a password safety rule is checked, so that passwords are only accepted if they consist of at least 8 characters, upper and lower case letters and at least one number and special character. Change your password regularly.

3.2.1 Initial definition of passwords in the ETS

The editor password is set to "**Siemens**" by default in the ETS, and should be changed before the ETS download.
No password is assigned in the ETS for the visualization pages. It is advisable to change the default passwords in the ETS before the download. The password must be no more than 8 characters long (depending on the local language). Numbers and special characters are accepted.



The passwords defined in the ETS must be changed when it is first used, see also the following chapters.

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3.2.2 Visualization password

If a password was assigned in the ETS for visualization, the user will be prompted to assign a new password when they call up the visualization. They are automatically taken to the page "https://<ip>/visu_password.php" for this purpose. This page can only be reached via the encrypted HTTPS connection.

If no visualization password was assigned during configuration in the ETS, the field for the current password remains empty when the new password is confirmed. If a password was entered during ETS configuration, this new password is needed to confirm the password change. The password will be needed later on to call up visualization pages via a web browser, and it replaces the ETS password.

The user name of the visualization pages cannot be modified and is permanently defined with the name "*visu*". By default it should be necessary to comply with a password policy, so that passwords are only accepted if they consist of at least 8 characters, upper and lower case letters and at least one number and special character.

It is possible to deactivate the requirement that this demand be met by deactivating the checkbox on the page. However, this procedure is not recommended.

Passwords can also be changed retroactively via the central configuration page "https://<ip>/config.php" of the IP Control Center. The current password is required to confirm the changes.

Note: It is strongly recommended that you assign a secure password for visualization. By default, a password safety rule is checked, so that passwords are only accepted if they consist of at least 8 characters, upper and lower case letters and at least one number and special character.

Note: On the configuration page, you can use the corresponding setting to decide whether the password is only demanded via remote access. Internally, within the WLAN, the demand is not made. See chapter: 7.4 Security.

If visualization is operated exclusively within a secure network, it is also possible to completely deactivate the password for visualization.

3.2.3 Configuration password (editor)

You need the editor password to call up the editor and the central configuration page ("https://<ip>/config.php") of the IP Control Center. The default user for configuration tasks is "editor". This name cannot be changed. When the editor or the configuration page is first called, the existing password matches the password from the ETS configuration. If it was not changed during ETS configuration, the default password is "**Siemens**". Here, again, the password policy described in the previous chapter is checked by default. The configuration also includes the firmware update (chapter: 15 Firmware update), which can only be executed as the user "*editor*".

The user name of the configuration pages cannot be modified and, as with the visualization, is permanently defined with the name “editor”. When a new password is assigned, the same security recommendations apply as during the assigning of the visualization password.

The editor password can also be changed subsequently via the central configuration page ("https://<ip>/config.php"). The current password is required for this change.

3.2.4 Other passwords

Aside from the visualization and the configuration, it is possible to assign passwords for the smart editor and the API interface. The same security recommendations apply as for other passwords.

3.2.4.1 Smart editor password

The smart editor with the default user name “smarteditor” is always set by default to the editor password that was defined previously in the ETS. During the first call, the user is asked to assign a new password for the smart editor. It is also possible to redefine this password separately via the central configuration page ("https://<ip>/config.php").

3.2.4.2 API interface

The API interface with the default user “apiuser” has no valid password by default. This setting must be changed immediately via the central configuration page (https://<ip>/config.php") if this interface is used. See chapter: 7.8 API Connection.

3.2.5 Changing passwords

Passwords can be changed later on at any time. To do so, call up the central configuration page (“https://<ip>/config.php") of the IP Control Center. The changes are made in the “*Password*" area. You always need the previous password to change a password.

3.2.6 Resetting passwords

If the passwords of the device need or have to be reset, it is necessary to perform a master reset on the device. This procedure is described in detail in chapter: 14 Master reset (KNX files). After a master reset, an initial ETS download must be performed. After this download, the passwords are set according to the ETS entries for visualization, the editor and the smart editor. As during the first call-up, the operator is asked to change the passwords.

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3.3 Certificates

Digital certificates provide security on the Internet. An SSL certificate is a small data file that digitally ties a cryptographic key to the details of an organization or device. If it is installed on a web server, it activates the safety lock and the https protocol (via Port 443) and enables secure connections between a web server and a browser. It verifies the identity of IP devices and other encrypted pages. Every time you call the website of the IP Control Center, your browser receives a certificate. Only with this certificate is it possible to establish a tap-proof encrypted connection between your PC and the IP Control Center. The procedure is as follows:

- A browser attempts to establish a connection to a website secured via SSL.
- The browser requests the identity of the web server.
- The server sends a copy of its SSL certificate to the browser.
- The browser checks whether the certificate is trustworthy. If so, it sends a message to the server.
- The server then sends back a digitally signed confirmation in order to initiate an SSL-encrypted session.

For more information on certificates and how they work, see: https://en.wikipedia.org/wiki/Public_key_certificate.

3.3.1 Loading a customer-specific certificate

The IP Control Center supports the loading of customer-specific certificates. This is done via the configuration page of the IP Control Center. The “Certificates” tab can be used to load a certificate as well as the matching private key. After loading this certificate must be activated. See also chapter: 7.6 Certificates.

Note: To ensure secure access to the device, it is recommended that you purchase certificates from a certificate authority. Certificate authorities include, for example, Verisign https://www.verisign.com/ or Geotrust https://www.geotrust.com/de/ssl/. These certificates can then be loaded to the IP Control Center (see 7.6 Certificates). These certificates are then accepted as valid on all current browsers.

Note: Certificates can also be loaded directly from “https://<ip>/upload_cert.php". This page can be used to load a certificate as well as the matching private key. This requires authentication by means of the editor password. After loading this certificate must be activated.

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3.3.2 Creating a new certificate

The IP Control Center is also able to create a new certificate. The certificate created is self-signed and can therefore not be verified on the Internet. A certificate is already provided in the delivery state. If the customer wishes, this certificate can be replaced with a newly created certificate. This procedure is performed via the configuration page of the IP Control Center, in the “Certificates” tab. See also chapter: 7.6 Certificates. For security reasons, it is not advisable to create certificates with the IP Control Center.

Note: As these certificates are not issued by a certificate authority, browsers do not recognize them as valid, and browser-specific error messages occur. It is also more difficult or impossible to detect cyberattacks. That is why this procedure is not recommended. For security reasons, certificates must be created on the local network and not via a remote connection. You should manually create a new certificate in the following cases.

- Modification of the IP address or the network settings
- Modification of the DynDns address
- Modification of the host name

Note: A newly generated certificate is valid for 5 years and then has to be replaced.

3.3.3 Certificate query in the browser

The SSL protocol is used for the certificate query. If the certificate in use comes from a certificate authority, no further measures are required.

If the certificate used was created by the IP Control Center, its authenticity cannot be verified. That is why, when the visualization is called on a browser, a message appears, and this message must be acknowledged before any further work can be performed with the IP Control Center. It is displayed differently in every browser. For safety reasons, it is therefore not recommended to use certificates you have created yourself.

Note: If you use a customer-specific certificate, the browser can verify the authenticity and validity of the certificate on the Internet. In this case, there will be no further messages that need to be acknowledged.

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4 Commissioning

4.1 Scope of delivery and commissioning

The scope of delivery of the IP Control Center consists of:

- IP Control Center with pre-installed software
- Operating and assembly manual

The lower side of the REG housing contains the following, from left to right:

- 24 V AC/DC power supply
- KNX bus terminal block
- RJ45 jack for Ethernet

The factory settings of the IP Control Center

- IP address assignment: manual IP:
- IP address: 192.168.1.133
- Physical address: 15.15.255
- User password:
- Editor password: "**Siemens**"

For initial commissioning, a KNX project created with the ETS programming software should be available. This is the usual procedure. In general, it is however also possible to commission the IP Control Center without a project. After that the IP Control Center can be connected to the network. You can then access it with a web browser of your choice.
See chapter: 2.2.1 Web browser.

4.2 Error LED

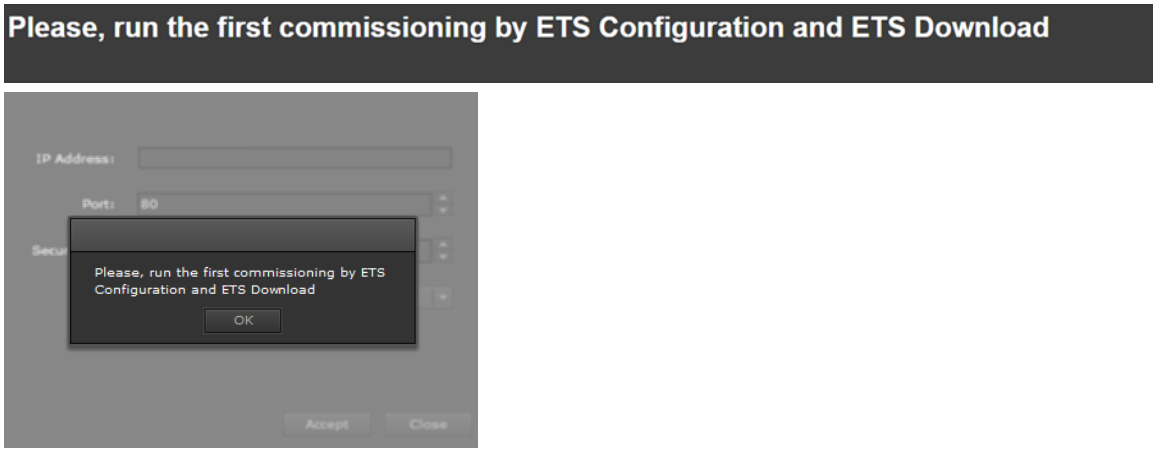
The Error LED indicates the following errors:

- KNX connection interrupted
- ETC application not loaded
- Email could not be sent
- Internal error

5 Quick guide

Please connect the device to a separate 24 V AC/DC voltage source on the KNX bus and to an IP network. Start the ETS, choose the "07 IP Control Center 983501" application program and add the IP Control Center to your project. You must then assign a physical address to the IP Control Center. This is also where you make general settings such as the IP parameters, password protection, date and time (the default is an NTP server on the Internet).

Note: Generally you must first perform an ETS configuration and a download. You cannot call up password-secured pages without previously having performed the ETS download. The relevant error messages appear as follows:



5.1 Changing passwords

After the ETS download, the user is prompted to change the password. You always need the previous password to change a password. After the ETS download, the current password is the password in the ETS configuration.
The password "**Siemens**" is configured for access to the editor. See also chapter: 3.2 Password management.

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The default user for visualization is "*visu*". This name cannot be changed. By default it should be necessary to comply with a password security rule, so that passwords are only accepted if they consist of at least 8 characters, upper and lower case letters and at least one number and special character. It is possible to deactivate the requirement that this demand be met by deactivating the checkbox on the page. However, this procedure is not recommended. The same procedure applies to the passwords for the web editor and the smart editor.

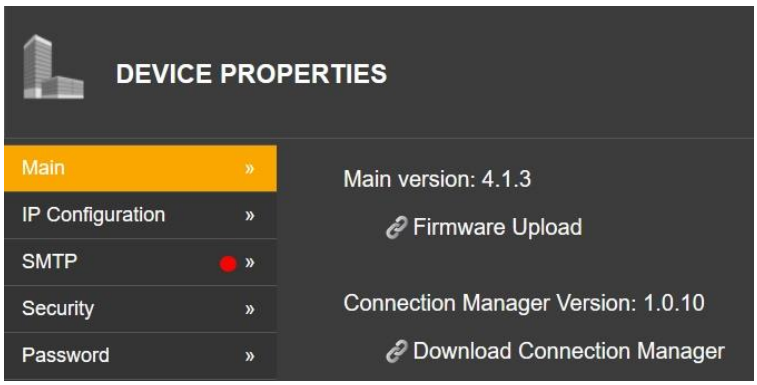
Note: It is possible to not assign a password for visualization. This will lead to direct access to the visualization without a login prompt. This procedure is not recommended. If passwords need or have to be reset, it is necessary to perform a master reset on the device. This procedure is described in detail in chapter: 14 Master reset (KNX files).

5.2 Calling the graphic editor

The graphic editor can only be called up if the Adobe AIR package (see also chapter: 2.2 System requirements) is installed on the computer. The connection manager is installed to enable various versions of an IP Control Center to be edited with the appropriate editor. It checks the current firmware of the selected IP Control Center and calls up the editor assigned to the firmware. The installation of the connection manager is described in the next chapter: 5.3 Installing the connection manager .

5.3 Installing the connection manager

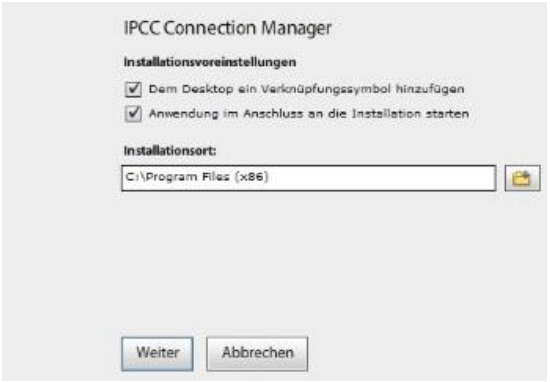
During initial commissioning, the connection manager can be loaded directly from the device. This is done either by calling the page: "http://<ip>/editor.php" or by loading the tool on the configuration page of the IP Control Center, see configuration page ("https://<ip>/config.php"). The requirement is that firmware **Version 4** or higher is installed.



The installation package for the connection manager is copied to the PC, usually to the Download directory.

Note: The connection manager is installed on the configuring PC in the directory: C:\Users\<username>\AppData\Roaming\IPCCConnectionManager\Local Store\versions\<Version>\editor.

After the installation begins, the following window appears:



Note: The connection manager and the editor can only be used if the Adobe AIR package is installed. The free download is available at www.adobe.com, or it is installed automatically via the Internet when the connection manager is installed. If this is not available on the computer already, it is installed directly during this setup. The delivery conditions are displayed and have to be accepted. After the installation, a shortcut will appear on the desktop if this option was activated in the prompt.

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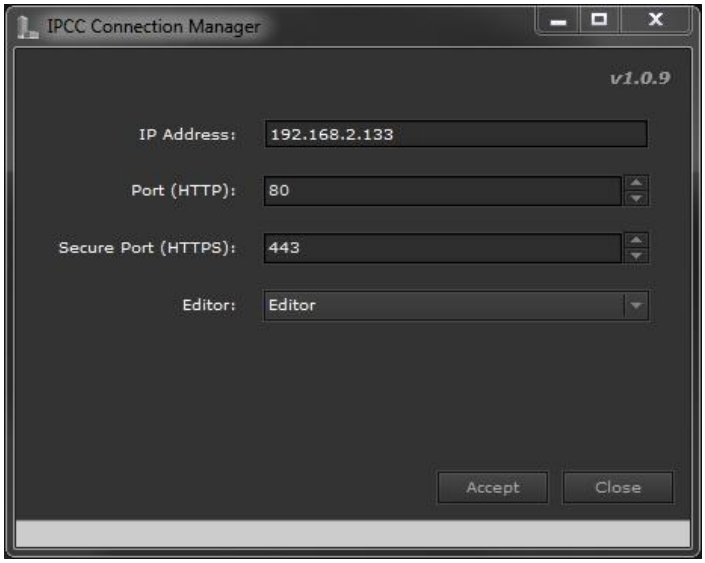
The connection manager launches with an interface in order to establish a connection to an IP Control Center. Here you can enter the connection data assigned earlier and select the required editor.

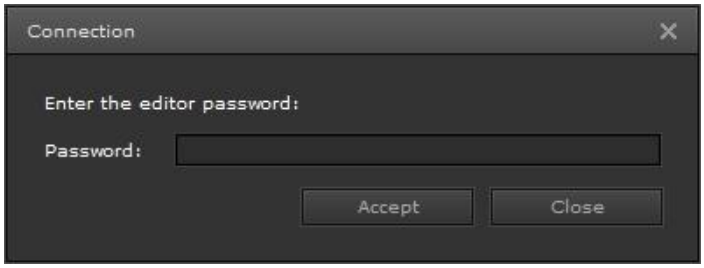


IP address: The IP address assigned to the IP Control Center in the ETS. If different IPCCs are in use, enter the address of the required device here. See also chapter: 6.2 Network settings.

Port (HTTP): This is where the port number of the integrated web server is set. It was assigned in the ETS. See chapter: 6.1 General settings.

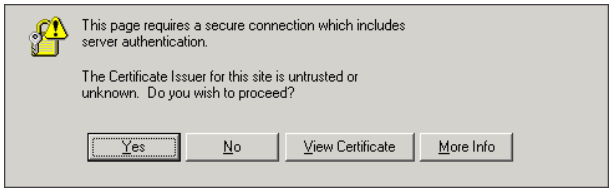
Port (HTTPS): Selection of the security port. See chapter: 17 Notes on security.

Editor: Selection of the required editor. See also chapter: 2.1 Conceptual overview of editors and visualization.



The password is requested in a second step. Then the selected editor is loaded and called up.

For security reasons, the validity of the certificate must be confirmed with "**Yes**":



Note: This message appears only if no certificate was imported from a certificate authority.

The configuration and use of the editor are described in detail in chapter: 9 Creating a project in the web editor.

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6 ETS configuration

This chapter provides an overview of the available communication objects and parameters.

- Maximum number of group addresses: 255
- Maximum number of group assignments: 510

Using the ETS, the specific parameters and addresses can be assigned and transferred to the bus device.

The firmware is loaded to the device ex works and can be updated with a firmware upload via the configuration page "https://<ip>/config.php". See also chapter: 15 Firmware update. To load the application program, you need the Engineering Tool Software (ETS) in version ETS 3 or higher.

Note: It is advisable to use a fixed IP address to ensure that the IP Control Center is always available at this IP address. Also ensure that the subnet mask must be set to at least 255.255.255.0.

To ensure an external connection to the Internet, e.g. so a time server can be reached or emails can be sent, the DNS server must also be set as the gateway to the address of the DSL router.

Note: It is very important to set the time in the IP Control Center to ensure that the scheduler programs and chart module operate correctly. In general it is possible to synchronize the time from the KNX, as long as the KNX project contains a real-time clock, e.g. a weather station. In this configuration, the IP Control Center runs as a "slave" and has to regularly receive the time from KNX via the objects and their group addresses. It is recommended to synchronize the time via an NTP time server on the Internet. The default ETS parameters are described in chapter: 6.3 Setting the date and time.

Note: After an ETS download, the DNS server and the gateway must be entered correctly in the ETS parameters. Please note that generally the password for the editor and for the normal visualization must be changed after an ETS download, see chapter: 3.2 Password management. Also ensure that the time (slave or master) is set correctly.

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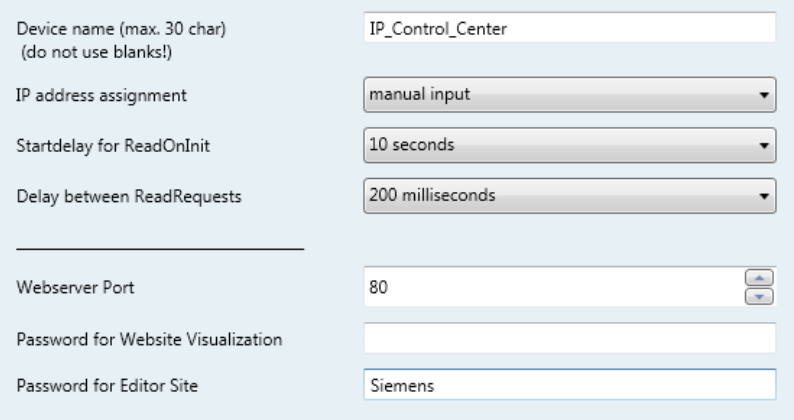
6.1 General settings

General device settings:



Parameter	Settings
Device name (max. 30 char)	IP_Control_Center
Here you can define the device name	
IP address assignment	**Manual input** via DHCP server
The IP address is either entered manually or assigned automatically via a DHCP server.	
Startdelay for ReadonInit	**10 seconds** 20 seconds 30 seconds 1 minute 2 minutes 3 minutes 4 minutes 5 minutes
Here you can set the time delay before the query of status objects begins after the bus reset.	

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Delay between ReadRequests	**200 milliseconds** 500 milliseconds 1 second 2 seconds
Here you can enter the time offset between individual "value read" queries.	
Webserver Port	**80** (0...65535)
Here you can define the port number of the integrated web server. The default value is port number 80.	
Password for Website Visualization	
Here you define the password for the web, smart and tablet visualization, as well as for the password page. No default password is defined. You can enter up to 8 characters (0-9, A-Z). The input is not case-sensitive. It is strongly recommended that you assign a secure password for visualization.	
Password for Editor Site	**Siemens**
This is where the password for the graphic web editor and the firmware upload page is defined. By default the password is "**Siemens**". You can change it here. You can enter up to 8 characters (0-9, A-Z). The input is not case-sensitive. It is strongly recommended that you assign a secure password to the editor instead of using the default value (Siemens).	

Note: The visualization pages and the editors needed for configuration should be well protected against unwanted requests from the Intranet or Internet. To this end, the password protection for the IP Control Center must be applied! Furthermore, the default password "**Siemens**" entered from the ETS must be changed. Use as many different characters as possible. Choose a random password without repetition or a personal connection. Change your password regularly. See also: 3.2.5 Changing passwords.

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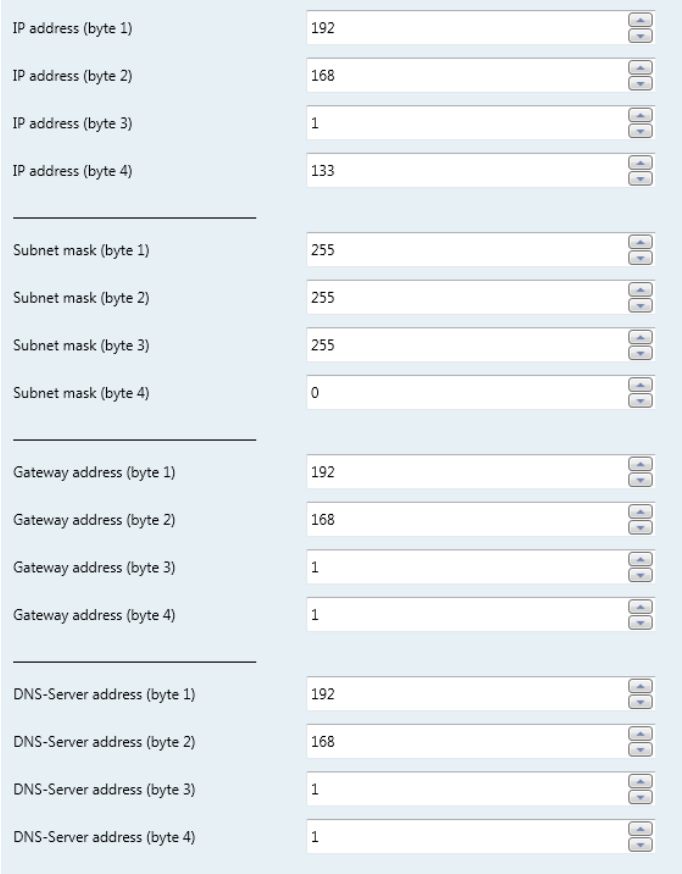
6.2 Network settings



Parameter	Settings
IP address (byte 1)	**192** (0...255)
IP address (byte 2)	**168** (0...255)
IP address (byte 3)	**1** (0...255)
IP address (byte 4)	**133** (0...255)

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The standard IP address of the IP Control Center is specified here. If a DHCP mode is set, this address is permanently overwritten by the address assigned by the DHCP server. The IP address 0.0.0.0 is invalid and only useful if the DHCP server is activated. This parameter is not displayed if “IP address assignment” is set to “via DHCP server”. After the IP address is changed, a new certificate should be created, see chapter: 3.3 Certificates.	
Subnet mask (byte 1)	**255** (0...255)
Subnet mask (byte 2)	**255** (0...255)
Subnet mask (byte 3)	**255** (0...255)
Subnet mask (byte 4)	**0** (0...255)
The standard IP subnet mask of the IP Control Center is specified here. If a DHCP mode is set, this address is permanently overwritten by the mask assigned by the DHCP server. If the device is configured without a DHCP server (setting: fixed IP address), the device must have the matching subnet mask in order to work. This parameter is not displayed if “IP address assignment” is set to “via DHCP server”.	
Gateway address (byte 1)	**192** (0...255)
Gateway address (byte 2)	**168** (0...255)
Gateway address (byte 3)	**1** (0...255)
Gateway address (byte 4)	**1** (0...255)
The standard gateway is used to send telegrams addressed to a computer outside the local network. If a DHCP mode is set, this address is in every case permanently overwritten by the DHCP server. If the DHCP server itself does not transmit an address for a gateway, the assumption is made that no gateway is to be used. If you want to configure the device without a standard gateway, you must use the specified (invalid) address (0.0.0.0). This parameter is not displayed if “IP address assignment” is set to “via DHCP server”.	
DNS-Server address (byte 1)	**192** (0...255)
DNS-Server address (byte 2)	**168** (0...255)
DNS-Server address (byte 3)	**1** (0...255)
DNS-Server address (byte 4)	**1** (0...255)

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This is where the IP subnet mask of the DNS server is specified. If a DHCP mode is set, this address is permanently overwritten by the mask assigned by the DHCP server. If the device is configured without a DHCP server (setting: fixed IP address), the device must have a DNS server address to enable name resolution, e.g. in order to reach a new time server. Usually the standard gateway is also the DNS server. This parameter is not displayed if “IP address assignment” is set to “via DHCP server”.

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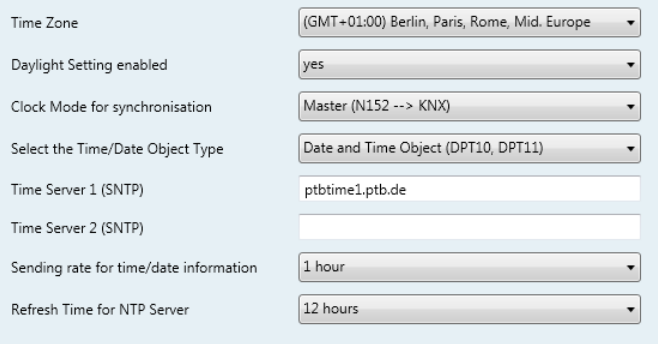
6.3 Setting the date and time



Parameter	Settings
Time zone	(GMT-11:00) Midway Island, Samoa (GMT-10:00) Hawaii (GMT-09:00) Alaska (GMT-08:00) Pacific Time (GMT-07:00) Arizona (GMT-07:00) Chihuahua, La Paz (GMT-07:00) Mountain Time (GMT-06:00) Central Time (GMT-06:00) Central America (GMT-06:00) Guadalajara, Mexico City (GMT-06:00) Saskatchewan (GMT-05:00) Eastern Time (GMT-05:00) Indiana (East) (GMT-05:00) Bogota, Lima, Quito (GMT-04:00) Atlantic Time (Canada) (GMT-04:00) Santiago (GMT-04:00) Cuiaba – Brazilian (GMT-04:00) Caracas, La Paz (GMT-03:30) Newfoundland (GMT-03:00) Brasilia (GMT-03:00) Montevideo (GMT-03:00) Cayenne, Fortaleza (GMT-03:00) Buenos Aires (GMT-02:00) Mid-Atlantic (GMT-01:00) Azores, Cape Verde Is. (GMT) Casablanca, Monrovia (GMT) Dublin, Edinburgh, Lisbon (GMT) Monrovia, Reykjavík (GMT+01:00) Brussels, Copenhagen **(GMT+01:00) Berlin, Paris, Rome** (GMT+01:00) Sarajevo, Skopje (GMT+01:00) Belgrade, Bratislava (GMT+02:00) Minsk

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	(GMT+02:00) Cairo (GMT+02:00) Helsinki, Riga, Tallinn (GMT+02:00) Jerusalem (GMT+02:00) Amman (GMT+02:00) Beirut (GMT+02:00) Damascus (GMT+02:00) Harare, Pretoria (GMT+02:00) Athens, Bucharest (GMT+03:00) Nairobi (GMT+03:00) Moscow, St. Petersbg. (GMT+03:00) Tehran (GMT+04:00) Abu Dhabi, Muscat (GMT+04:00) Yerevan (GMT+04:00) Baku (GMT+04:00) Tbilisi (GMT+04:30) Kabul (GMT+05:00) Ekaterinburg (GMT+05:00) Islamabad, Karachi (GMT+05:30) Bombay, Calcutta (GMT+06:00) Almaty, Dhaka (GMT+06:00) Astana (GMT+07:00) Bangkok, Hanoi (GMT+08:00) Beijing, Chongqing (GMT+08:00) Perth (GMT+08:00) Kuala Lumpur (GMT+09:00) Osaka, Sapporo, Tokyo (GMT+09:00) Yakutsk (GMT+09:00) Seoul (GMT+09:30) Adelaide (GMT+09:30) Darwin (GMT+10:00) Brisbane (GMT+10:00) Canberra, Melbourne (GMT+10:00) Hobart (GMT+10:00) Vladivostok (GMT+11:00) Magadan, Solomon Is. (GMT+12:00) Auckland, Wellington (GMT+12:00) Fiji, Kamchatka
These parameters are used to set the time zone of the user's location.	
Daylight Setting enabled	**Yes** No
If you choose "yes", there will be an automatic switch to and from daylight saving time. If you choose "no", there will be no switching to and from daylight saving time.	
Clock Mode for synchronization	Master (N152 -> KNX) **Slave (KNX -> N152)**
The following synchronization options are available: Synchronization via the device (master mode). In this mode, the time can be synchronized via a time server via IP. Synchronization via KNX (slave mode). In this operating mode the internal clock is synchronized via telegrams from the KNX.	

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Select the Time/Date Object Type	**Date and Time Object (DPT 10, DPT 11)** Date/Time Object (DPT 19.001) Both types
The time and date information can be sent via 2 different data types, one date object and one time object (DPT 10, DPT 11). Or the time and date information can be sent via a combined object (DPT 19). If "Both type" are selected, all three data types are created.	
Time Server 1 (SNTP)	**ptbtime1.ptb.de**
Time Server 2 (SNTP)	
To synchronize the real-time clock, a time server (SNTP) can be polled at regular intervals. Two time servers can be configured for this purpose. If "Clock synchronization" is set to "Slave (KNX -> N152)", this parameter is not displayed.	
Sending rate for time/date information	1 minutes 2 minutes 5 minutes 10 minutes 30 minutes **1 hour** 2 hours 4 hours 8 hours 12 hours 24 hours
This is where the sending rate is set at which the date and time information is transmitted to the KNX bus. If "Clock synchronization" is set to "Slave (KNX -> N152)", this parameter is not displayed.	
Refresh Time for NTP Server	1 hour 2 hours 4 hours 8 hours **12 hours** 24 hours
This is where the time interval is set within which the time server (SNTP) is regularly polled. If "Clock synchronization" is set to "Slave (KNX -> N152)", this parameter is not displayed.	

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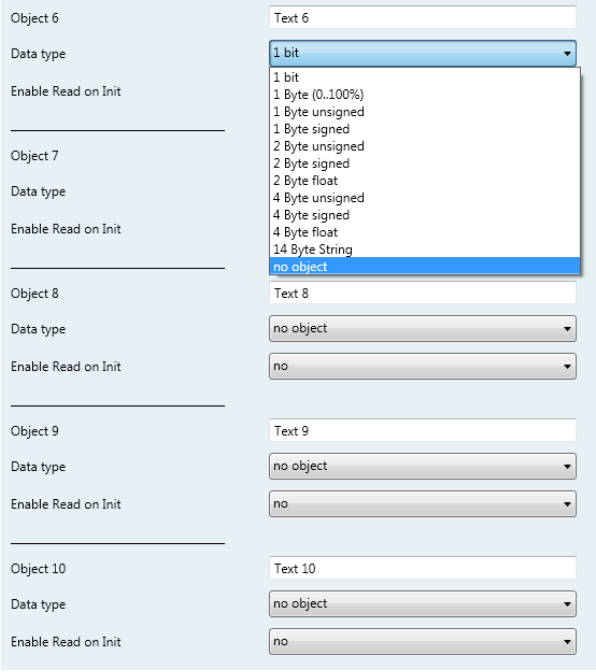
6.4 Settings for objects 6-10, 11-15, 16-20... 246-250, 251-255



Parameter	Settings
Object 6	Text 6
This parameter is used to describe the 6th object. This assigns a name to the function connected to this object. This configuration can be performed accordingly for all objects.	
Data type	1 bit 1 Byte (0..100%) 1 Byte unsigned 1 Byte signed 2 Byte unsigned 2 Byte signed 2-byte float 4 Byte unsigned 4 Byte signed 4-byte float 14 Byte String **no object**
This parameter is used to set the data type of communication object 6. This configuration can be performed accordingly for all objects.	
Enable Read on Init	**no** yes
This parameter can be used to define for each object whether a “value read” value query should be sent to the KNX bus every time the device is started.	

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Note: The number and type of available communication objects can vary, depending on the parameter settings.

6.5 Error status communication object

Obj	Object name	Function	Type	Flag
1	Device status	Status	4 byte	KLÜ

To implement an automatic diagnosis of the device that runs in the background, the current service status of the IP Control Center is sent to the bus. A DPT 4 Byte "unsigned" is used for the configuration. This communication object is exclusively designed for use as a diagnostic object and must not be used for other tasks. Whenever an error occurs, an assigned value (error code) is automatically sent to the KNX bus. This allows a quick analysis to be performed on the basis of the error code table. When the error has been rectified, the value 0 is sent to the bus.
0 - no error
<>0 - error

Error analysis with masks:

Web error	0x00100000	// Service has not started
Policy error	0x00200000	// Service has not started
FTP error	0x00400000	// Service has not started
DNS error	0x00800000	// DNS not okay
SMTP user name not defined	0x01000000	// User input required
SMTP password not defined	0x02000000	// Password input required
SMTP password incorrect	0x04000000	// User or password not okay
SMTP connection broken	0x10000000	// Cannot reach server
SMTP server/port error	0x20000000	// Server or port not okay
SMTP invalid host name	0x40000000	// invalid server name
SMTP error	0x80000000	// unknown error

The status object is reset to 0 if the KNX bus is not connected.

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6.6 Date and Time communication objects

Obj	Object name	Function	Type	Flag
2	Date	Date (DPT 11.001)	3 Byte	KSA
The current value for the date is received via the group address for this object. The date is synchronized via telegrams from the KNX bus. This object appears only if "Clock synchronization" is set to "Slave (KNX -> N152)" and "Select the Time/Date Object Type" is set to "Date and Time Object (DPT 10, DPT 11)".				
3	Time	Time (DPT 10.001)	3 Byte	KSA
The current value for the time is received via the group address for this object. The time is synchronized via telegrams from the KNX bus. This object appears only if "Clock synchronization" is set to "Slave (KNX -> N152)" and "Select the Time/Date Object Type" is set to "Date and Time Object (DPT 10, DPT 11)".				
4	DateTime	DateTime (DPT 19.001)	8 Byte	KSA
The current value for the date and time is received via the group address for this combined object. The date and time are synchronized from the KNX bus via a telegram. This object appears only if "Clock synchronization" is set to "Slave (KNX -> N152)" and "Select the Time/Date Object Type" is set to "Date/Time Object (DPT 19.001)".				
2	Date	Date (DPT 11.001)	3 Byte	KLÜ
The current value for the date is sent to the KNX bus via the group address for this object. The value is polled by the configured time server. This object appears only if "Clock synchronization" is set to "Master (N152 -> KNX)" and "Select the Time/Date Object Type" is set to "Date and Time Object (DPT 10, DPT 11)" or "Both types".				
3	Time	Time (DPT 10.001)	3 Byte	KLÜ
The current value for the time is sent to the KNX bus via the group address for this object. The value is polled by the configured time server. This object appears only if "Clock synchronization" is set to "Master (N152 -> KNX)" and "Select the Time/Date Object Type" is set to "Date and Time Object (DPT 10, DPT 11)" or "Both types".				
4	DateTime	DateTime (DPT 19.001)	8 Byte	KLÜ
The current value for the date and time is sent to the KNX bus via the group address for this object. The value is polled by the configured time server. This object appears only if "Clock synchronization" is set to "Master (N152 -> KNX)" and "Select the Time/Date Object Type" is set to "Date and Time Object (DPT 10, DPT 11)" or "Both types".				

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6.7 Communication object: Scene

Obj	Object name	Function	Type	Flag
5	Scene xx	Scene	1 Byte	KSÜ
An 8-bit scene with a configured scene number is sent via the group address for this object. To activate a scene 1...64, a value of 0...63 is sent. This scene is edited in the "Scene control" module, KNX scene 1 to KNX scene 64.				

6.8 Function communication objects: Object 6 – 10 to object 251 - 255

Obj	Object name	Function	Type	Flag
6...255	Object 6...255, Switching	On / Off	1 bit	KSÜA
An "On" or "Off" switching telegram is sent via the group address for this object.				

Obj	Object name	Function	Type	Flag
6...255	Object 6...255, Percent	0...100 %	1 Byte	KSÜA
A value (0...100 %) is sent via the group address for this object.				

Obj	Object name	Function	Type	Flag
6...255	Object 6...255, 1 Byte value	unsigned	1 Byte	KSÜA
An unsigned value (0...255) is sent via the group address for this object.				

Obj	Object name	Function	Type	Flag
6...255	Object 6...255, 1 Byte value	signed	1 Byte	KSÜA
A signed value (-128...127) is sent via the group address for this object.				

Obj	Object name	Function	Type	Flag
6...255	Object 6...255, 2 Byte value	unsigned	2 Byte	KSÜA
An unsigned value (0...65535) is sent via the group address for this object.				

Obj	Object name	Function	Type	Flag
6...255	Object 6...255, 2 Byte value	signed	2 Byte	KSÜA
A signed value (-32768...32767) is sent via the group address for this object.				

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Obj	Object name	Function	Type	Flag
6...255	Object 6...255, 2 Byte float	float	2 Byte	KSÜA
A floating value (-671088.0...670760.9) is sent via the group address for this object.				

Obj	Object name	Function	Type	Flag
6...255	Object 6...255, 4 Byte value	unsigned	4 Byte	KSÜA
An unsigned value (0...4294967295) is sent via the group address for this object.				

Obj	Object name	Function	Type	Flag
6...255	Object 6...255, 4 Byte value	signed	4 Byte	KSÜA
A signed value (-2147483648...2147483647) is sent via the group address for this object.				

Obj	Object name	Function	Type	Flag
6...255	Object 6...255, 4 Byte float	float	4 Byte	KSÜA
A floating value (EIS9) is sent via the group address for this object.				

Obj	Object name	Function	Type	Flag
6...255	Object 6...255, Text message	Text	14 Byte	KSÜA
A 14 Byte value is sent as a text message via the group address for this object.				

6.9 Working with group addresses from firmware version 2.0

From firmware version 2.0 it is possible to directly use up to 1000 group addresses in addition to the communication objects. They can be linked directly to the components or used from a list via drag & drop.
See chapter: 10.2 Control elements in the component list.

6.9.1 OPC Export

For group addresses to be used, they can be exported from the ETS. The ESF format is required for importing group addresses to the IP Control Center.

6.9.1.1 Export from ETS 5

Select the required project on the overview page of the ETS and then right-click on → "Export" to trigger the export.
A dialog window opens for selecting the required format (esf format) and for assigning the file name. Alternatively the export can also be triggered by means of the export symbol on the band of buttons.

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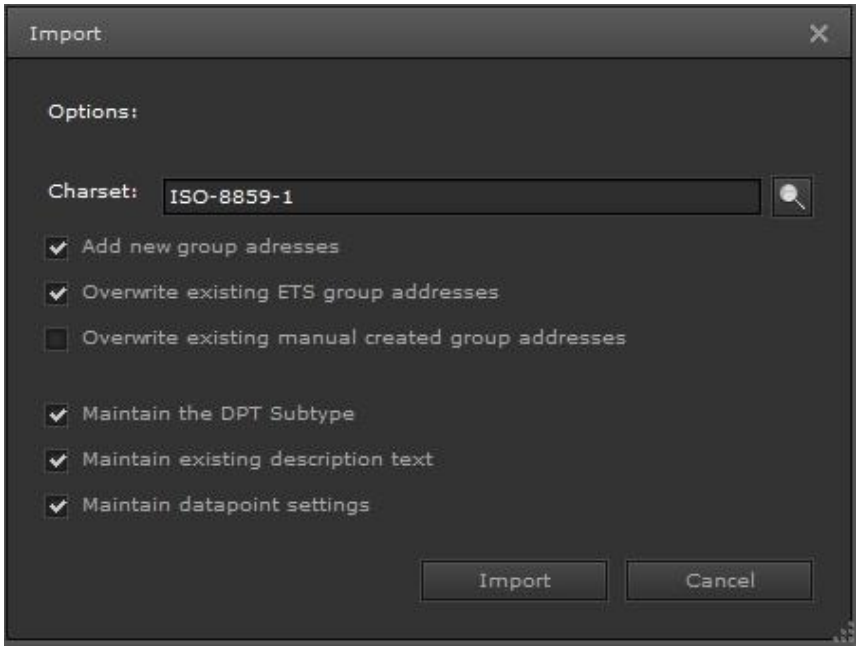
In the editor of the IP Control Center, it is possible to import an esf file previously generated by the ETS as an OPC export, under menu option → "*File/Import*". See chapter: 8.5.2 The file menu.



Charset: If special characters such as Greek or Chinese are used, the corresponding character set can be preselected here.

Add new group address: If activated, new group addresses are added during the import.

Overwrite existing ETS group addresses: If activated, existing group addresses are replaced with new addresses.

Overwrite existing manual created group addresses: If activated, manually added group addresses are replaced with new ones.

Maintain the DPT Subtype: If activated, the currently assigned datapoints are not changed.

Maintain existing description text: If activated, current description texts are not replaced.

Maintain datapoint settings: If activated, the properties of the datapoints are not overwritten.

The display in the editor is familiar from the ETS. During an "*.esf export" from the ETS, the data length is known but not the exact data type, so the following default setting is made in the editor:

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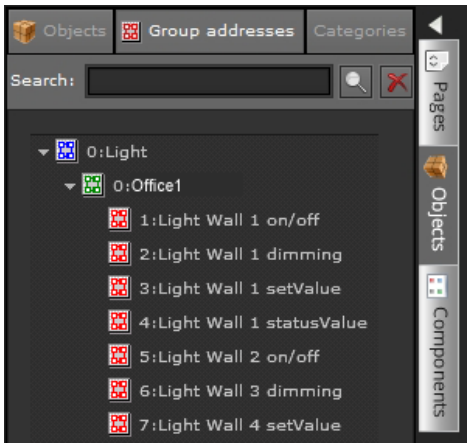
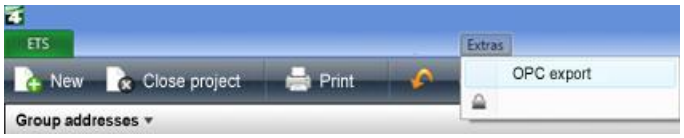


1 bit → 1 bit
1 byte → 1 byte unsigned
2 byte → 2 byte float, SubDPT: DPT_Value_Temp
4 byte → 4 byte float

6.9.1.2 Export from ETS 4

To enable the use of group addresses in older ETS version, and OPC Export can be performed as follows. To do so, the menu option *Extras → Export OPC* is selected from the button bar. All group addresses already linked in the ETS project are saved in the ESF format. The import to the IP Control Center is performed as described before.



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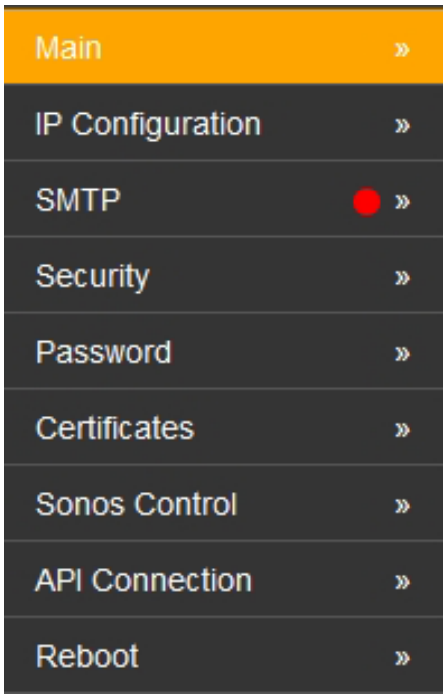
7 Configuration manager

The configuration manager of the IP Control Center displays the most important settings and enables the configuration of various properties. The configuration page is called via the URL "https://<ip>/config.php". The following section describes all menu subitems (available settings) in detail.



The following settings are available:

- General
- IP Configuration
- SMTP
- Security
- Password
- Certificates
- Sonos Control
- API Connection
- Reboot

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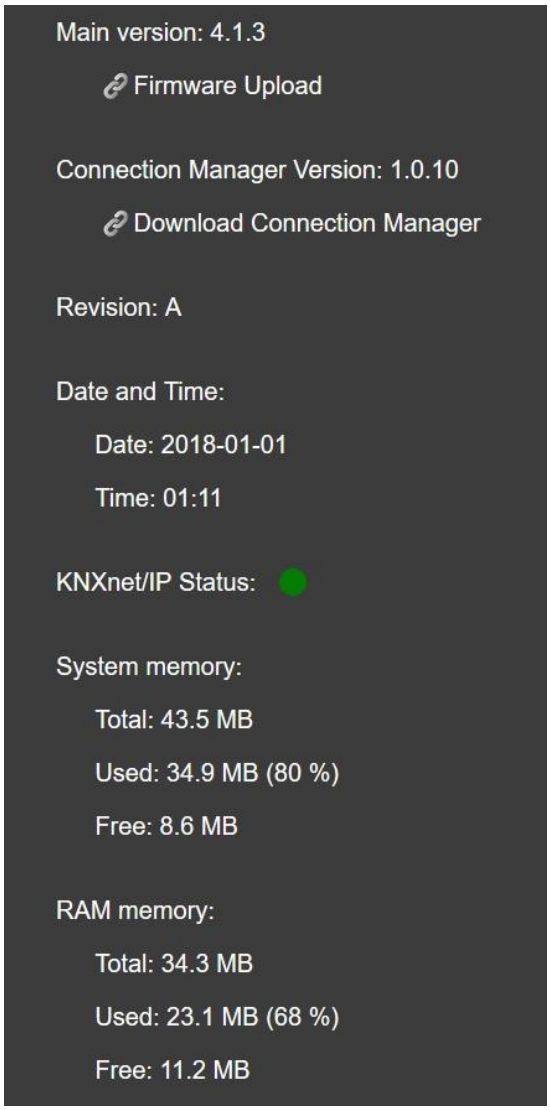
7.1 General

Main »

The “General” tab can be used to load new firmware to the device, load the connection manager required for the editor, and call up all relevant information about the device.



Displays the installed firmware version and the update function for new firmware. See chapter: 15 Firmware update.

Displays the installed version of the connection manager and the update function for updating the connection manager.

Displays the current date and time on the IP Control Center.

Check the status of the tunnels connection. The red indication means inactive, the green one means active.

Displays the existing and used Flash memory.

Displays the existing RAM memory and its usage.

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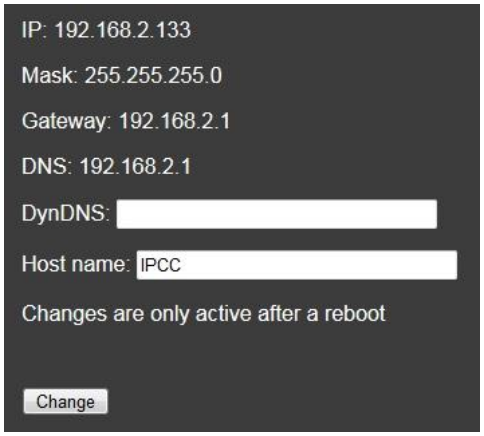
7.2 IP configuration

This tab is used to display and configure the IP settings.



IP: Displays the network address specified in the ETS.

Mask: Displays the IP subnet mask address specified in the ETS.

Gateway: Displays the gateway address specified in the ETS.

DNS: Displays the DNS address specified in the ETS.

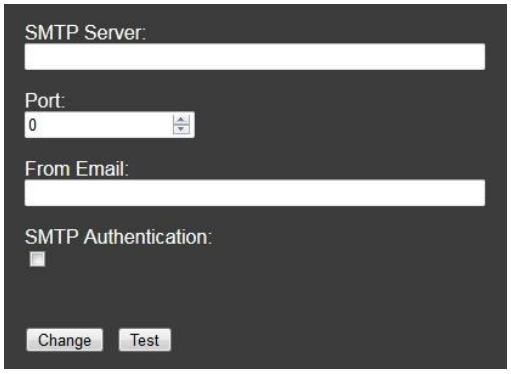
DynDNS: Enter the domain name registered with a DDNS service. See also chapter: 20.1 Definitions.

Host name: In Microsoft networks, you can also use the host name to address the device with this designation. This can be changed, and the change will take effect after the system is restarted. See also chapter: 6 ETS configuration.

Note: If the host name or DynDNS are changed, a new certificate should be created manually, see chapter:3.3 Certificates. The certificate is completed with entries in the "Certificate Subject Alt Name". This prevents additional warnings during the validation of the certificate.

7.3 SMTP

From firmware Version 4, the SMTP configuration is no longer performed in the web editor, but is instead called up via this tab on the configuration page "https://<ip>/config.php".



Host IP: Name of the outgoing email server (e.g. smtp@gmx.de).

Port: Port of the SMTP server (e.g. 587).

From Email: Sender of the email.

SMTP Authentication: If authentication is required, this option must be activated. A new window appears where the user name and the password are entered. During authentication it is not possible to select SSL or TTLS.

Note: You are strongly advised not to use an SMTP configuration without authentication and without TLS encryption.

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Note: To check the information and error-free execution of an email, you can press the "Test" button. This causes a test email to be sent to the sender.

Example: Hotmail

Host IP: The address of the Hotmail SMTP server is: smtp.live.com.

Port: The required Hotmail SMTP port: 587.

From Email: Your full Hotmail address (e.g. example@hotmail.com).

SMTP Authentication: Activate this option.

User: Hotmail SMTP user name: Your full Hotmail address (e.g. example@hotmail.com).

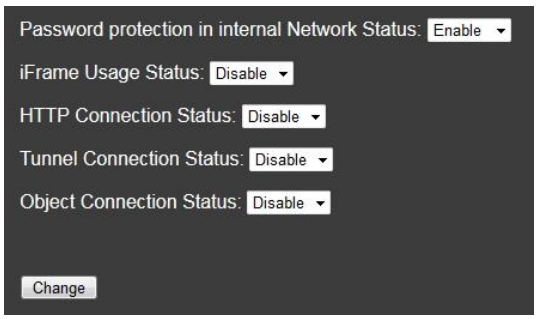
Password: The saved Hotmail password.

Authentication: TTLS

Note: Gmail calls for specific security procedures that are not supported in the IP Control Center. If you want to use Gmail as your provider nonetheless, you have to configure your Gmail account accordingly. See: https://support.google.com/accounts/answer/6010255?hl=en and https://www.google.com/settings/security/lesssecureapps.

7.4 Security

This subitem can be used to activate and deactivate the following security properties. See also chapter: 17 Notes on security.



Password protection in internal Network Status: This setting is used to deactivate password protection in local networks. This means that all devices in the same subnet are permitted to call up the visualization without a password request. Requests from other subnets or the Internet are only accepted with a request.

iFrame Usage Status: The default settings do not permit the visualization to be displayed in a window of a different server. However, this setting can also be enabled for a corresponding application.

HTTP Connection Status: Unencrypted HTTP connection is disabled by default.

Note: For security reasons, you are advised not to permit unencrypted HTTP connections.

Tunnel Connection Status: The KNXnet/IP tunnel can be disabled with this setting for security reasons. By default the tunnel is active.

Object Connection Status: The KNXnet/IP object server can be disabled with this setting for security reasons. By default the tunnel is active.

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Note: To confirm the changes, you need the current editor password. See chapter: 3.2.3 Configuration password (editor).

7.5 Password

This subitem can be used to assign and change passwords. See also chapter: 3.2 Password management.

The default user for visualization is “visu". This name cannot be changed. By default it should be necessary to comply with a password security rule, so that passwords are only accepted if they consist of at least 8 characters, upper and lower case letters and at least one number and special character.

It is possible to deactivate the requirement that this demand be met by deactivating the checkbox on the page. You are advised not to disable this function and use unsafe passwords. See also chapter: 3.2 Password management.

Note: The same procedure applies to the passwords for the editor and the smart editor.

Note: You always need the previous password to change a password.

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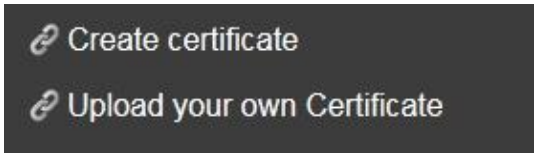
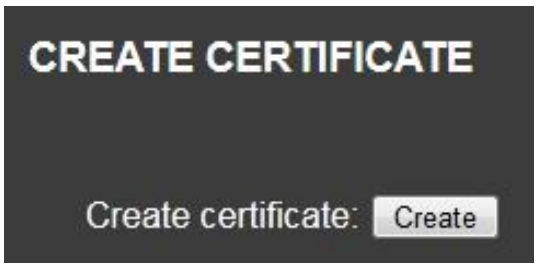
7.6 Certificates

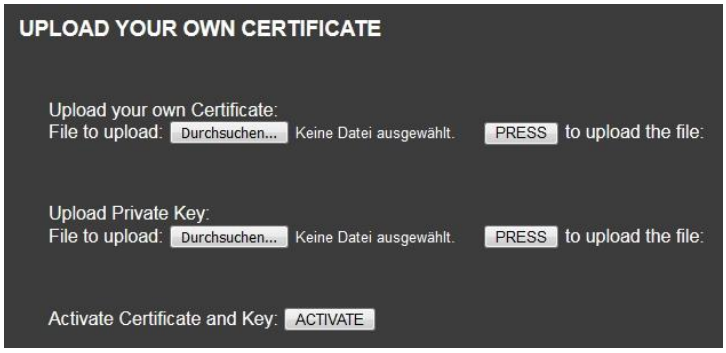
To offer an SSL-encrypted connection to your server, you need an SSL certificate. This subitem allows you to create a new certificate or load an own certificate. See also chapter: 3.3 Certificates.





After a new certificate is created, the new certificate must be accepted in the browser.

It is also possible to load an own certificate. For that purpose, the certificate must be loaded in the form of a .pem file. Then the private key is loaded in the form of a .pem file. Use the "Activate" button to activate the certificate and the private key.



Note: It is not advisable to use self-signed certificates.

Note: You are advised to purchase and use certificates from a certificate body such as Verisign https://www.verisign.com/ or Geotrust https://www.geotrust.com/de/ssl/.

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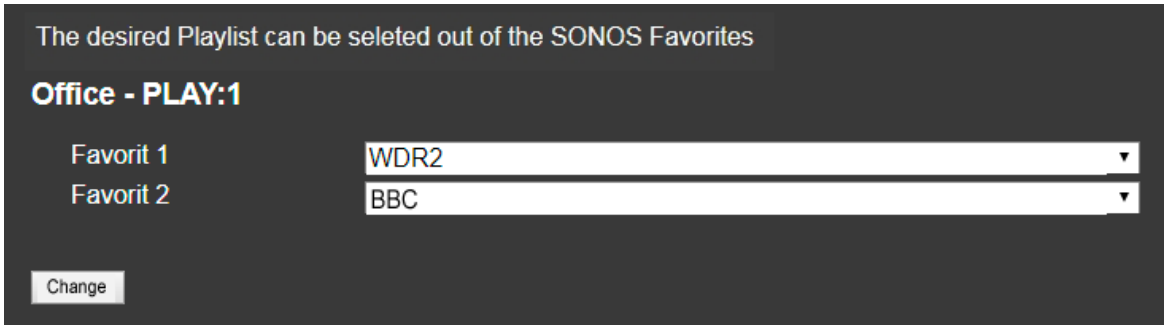
7.7 SONOS Module

The company SONOS develops and produces active speaker systems and HiFi components that are connected wirelessly via a WLAN. The IP Control Center can be used to control the Sonos speakers directly. Basic settings for the SONOS module are made in the editor. See chapter: 11.9 Sonos Control.

The configuration page of the IP Control Center allows a previously defined playlist to be called up. It is called with the name stored in the SONOS favorites. To change this trigger online without the editor, you can use this page and a drop-down box displaying all configured favorites to change the assignment to the triggers.



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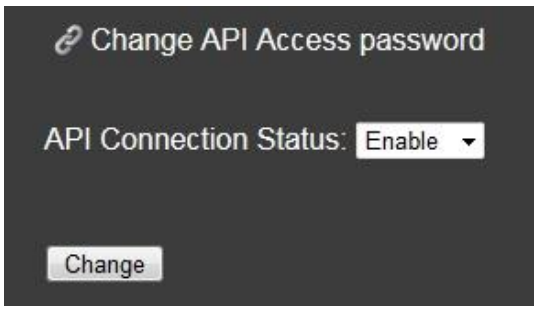
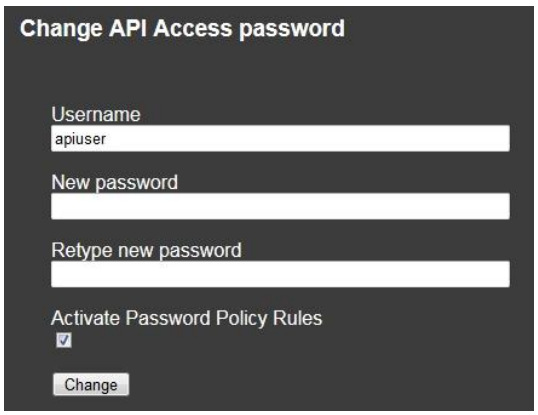
7.8 API Connection

API stands for Application Programming Interface. An API is a program interface that designers and developers use to access the functions of an application. Unlike on a user interface, an API connection allows applications to communicate directly, rather than a person communicating with a system.



API Connection Status: By controlling the API Connection you can use functions such as voice control in the IP Control Center. By default the interface is deactivated. Voice control can only be used if the API interface is activated. See also chapter: 7.8.1 Voice control.



The API interface with the default user "*apiuser*" has no valid password by default. This setting must be changed immediately via the central configuration page if this interface is used.
The current editor password is required to change the password.
It is strongly recommended to assign a secure password for the API interface. See chapter: 3.2.5 Changing passwords.

7.8.1 Voice control

Voice control systems such as ALEXA and GOOGLE HOME are supported by a third-party app from 1HOME from firmware **Version 4**. The following steps are required for activation:

7.8.1.1 Register with the 1HOME service provider.

Once you have registered with 1HOME, you can connect the IP Control Center via a fixed IP address or via a DynDNS entry and a port number. This port number must be linked to the internal IP address of the IP Control Center in your DSL router (port forwarding). See also chapter: 17.5 Port forwarding. For authentication, the previously defined password and the user "**apiuser**" must be entered. Then the configuration is loaded from the IP Control Center to your 1HOME account.
To activate the interfaces in ALEXA or GOOGLE HOME, please follow the instructions on the 1HOME website.
Please contact 1HOME support in case of questions: https://www.1home.io.

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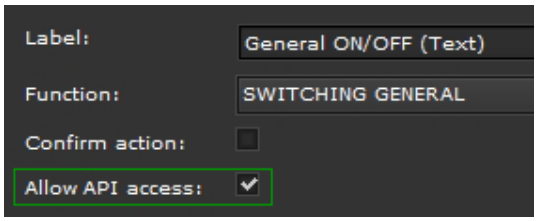
Note: The service provided by 1HOME is not free, and the user has to set up an account with 1HOME. For more information see the 1HOME website: https://www.1home.io.

Note: ALEXA and GOOGLE HOME are registered trademarks. See chapter: 20.3 References.

7.8.1.2 Protecting access with a password

The API interface with the default user "*apiuser*" has no valid password by default. This setting must be changed immediately via the central configuration page if this interface is used. The current editor password is required to change the password. See also chapter: 3.2.4 Other passwords.

7.8.1.3 Activating individual voice control functions



In the smart editor each function can be enabled separately for voice control access. For this purpose, the "Allow API access" checkbox must be checked. The label and the higher-level menu item are later used as name and space for voice control. See also chapter:12.2.2 Topology and functions.

7.9 Reboot

Here you can reboot the device.

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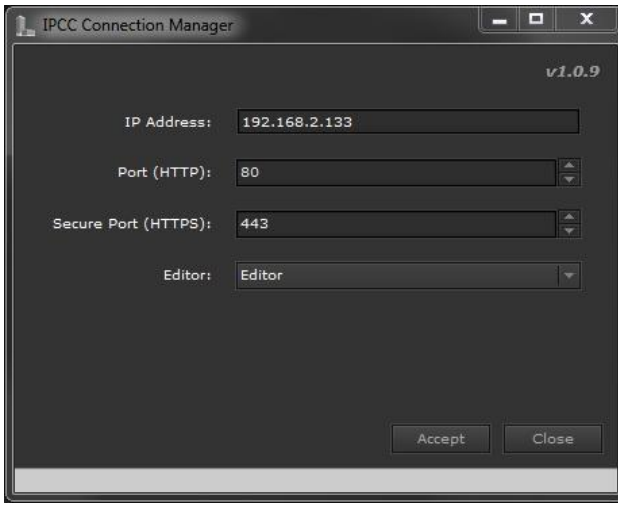
8 Configuration

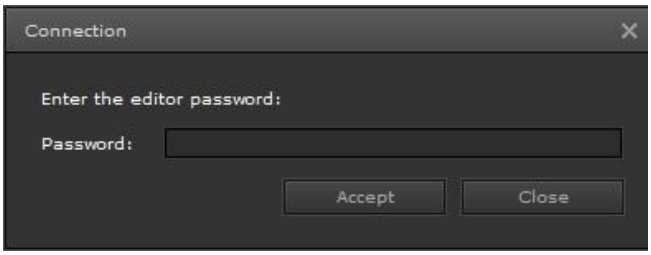
8.1 Configuring the IP Control Center

Before you call the web editor, the ETX configuration and the configuration of the application program should be complete. The web editor will then identify all required communication objects with their assigned data. See also chapter: 6 ETS configuration. To connect to the network, it is necessary to make the relevant settings on the PC/laptop as well.

8.2 Calling the editor

The editor is started from the connection manager. This is where the web editor (editor) for configuring a graphic visualization or for configuring the central functions is called. See also chapter: 5.2 Calling the graphic editor.
The call must be confirmed by entering the editor password. See chapter: 3.2.3 Configuration password (editor).





Note: Only one designer can be logged on to the web editor at any time. If a second designer logs on (e.g. via remote access), a warning message appears.

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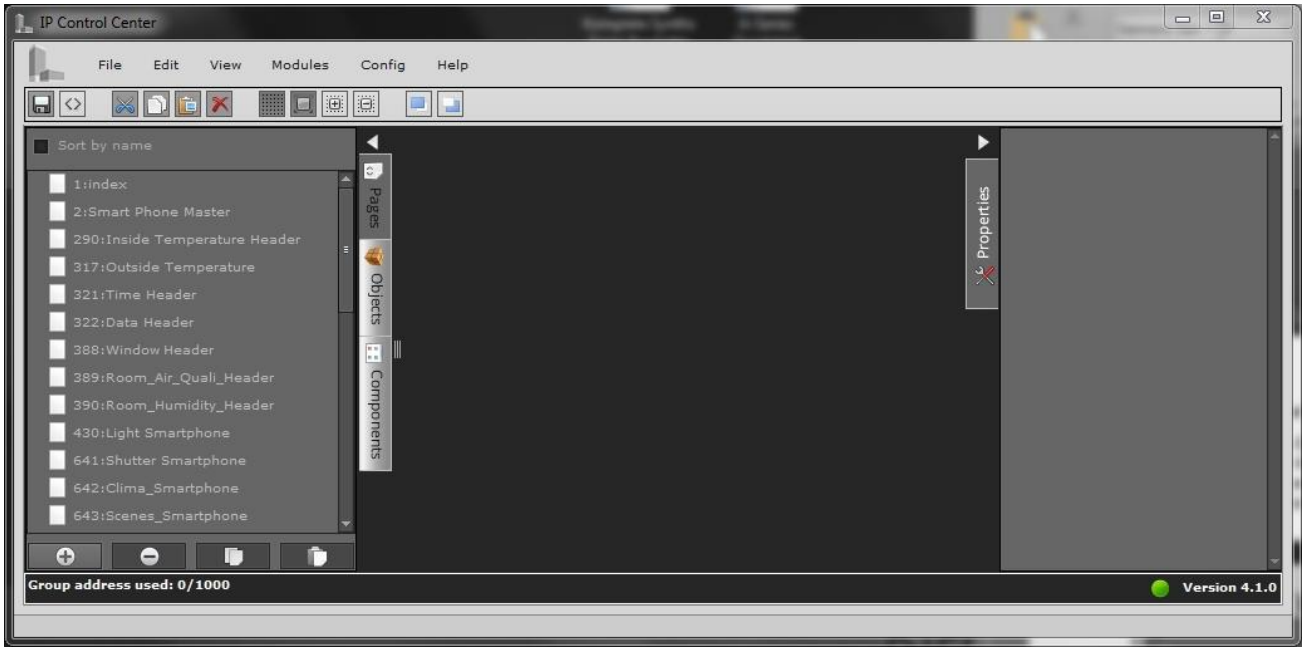
8.3 Setting the language

In the delivery state, the language is set to English. To change this, please open the selection window in the Configuration → Language menu. The window closes once you have selected your required language. The selected language will only take effect when the editor is restarted. To do this, close the editor and log on again via the connection manager. See also chapter:

8.5.6 The configuration menu.

8.4 User interface of the editor

The illustration shows the user interface of the web editor. The title bar of the main menu is at the upper edge of the screen. Underneath the main menu, symbols are displayed for the most important output functions such as Save, Delete, Copy, Cut etc. The workspace for visualization is at the center of the screen. The menu for the functions is arranged vertically on the left side, and the menu for the properties on the right side.



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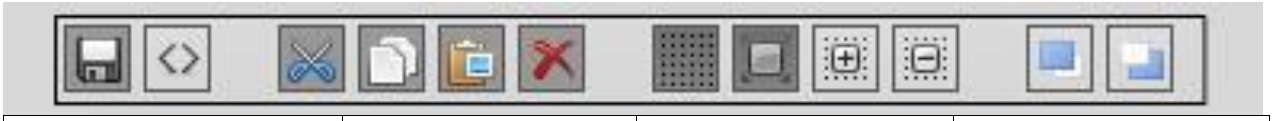
8.5 Short description of the menu items

8.5.1 Toolbar



Save project Generate visualization	Cut Copy Paste Delete	Activate grid Lock to grid Increase grid size Reduce grid size	In the foreground In the background

8.5.2 The file menu

New: A new page is created in the project or a virtual object is created.

Save: Saves the changes to the project in the IP Control Center. If the last change to the project was already saved, this is indicated by the green dot in the right corner of the status bar. The red dot indicates project changes in the working area or in the properties of the display and control elements.

Note: When a new project page is created, a new virtual object is created or a new display control element is positioned in the work area, these changes are immediately and automatically saved. The editor also saves changes to communication objects and group addresses immediately.

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<> Release: Generates a visualization in HTML format from the project and saves it in the IP Control Center. The HTML pages to be generated can be selected individually.

Note: If changes were configured on project pages that had not been generated in the HTML format so far, these pages are pre-selected for HTML export. A check is placed in front of the corresponding pages.

Backup: The entire project (WEB editor + smart editor) is saved on the IP Control Center and can then be saved externally on the PC/laptop.

Restore: The entire backup of the project is restored to the IP Control Center. In the process any existing projects (WEB editor or smart editor) are overwritten.

Import: ESF import for importing all group addresses from the ETS. The names used in this process are also transferred. The ESF file is created in the ETS with the command "Export OPC". See chapter: 6.9.1 OPC Export. If special characters such as Greek or Chinese are used, the corresponding character set can be preselected here. In addition, it is possible to define whether existing description texts or defined subdatapoint types should be overwritten. During an ESF export from the ETS, the data length is known but not the exact data type, so the following default setting is made in the editor:

1 bit → 1bit

1 byte → 1 byte unsigned

2 byte → 2 byte float, SubDPT: DPT_Value_Temp

4 byte → 4 byte float

In addition, an individual previously exported project page can be imported to the web editor.

Note: It is important to configure the ETS application program before importing the ESF file. All group addresses should be assigned with a description text. Otherwise the file will not be recognized by the web editor.

Export: The currently displayed project page can be exported individually and saved on a PC/laptop.

Verify group addresses: The number of group addresses currently in use is displayed. A maximum of 1000 group addresses is available. Any exceeding of this number is reported. This display appears in addition to the report on the used addresses, on the left in the status bar.

Note: The used group addresses are only counted up after the project is saved.

Verify integrity of group addresses: During this check, the system checks whether identical group addresses have different data lengths after a potentially repeated ESF import. The new data length is then not accepted.

Reboot system: A hardware reset of the IP Control Center is performed. A boot process takes place. The device is rebooted and the login window appears. The project should be saved beforehand.

Exit: The web editor is closed. The browser is closed. We recommend using this option before closing the software. The visualization is restarted with the login window. The project should be saved beforehand.

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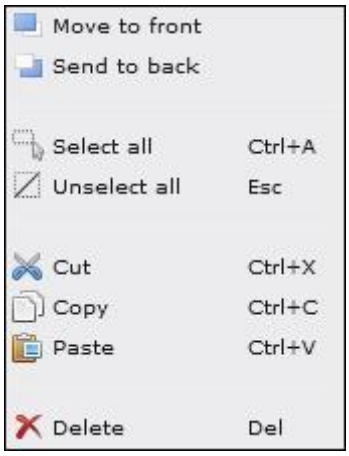
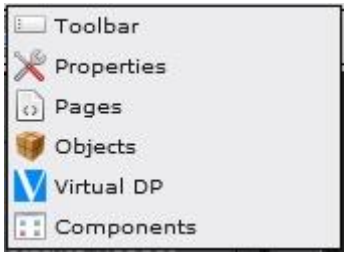
8.5.3 The edit menu



Move to front: The selected element is moved into the foreground.
Send to back: The selected element is moved to the back.
Select all: All elements of the current page are selected.
Unselect all: The selection of all elements of the current page is cancelled.
Cut: Selected elements are cut and put in the clipboard.
Copy: Selected elements are copied and put in the clipboard.
Paste: The elements are pasted to the current cursor position.
Delete: Deletes the selected element.

8.5.4 The view menu



Toolbar: The upper toolbar is displayed/hidden.
Properties: The selected elements are accessed directly. Their properties are displayed in a window to the right of the working area.
Pages: The visualization pages are displayed.
Objects: The communication objects are displayed.
Virtual DP: The available variables (virtual objects) are displayed.

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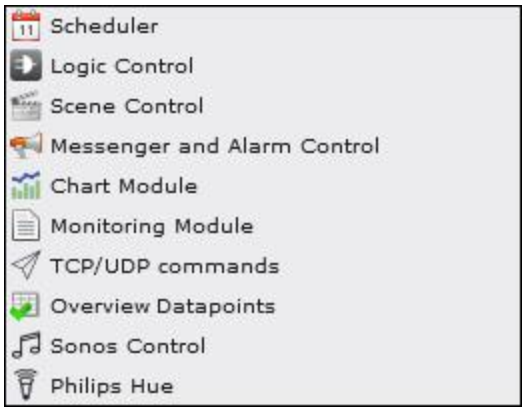
Components: The visualization components (control and display elements) are displayed in the selected style.

8.5.5 The module menu



Scheduler: The schedule editor for creating schedules is called. See chapter: 11.1 Scheduler.

Logic Control: The logic editor for creating logic plans is called up. See chapter: 11.3 Logic module.

Scene Control: The scene editor for creating scenes or events is called. See chapter: 11.2 Scenes.

Messenger and Alarm Control: The alarm manager for setting up email recipients and configuring notifications and alarms is called. See chapter: 11.4 Messenger and Alarm Control.

Chart Module: Here it is possible to configure datapoints to be recorded and displayed in charts. See chapter: 11.5 Chart Module.

Monitoring Module: Here it is possible to record datapoints for an error analysis. See chapter: 11.6 Monitoring Module.

TCP/UDP Commands. An editor is called for configuring control commands to IP devices. See chapter: 11.7 TCP/UDP commands.

Overview Datapoints (DTP management**):** A management tool is called for displaying, managing and editing the assigned datapoints. See chapter: 11.8 DTP Management.

Sonos Control: A module is called for direct control of SONOS speakers. See chapter: 11.9 Sonos Control

Philips Hue: A module is called for direct control of the Philips HUE LED lighting system. See chapter:11.10 Philips HUE.

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8.5.6 The configuration menu

Select Language: You can choose between German, Spanish, French, Italian and English. This setting takes effect after the web editor is restarted. The language set here is subsequently also active in the configuration manager.

Select Style: The device contains various styles for the icons for the control and display elements. See also chapter: 19 Styles.

Restore Defaults: The delivery state can be set in different variants.

- Editor and SmartVisu: In the process the current projects are deleted from the web editor and the smart editor. All settings in the web editor and the smart editor are restored to the delivery state.
- Editor: In the process the current project is deleted from the web editor. All settings in the web editor are restored to the delivery state.
- SmartVisu: In the process the current project is deleted from the smart editor. All settings in the smart editor are restored to the delivery state.

Disable autosave: This setting is used to enable or disable automatic saving (every minute) of the project status. If the last change to the project was already saved automatically, this is indicated by the green dot in the right corner of the status bar. Otherwise this dot is red.

Note: When creating a project, it is advisable to save the project regularly.

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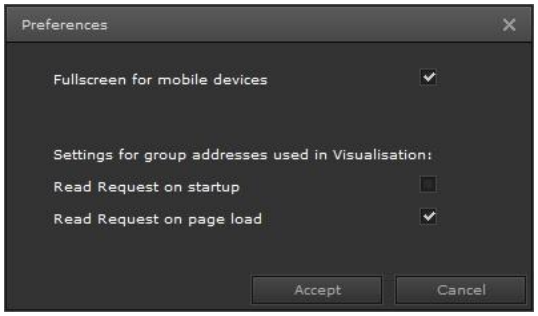
Preferences: This menu can be used to make various different settings.



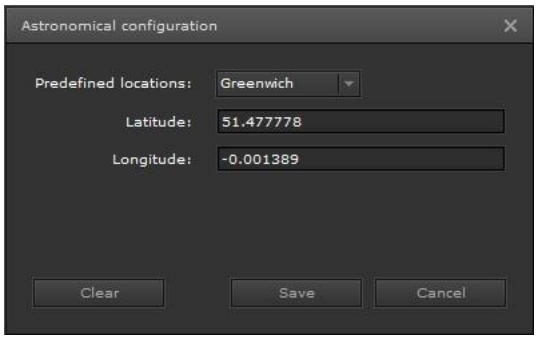
Fullscreen for mobile devices: This setting is used to activate or deactivate full-screen mode on mobile devices. If full-screen mode is activated, the visualization pages are automatically adapted to the full size of the display according to their page resolution. If full-screen mode is deactivated, the visualization pages are displayed according to their page resolution. If applicable, only a section is shown and the various page contents can be displayed by means of zooming.

Settings for group addresses used in Visualization: This configuration defines the read behavior of the 1000 additional group addresses. The read behavior of the 250 possible communication objects is set in the ETS (see also chapter: 6 ETS configuration).

Read Request on startup: This setting is disabled by default. If this setting is selected, all group address in use and set to read are read when the device is started. In this case the delay periods between the read requests are adopted from the ETS configuration. If there is already a valid value, no read request is sent to the KNX bus.

Read Request on page load: This is the default setting. To prevent the maximum of 1000 group addresses from being polled on the KNX bus when the device is started, it is possible to send this read request only when the corresponding visualization page to which this group address is linked is first called. Once again, if there is a valid value, no read request is sent to the KNX.

Astronomical configuration: The scheduler module contains an astronomical calendar. It provides the sunrise and sunset times for scheduler commands (see also chapter: 11.1 Scheduler). The location is required in order to calculate these times precisely.



Predefined locations: Various cities are available for location definition, e.g. Berlin, Beijing, London etc.

Latitude / Longitude: To determine a precise location, it is possible to enter the latitude and longitude, e.g. for Regensburg the latitude: 49.01340740000001 and the longitude: 12.101630999999997.

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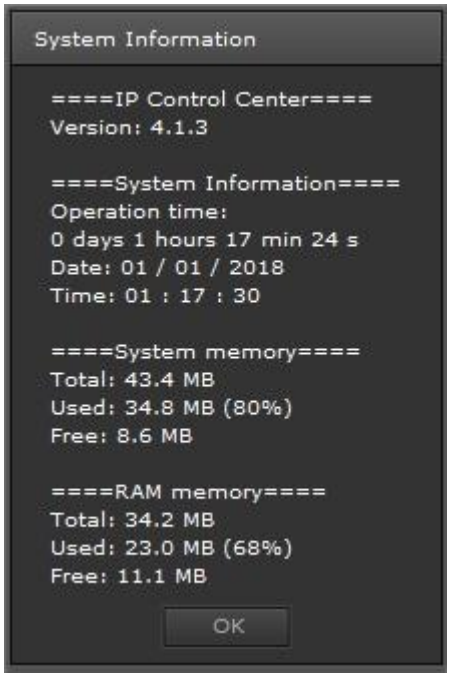
8.5.7 The help menu

Visit Website: The website for the product database of GAMMA Gebäudesystemtechnik is called up. There you can choose between German, English, French, Italian and Spanish.

OSS licenses: The software licenses (open-source software) used in the IP Control Center are listed.

System Info: The System Info menu item provides information on the current memory utilization of the device as well as the software version (firmware), the operating hours since the last start, and the date and time.

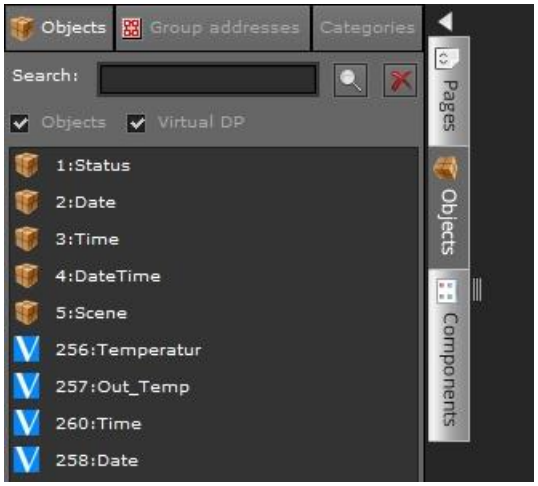


Note: The sticker on the housing of the IP Control Center shows the firmware version to the second digit, e.g. V 3.0. The full, three-digit firmware version is only displayed in the system information of the web editor. The third digit reflects minimal functional modifications and possibly bug fixes. Please contact support if you have any questions on this matter.

8.6 KNX objects and virtual objects

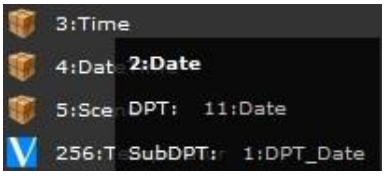
Two types of objects can be used in the web editor:

- KNX objects
- Virtual objects (variables)



Both object types can be called via the tab of the "Objects" tab. 250 communication objects and 745 virtual objects (variables) are available. Placing a check causes the relevant objects to appear in the object list.

You can enter an alphanumerical search text in the "Search" window in order to filter specifically by communication objects or virtual objects.



The lower section of the object selection window contains the area for object management. By clicking the relevant icons you can:

- Add objects
- Delete objects
- Copy objects
- Paste objects

Use the "Back/Next" icons to navigate the pages of the available objects.

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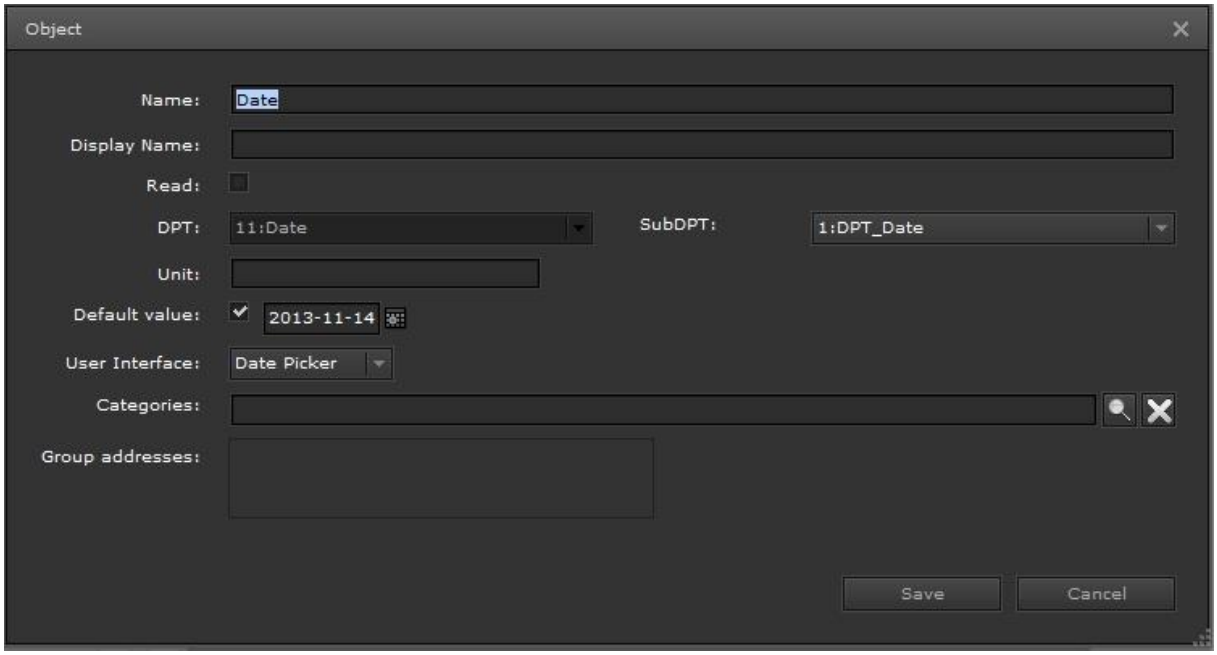
8.6.1 KNX objects

The imported communication objects are displayed with the parameters saved in the ETS. Place a check in front of the "Objects" designation to list them. Double-click the relevant communication object or right-click it and select the "Edit" command to open the configuration window of the communication object. The properties of the communication object are displayed:



Name: The object description created in the ETS can be overwritten here.

Display Name: The designation displayed in the visualization.

Read: Read request, cannot be edited in the editor, is configured in the ETS.

DPT: The datapoint type defined in the ETS, cannot be edited in the editor.

SubDPT: Datapoint type, can be modified in the editor for correct display in the visualization.

Unit: Here you can set the unit to be used.

Default value: Can be modified in the editor in order to work with a default value if no valid value exists in the KNX. A check must be placed on the left to allow editing.

User Interface: The input variant is displayed on the configuration page.

Categories: KNX objects can be sorted into categories. See also chapter: 11.8 DTP Management.

Group addresses: The group addresses defined in the ETS for this object, cannot be edited in the editor.

After the object properties are changed they have to be saved.

Note: Here the datapoints, and specifically the objects are displayed individually with their properties. Unlike in the datapoint management module, where these datapoints can be edited as a whole in a table overview. The "DTP Management" module is available for displaying, managing and editing the available datapoints and for assigning categories. See chapter: 11.8 DTP Management.

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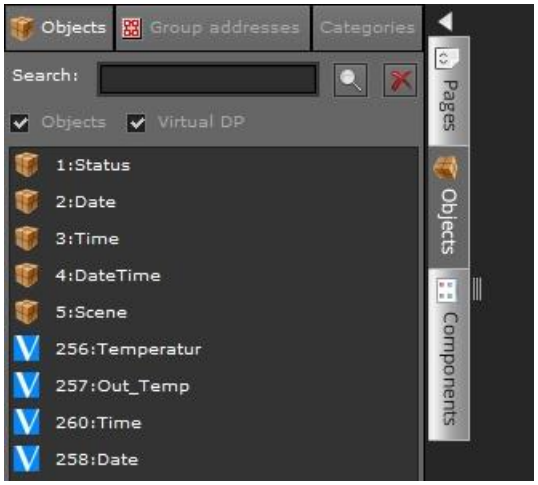
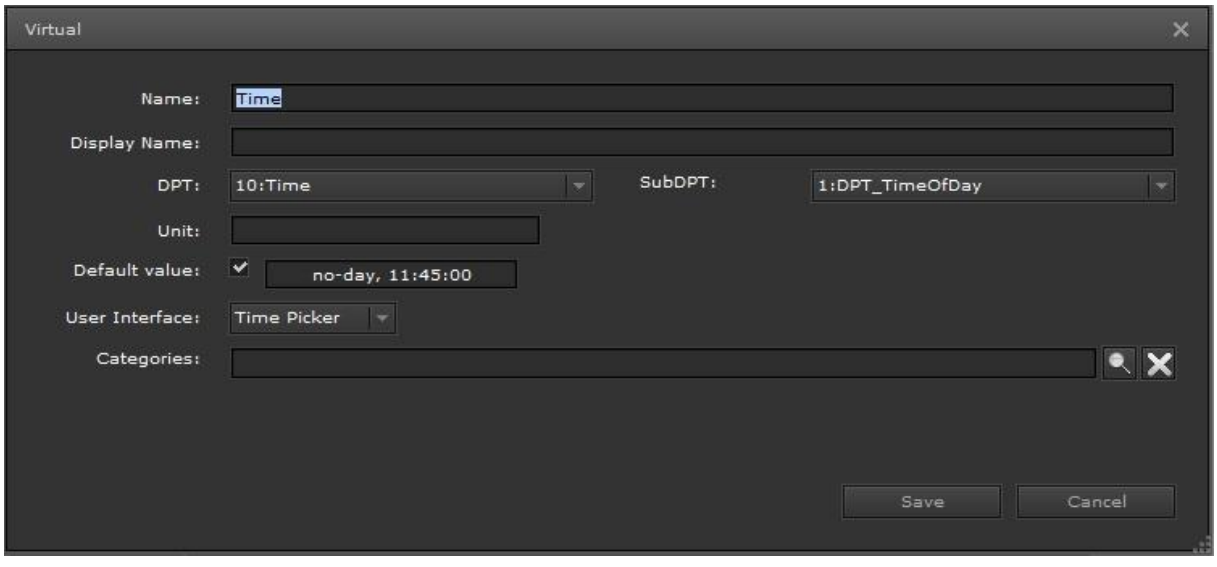
8.6.2 Virtual objects

Virtual objects enable the internal exchange of data and parameters between the visualization, logic, schedule, scene control, alarm, chart, monitoring, TCP/UDP, Sonos and Philips Hue: modules. Place a check in front of the "Virtual DP:" designation to list them. To create a new visual object, right-click the list field for the virtual.
The "DTP Management" module is available for displaying, managing and editing the available datapoints.
See also chapter: 11.8 DTP Management.



Right-clicking opens another window. It can be used to create a new virtual object. In addition, further editing commands are displayed.

When the "New Virtual Object" command is selected, the following window opens. This window can be used to configure the following properties. The properties of the virtual objects are displayed.



Name: Name of the virtual object, can be overwritten.

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Display Name: The designation displayed in the visualization.

DPT: The datapoint type can be defined freely.

SubDTP: The datapoint type can be edited so values are displayed correctly in the visualization. They must be saved after editing.

Unit: Here you can set the unit to be used.

Default value: Default value before current data are assigned to the object. A check must be placed on the left to allow editing.

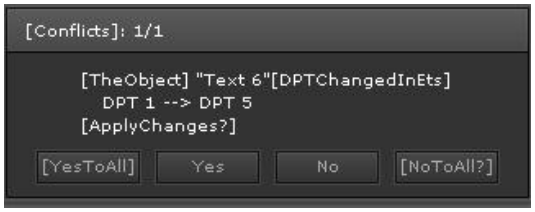
Designations: Here you can enter a specific designation for the relevant value contents. This setting is only available for 1-bit values and is displayed in the smart editor.

User Interface: Here you can define the display type. It depends on the datapoint type, e.g. slider or +/- button.
This setting is displayed in the smart editor.

Categories: Virtual objects can be sorted into categories. See chapter: 11.8 DTP Management.

8.6.3 Conflicts caused by different datapoints

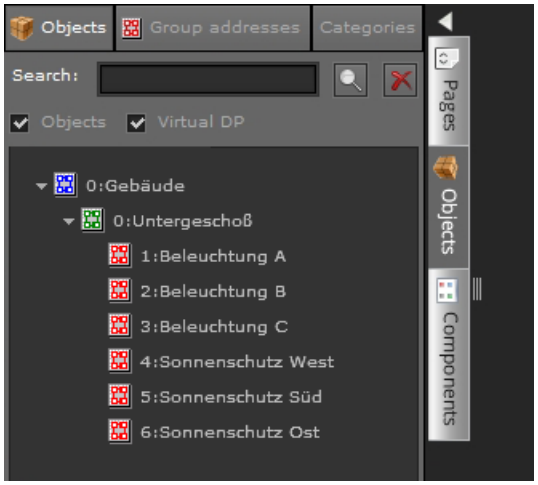
Every time the application program is downloaded by the ETS, the web editor checks the datapoints assigned by the ETS. If there are differences between existing and newly assigned DTPs, the change must be confirmed.



If the change is confirmed, the DTPs in all linked objects are updated. If the change is discarded, all linked objects are deactivated. The procedure is performed again after the web editor is restarted.

8.6.4 Group addresses

After the ESF file has been imported from the ETS, the group addresses are available. When “Group addresses” is selected, they are displayed in a tree structure.



This tree structure equally reflects the structure of the group addresses from the ETS. The designations of the main group, middle group and group addresses from the ETS are adopted during the import as well. The datapoint length is determined by the communication object linked to the group address in the ETS.
You can enter an alphanumerical search text in the “Search” window in order to filter specifically by group addresses.
The properties of the group address are displayed.

The lower section of the object selection window contains the area for object management. By clicking the relevant icons you can edit or delete group addresses.

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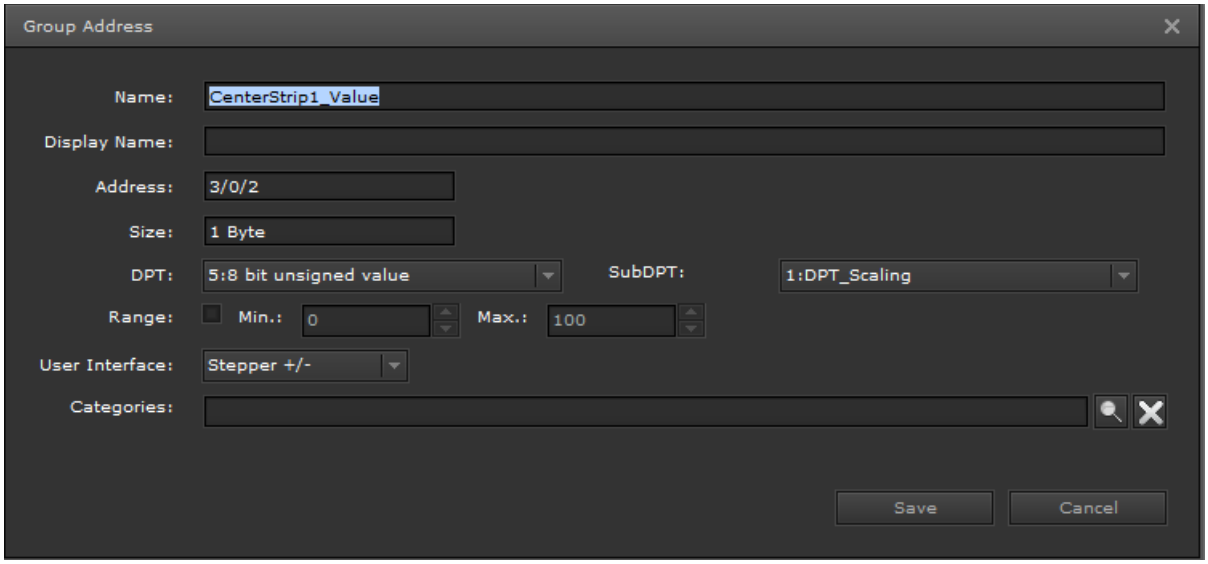
Double-click the relevant group address or right-click it and select the "Edit" command to open the configuration window of the group address:

Note: The "DTP Management" module is available for displaying, managing and editing the available datapoints and for assigning categories. See chapter: 11.8 DTP Management.



Name: Name of the group address, can be overwritten.
Display Name: The designation displayed in the visualization.
Address: The group address defined in the ETS, cannot be edited in the editor.
Size: Length of the datapoint type that was linked via the ETS, cannot be edited in the editor.
DPT: The datapoint type can be defined according to the datapoint length.
SubDTP: The datapoint type can be edited so values are displayed correctly in the visualization,
Range: Here you can enter the value range (min./max.) for inputs (schedules or scenes).
User Interface: Here you can define the display type. It depends on the datapoint type, e.g. slider or +/- button. This setting is displayed in the smart editor.
Categories: Group address can be sorted into categories. See chapter: 11.8 DTP Management.

Note: After the address properties are changed they have to be saved.

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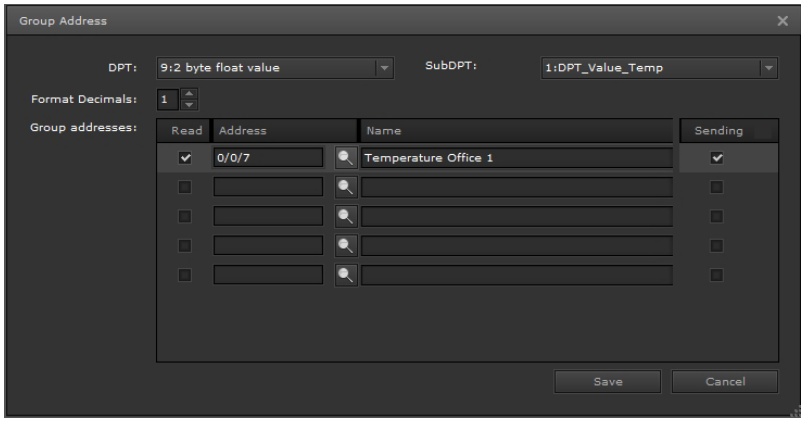
8.6.4.1 Linking group addresses to the elements

You can use drag & drop to drag one or more group addresses from the tree to the input field for linking. You can also enter the group addresses with the keyboard. If no subdatapoint type for this address has been defined yet, the editing window for group addresses is opened automatically.

You can also always open this window by clicking  . Up to 5 group addresses can be linked to an element. Generally the datapoint type and the subdatapoint type are defined in each link.



DPT: The datapoint type can be defined according to the datapoint length.

SubDTP: The datapoint type can be edited so values are displayed correctly in the visualization.

Format Decimals: Can be modified in the editor in order to define the number of decimals to be displayed for analog values. A check must be placed on the left to allow editing.

Read: Defines which group addresses should be read when the device starts.

Address: The group address defined in the ETS, value cannot be edited in the editor.

Name: Name of the group address, can be overwritten.

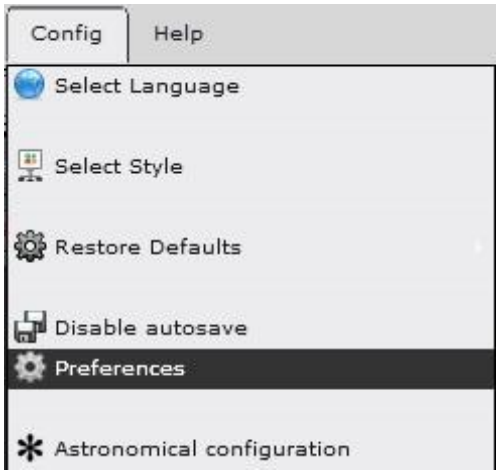
Sending: Defines which of the group address should be used as the sending address. All other group addresses are listening, as is usual for tactile sensors in a KNX system.

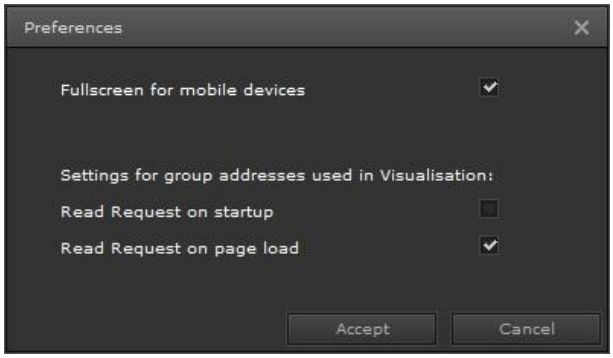
Note: After the address properties are changed they have to be saved.

Note: The description of the group addresses can also be changed later on. During the import, you can use an option flag to decide whether this text should be overwritten by the text from the ETS. The first group address is automatically given the “Sending” option. The second group address (usually a status address) is automatically set to “Read” in order to send a read request. This group address is marked in the list with an *.

8.6.4.2 Initializing values

The objects that are configured with the ETS can be read by the KNX when the device is started if the corresponding settings are made via the ETS. To define this behavior for the additional group addresses, you can call up the settings page in the editor:





The following settings are available:

- Read Request on startup
- Read Request on page load (default setting)

To prevent the maximum of 1000 group addresses from having to be polled on the KNX bus when the device is started, it is possible to send this read request only when the corresponding page to which this group address is linked is first called. Generally this read request is only sent if the abovementioned options are selected and there is no valid value yet. If there is already a valid value, no read request is sent to the KNX.

However, it is also possible to read all used group addresses when the device is started, see the first option. In this case the delay periods between the read requests are adopted from the ETS configuration.

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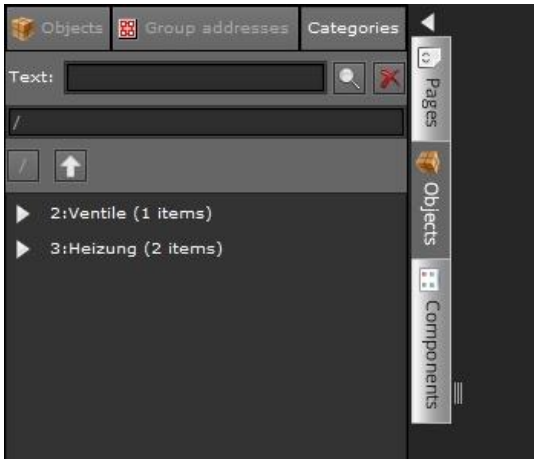
8.6.5 Categories



To group datapoints in a useful way, it is possible to create categories and assign the group addresses to these categories. In all windows where the datapoints (group addresses) can be selected from a list, categories can be used to find group addresses more quickly.

Note: The "DTP Management" module is available for displaying, managing and editing the available datapoints and for assigning categories. See chapter: 11.8 DTP Management.

9 Creating a project in the web editor

Visualizations with the IP Control Center are always project-specific. When the web editor is opened, the current project is opened directly. If the previously edited project cannot be used as a template, the entire project can be deleted. To do so, go to the configuration menu and click “Restore Defaults”. Depending on your selection, all or some of the configurations are deleted! In the delivery state of the IP Control Center, the Siemens sample project has been loaded in the web editor and the corresponding visualization pages have been created. Visualization always begins with the index page. This is the starting point, the start page of the visualization.

If no visualization had been generated yet or if the default settings have been restored, the IP Control Center starts with the following visualization page:

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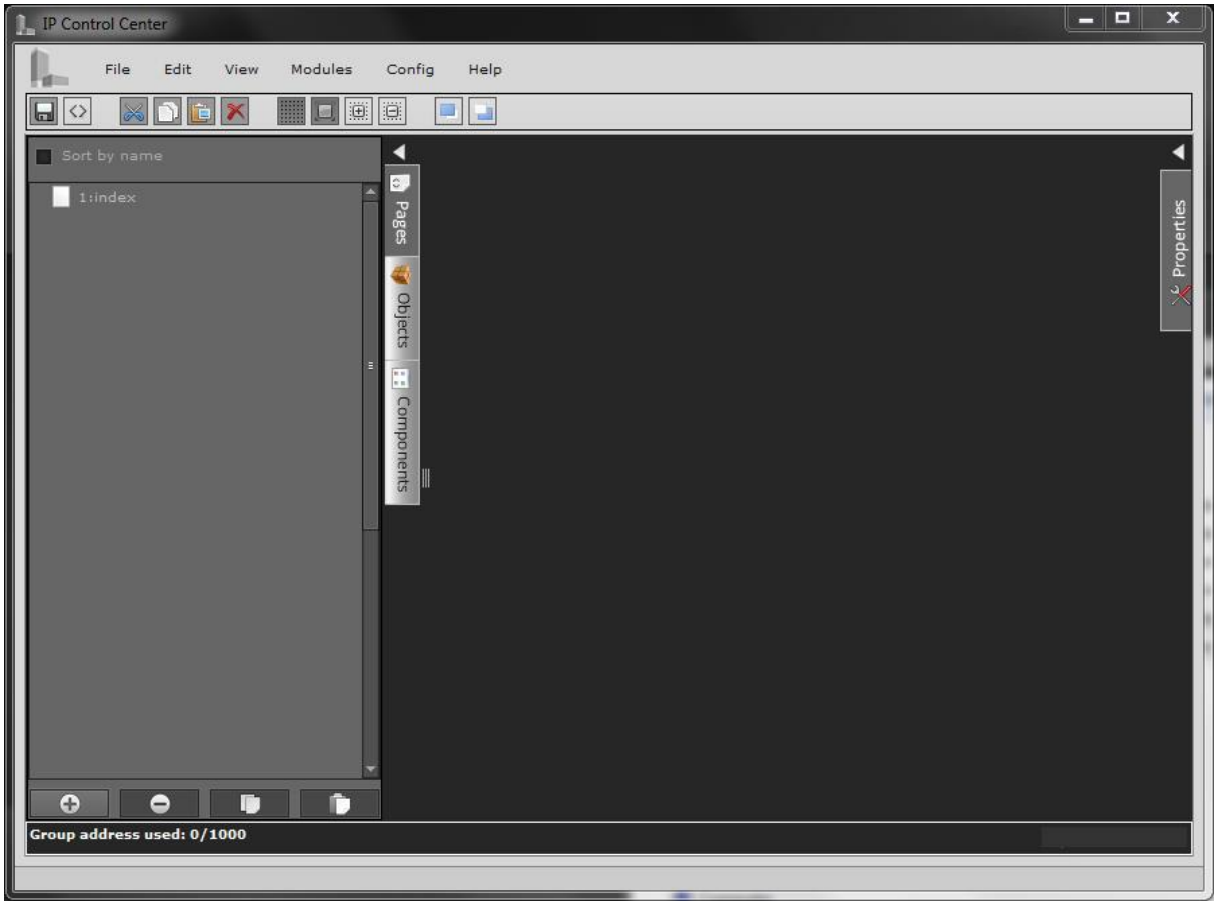
9.1 Creating a visualization page

The basis for configuring is a visualization is the creation of a visualization page. This page consists of a combination of images and display and control elements. To create a new page, select the “Pages” tab in the left vertical menu.

An empty project is displayed as follows:



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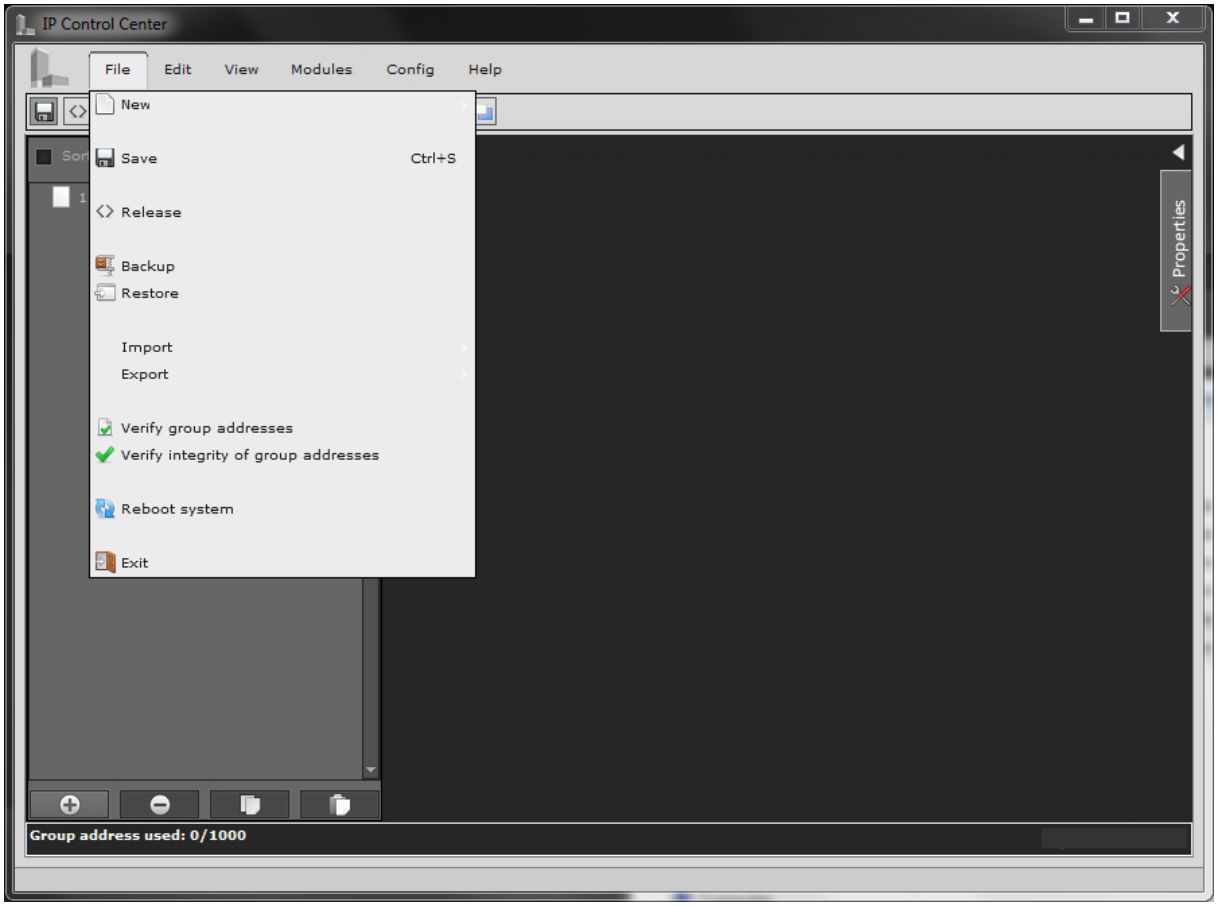
Right-click the list field for the pages. Select the “New Page” command to create a new visualization page. You can also create a new visualization page from the main menu “File”/”New”/”Page”.



An additional icon bar appears on the bottom edge of the list with advanced functions. These functions are used to “Add”, “Delete”, “Copy” and “Paste” visualization pages.

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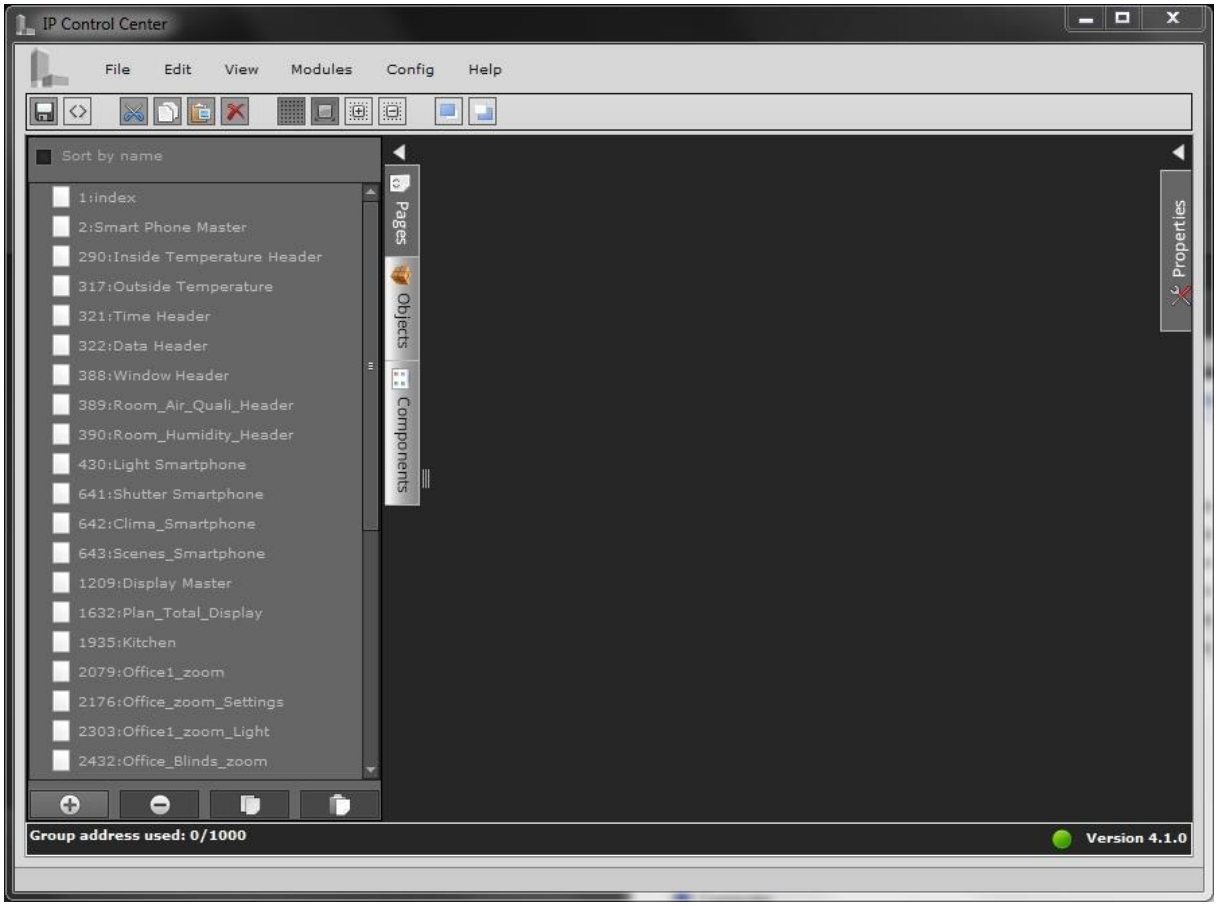
If a visualization project has already been created, the list field on the left displays all available pages.



A menu with the properties of the page is displayed for the selected page on the right-hand side of the editor area.

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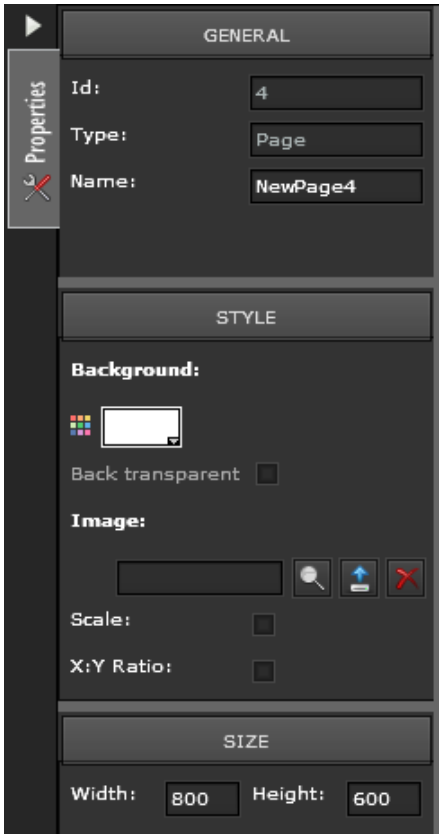
When a new window is created, the following properties window appears:



9.1.1 Properties

The properties of the visualization page are:

9.1.1.1 General

ID: ID number of the page
Type: Element property
Name: Name of the page The default name is “NewPage”. The name can be edited. When you assign a new name, it should relate to the project.

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9.1.1.2 Style

Background: Select the background color.

Back transparent: Visible/invisible

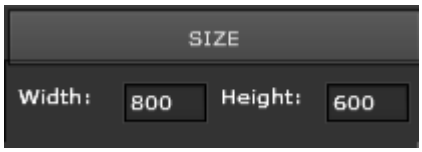
Image: Select the background image. Use to select images and save them on the device. You can also delete images placed in the flash memory. Use to load images as a background. Use to remove background images.

Scale: The image is automatically assigned the default resolution.

X:Y Ratio: The width/height ratio is maintained during scaling.

9.1.1.3 Size

The size menu is used to define the size of the page. Width and height are specified in pixels. The default setting is 800 x 600 px. The dimensions can be changed.



Width: The page width is defined here.

Height: The page height is defined here.

Note: It is important to enter the precise size of the visualization page so that this page is displayed correctly and accurately on the end device in question, e.g. a tablet or smartphone. This should be ensured even during the configuration of the index page, and should be adopted identically for all further pages.

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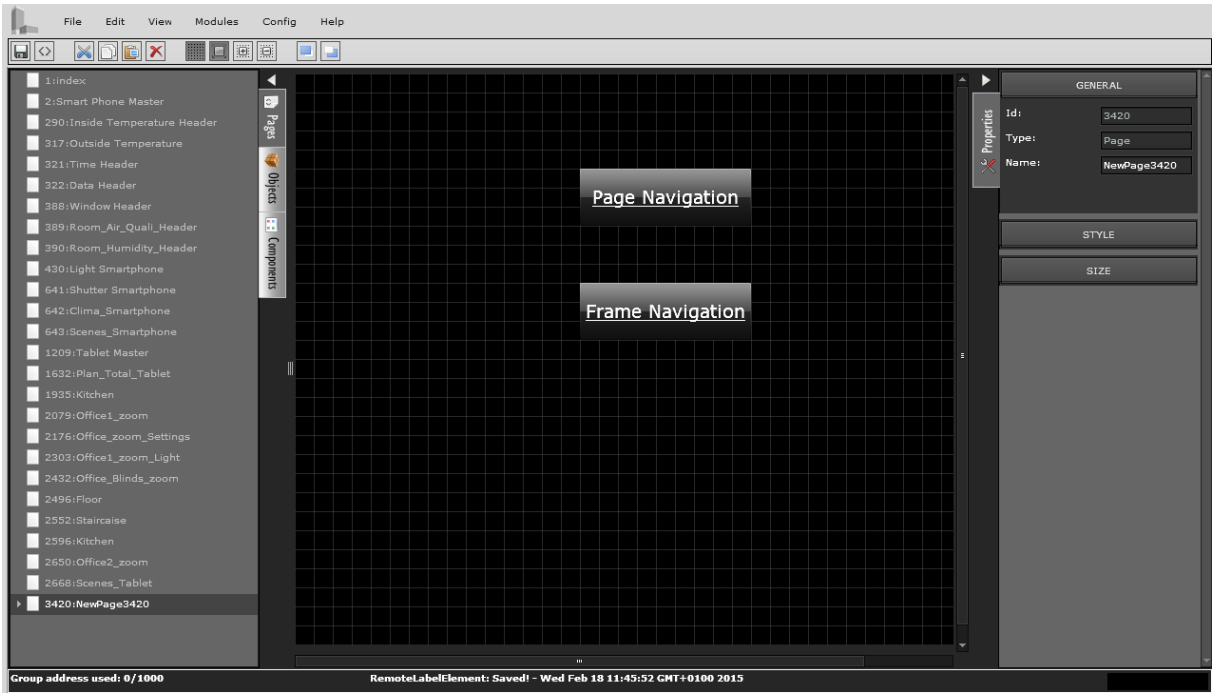
9.2 The page navigation concept

Various navigation concepts are available in the configuration of a visualization project. Before configuration begins, you should decide how other pages should be called up.



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9.2.1 Page Navigation

In this version the current page is replaced by another page. This means that the entire page is replaced. All pages should have the same size and all pages must contain the navigation buttons. In particular, you should configure a back button to the previous visualization page or a button to take you to the index page.

Page Navigation:
During page navigation, 2 buttons (PageNavigator) are displayed on the main page (1 index) for calling up other pages. The page navigator is set up using the “Page Navigator” or “Page Navigator (transparent) navigation button from the “Navigation Elements” category. See also chapter: 10.3.8 Navigation elements.

On the Properties settings page for these control elements, go to “Open in:” and select the option “Page Container”. When you select the window, the window you want to call is displayed in a window that you can move around freely.

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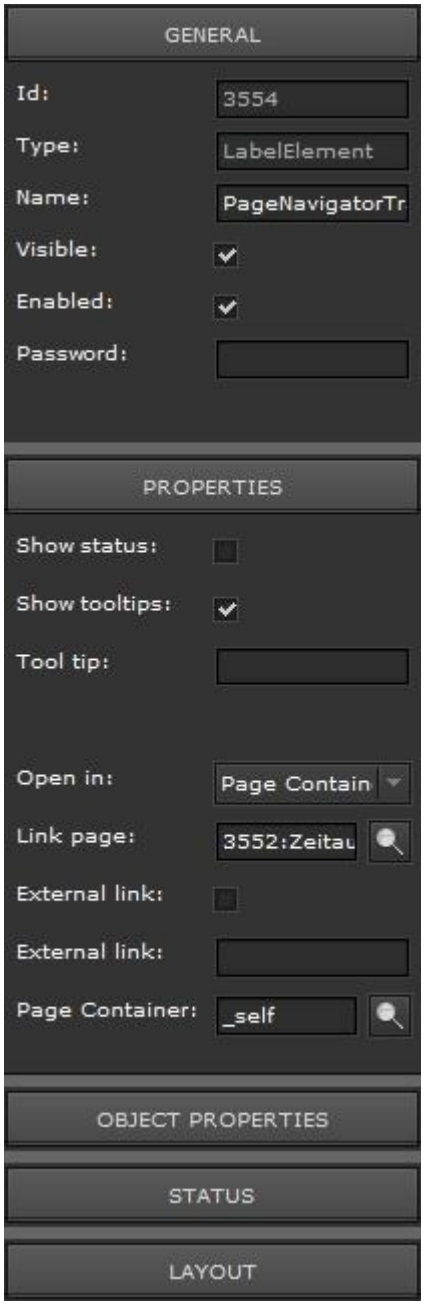

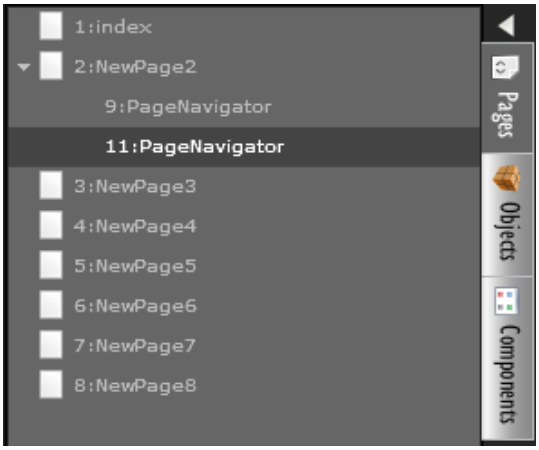

Open in: (Selection): This selection defines whether the page is opened in a container or as a separate page.

Page: This setting causes a selection window to be displayed. All configured pages are available. The list contains not just the configured pages, but also the default pages available in the IP Control Center, such as Scene, Scenes - Desktop, Schedules, Schedules Desktop, Periods, All Objects (Datapoint Manager), Load Firmware, Alarms, Alarm History or Monitoring.

External link (selection): Enabling this function allows an external website such as a web camera to be called up.

External link (address): Here the http address of the external page to be displayed is entered.

Page Container: In the "Page Navigation" navigation concept, this selection remains empty. This means you navigate directly to the page set above.

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9.2.2 Container Navigation

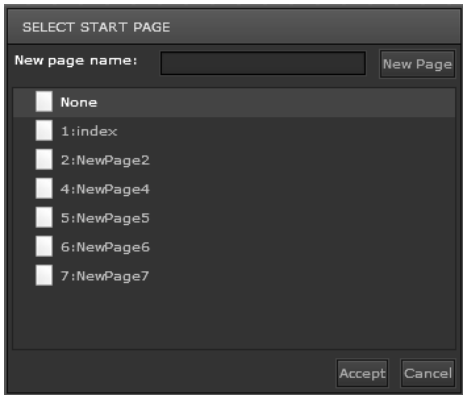
In this version the other pages are called up in a frame (container) of a main page that is already open. This means that the main window with the navigation buttons always remains active, while the required pages are called up in a container.

Container Navigation:

For container navigation, a frame (container) is created within the main page along with the (PageNavigator) buttons.

This container will later display the additional pages. Container Navigation is additionally equipped with the “Container” navigation button from the “Navigation Elements” category. See also chapter: 10.3.8 Navigation elements.

When you use drag & drop to move the “Container” element to the work area of the visualization page, the following window opens:



This window is where you select the page to be displayed in the container. If you choose “None”, the container is displayed without its page content until the navigation button is pressed.

Then you use the “Page Navigation” or “Page Navigation (transparent)” navigation buttons from the “Navigation Elements” category to configure the display of page contents within the container. See also chapter: 10.3.8 Navigation elements.

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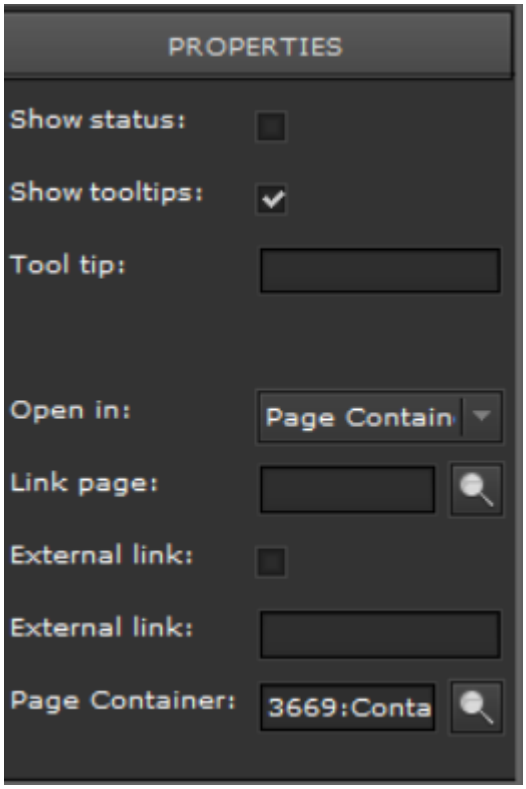

Page Container: Unlike in page navigation, where this field remains empty, one of the configured display containers is selected. The page entered above is subsequently displayed in this container. You can now work with multiple navigation buttons and use them to change the display content within the container.

9.2.3 Displaying in windows (frame)

In this version the page contents are displayed in a window (frame). You can move this window around freely on the open main page. You can close the window with the cross in the right top corner. The properties of the window can be configured. You can, for example, set the position of the window on the main page when it is called: top left, top center, top right, center left, center, center right, bottom left, bottom center, bottom right. You can also display scroll bars.

The window display is set up using the “Page Navigator” or “Page Navigator (transparent) navigation button from the “Navigation Elements” category. See also chapter: 10.3.8 Navigation elements.

On the Properties settings page for these control elements, go to “Open in:” and select the option “Window”. When you select the window, the window you want to call is displayed in a window that you can move around freely.

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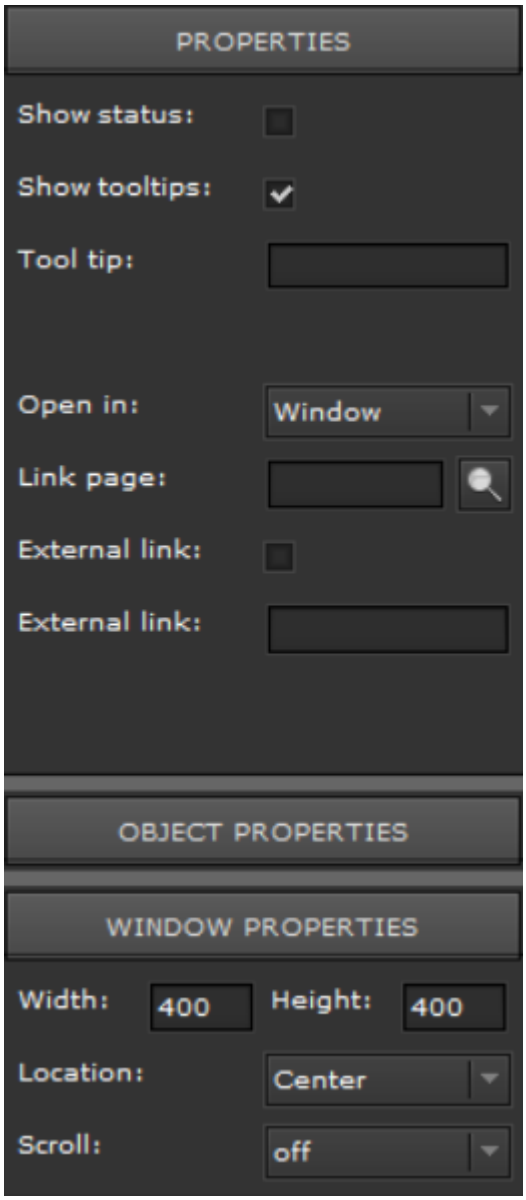

Open in: This selection defines whether the page is opened in a container or in a window.

Page: This setting causes a selection window to be displayed. All configured pages are available. The list contains not just the configured pages, but also the default pages available in the IP Control Center, such as Scene, Scenes -Desktop, Schedules, Schedules Desktop, Periods, All Objects (Datapoint Manager), Load Firmware, Alarms, Alarm History or Monitoring. This page is then displayed in the window.

External link (selection): Enabling this function allows an external website such as a web camera to be called up and then displayed in the window.

External link (address): Here the http address of the external page to be displayed is entered.

Width / Height: Configures the size of the window.

Location: Configures the position of the window after it is called. The following are available: top left, top center, top right, center left, center, center right, bottom left, bottom center, bottom right.

Scroll: Scroll bars can be configured for the contents of the window. They can be permanently enabled or disabled, or displayed automatically according to window size.

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9.3 Editing tips

- To select multiple control elements, press and hold the Shift key and click the relevant elements with your mouse. You can then copy the selection and paste it to other pages.
- To select multiple control elements, you can also use the “lasso function”. To do so, use your mouse to grasp all elements you want to select. You can then copy the selection and paste it to other pages.
- You should provide all pages with the same grid size so they can be pasted to the correct positions.
- The grid size can be adjusted and saved for each individual page.
- You can copy and paste a fully edited page with all its elements. To do so, go to the tree structure, right-click the page you want to copy, copy it and then later paste it. You can define the number of copies during the process.
- You can export a fully edited page with all its elements to a single file. Use the File and Export menu to do so. The file is saved with the page name. You can use the File and Import menu to import a single page to a project. You can assign a new page name in the process.

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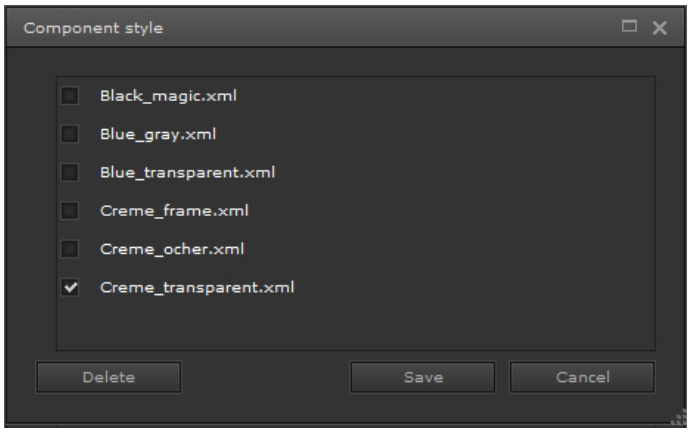
10 Display and control elements

10.1 Selecting a style

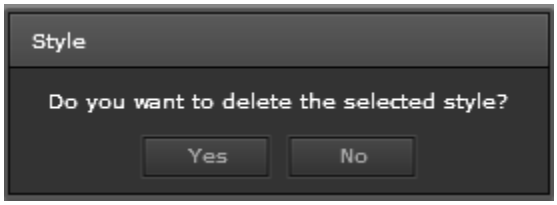
When configuring the display and control elements you can choose from 6 different styles. These are predefined and already saved when the IP Control Center is delivered. The menu Config → Select Style lists all the installed styles for selection:



- Black magic
- Blue gray
- Blue transparent
- Creme frame
- Creme ocher
- Creme transparent

The description of all styles can be found in chapter: 19 Styles.

Use the “Delete” button to remove styles from the device. The following message appears:



Please note that the style definition is linked to the related images. These can and must be deleted separately from the IP Control Center in order to free up memory in the device. See also chapter: 10.2.1.3 Status.

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10.2 Control elements in the component list

The IP Control Center offers a range of display and control elements for configuring the control functions of the visualization, and for the navigation of the visualization. The selected display and control elements can be moved from the component tab to the work area of the visualization page by means of drag and drop. The “Components” tab is at the bottom of the left vertical menu.

The various display and control elements are split into categories according to their functions and properties:

- Switching general
- Switching miscellaneous
- Switching light
- Status General
- Shutter/blind
- HVAC
- Scenes
- Advanced elements
- Audio/video
- Navigation elements

When you have moved the required display or control element to the required position on the visualization page, the properties of the selected element are displayed. The properties of the selected element are edited to the right of the work area of the visualization page in the Properties menu.

There are two types of properties that can be assigned to display and control elements.

- General properties
- Individual properties

General properties are the same for all display and control elements and are described in the following section.
The following explanation of editable properties functions as an example for all other display and control elements.
The individual properties are different for different display and control elements and categories, and are explained additionally in the relevant sections.

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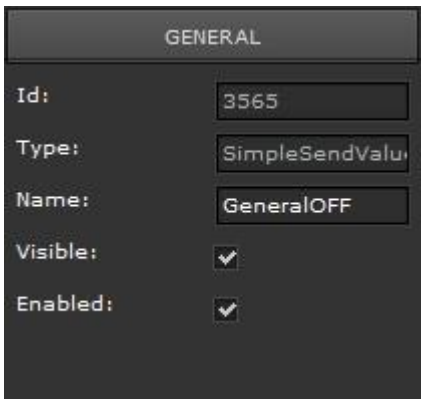
10.2.1 General properties

10.2.1.1 General



Id: Internal ID number.

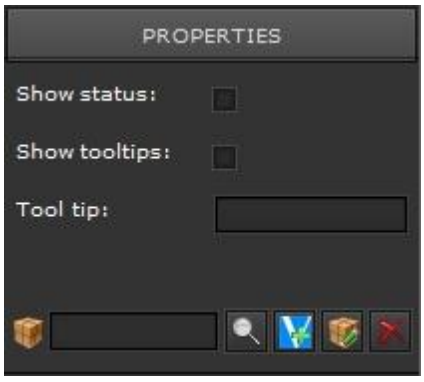
Type: Element property.

Name: Name of the control element, corresponds to the function. The name can be edited. When you assign a new name, it should relate to the function.

Visible: Displays the element in the visualization.

Enabled: Enables the switching functions. If disabled, only the status information is displayed.

10.2.1.2 Properties



Show status: The current status of the element is displayed (not for input values and text).

Show tooltips: A window with help information appears during a mouse hover.

Tool tip: Input field for the tool tip to be displayed.

The lower “Search” window is used to assign a process point to the display and control element. This could be a KNX communication object, a virtual datapoint or a group address. The objects and group addresses displayed on the left in a tree structure can now be moved directly to the “Search” field by means of drag & drop. You can also enter the group address or object number in the “Search” field directly with your keyboard, or you can select the group address / object number via the “Search” function.

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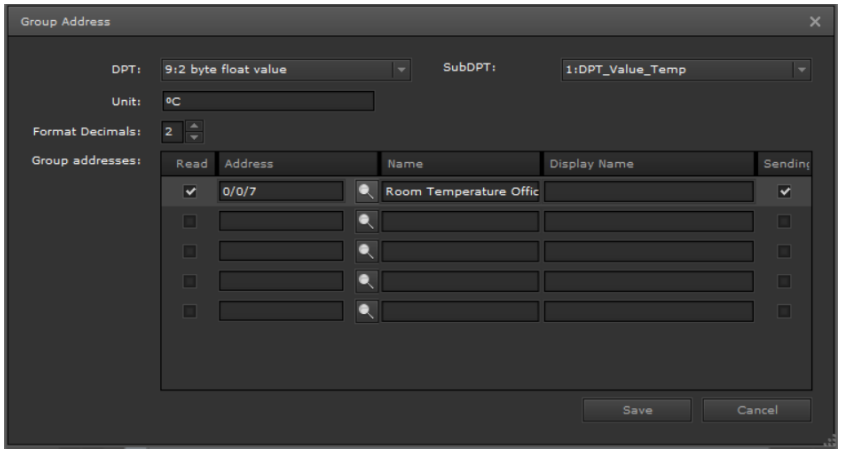
Note: You can also assign the group address freely. This means you enter any known group address directly in the field, regardless of the group addresses output after an esf file import. The group address and its effect should be known from the ETS project. The corresponding datapoint type should be considered during the process.

The  allows you to directly select an object or group address from a list of all available communication objects or group addresses. You can assign up to 5 group addresses to one display and control element.

Use  to add a new virtual object. You can edit the name, the datapoint type, the datapoint subtype and a default value. For values with a floating comma, you can define the number of decimals.

Use  to edit the communication object or group address. You can change the name of the object. You can adjust the datapoint subtype to ensure values are displayed correctly. You can use a default value. For float values, you can define the number of decimals. When you have assigned one or more (up to 5) group addresses to the element, this dialog appears.



The first column, “Read”, defines which group address should be read when the device is started or the page is called. You can define one of the no more than 5 group addresses for this purpose.

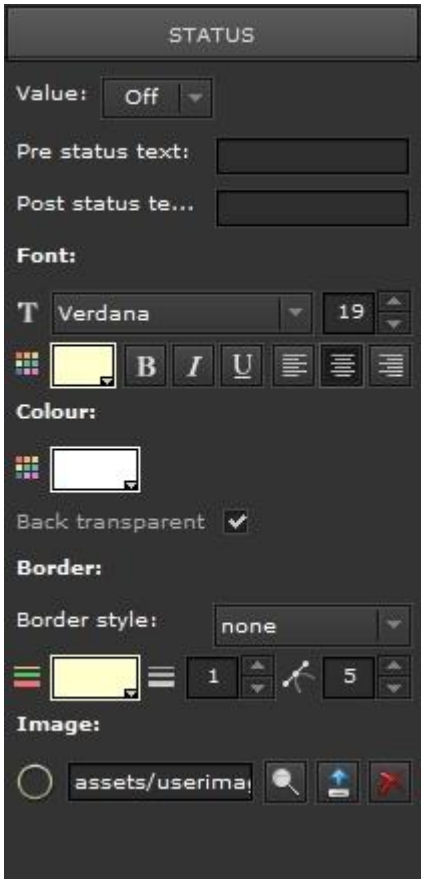
The “Address” and “Name” columns are used to set the corresponding group address or display the function.

The last column, “Sending”, defines which of the group addresses should be used as the sending address. All other group addresses are listening.

The  icon deletes the assigned process point from the display and control element.

Note: The description of the group addresses and the datapoint subtype can also be changed later on. During the ESF file import, you can use an option flag to decide whether this text should be overwritten by the text from the ETS and/or whether the datapoint subtype should be adopted.

10.2.1.3 Status



Value: Sets a predefined object value to be sent or received as a status upon operation, depending on the datapoint type.

Pre status text: Enter a text to be displayed before the status.

Post status text: Enter a text to be displayed after the status.

Font: Select a font, font size and formatting (bold, italics, underlined). All fonts installed on the computer are available.

Color and formatting: Select the font, the mark-up and the alignment.

Color: Select the background color.

Back transparent: Select whether the background is displayed / not displayed.

Border: Choose a border, border form and its formatting characteristics (color, thickness and corner radius).

Image: Select a background image for the control element in this status.

Use to select an image from an existing list. Depending on the selected display and control element, an icon in the selected style is set here by default. This dialog also allows you to delete individual images on the device. Use to load a new image as the background. Use to remove the background image.

Note: If you have deleted an entire component style in the configuration, the images assigned to the style must be deleted individually from the directory of the IP Control Center Use and then to remove uploaded images from the flash memory. You can also delete entire directories. See chapter: 10.1 Selecting a style.

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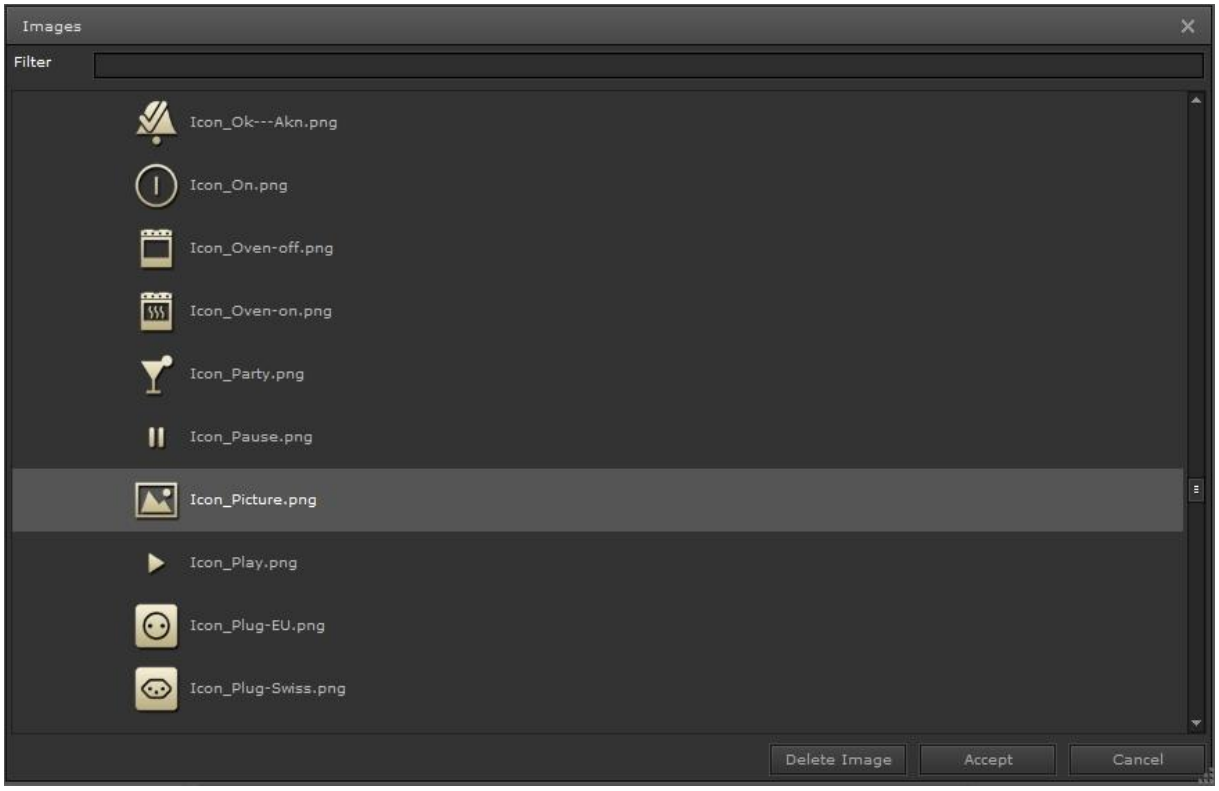
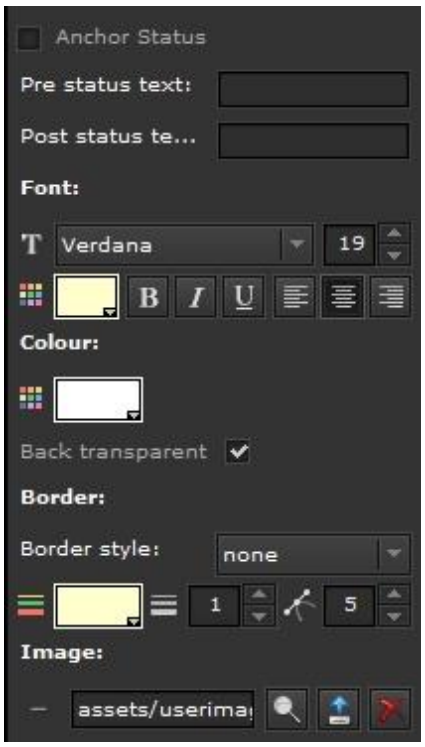


10.2.1.4 Connected / disconnected status

For some components, it is possible to set differentiated status messages. Depending on the status, texts and formatting properties can be displayed individually.



Anchor Status: When this option is enabled, the settings are applied to both status variants.

Pre status text: Enter a text to be displayed before the status.

Post status text: Enter a text to be displayed after the status.

Font: Select a font, font size and formatting (bold, italics, underlined). All fonts installed on the computer are available.

Color and formatting: Select the font, the mark-up and the alignment.

Color: Select the background color.

Back transparent: Select whether the background is displayed / not displayed.

Border: Choose a border, border form and its formatting characteristics (color, thickness and corner radius).

Image: Select a background image for the control element in this status.

Use to select an image from an existing list. Depending on the selected display and control element, an icon in the selected style is set here by default. This dialog also allows you to delete individual images on the device. Use to load a new image as the background. Use to remove the background image. See chapter: 10.1 Selecting a style.

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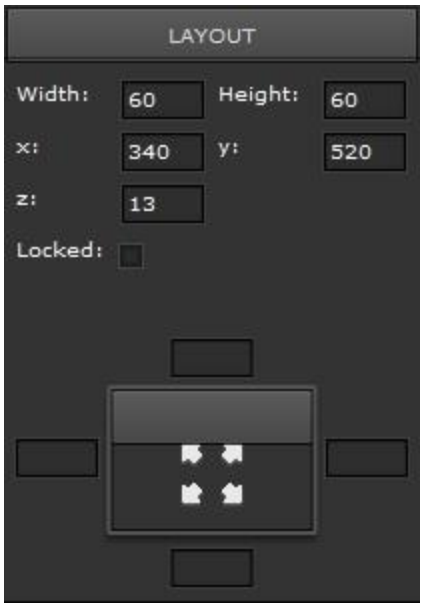
10.2.1.5 Layout

This is where you define the size and position of the display and control element.



Width: The width of the element is defined here.

Height: The height of the element is defined here.

X: Distance on left between element and page edge.

Y: Distance on top between element and page edge.

Z: This is where the position of the layer (background/foreground) is displayed. This field cannot be edited. Use the "Edit" and "Move to front" or "Send to back" menu selection to move the selected element.

Locked: The element is locked and can no longer be moved using the editor.

If you use the coordinate field, the display and control element is scaled to the window size. In addition, you can define margins.

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10.3 Standard and basic functions of the display/control elements

10.3.1 General switching /other / light / status

This category mainly contains elements for value input via on/off telegrams. The icon display is prepared for the selection of datapoint type 1-bit DPT. Elements can do various things, e.g.:

Switch on 

Switch off 

or, to toggle 

For the “Switch on” element, the following value is predefined for “Status” in the properties: "True" (value=1). Accordingly the relevant icon reflecting the ON state is set by default. For the “Switch off” element, the following value is predefined for “Status” in the properties: "False" (value=0). Accordingly the relevant icon reflecting the OFF state is set by default.

The “toggle” element requires a status value when it is displayed for the first time, so that the inverted value is transmitted upon operation. The toggle element can receive the current value directly from the assigned communication object in order to configure it. If this value was not received, the element remains in an undefined state and displays only a question mark as an icon, without the current switching position (ON/OFF).

In the properties, the value for the “first status” is preset to: "Incorrect" (value=0) and the value for the “second status” is preset to: "True" (value=1). Accordingly the relevant icons reflecting the OFF or ON state are preset by default. There are also elements purely for status display. Here the switching function is disabled in the properties.

10.3.2 Status General

This category provides a range of elements for pure status display. Most of the elements offer icons for displaying the ON or OFF state. The current value of a DPT datapoint type, typically 1-bit, is displayed, e.g.:

Socket status ON 

Socket status OFF 

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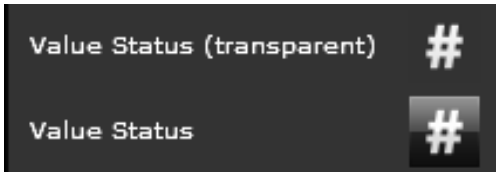
In the properties, the value for the “first status” is preset to: "Incorrect" (value=0) and the value for the “second status” is preset to: "True" (value=1). Accordingly the relevant icons reflecting the OFF or ON state are preset by default. If this value was not received, the element remains in an undefined state and displays only a question mark as an icon, without the current switching position (ON/OFF). The switching function is disabled for these properties.

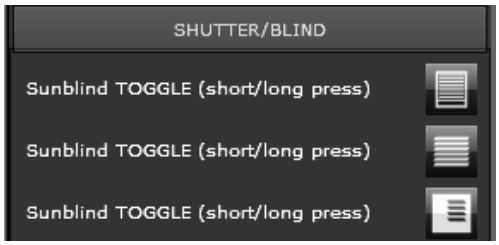
For the Value Status (transparent) and Value Status elements, the value is displayed in the form of numbers. No special icons are displayed. These elements are suitable for displayed datapoint types such as 1 Byte, 2 Byte, 4 Byte etc.



10.3.3 Shutter / blind

This category contains elements for control, move and stop commands of shutters, blinds, various hangings, windows, doors, gates etc. A wide range of icons map these applications. In terms of control, a distinction is made between different basic functions:

Shutter/blind - single-button operation



A single button can be pressed and held to close or open the sunblind (the direction of movement changes every time the button is pressed for a long time). In the properties, this change in direction is predefined for the move command. A short press of the button can stop the movement or open or close the blinds by a single step. A short press of the button stops a drive moving downward, and every short press after that opens the slats step by step. If the hanging is moving upwards, a short press of the button stops the movement, and every further short press closes the slats step by step.

e.g. Shutter/blind UP - single-button operation

A single button can be pressed and held to open the sunblind. In the properties, the “up” move command is predefined. A short press of the button can stop the movement or close the blinds by a single step.

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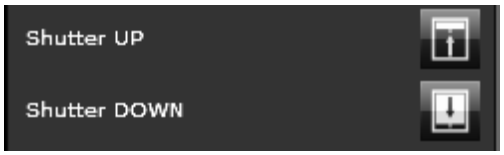
e.g. Shutter/blind DOWN - single-button operation

A single button can be pressed and held to close the sunblind. In the properties, the “down” move command is predefined. A short press of the button can stop the movement or open the blinds by a single step.

e.g. Slat UP / Slat Down

This button can be used to open or close the slat. For the “Open” command, the following value is predefined in the properties: "False" (value=0). For the “Close” command, the following value is predefined in the properties: "True" (value=1).

e.g. Shutter UP / Shutter Down



This button can be used to open or close the shutter. For the UP command, the following value is predefined in the properties: "False" (value=0). For the DOWN command, the following value is predefined in the properties: "True" (value=1).

STOP command

This button can be used to stop the move command for the hanging. For the STOP command, the following value is predefined in the properties: "False" (value=0).

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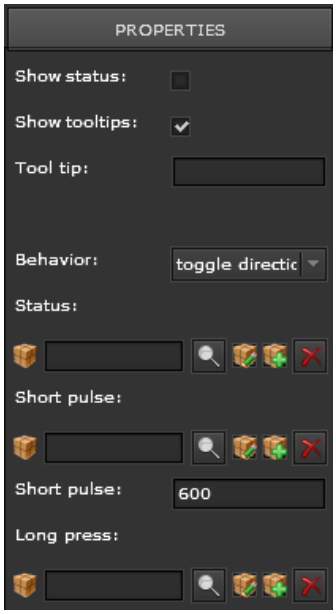
10.3.3.1 Special properties of the shutter / blind



Two communication objects and additional settings are required in the shutter / blind category for the configuration of single-button operation.

Behavior: You can choose the corresponding action of the switching elements (up down, toggle).

Status: The current position of the communication object for transmission of the status.

Short pulse: This object is used to send the telegram for the slat adjustment / stop command upon a short pulse of the button.

Short pulse: The time in milliseconds before the signal is interpreted as a long press.

Long press: This object is used to send the telegram for the up/down command upon a long press of the button.

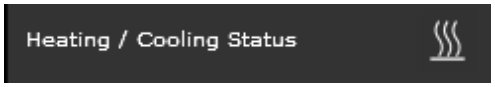
Only one communication object is required for the configuration of the UP / DOWN / STOP commands in the shutter / blind category. As only one group address is sent in this case, it must be ensured that the address is selected for the move command. For the Stop command, on the other hand, the address of the slat control must be chosen.

10.3.4 HVAC

This category offers elements that are adapted specifically to the heating / ventilation / air conditioning subsection. The value input is typical for datapoint type 1-bit DPT, e.g.:

This button can be used to set the Manual mode operating mode. For the “Manual mode” element, the following value is predefined for “Status” in the properties: "False" (value=0). Accordingly the relevant icon reflecting the Manual mode state is set by default, e.g.:

This button can be used to set the Automatic mode operating mode. For the “Automatic mode” element, the following value is predefined for “Status” in the properties: "True" (value=1). Accordingly the relevant icon reflecting the Automatic mode state is set by default. There are also elements purely for status display. Here the switching function is disabled in the properties, e.g.:



In the properties, the value for the “first status” is preset to: "Incorrect" (value=0) and the value for the “second status” is preset to: "True" (value=1). Accordingly the relevant icons reflecting the Cooling and Heating state are preset by default.

10.3.5 Scenes

This category offers elements that are suitable for calling up scenes. A range of various suitable icons is available. The value input is typical for datapoint type 1-bit DPT. This default setting calls or saves 1-bit scenes. If the datapoint type is changed to 8 bit, 8-bit scenes can also be called up or saved. The scene number can be set accordingly, e.g.:

This button can be used to call up the Meeting scene. For the “Scene Meeting” element, the following value is predefined for “Status” in the properties: "True" (value=1). Accordingly the relevant icon reflecting the Scene Meeting state is set by default.

10.3.6 Advanced elements

This category lists various display and control elements for setting and specifying values.

10.3.6.1 Special properties of the stepper

The elements such as “Step + / Step - ”, “Fan step + / Fan step - ”, “Lighting + / Lighting - ” etc. are used to incrementally increase or reduce a value. It is used, for example, in thermostats, to set temperatures or to dim the lighting, e.g.:

When pressed briefly, this button can be used to increase or reduce the value by one step. If the buttons are pressed for a long time, the values are accordingly increased or reduced by several steps to the maximum or minimum value. The “up” direction is predefined in the properties for the “Step +” element. The “down” direction is predefined in the properties for the “Step -” element.

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Behavior: Selects the switching behavior (up / down / toggle)

Short pulse: The time in milliseconds before the signal is interpreted as a long press. During this time, the steps are counted and the counted final value is sent when the button is released.

Step: Length of the step for the next value that is sent to the bus.

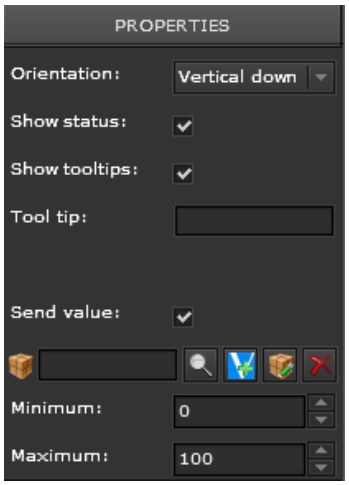
Send time: The time in milliseconds after which the value is sent to the bus. If the button is pressed multiple times during this time, the value is counted internally and the final value is sent after this time.

Maximum: The highest value that can be sent to the bus.

Minimum: The lowest value that can be sent to the bus.

10.3.6.2 Special properties of the slider

The slider controller element can be used for stage-less setting of values, e.g. setting dimming values. It works like an input value sending element and therefore requires a steady communication object, e.g. 0 – 100%, 0 – 255 to display a value. Various variants in horizontal or vertical operating direction are available for these sliders. The slider is moved on the user interface to the corresponding place for the value to be sent. This value is displayed in the bar.



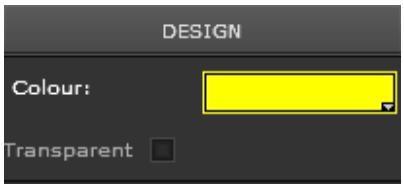
Orientation: Horizontal or vertical orientation of the slider. For the vertical orientation, you can also define whether the minimum value should be placed at the top or bottom.

Show status: The current value is displayed in the slider.

Maximum: The highest value that can be sent to the bus.

Minimum: The lowest value that can be sent to the bus.

Color: Set the colors for the bar representing the number value in the entire slider. Only for slider 1.



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Font: Select a font, font color, font size and formatting (bold, italics, underlined) for the current value display. All fonts installed on the computer are available.

Color: Set the background color for the entire slider. Only for slider 1.

Border: Set the border color around the entire slider. Only for slider 1.

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The following visualization views can be configured:

e.g. Slider 1 horizontal, for adjusting a dimming value

Slider 1 vertical,
for setting or displaying
a hangings position

e.g. Slider 2 horizontal, for adjusting a dimming value

Slider 2 vertical,
for setting or displaying
a hangings position

Note: The selection "Vertical down" means that the minimum value starts at the top. This is especially useful for blinds that have absolute positioning or a positioning status.

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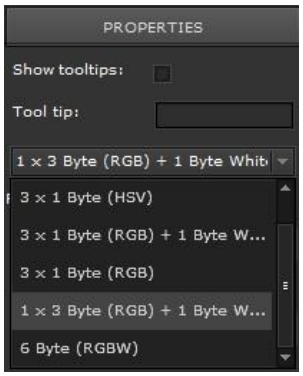
10.3.6.3 RGB control

This element is used to set RGB values via group addresses. Various color control options are available in the KNX. The IP Control Center supports the required control with the following selection:



1 x 3 Byte (RGB)
1 x 3 Byte (HSV)
3 x 1 Byte (RGB) + 1 Byte White
3 x 1 Byte (RGB)
1 x 3 Byte (RGB) + 1 Byte White
6 Byte (RGBW)

This element is used to set RGB (RGBW) values via group addresses. This enables control of colored lights.

Hue control: If this field is enabled, the following 3 channels for control of the hue, the saturation and the brightness are linked (HUE).

Red channel: Select the object or group address for the red color channel (values 0..100%). Applies only if hue control is not enabled.

Green channel: Select the object or group address for the green color channel (values 0..100%). Applies only if hue control is not enabled.

Blue channel: Select the object or group address for the blue color channel (values 0..100%). Applies only if hue control is not enabled.

Separate white channel: If this field is activated, an additional white channel for linking is available (RGBW control).

White: Select the object or group address for the white color channel (values 0..100%). Applies only if hue control is not enabled.

If hue control (HSV) is selected, the values are input in the following form:

Hue: Select the object or group address for the hue channel (values 0..100%). Applies only if hue control is enabled.

Saturation: Select the object or group address for the saturation channel (values 0..100%). Applies only if hue control is enabled.

Brightness: Select the object or group address for the brightness channel (values 0..100%). Applies only if hue control is enabled.

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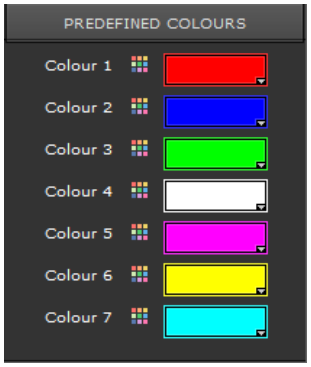
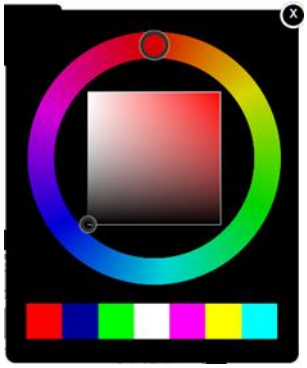


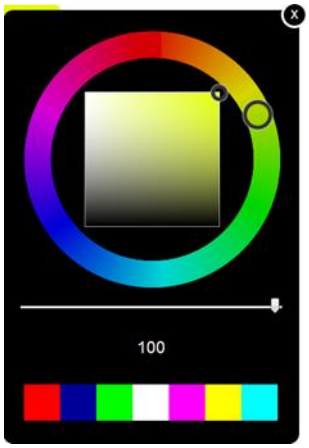
Any 7 colors can be predefined in this element. In the visualization view these 7 colors are directly available as color scenes.

When you click on the  icon, the following RGBW control element appears in the visualization view:



The outer circle is used to select the color. The inside square is used to set the saturation and brightness.

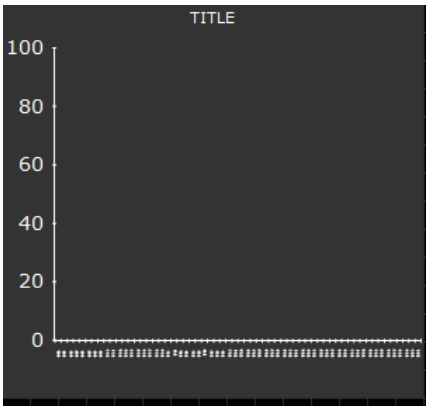
The saturation is modified in horizontal direction and the brightness is adjusted in vertical direction.



If the additional white channel for RGBW control has been configured, the slider can be used to change the white color between 0 and 100 %. The 7 predefined colors can be selected directly as a color scene.

10.3.6.4 HTML-Chart

This element is used to display recorded values in curve or bar charts (see also chapter: 11.5.2 Displaying datapoints).



The element is moved from the component tab to the relevant place in the work area of the visualization page by means of drag and drop.

The Series window is used to set the display to curve or bar chart.

A new data series is created for a bar chart. Corresponding further properties windows and parameters become available.

A new data series is created for a line chart. Corresponding further properties windows and parameters become available.

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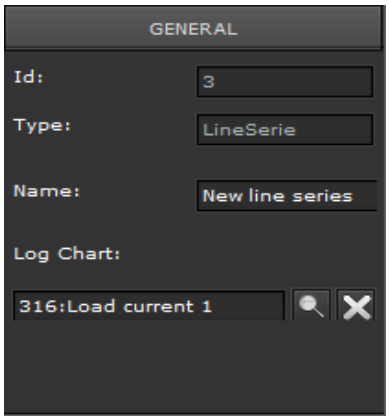
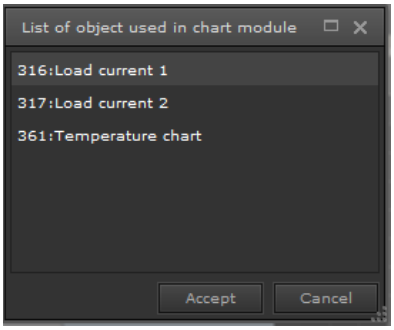
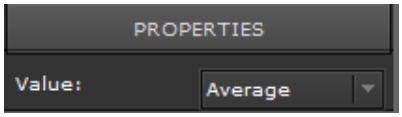
It is also possible to delete the charts or put them in the foreground or background. A selection window appears, showing the created datapoints from the Chart Module.



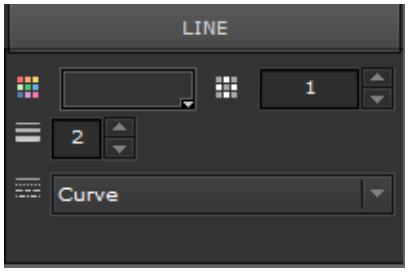
If a data series has been created and selected, you can choose the recorded datapoint from the General window. It is then displayed.



The datapoint to be displayed must be configured in the Chart Module beforehand (see also chapter: 11.5 Chart Module).



In the properties window you can choose whether to display the average values, maximum values or minimum values. Every minute the Chart Module calculates the average value, the maximum value and the minimum value for the recorded values. After an hour, the average value, the maximum value and the minimum value are in turn calculated for these values.



The Line window can be used to modify the display of the graph.

Color: The color of the line or the bar can be selected from a color palette.

Transparency: The transparency of the line or the bar can be modified in the range of 1 to 0.

Line thickness: The line thickness for a line chart can be modified in a range of 0 to 20.

Line form: The line form can be modified for a line chart. If you select Segment, the connection between two datapoints is shown as a straight line. If you select Curve, the connection between two datapoints is shown in rounded form.

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The Item window can be used to modify the display of the datapoint. This window is only available for line charts.

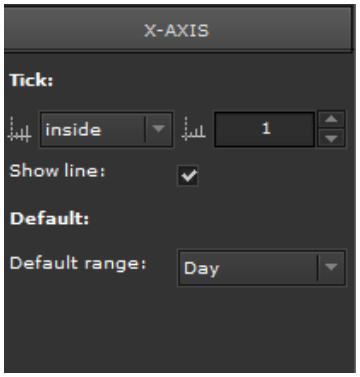
Form: The outer form of the value point can be selected. If you select none, the value points are not displayed. If you select box, the value points are displayed as boxes. If you select circle, the value points are displayed as circles. If you select cross, the value points are displayed as a cross. If you select the diamond, the value points are displayed as a diamond.

Color: The color of the value point can be selected from a color palette.

Transparency: The transparency of the value point can be modified in a range of 1 to 0.

Size: The size of the value point can be modified in a range of 0 to 20.

fill graph: If this field is enabled, the area below the curve will be filled with color to the x-axis.

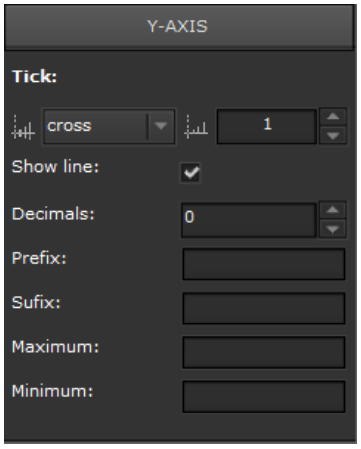


The x-axis window is used to modify the display of the x-axis.

Tick: The x-axis is divided by small dividing lines according to its time segmentation. These lines can be configured in terms of their display, inside, outside, both, none, and in regard to their length.

Show line: If this field is activated, the x-axis is shown as a line.

Default: You can set a default time range for the display of the chart. Time ranges from one hour to one year are possible.



The y-axis window is used to modify the display of the y-axis.

Tick: The y-axis is divided by small dividing lines according to its value segmentation. These lines can be configured in terms of their display, inside, outside, both, none, and in regard to their length.

Show line: If this field is activated, the y-axis is shown as a line.

Decimals: The value display can be configured with and without decimals. The number of decimals is set here.

Prefix: Here you can place, for example, labels, physical values etc. before the display value.

Suffix: Here you can place, for example, physical values, units etc. after the display value.

Maximum: The y axis can be manually scaled to a maximum value.

Minimum: The y axis can be scaled manually to a minimum value.

If no maximum or minimum values are configured, scaling is performed automatically in the corresponding value range of the recorded values.

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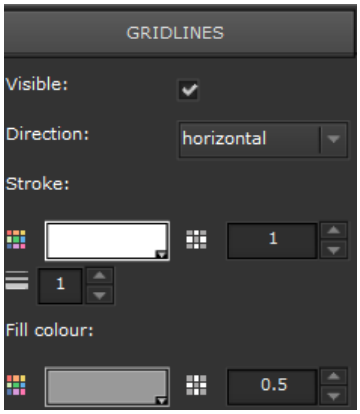
The gridlines window is used to configure the display of a grid.



Visible: If this field is activated, the grids are displayed.

Direction: You can choose whether gridlines are shown in horizontal direction, in vertical direction or in both directions.

Color: The color of the gridlines can be selected from a color palette.

Transparency of gridlines: The transparency of gridlines can be modified in a range of 1 to 0.

Line thickness: The line thickness of the gridlines can be modified in a range of 0 to 20.

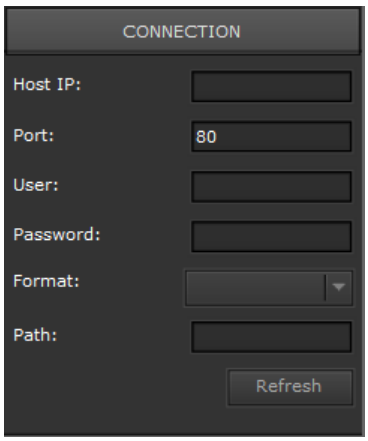
Fill color: The fill color of the entire area between the gridlines can be selected from a color palette.

Transparency of fill color: The transparency of the fill color can be modified in a range of 1 to 0.

10.3.6.5 IP Camera

This element is used to display images from a web camera as *.jpg or videos from a web camera as *.mjpg.

The IP Camera element is moved from the component tab to the relevant place in the work area of the visualization page by means of drag and drop. The camera is set up in the Connection window.



Host IP: Enter the IP address of the web camera.

Port: Enter the port number of the camera.

User: Enter the user name that was defined for the enabling of the camera.

Password: Enter the password that was defined for the enabling of the camera.

Format: Choose whether the camera should supply the image in jpg format or the video in *.mjpg format.

Path: The path where the images/videos on the camera are available.

Note: If more than 5 IP camera elements are linked on a visualization page, the following error message appears: Warning, maximum number of IP cameras reached. No more than 5 connections to IP cameras can be active at the same time! In general you can configure more than 5 IP cameras if they are distributed among different visualization pages. However, as the IP Control Center can be accessed simultaneously from multiple web clients (browsers), you must ensure that no more than 5 connections to IP cameras are active at the same time.

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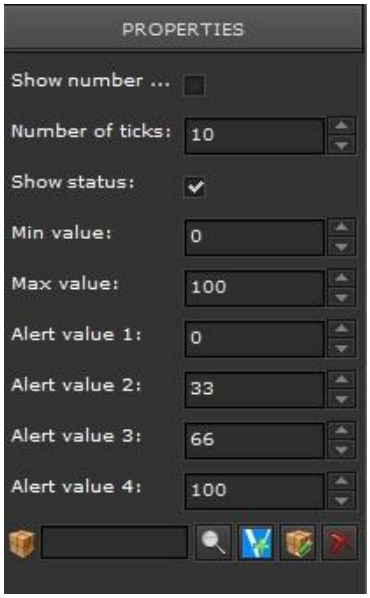
10.3.6.6 Display of analog values

This element is used to display or graphically display a range of analog values. Up to 4 threshold values can be displayed within the value range in different colors.



Show number: This displays ticks within the value range as figures.

Number of ticks: This is used to set the number of divisions, the ticks within the value range. Up to 25 ticks are possible.

Show status: If this option is enabled, the current analog value is presented as a number status in a window.

Min value: Minimum value of the value range that is graphically displayed. This value depends on the datapoint type of the linked object or the group address.

Max value: Maximum value of the value range that is graphically displayed. This value depends on the datapoint type of the linked object or the group address.

Alert value 1...4: You can configure up to 4 alert values within the set minimum and maximum values. These alert values therefore also depend on the datapoint type of the linked object or the group address. The areas between these alert values can be presented using different colors. These can serve as warning and alarm values.

The colors of the various elements within the analog display are set via the style.

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Color: The background color of the entire round element is defined. The value after this color setting is used to set the transparency. Values between 0 and 1 can be chosen. The value 0 means the background color is completely transparent. The value 1 means the background color is not transparent at all.

Indicator color: The color of the indicator is defined. The value after this color setting is used to set the transparency. Values between 0 and 1 can be chosen. The value 0 means the indicator color is completely transparent. The value 1 means the indicator color is not transparent at all.

Tick: The color of the subdivisions is defined. These subdivisions are displayed by the longer lines. The subdivisions result from the configuration of the ticks. The value after this color setting is used to set the transparency. Values between 0 and 1 can be chosen. The value 0 means the color is completely transparent. The value 1 means the color is not transparent at all.

Alert color 1-4: The colors for the alert thresholds defined above can be configured here.

Text: The color of the current analog display value is defined. Any set ticks are also displayed in this color. The font and font size of the current analog value can be set.

The colors of the various elements within the analog display are set via the style.

The following image shows different displays in the visualization view:

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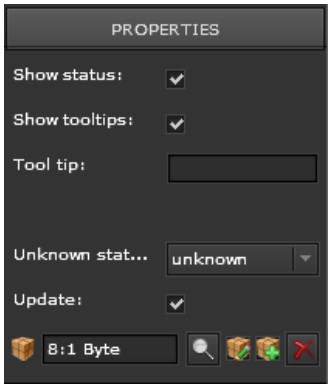
10.3.6.7 Special properties of the Matrix Element

The Matrix element is used to send or display various values with a single button. The display corresponds to a matrix and depends on the number of values to be sent. These values can be configured individually, e.g. in a range of 0 – 255.

For a configuration of 5 states with the values 0 – 4, the following visualization display results:

State 1: Value 0
State 2: Value 1
State 3: Value 2
State 4: Value 3
State 5: Value 4

For this purpose, the properties are defined and an object is connected to the element.



The “show status” parameter can be used to define which status should be displayed if the status of the KNX is unknown or does not match the definition.

The statuses are configured with the  and  buttons in the “advanced object properties” field. Use the +/- buttons in the advanced object properties to create or delete individual statuses.

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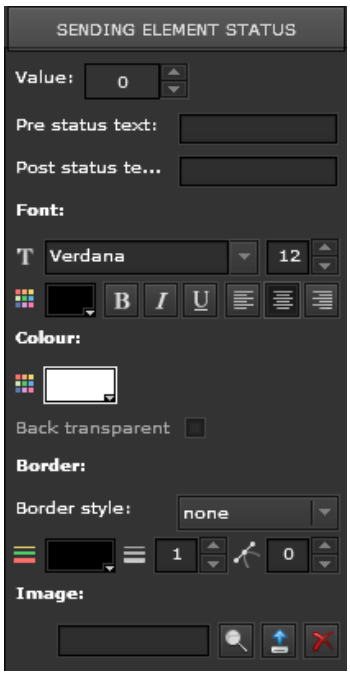
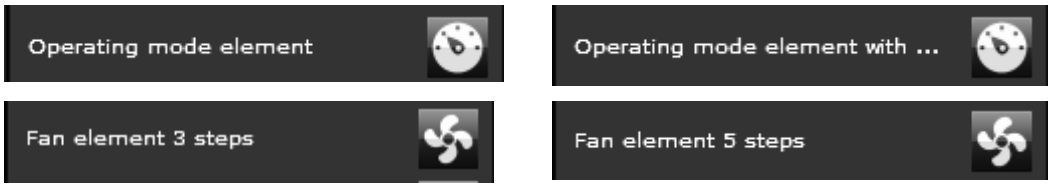
Select the status to be configured and then define the values for the relevant statuses in the “Field ID value” tab.



Value: The value that is to be sent or for which a check should be performed.

The value can either be displayed via text (before value and after value) and value display as a number, or by means of a corresponding image. To do so, select a relevant image under Images.

The matrix elements offer ready-to-use preconfigured solutions for setting heating modes and for setting fan speeds. These elements are adapted to communication objects of the datapoint type 1 Byte unsigned, 0 – 255.



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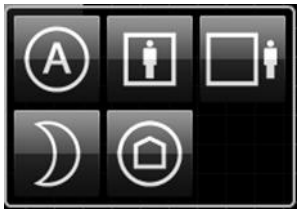
This allows the following visualization displays to be used:

Temperature control with operating modes

- Comfort (value 1)
- Pre-comfort (standby) (value 2)
- Lowering at night (value 3)
- Protective mode (value 4)

Temperature control with operating modes

- Automatic operation (value 0)
- Comfort (value 1)
- Pre-comfort (standby) (value 2)
- Lowering at night (value 3)
- Protective mode (value 4)



The statuses are defined not by the values, but by corresponding operating mode symbols.

Setting 3 fan speeds

- Fan speed OFF (value 0)
- Fan speed 1 (value 33)
- Fan speed 2 (value 66)
- Fan speed 3 (value 100)

Setting 5 fan speeds

- Fan OFF (value 0)
- Fan speed 1 (value 20)
- Fan speed 2 (value 40)
- Fan speed 3 (value 60)
- Fan speed 4 (value 80)
- Fan speed 5 (value 100)

The statuses are defined not by the values, but by corresponding fan symbols.

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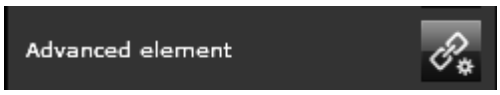
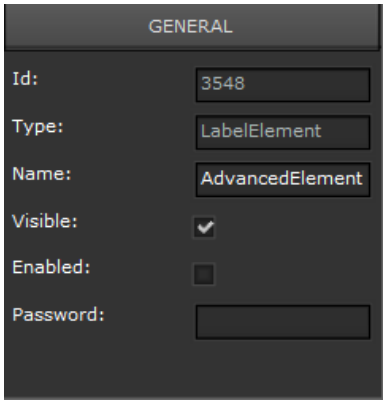
10.3.6.8 Special properties of the Advanced element

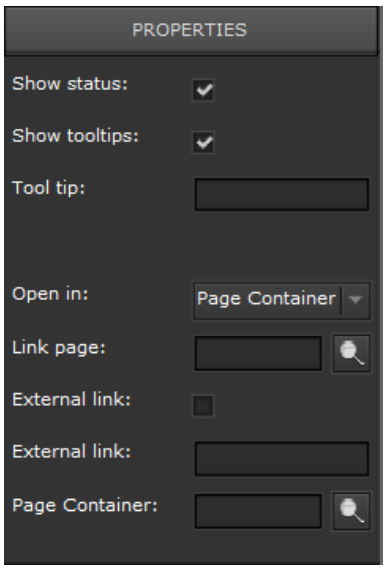
This element is multi-functional and can be used to implement a wide range of applications.



A password can be defined in the General field. This makes it possible to change pages only after entering a password.



Calling pages or going to an external link:



Open in: Here you select whether the page to be displayed should be displayed in a container or in a window.

Page: Here a pop-up with all currently configured pages and modules is displayed. The required page or module to be displayed in a container or window can be selected here.

External link: If this function is enabled, an external website (e.g. a web camera) can be called up.

External link: Here the web address (http://...) of the required external page is defined. It is displayed accordingly in a container or in a window.

Page Container: This parameter is only available if display in the container was selected. Here you select whether this page should be called in a frame (container) or as a new page (_self). If an external link was activated, you can call the page up in another tab by selecting (_blank). See also chapter: 9.2 The page navigation concept.

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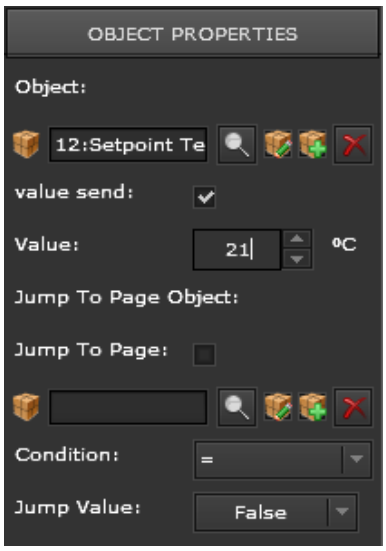
Setting a value and calling a page in dependence on a condition:



value send: If you choose this setting, the value set in the field is sent when the button is pressed.

Jump to Page Object: If you choose this setting, you can define an object as a trigger for a page change. You can also enter the condition as well as the value for comparing this condition.

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10.3.6.9 Special properties - send value

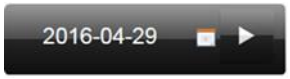
This element is used to send a telegram with a set value. Depending on the chosen datapoint type DPT for the communication object to be sent, a different display appears.

If the datapoint type is set to 1-bit DPT, the element is displayed on the visualization page as follows:

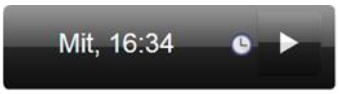
If the datapoint types 1 Byte, 2 Byte, 4 Byte DPT are set, the element is displayed on the visualization page as follows:

The values can be modified with the arrow buttons. Values can also be input directly in the input field with the keyboard. The values are sent after the modification and a brief delay. When the SEND button is pressed, the set values are also sent.

If the datapoint types 3 Byte Date (DPT 11.001) or 3 Byte Time (DPT 10.001) are set, the elements are displayed on the visualization page as follows:



The calendar display allows the date to be set ergonomically:



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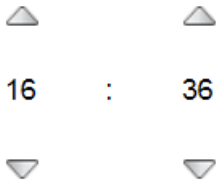
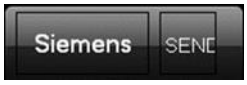


The time is set ergonomically using the arrow buttons for the hour and minute selection.

Note: This element with the datapoint types 3 Byte Date (DPT 11.001) or 3 Byte Time (DPT 10.001) can be used to manually assign the current date or time to the IP Control Center. For this purpose, the ETS parameter: Clock Mode for synchronization is set to slave. The ETS communication objects 2 Date and 3 Time must be assigned to the relevant send value elements.

Automatic updates to date and time via the KNX bus (e.g. weather station) or a time server (ETS configuration as master) are always preferable to the manual input of date and time. They ensure precise values for date and time.

If the datapoint type is set to 14 Byte DPT, the element is displayed on the visualization page as follows:



When the SEND button is pressed, the text (value) displayed in the visualization is sent to the KNX bus.

Note: In the 14 Byte format, no more than 14 characters are permitted. Excess characters are cut automatically.

10.3.6.10Special properties - alarm status

This element is used to indicate an alarm status. Various value contents can be displayed with different alarm symbols, e.g. alarm ON or alarm OFF (the function is comparable to elements of the “General status” category).

10.3.7 Audio/video

This category offers elements that are designed specifically for controlling audio or video devices. In this regard, the corresponding DPT datapoint type for value input can be set freely, e.g. switch on, sound ON or sound off with 1-bit DPT. Matching icons are available for a wide range of functions, e.g.:

These buttons can be used to switch on the device. For the “Switch on” element, the following value is predefined for “Status” in the properties: "True" (value=1).

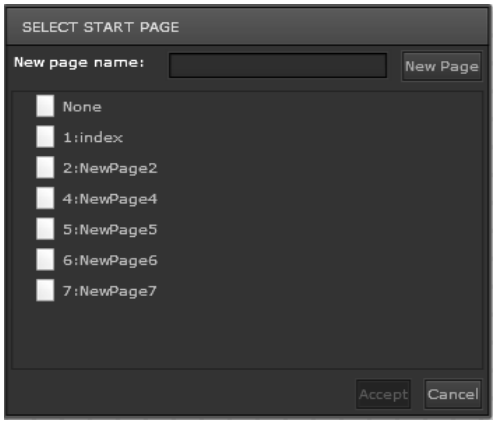
10.3.8 Navigation elements

This category lists various control elements for navigation, labelling and image display.

10.3.8.1 Special properties of the container

A page container is a frame in which other pages can be displayed. See also chapter: 9.2 The page navigation concept.

When you use drag & drop to move the “Container” element to the work area of the visualization page, the following window opens:



This window is where you select the page to be displayed in the container. This selection can also be performed later on. By default this container has a size of 600x480 pixels, but this can be modified at any time. See chapter: 9.1.1.3 Size.

This container is used, among other things, with the “Page Navigation” control element, which is used to call up websites (navigation) or call up external internet pages in this container, see also chapter: 9.2 The page navigation concept. This means this container can be used to create a frame within a website to display other pages.

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Id: Internal ID number

Type: Element property

Name: Name of the control element, corresponds to the function. The name can be edited. When you assign a new name, it should relate to the function.

Visible: Displays the element in the visualization.

Enabled: Enables the switching functions. If disabled, only the status information is displayed.

Scroll: Enables scrolling on a page.

Default page: Name of the visualization page.

External link: If this option is enabled, it is possible to refer to an external link.

Background: Select the background color.

Back transparent: Visible/invisible

Border: Choose a border, border form and its formatting characteristics. (Color, thickness and corner radius).

Width: The width of the element is defined here.

Height: The height of the element is defined here.

X: Distance on left between element and page edge.

Y: Distance on top between element and page edge.

Z: This is where the position of the layer (background/foreground) is displayed. This field cannot be edited. Use the “Edit” and “Move to front” or “Send to back” menu selection to move the selected element.

Locked: The element is locked and can no longer be moved using the editor.

If you use the coordinate field, the display and control element is scaled to the window size. In addition, you can define margins.

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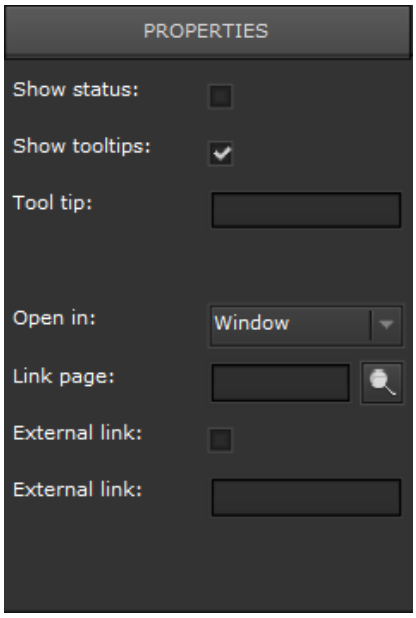
10.3.8.2 Special properties - Page Navigation (transparent)

This element is used to call other pages in a window, a container or a new website, see chapter: 9.2 The page navigation concept.

This element is shown as transparent without its own background.

Calling pages or going to an external link:



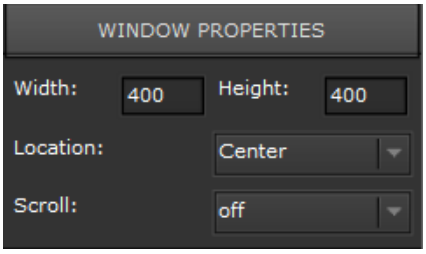
Open in: Here you select whether the page to be displayed should be displayed in a window.

Page: Here a pop-up with all currently configured pages and modules is displayed. The required page or module to be displayed in a window can be selected here.

External link: If this function is enabled, an external website (e.g. a web camera) can be called up.

External link: Here the web address (http://...) of the required external page is defined. It is displayed accordingly in a window.

The Window Properties are used to make settings for the window in which the page will be displayed.



Width: Width of the window.

Height: Height of the window.

Location: This is where position of the window is set. The page is displayed in this position on the visualization page. The following locations are available: *Top left, top center, top right, center left, center, center right, bottom left, bottom center, bottom right.*

Scroll: You can display a scroll bar.

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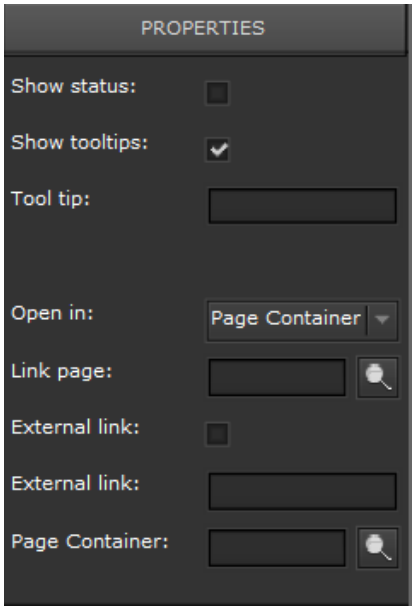


Open in: Here you select whether the page to be displayed should be displayed in a container.

Page: Here a pop-up with all currently configured pages and modules is displayed. The required page or module to be displayed in a container can be selected here.

External link: If this function is enabled, an external website (e.g. a web camera) can be called up.

External link: Here the web address (http://...) of the required external page is defined. It is displayed accordingly in a container.

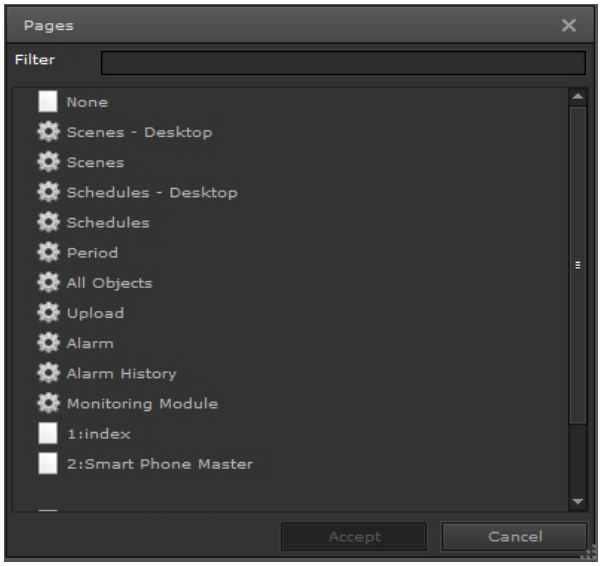
Page Container: This parameter is only available if display in a container was selected. Here you select whether this page should be called in a frame (container) or as a new page (_self). If an external link was activated, you can call the page up in another tab by selecting (_blank).

External link: If this function is enabled, an external website (e.g. a web camera) can be called up.

External link: Here the web address (http://...) of the external page is defined.

Page Container: Here you select whether this page should be called in a frame (container) or as a new page (_self). If an external link was activated, you can call the page up in another tab by selecting (_blank).

Pages selection box: Here a pop-up with all currently configured pages and modules is displayed, and you can select the page you want to jump to.



When you select the page, you see not just the visualization pages that have already been configured, but all default pages possible in the device, such as: *Schedules, Period, All Objects, Upload, Alarm, Alarm History, Monitoring Module:*

Note: When you select the page container, the option "_blank" is only available for external links. The "self" option opens a new window in the Internet Explorer or a new tab in Firefox.

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Setting a value and calling a page in dependence on a condition:

value send: If you choose this setting, the value set in the field is sent when the button is pressed.

Jump to Page Object: If you choose this setting, you can define an object as a trigger for a page change. You can also enter the condition as well as the value for comparing this condition.

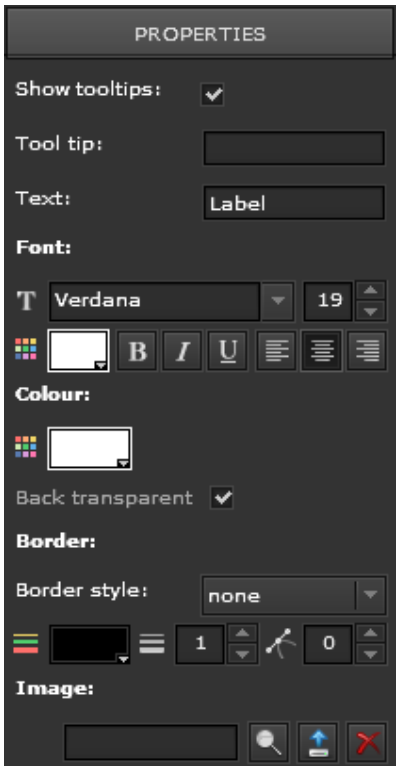
Note: Please note that only changes to the value lead to an action. If the same trigger is received multiple times, the page change is not performed. This element is identical to the “Advanced elements” from the “Advanced control elements” category, with the difference that the text “reference” is displayed here instead of the “value”. With the text, it therefore serves as a link element for calling other pages. The switching function is enabled.

10.3.8.3 Special properties - Page Navigation

This element is identical to the "Page Navigation (transparent)" element, with the difference that a background has already been predefined to display the appearance of a navigation button. See also chapter: 9.2 The page navigation concept.

10.3.8.4 Special properties - Label (transparent)

This element is used to describe another element. It is a labelling element.



This element is shown as transparent without its own background.
The description is entered in the Text field provided.

Note: To prevent text from being displayed incorrectly, you should not use backslash characters.

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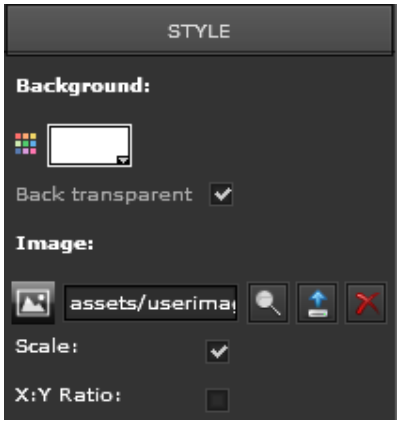
10.3.8.5 Special properties of the Label

This element is identical to the "Label (transparent)" element, with the difference that a background has already been predefined.

10.3.8.6 Special properties of the Image

This element is used to display images, especially project-specific background images such as floor plans, building views etc.



Background: Select the background color.
Back transparent: If this option is enabled, the background color becomes transparent.
Image: Use to select an existing image from a list. Use to load a new image. Use to remove the current image from the application.
Scale: The image is automatically assigned the default resolution.
X:Y Ratio: The width/height ratio is maintained during scaling.

Note: Use and then "Remove image" to remove uploaded images from the flash memory. You can remove entire directories.

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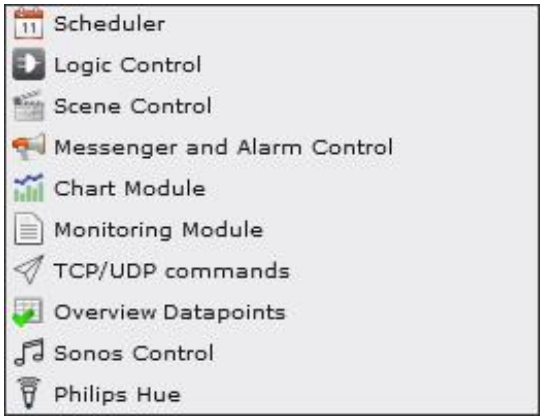
11 Modules

The IP Control Center has a range of central functions / applications for easily and effectively automating a KNX system. The automation functions are provided by means of modules. These are selected in the Module menu.

The module menu:

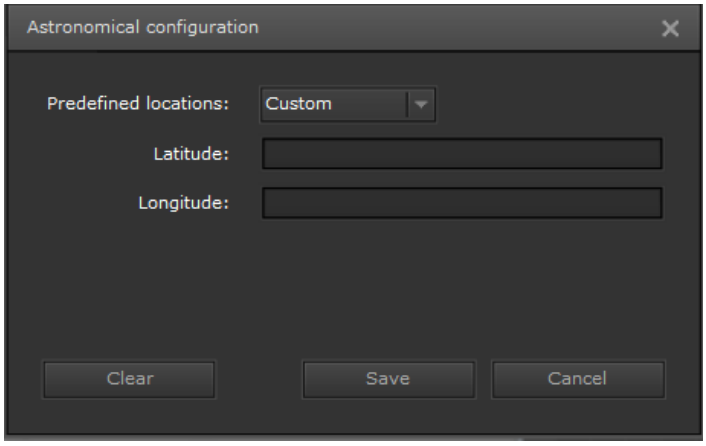


- Scheduler
- Logic module
- Scene control
- Messenger and Alarm Control
- Chart Module
- Monitoring Module
- TCP/UDP commands
- Overview Datapoints
- Sonos Control
- Philips Hue

11.1 Scheduler

The IP Control Center enables 300 weekly schedules with up to 30 entries per schedule. There is also an astronomical calendar. This makes it possible to define switch commands to take place at sunrise or sunset.

Astronomical configuration



The precise location is required in order to calculate sunrise and sunset times correctly.

The configuration window provides predefined locations with their longitude and latitude for this purpose. The values are given in decimal degrees. You can also enter the longitude and latitude directly. These settings are made in the editor. See also chapter: 8.5.6 The configuration menu.

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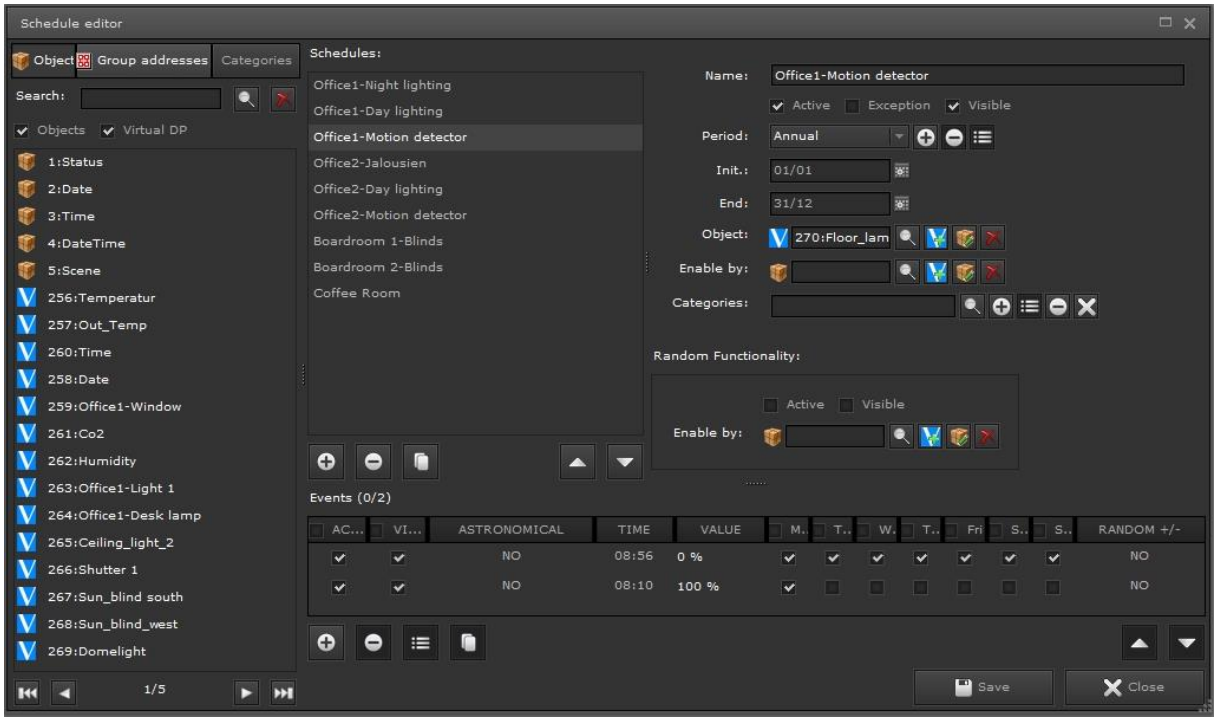
To configure the schedules, call up a scheduler module in the editor. The following figure shows the schedule editor window.

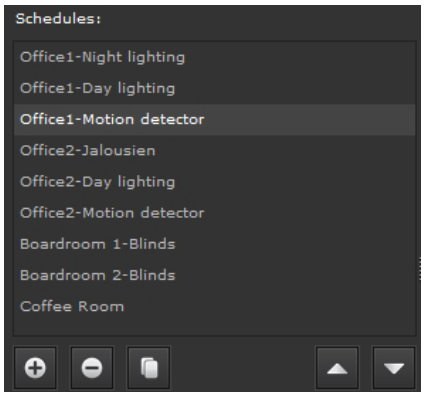


The left side displays the objects, virtual objects or group addresses for selection. These can later be assigned to the relevant schedules via drag & drop.

Schedules that have already been created are shown in the middle. This menu section can be used to add new schedules, duplicate existing schedules or delete them.

A menu for the basic settings of the selected schedule is displayed on the right.

The lower section is used to define and edit time commands. This menu section can be used to add new schedules, duplicate existing schedules or delete them.



Add schedule

Delete schedule

Copy schedule

Scroll up

Scroll down

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Note: It makes sense to assign the object or the group address, as the name is automatically filled with the object name or, in case of a group address, with the group address.

The events can be edited in the basic settings menu on the right. When you select a schedule, the right side is filled with the individual definitions as the next step:

Name: Designation of the schedule.

Active: Activation/deactivation of the schedule.

Exception: If this option is selected, the period specified in this schedule is applied to all other scheduler schedules linked in the same object.

Visible: If this option is enabled, the schedule is displayed to the user. This allows the user to change functions.

Period: By default, every scheduler module is set to an annual cycle. Other periods can be set using the switches on the right. The start and end of a period are displayed in the fields. A date calendar is available for adjusting a period.

Init: Time at which execution of the schedule begins.

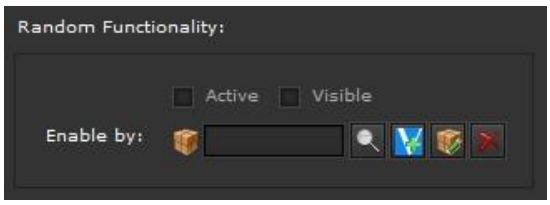
End: Time at which execution of the schedule ends.

Object: Here the object or group address is defined for which the schedule is being created.

Enable by: The schedule can be enabled via a different object or group address. It is only executed if the value of the enabling object is "1".

Categories: Here you can assign the object (schedule) to a category. This enables sorting and grouping in the web configuration interface. See also chapter: 11.8 DTP Management.

This function can be used to set a random time variance around the scheduler point configured below. This makes it possible to use the defined scheduler commands for a presence simulation.



Active: Activates the random function.

Visible: If this option is enabled, the result is displayed.

Enable by: The random variance in scheduler points can be enabled via a different object or group address. It is only executed if the value of the enabling object is "1".

Note: You can also assign the group address freely. This means you enter any known group address directly in the field, regardless of the group addresses output after an esf file import. The group address and its effect should be known from the ETS project. The corresponding datapoint type should be considered during the process!

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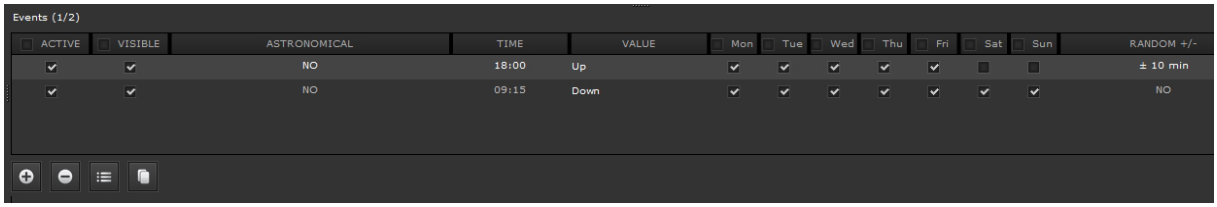
Next the events, or time commands, of the schedule are set. Up to 30 events are possible per schedule.



Active: Activation/deactivation of the event.

Visible: If this option is enabled, the event is displayed to the user.

Astronomical: If the astronomical: clock is activated, a time difference before or after sunrise or sunset can be defined.

Time: Select the time at which the event will be executed.

Value: Input the value. The selection field is different for different datapoint types DTP.

Day of the week: Select the day of the week on which the event will be executed.

Random: The scheduler point changes randomly within the time range set here. This makes it possible to configure a presence simulation.

Clicking on the Random selection box opens the following window. For every event you can define a random variance in the range of +/- 119 min. A check in the selection box activates the execution of the set variance.

The two direction buttons on the bottom right edge display the current pages with the events.

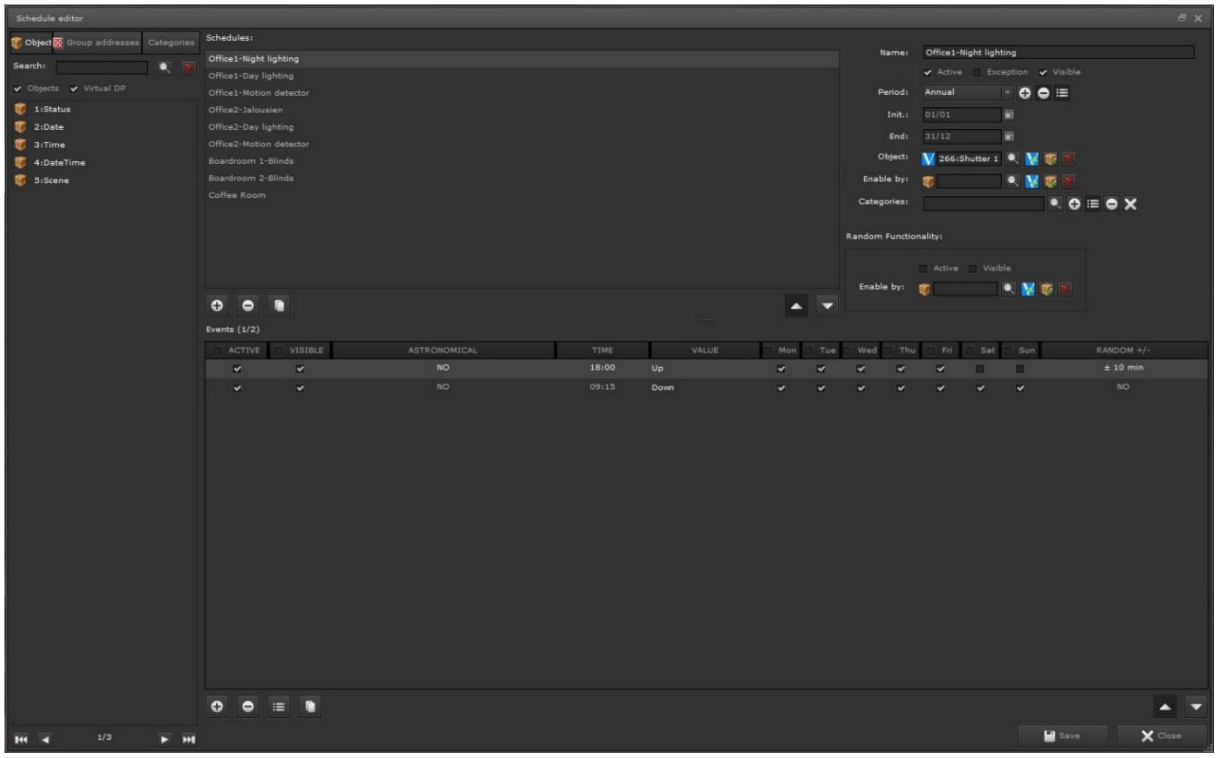
In addition, the following command buttons are available at the bottom edge:

- Add new event
- Delete an event
- Edit an event
- Duplicate an event

11.1.1 Example of a schedule

The following example shows how to set up a schedule. The name of this example plan is “Office1-Night lighting”. The sent object has the number 266. 2 events are preset in this example:

1. Monday to Sunday, virtual object 266- start at 00:05 min before sunrise (value)- end at 00:15 min after sunset (value 0)



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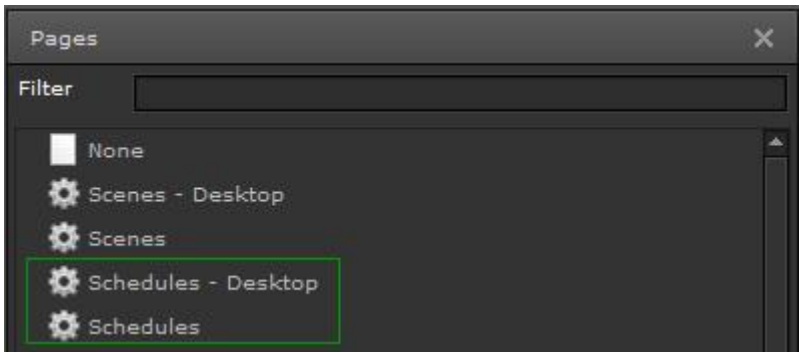
11.1.2 HTML display

The IP Control Center enables you to choose whether schedule commands are shown in a visualization view for smartphones (Schedules) or in a visualization view for PCs (Schedules - Desktop). When the page is created in the editor, the page list is called under “Properties” with  . Here you can then select the required display type.



11.1.2.1 HTML display for the user: Schedules (smartphone)

When the configuration settings are complete, the user can make settings and changes on the visualization page. A linked link must be created in the visualization for access (see also chapter: 9.2 The page navigation concept) to display the current schedule on the visualization page. The schedules are listed in the HTML display.

The name of the schedule is specified in the information line. A deactivated schedule is shown as “crossed out”.

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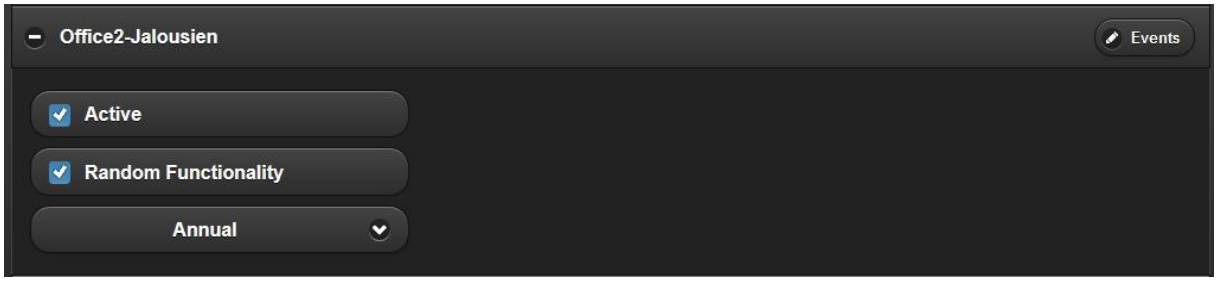
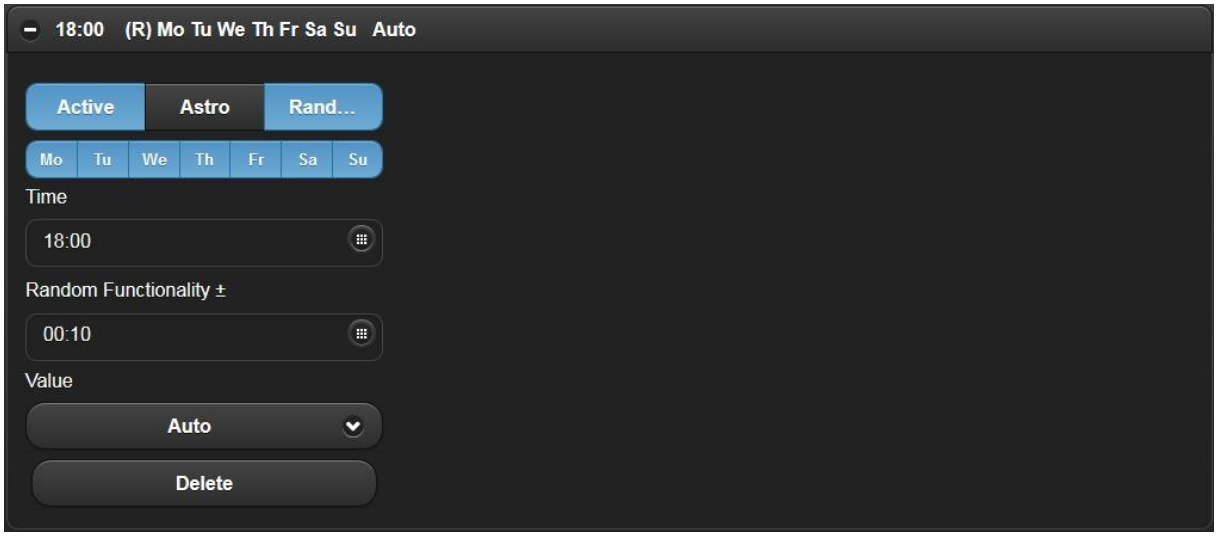
Note: The user can only make changes if the option "Visible" is selected in the settings.

Selecting the line causes a drop-down area to appear, where the schedule can be activated or assigned to a predefined period. In addition, it is also possible to activate the basic random functionality here. For this purpose, the random variance of commands must be activated and made visible in the editor.



Use the  switch (Events) on the right of the selected schedule to access the window for opening switch commands. If you choose this switch command, the following settings appear:



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The following options are available in this window:

Active: Here you can deactivate or activate this switch command.
Astro: Here you can define whether this is a normal time or an offset from sunrise or sunset.
Random: Here you can activate the random functionality.
Day of the week: Activation/deactivation of individual days of the week.
After/before: The time is before or after sunset/sunrise. Only if the Astro function is activated.
Time: Drop-down menu for setting the time at which an event is to be executed.
Random functionality +/-: Drop-down menu for setting the variance by which the set time should vary every day.
Value: Enables the value sent on the bus to be changed.
Delete: Use the "Delete" button to delete this entry.

Use the "Save" button to accept your changes. The editor must be closed for this purpose.

Note: An (A) in the overview line means that this time was defined in relation to sunset or sunrise. An (R) in the overview line means that this time is varied every day.

Use the  button to navigate to the previous window. Use the  button to navigate to the home view for schedules.

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11.1.2.2 HTML display for the user: Schedules (desktop)

As with the display for smartphones, it is possible to make settings and changes in the desktop display on the visualization page.

The following options are available in this window:

Active: Place a check to deactivate or activate this switch command.
Astro: Here you can define whether this is a normal time or an offset from sunrise or sunset.
Random: Here you can activate the random functionality for presence simulation.
Day of the week: Activation/deactivation of individual days of the week.
After/before: The time is before or after sunset/sunrise. Only if the Astro function is activated.
Time: Drop-down menu for setting the time at which an event is to be executed.
Random functionality +/-: Drop-down menu for setting the variance by which the set time should vary every day.
Value: Enables the value sent on the bus to be changed.
Delete: Use the "Delete" button to delete this entry.

Use the "Save" button to accept your changes. The editor must be closed for this purpose.

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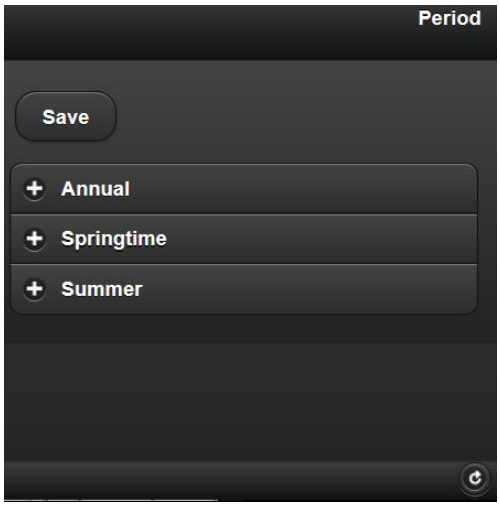
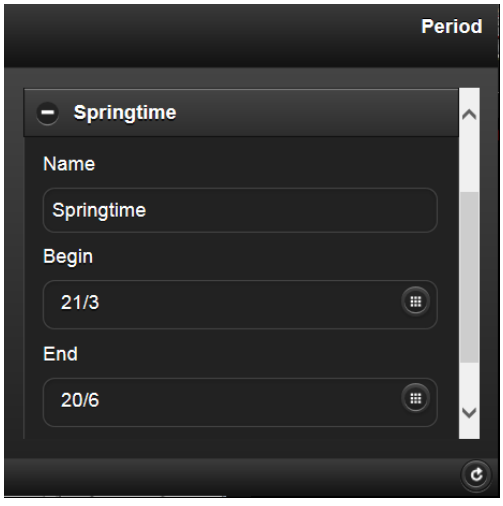
11.1.2.3 HTML display for the user: Period

When the period settings are complete, the user can modify the default settings on the visualization page. A linked link must be created in the visualization for access (chapter: 9.2 The page navigation concept) to display the current period on the visualization page.



The periods are listed in the HTML display. When you select a period, a new window appears. The following options are available in this window:



Name: Here you can enter or change the name of the period.
Begin: Here you can enter the start date for the period.
End: Here you can enter the end date for the period.

Use the "Save" button to accept your changes. The editor must be closed for this purpose.

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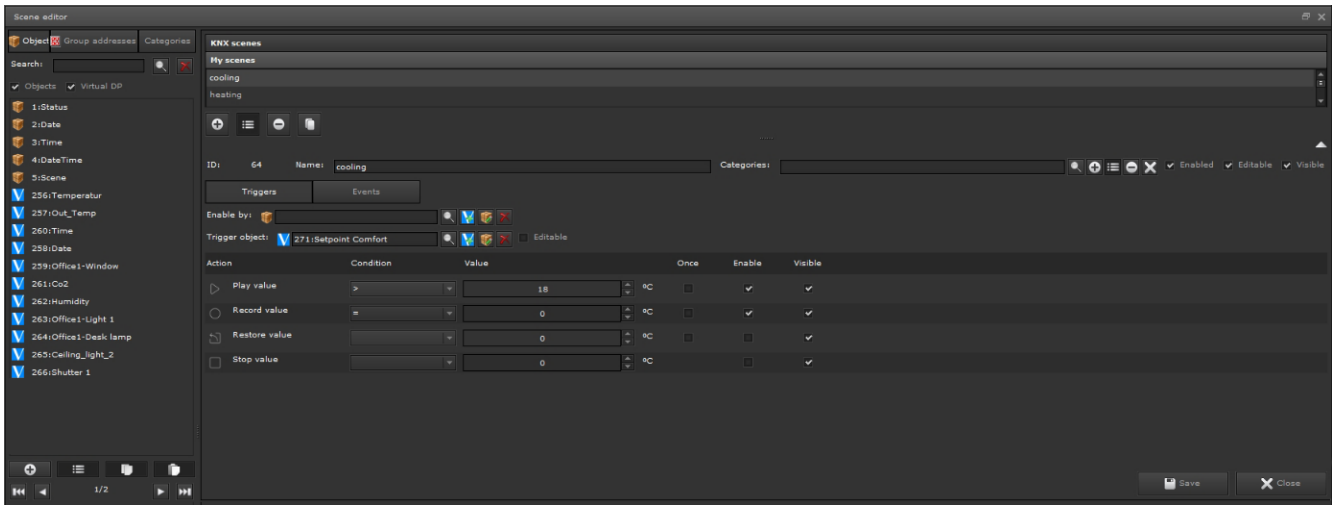
Use the  button to navigate to the previous window. Use the  button to navigate to the home view for schedules.

Note: For the schedules to function precisely, it is necessary to set the current date and current time, see also chapter: 6.3 Setting the date and time. This requires receiving the current date and time via the KNX bus (IP Control Center as slave) or adopting the current date and time from a time server (IP Control Center as master). If the values for date and time are not correct, scheduler commands will be executed incorrectly or unintentionally. If, for example, a date value from 2006 is set, e.g. after a power failure, no schedule programs will be executed.

11.2 Scenes

The scene module in the IP Control Center permits up to 5000 scenes or events to be configured. This includes 64 KNX scenes. A scene contains a list of events with communication objects or group addresses that are started by a trigger object or a trigger group address. For configuration, call up a scene control module in the web editor. All values can be edited via drag & drop or directly in the table.



On the left, the window for scene configuration contains the objects, virtual objects or group addresses for selection. These can later be assigned to the relevant events via drag & drop.

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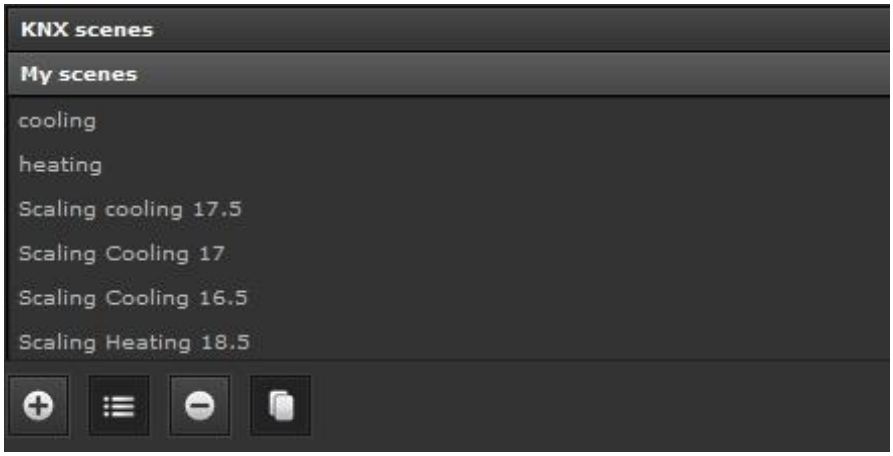
The upper middle part of the scene configuration contains predefined scenes under the name of KNX scene (scenes that can be called via the central scene object) and custom scenes called “My scenes”.

11.2.1 KNX scenes




Add scene


Edit scene


Delete scene


Copy scene

Several parameters defined by the KNX standard are specified for activating KNX scenes.

Name: Input the name of the scene.

Categories: The scene can be assigned to a category. Generally the following properties can be set for every scene: Enabled, Editable and Visible.

Active: The scene is enabled and can be executed.

Editable: The scene can be edited in an HTML configuration.

Visible: The scene is visible in an HTML configuration.

The two buttons for triggering a scene offer the following options:

Enable by: Here you can define an additional object or group address to activate or deactivate these scenes.

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Trigger object: Designation of the trigger object. The required trigger object can be selected from a list by clicking on the magnifying glass.

Trigger area

Play value: Select the logical trigger conditions and number of trigger impulses that cause the scene to be started.
Record value: Select the logical trigger conditions and number of trigger impulses that cause the scene to be recorded.
Restore value: Select the logical trigger conditions and number of trigger impulses that cause the scene to be restored.
Stop value: Select the logical trigger conditions and number of trigger impulses that cause the scene to be stopped.
Once: The linked action is performed only once. The scene is only started again when a new value is received.
Enable: Disables/enables this trigger function.
Visible: This trigger function is visible in an HTML configuration.

Note: You can also assign the group address freely. This means you enter any known group address directly in the field, regardless of the group addresses output after an esf file import. The group address and its effect should be known from the ETS project. The corresponding datapoint type should be considered during the process!

Events area

Objects and group addresses can be moved to the table view via drag & drop. The values can be modified in this view.

Delay: The start delay for this event is defined here.

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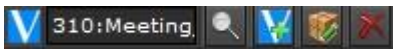
Object: An object or a group address is defined here via drag & drop or by keyboard input.
Display Name: A different description text can be entered in this field for display on an HTML configuration page.
Value: The value is defined in this field. The input options depend on the DPT, which means that colors can also be entered via a color palette, for example.
Enable: Here you can deactivate or activate an event.
Editable: This setting determines whether the event can be edited in the HTML configuration.
Used: This setting specifies whether this event can be used in the HTML configuration.
Available: All events with this option are available in the HTML configuration as possible events.

The following command buttons are available at the bottom edge:

- Add new event
- Delete an event
- Edit an event
- Duplicate an event

Note: If an event of a scene is to be executed but is not part of the HTML configuration, the "Used" setting must be deactivated.

The events can be edited directly in the overview window. A click opens the following settings window:



Search: Open a search window.
New virtual object: Create a new virtual object.
Edit process point: Edit the process point.
Disconnect: Disconnect the current process point.

Note: If the scene editor is open and a scene recording has started in the project at the same time, the changed values are adopted after the recording in the scene module has ended. If the editor is already open, the changes in the device are displayed only after the editor is restarted.

Note: 14 Byte DPT cannot be used as trigger objects for a scene. If alphanumeric and numeric characters are used to start a scene, this scene is not executed.

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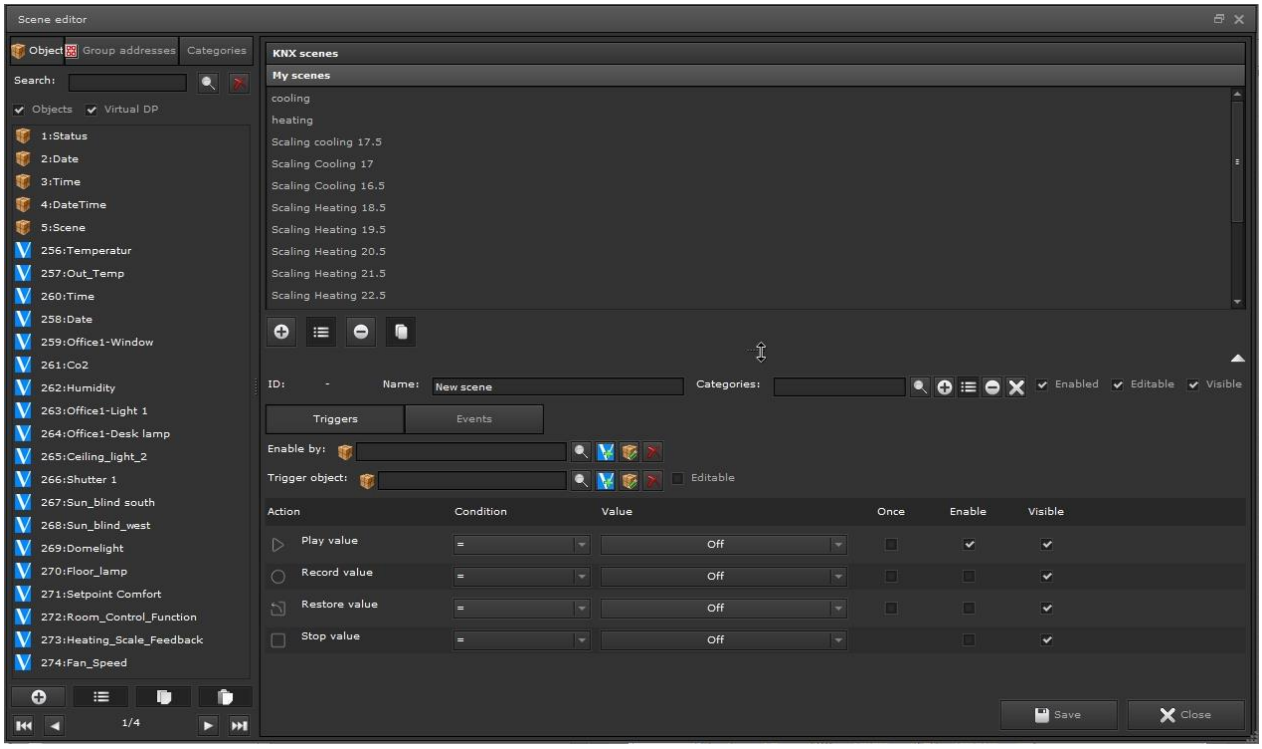
11.2.2 My scenes

This view is used to configure the internal scenes of the IP Control Center. The following illustration shows an example of a standard scene:



Name: Input the name of the scene.

Categories: The scene can be assigned to a category. Generally the following properties can be set for every scene: Enabled, Editable and Visible.

Active: The scene is enabled and can be executed.

Editable: The scene can be edited in an HTML configuration.

Visible: The scene is visible in an HTML configuration.

Triggers/Events: Buttons for triggering a scene. See chapter: 11.2.1 KNX scenes

Enable by: Here you can define an additional object or group address to activate or deactivate these scenes.

Trigger object: Designation of the trigger object. The required trigger object can be selected from a list by clicking on the magnifying glass.

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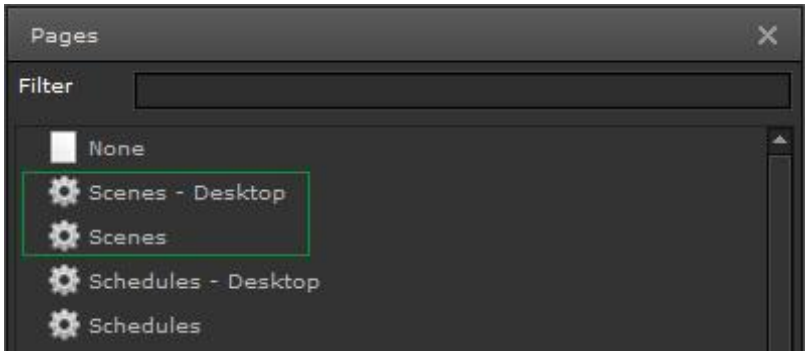
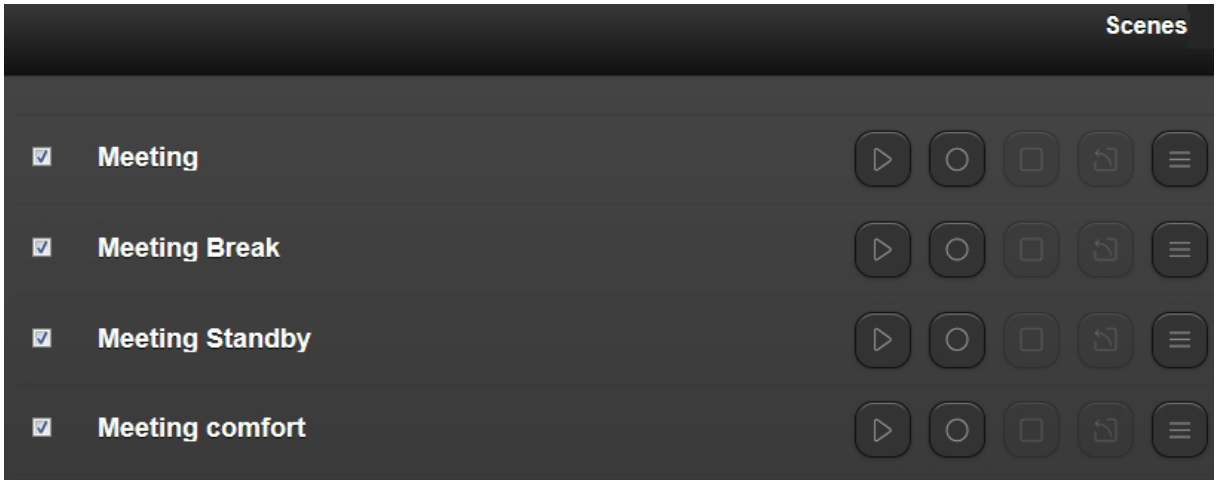
11.2.3 HTML display

The IP Control Center enables you to choose whether the scenes are shown in a visualization view for smartphones (Scenes) or in a visualization view for PCs (Scenes - Desktop). When the page is created in the editor, the page list is called under “Properties” with  . Here you can then select the required display type.



11.2.3.1 HTML display for the user: Scenes (smartphone)

When the configuration settings are complete, the user can make settings and changes on the visualization page. A linked link must be created in the visualization for access (see also chapter: 9.2 The page navigation concept) to display the current scenes on the visualization page. The schedules are listed in the HTML display.



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Active: Place a check to deactivate or activate this switch command.

Start scene at: Start of your scene.

Stop scene at: Stop the scene.

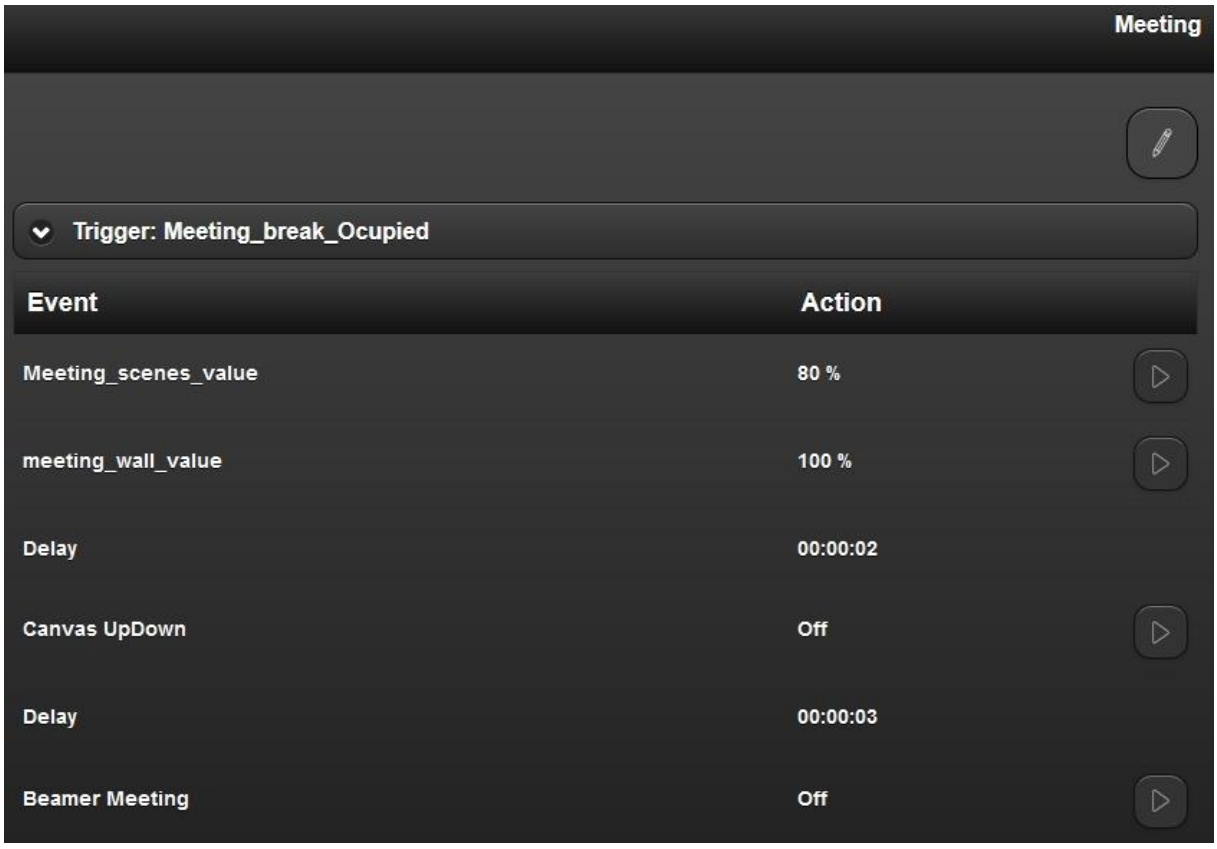
Record scene: Record a scene.

Restore scene at: Restore the scene.

Events: Opens a window for modifying the values.

Note: If no values are specified in the settings, the option is shown semi-transparent.

Use the button to navigate to the previous window. Use the button to navigate to the home view for scenes.



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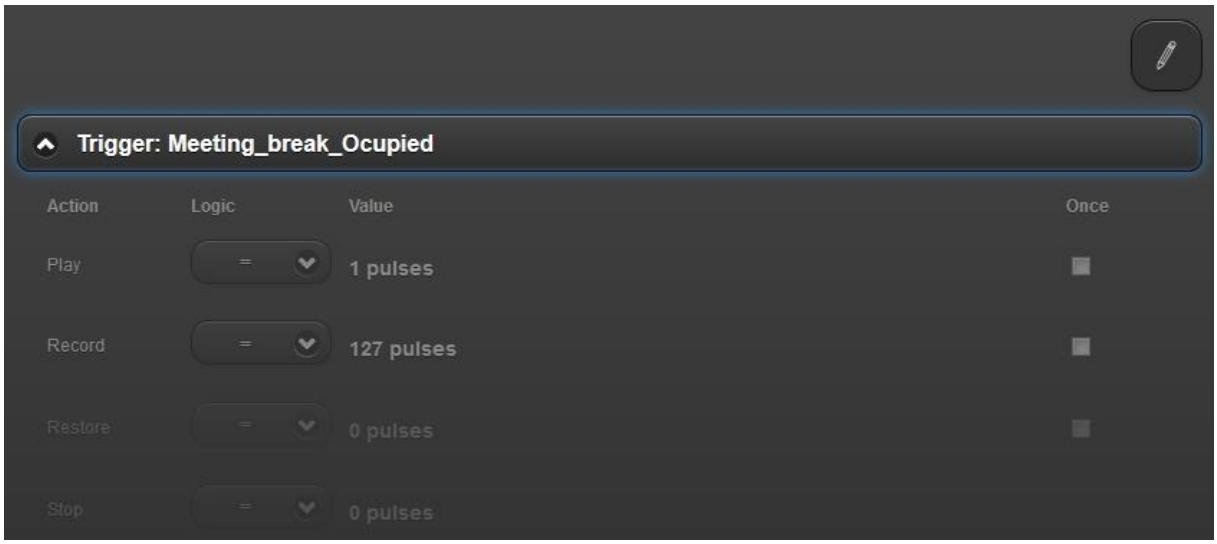
The values can be modified directly in this window.

The pen symbol expands the window so you can add further scenes or delete existing scenes.

Use the “Save” button to accept your changes. The editor must be closed for this purpose.



Play (start scene): Select the logical trigger conditions and number of trigger impulses that cause the scene to be started.

Record (record scene): Select the logical trigger conditions and number of trigger impulses that cause the scene to be recorded.

Restore (restore scene): Select the logical trigger conditions and number of trigger impulses that cause the scene to be restored.

Stop (stop scene at): Select the logical trigger conditions and number of trigger impulses that cause the scene to be stopped.

Once: The linked action is performed once. The scene is only started again when a new value is received.

Note: If no values are assigned, the option is shown semi-transparent.

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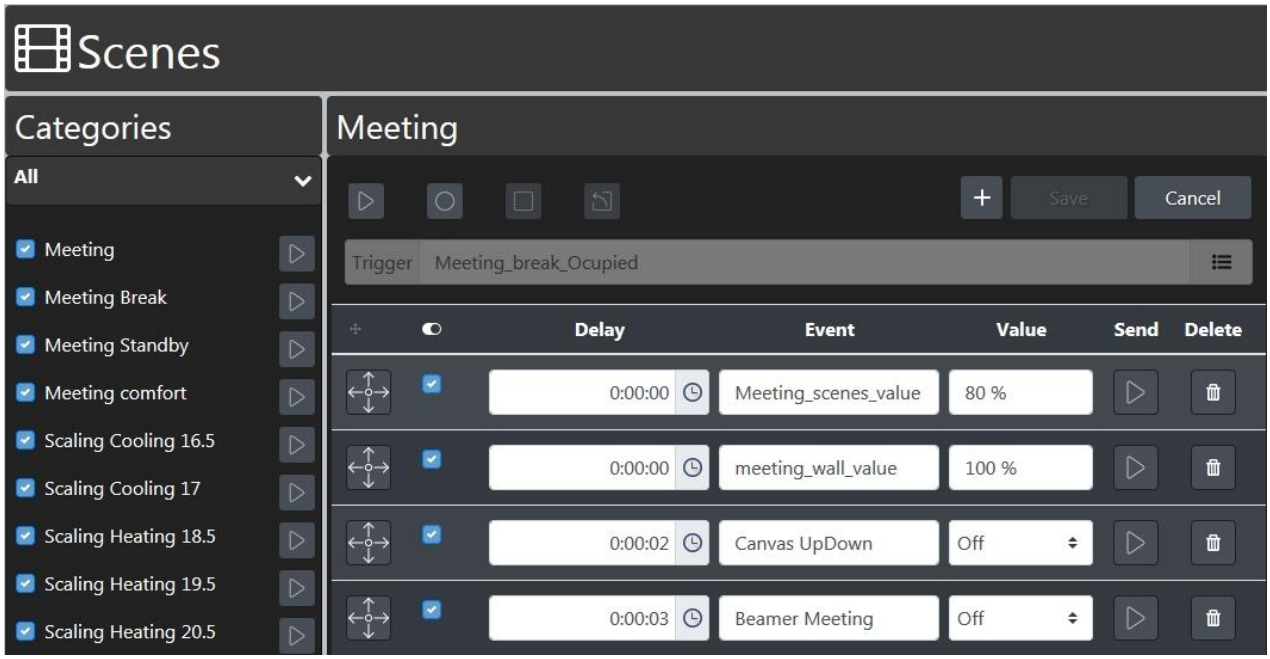
11.2.3.2 HTML display for the user: Scenes (desktop)

As with the display for smartphones, it is possible to make settings and changes in the desktop display on the visualization page.



Active: Place a check to deactivate or activate this switch command.

Start scene at: Start of your scene.

Stop scene at: Stop the scene.

Record scene: Record a scene.

Restore scene at: Restore the scene.

Move position: Click and hold the left mouse button to move the position in the list.

Delay: Delay time until the scene starts.

Event: Field for modifying the trigger event.

Value: Field for modifying the trigger value.

Sending: Sends the settings to the bus.

Delete: Use the recycle bin symbol to delete this entry.

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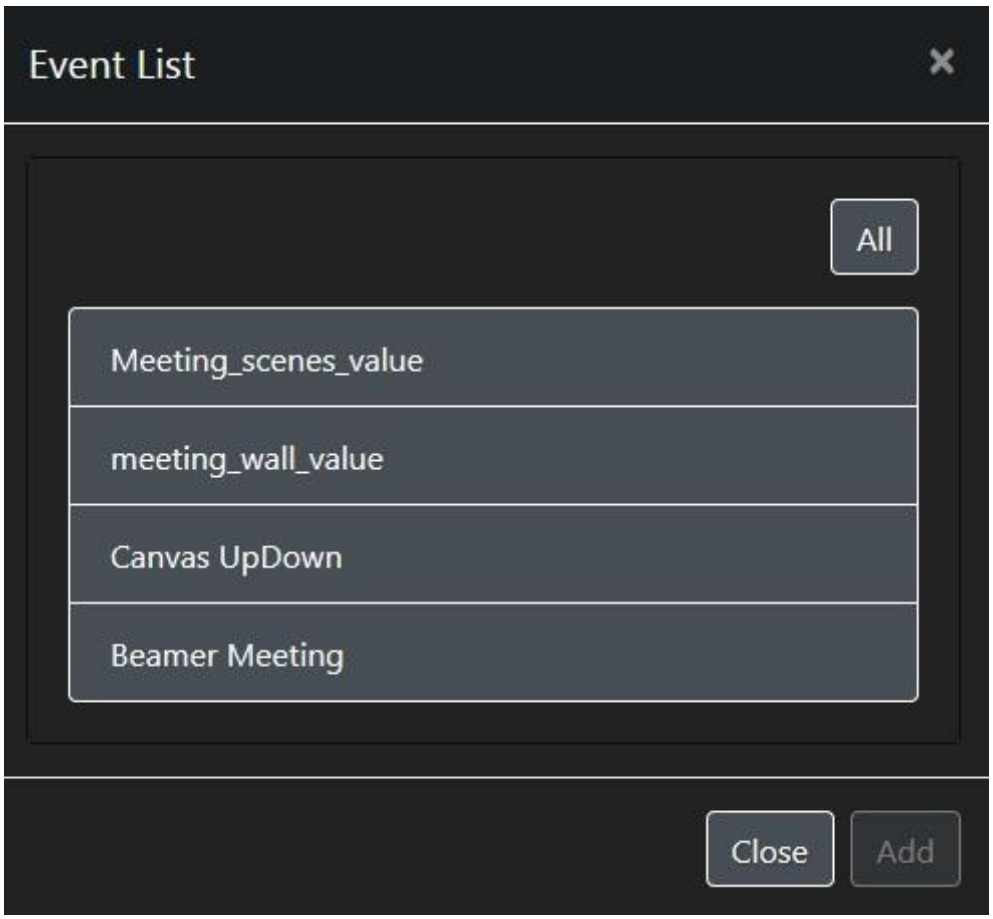
Use the “Save” button to accept your changes. The editor must be closed for this purpose.

Note: If no values are assigned, the option is shown semi-transparent.

The + symbol opens an additional window so you can add further scenes or delete existing scenes.



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11.3 Logic module

The powerful logic module of the IP Control Center offers additional comparators, mathematical operations, converters, staircase function, delay units and further logic grids in addition to the standard operators such as AND, OR, and INVERT, for example. The full-graphic interface makes configuration quick and easy even for complex logic functions.

Call the logic module in the web editor for configuration. The following figure shows the window of the logic editor.
The toolbar contains the following functions.

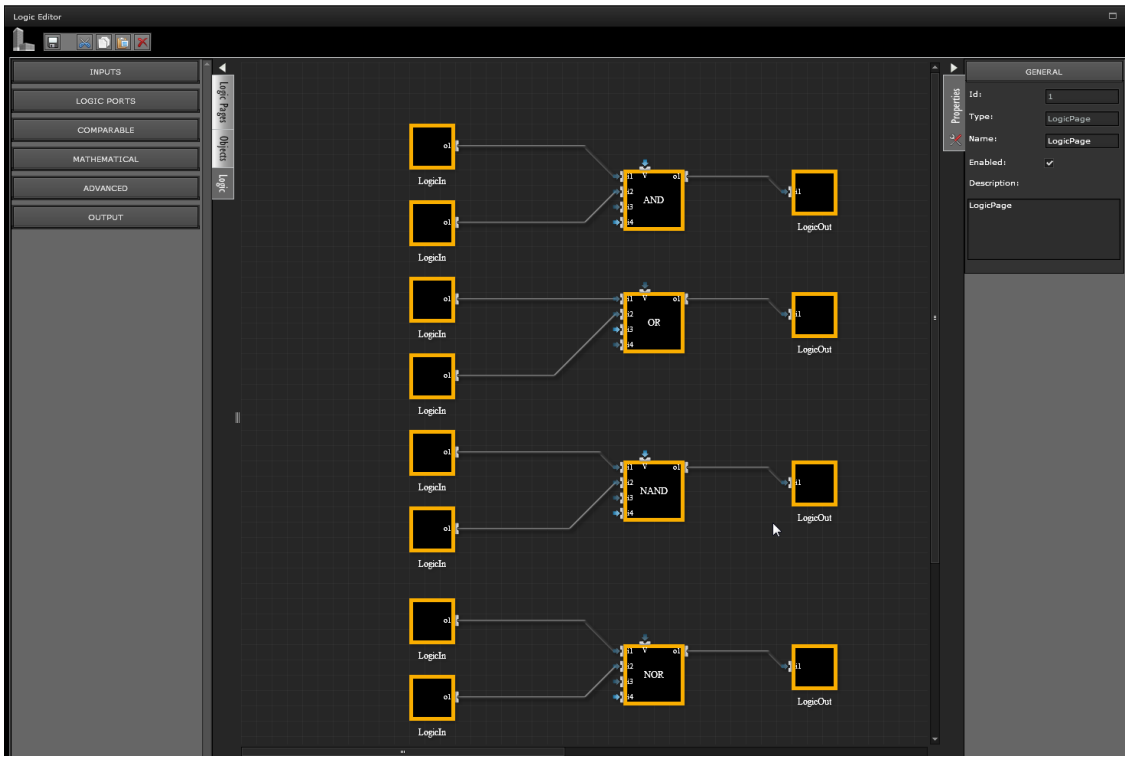
 Save the created logic plan.

 Paste a copy of a selected element.

 Cut a selected element.

 Copy a selected element.

 Delete a selected element.



On the left side, the logic plans can be organized in 40 different folders. Each of these containers then contains a group of functions, which can consist of up to 25 logic modules. This allows up to 1000 logic functions to be implemented.

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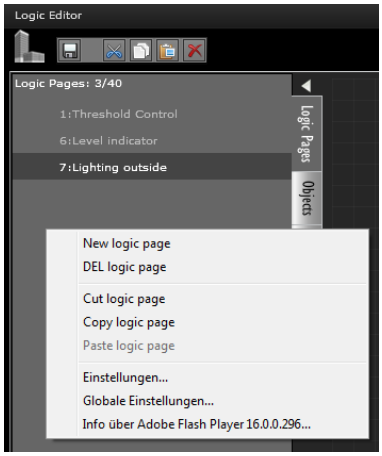
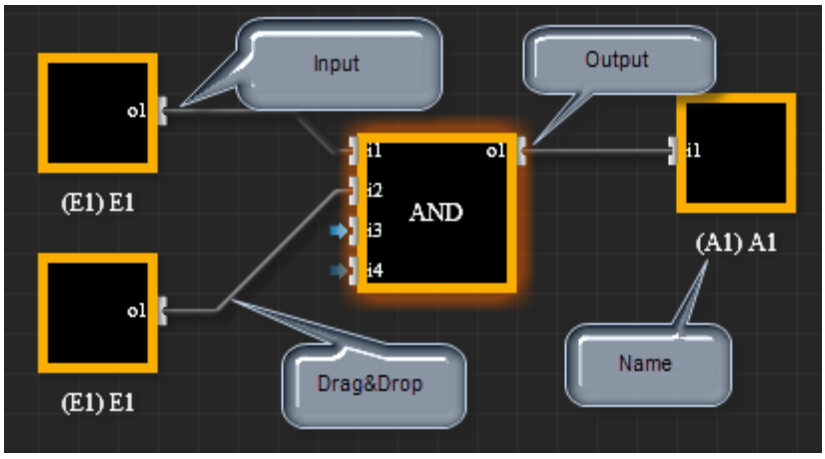


You can also copy entire logic pages. To do so, right-click the required logic page and select Copy logic page from the context menu. This mouse click also enables logic plans to be cut, pasted and deleted.

The central element of a logical function is a logic grid with inputs on the left and outputs on the right. These various elements are selected from the logic menus by mouse click and then moved to the logic plan via drag & drop. Inputs and outputs can be configured with the corresponding communication elements.

Once you have selected the connection of a logic module with your left mouse button, you can drag a connection to another connection. If contact is successful, the line color changes from gray to green. The list of configuration parameters appears on the right of the editor when an element is selected. The basic settings are identical for all existing logic functions.



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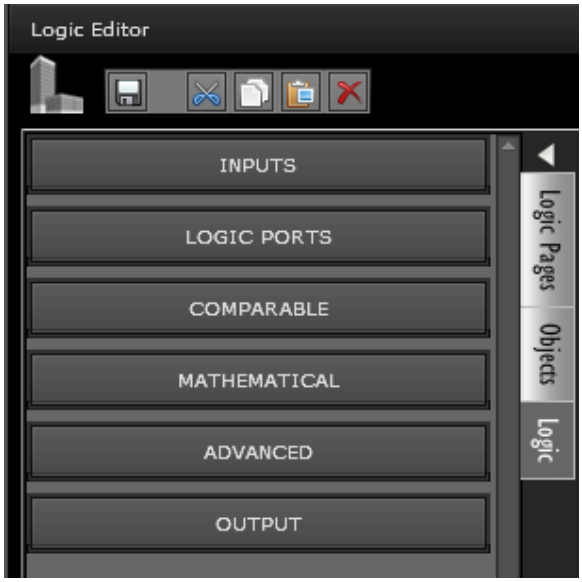
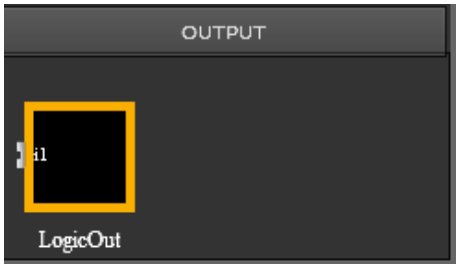
11.3.1 Logical inputs and outputs

The menu for logic modules is docked vertically on the left side of the logic plans. The “Logic” tab is used to select the logic module selection menu.



Select the logic inputs required for the function from the “Inputs” logic menu and position them on the logic plan to the left of the logic grid.



Select a logic output from the “Outputs” logic menu and position it on the logic plan to the right of the logic grid.

The properties of the selected element are docked vertically to the right side of the logic plan.

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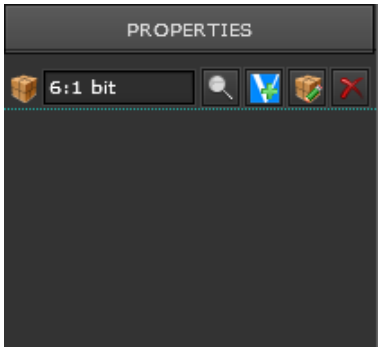
General:

The ID and the type are assigned automatically.

Name: The name is later adopted from the assigned object or the assigned group address.

Properties:

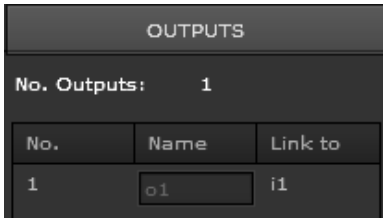


Communication objects or group addresses can be selected for inputs and outputs. These communication objects and group addresses can also be assigned via drag & drop. To do so, open the "Objects" tab, select the relevant communication object, virtual object or group address and drag it to the properties field. You can use all datapoint types apart from date and time.

The name of the assigned object or group address is simultaneously adopted as the name for the input and output elements.

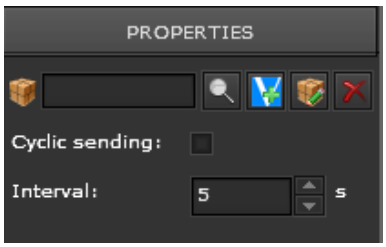
When the communication object or group address is replaced, the new name is adopted in the element.

Note: You can also assign the group address freely. This means you enter any known group address directly in the field, regardless of the group addresses output after an esf file import. The group address and its effect should be known from the ETS project. The corresponding datapoint type should be considered during the process.



Logical inputs have one internal output per module. The logical input module must be selected in order to configure the corresponding properties.

An input element has an internal output (o1) on the right, which is connected to the internal input (e.g. i1) of the logic grid. Logical outputs have one internal input per module. The logical output module must be selected in order to configure the corresponding properties.



Cyclical sending can be defined for the logical outputs. For this purpose, this property must be activated and the interval must be defined in seconds.

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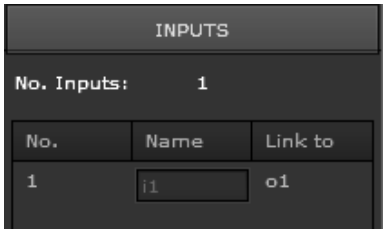

An output element has an internal input (i1) on the left, which is connected to the internal output (e.g. o1) of the logic grid.

Layout:

This is where position of the element is set.
Width: The width is fixed.
Height: The height is fixed.
X: Distance on left between element and logic plan edge.
Y: Distance on top between element and logic plan edge.

11.3.2 Logic grid

You can choose from four groups of logic grids: *Binary functions, comparators, mathematical functions and advanced functions.*

All logic grids can be activated or deactivated for each object or group address via a special activation input V. to this end, the corresponding input can be linked to an object or a group address. If the input is "1", this grid is executed. If the value at the input is "0", the grid is deactivated and no signal is processed.

Note: When you change activation input V from 0 to 1 (activate), the logic is executed directly. The activation input can be linked to various data types. The rule is: If the value = 0, the logic is deactivated. If the value is not 0 or not linked, the logic is executed.

The logic grids operate internally with double precision, both with positive and with negative values.

The following processing order applies:

- Datapoint type on the logical input is internally converted to Double.
- A possible inversion is executed.
- The calculation of the logic grid is executed.
- A possible inversion is executed on the output.
- Transfer of the internal value to the data type of the logical output, value range check and limitation if necessary.

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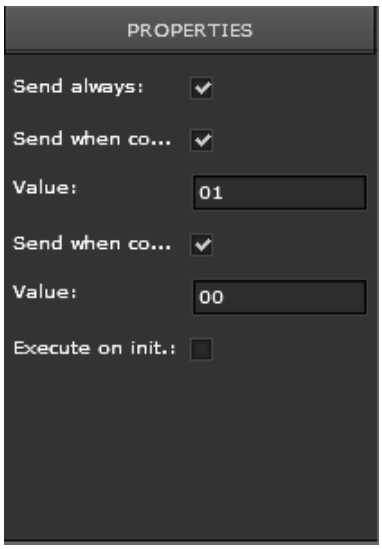
The logic grid must be selected in order to configure the properties. Properties:



Send always: Every time there is an event on the input, the trigger conditions are evaluated and the result is sent to the bus.

Send when co... (correct): The condition is correct.

Value: The value to be sent.

Send when co... (false): The condition is false.

Value: The value to be sent.

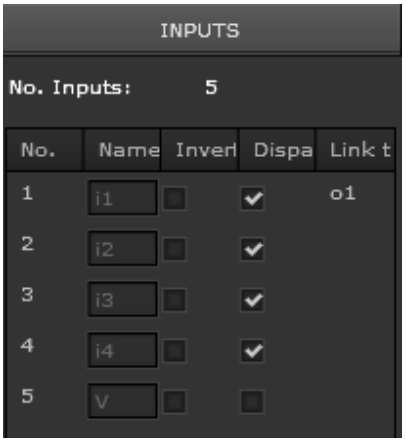
Execute on init.: After every download, reset or reboot of the device, the trigger condition is evaluated and the result is sent to the bus.

Note: The "Execute on init.:" option requires that the "Read object values from bus upon restart" was activated.

Note: If inputs have no value, this is an undefined state. In this case the trigger condition is not evaluated.

Note: You can also send analog values. This makes it possible to send, for example, a threshold value or a temperature value after logical evaluation.

Inputs:



You can configure the properties of the 4 possible inputs to a logic grid.

Name: The names i1 to i4 or V are fixed in the logic grid and cannot be modified.

Invert: The logic input can be inverted

Sending: Every received input value leads to an evaluation of the trigger condition

Link to: The logic input is linked to the relevant internal output (o1) of the input element

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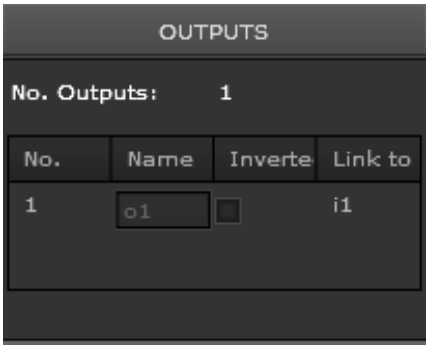
Outputs:



You can configure the properties of the internal output of a logic grid.
The following settings are available:

Name: The name o1 is fixed in the logic grid and cannot be modified.

Invert: The logic output can be inverted

Link to: The logic output is linked to the relevant internal input (o1) of the output element

Note: The following rules must be observed during inversion:

Binary values are inverted in binary form: 0 → 1, 1 → 0

Analog values are negated, e.g.: 5 → -5, -10 → 10

The assigned datapoint type is checked during the process. If, for example, the output of a grid calculates the value -5, but the datapoint type connected to the output has the "unsigned" type, the value is limited to the value range of the datapoint. In this case, the value sent is not the calculated value -5, but the limited value 0.

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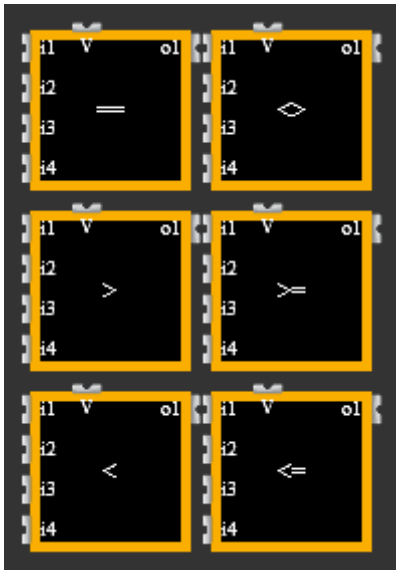
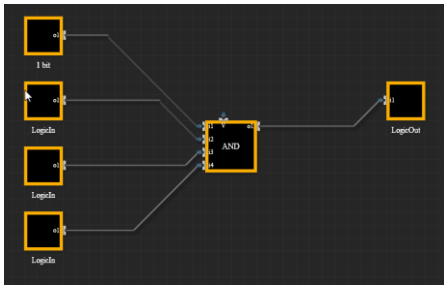
11.3.2.1 Logic Ports

The logic grids AND, OR, NAND, NOR, XOR, XNOR have 4 internal inputs and one internal output. The elements NOT and GATE have an internal input and an internal output. Configuration is only possible if the corresponding logic grid is selected.



AND:	E1 ^E2 ^ E3 ^ E4 = A1
OR:	E1 v E2 v E3 v E4 = A1
NAND:	E1 ^E2 ^ E3 ^ E4 = A1
NOR:	E1 v E2 v E3 v E4 = A1
XOR:	E1 ^E2 ^ E3 ^ E4 = A1
XNOR:	E1 v E2 v E3 v E4 = A1

Example of an AND logic grid with 4 inputs



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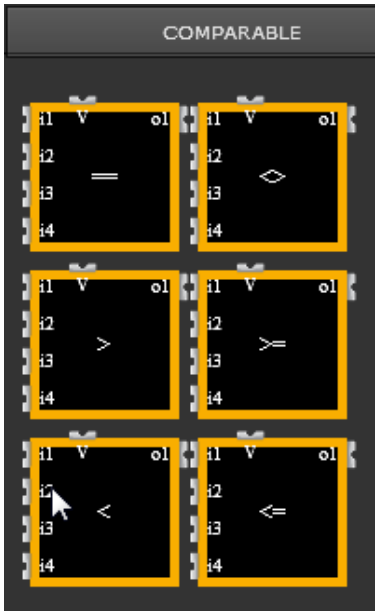
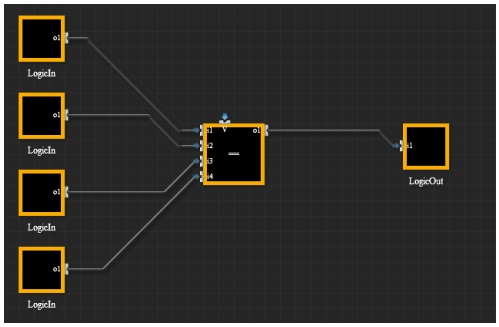
11.3.2.2 Comparator

These logic grids compare the values of inputs. All comparators have 4 internal inputs and one internal output. Configuration is only possible if the corresponding logic grid is selected. The following comparator functions can be called up on the “Comparable” tab:



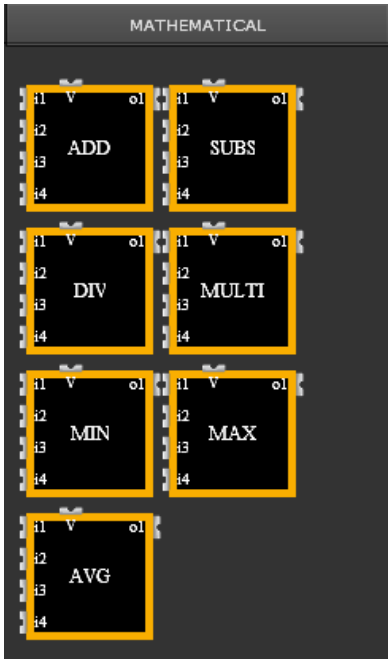
EQUALS	E1 = E2 = E3 = E4 = A1
SMALLER THAN	E1 < E2 < E3 < E4 = A1
LARGER THAN	E1 > E2 > E3 > E4 = A1
DOES NOT EQUAL	E1 <> E2 <> E3 <> E4 = A1
<=	E1 <= E2 <= E3 <= E4 = A1
>=	E1 >= E2 >= E3 >= E4 = A1

Example of a comparator operation with 4 inputs



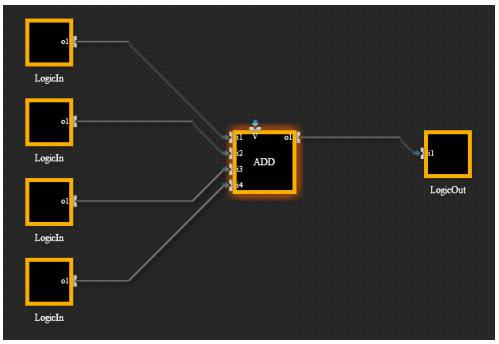
11.3.2.3 Mathematical functions

These logic grids conduct mathematical calculations based on the values at the 4 internal inputs. The inputs are linked to an operator and are sent to the bus as a value after the calculation. Configuration is only possible if the corresponding logic grid is selected. The following mathematical functions can be called up on the "Mathematical" tab:

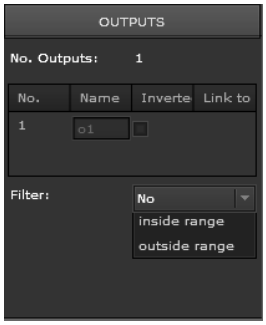


PLUS:	E1 + E2 + E3 + E4 = A1
MINUS:	E1 - E2 - E3 - E4 = A1
MUTLIPLIED:	E1 * E2 * E3 * E4 = A1
DIVIDED:	E1 / E2 / E3 / E4 = A1
MINIMUM	
MAXIMUM	
AVERAGE	

Example of an addition of 4 inputs.



For mathematical functions, it is possible to set a filter for the calculated output values.



You can define two range limits by means of two values.

If the calculation results do not match the filter condition, the value is not output.

Note: In all logic modules, the calculation is performed in a fixed sequence. The result from the calculation of I1 and I2 is used to calculate I3. This in turn is used as the basis for calculating the final result with I4. You must observe this principle to avoid errors during calculations with DIV, SUB, LARGER THAN, SMALLER THAN and AVERAGE.

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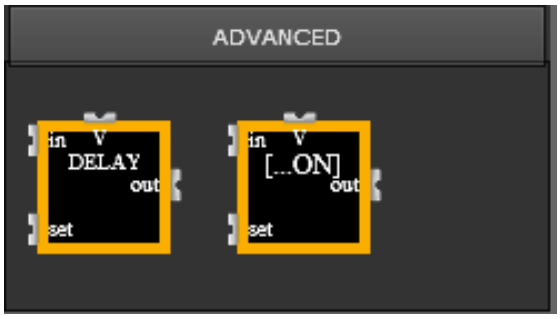
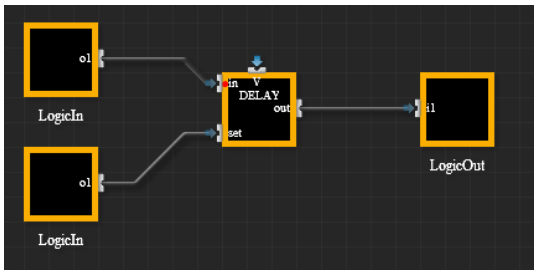
11.3.2.4 Advanced functions

This category contains time and delay elements. They have an internal input and an internal output. These elements also have a special SET input. This separate input can be used to set a delay time via a communication object or group address. Configuration is only possible if the corresponding logic grid is selected.

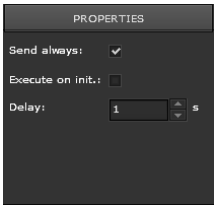


The following functions can be called up on the “Advanced” tab:

Delay function:



The value at the input [in] is output after a delay time at the output [out]. This delay time is defined in (S).



The configured delay time is overwritten with the value from a communication object or group address.

Note: This value is saved persistently so that this change is visible and active in the editor after a restart as well.

Note: All data types can be connected to the SET input. The following rules must be observed in the process:

Values < 0: these values are ignored Values > 4294944: these values are limited to 4294944.

Float values are always rounded down, e.g.: 24.8 → 24.

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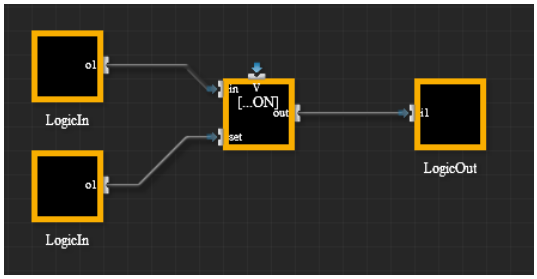
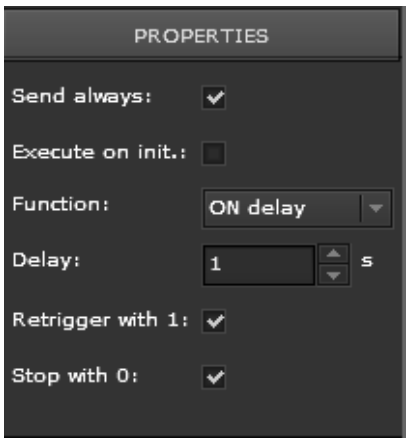
On / Off / Staircase function:



The value at the input [in] is output in different ways at the output [out].



The following functions can be selected:

- ON delay
- OFF delay
- Staircase function

On function: Selects ON delay

The value "1"at the internal input is transmitted to the internal output with the set delay.

Delay: This delay time is defined in seconds. The configured delay time is overwritten with the value from a communication object or group address.

Retrigger with 1:

enabled: If "1" is received again by the [in] input, the delay time is restarted.

disabled: If "1" is received again by the [in] input, the delay time is not restarted and the value "1" is sent to the output after the first delay time.

Stop with 0:

enabled: If a "0" is received by the [in] input, the delay can be stopped immediately and the event is not sent to the output.

disabled: If "0" is received by the [in] input, the value "1" is still sent to the output after the delay time.

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Off function: Selects Off delay

The value "0"at the internal input is transmitted to the internal output with the set delay.

Delay: This delay time is defined in seconds. The configured delay time is overwritten with the value from a communication object or group address.

Retrigger with 0:

enabled: If "0" is received again by the [in] input, the delay time is restarted.

disabled: If "0" is received again by the [in] input, the delay time is not restarted and the value "0" is sent to the output after the first delay time.

Stop with 1:

enabled: If a "1" is received by the [in] input, the delay can be stopped immediately and the event is not sent to the output.

disabled: If "1" is received by the [in] input, the value "1" is still sent to the output after the delay time.

Staircase function: Select Staircase

The value "1"at the internal input is transmitted to the internal output and reset to "0" after the set delay time.

Delay: This delay time is defined in seconds.

The configured delay time is overwritten with the value from a communication object or group address.

Retrigger with 1:

enabled: If "1" is received again by the [in] input, the delay time is restarted and the internal output is thus reset only later.

disabled: If "1" is received again by the [in] input, the delay time is not restarted and the value "0" is sent to the output after the first delay time. This function can only be enabled again after this time.

Stop with 0:

enabled: If a "0" is received by the [in] input, the delay can be stopped immediately and the value "0" is sent directly to the output.

disabled: If "0" is received by the [in] input, the value "0" is still sent to the output after the delay time.

Note: The value for the delay time is saved persistently so that this change is visible and active in the editor after a restart as well.

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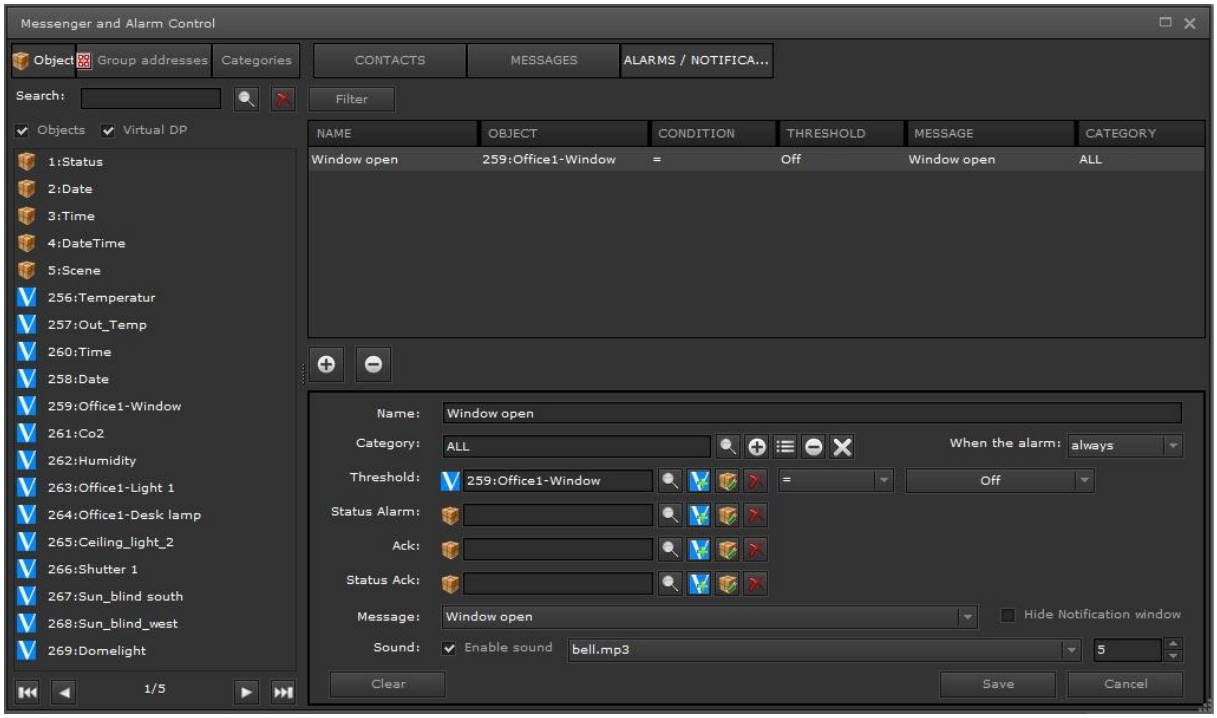
11.4 Messenger and Alarm Control

The Messenger and Alarm Control: of the IP Control Center offers 250 different alarms, the output of 250 messages, and the creation of 20 contacts with 2 emails assigned to each contact. An alarm is connected to the communication object that is started by a specified value. The module records all current alarm statuses and displays them in detail. This can be done by opening a window within the visualization page and/or by sending messages to preset email addresses. It is also possible to send messages via email without their being accompanied by a complete alarm behavior. The recorded alarm history, the recorded data from the Chart or Monitoring Module, can be attached to these emails.

To configure the Messenger and Alarm Control, open it on the “Module” tab in the editor.



To configure the Messenger and Alarm Control, you have to make three settings.

Contacts: A list of contacts that are notified in the event of an alarm, or that only receive a notification.

Messages: Definition of the message texts and assignment of email addresses with the relevant message text. Selects the data attachment.

Alarms / Notification: List of the conditions for triggering an alarm or sending an email.

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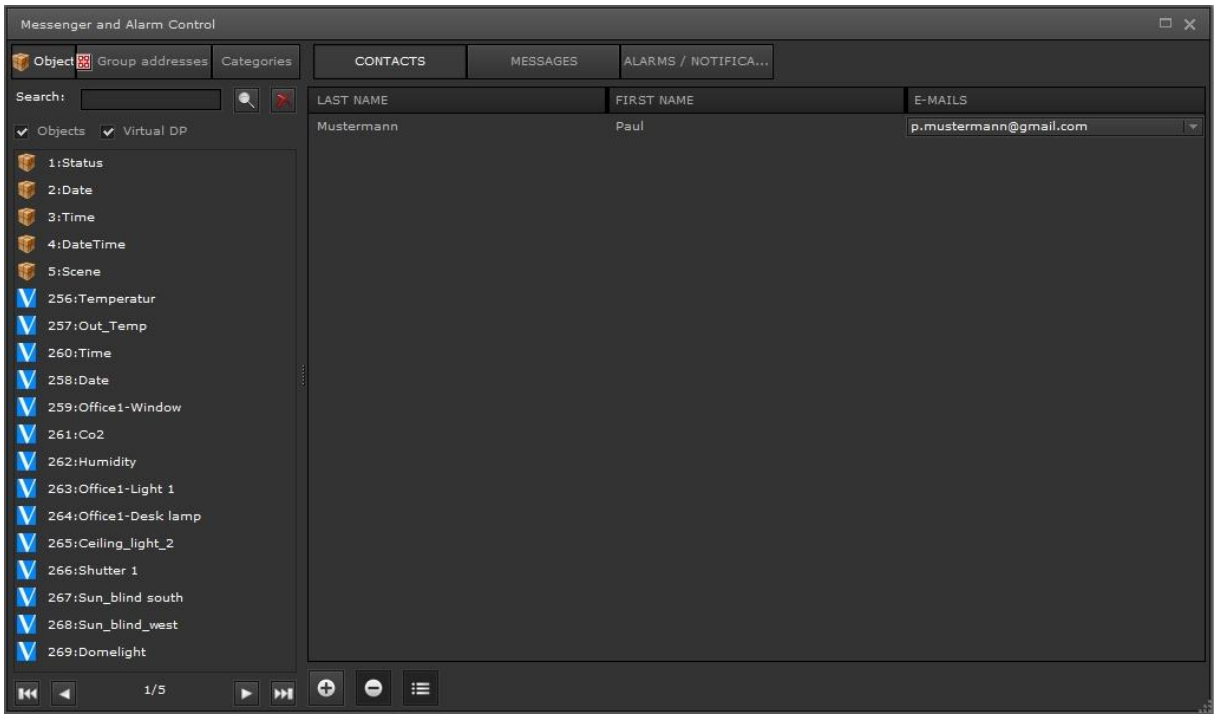
11.4.1 Contacts



The list of contacts can contain no more than 20 addresses with two notification texts each. The Add button opens a window where the last name (mandatory) and the first name of the contact address is assigned. This information must be saved before the email address is entered.

After a mouse click on the Edit button, a further window appears where the new email address is entered. Use the Add button to create the email address.

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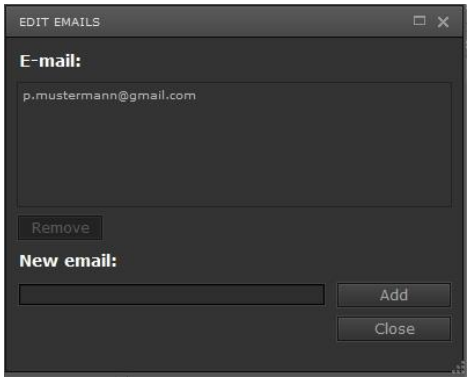
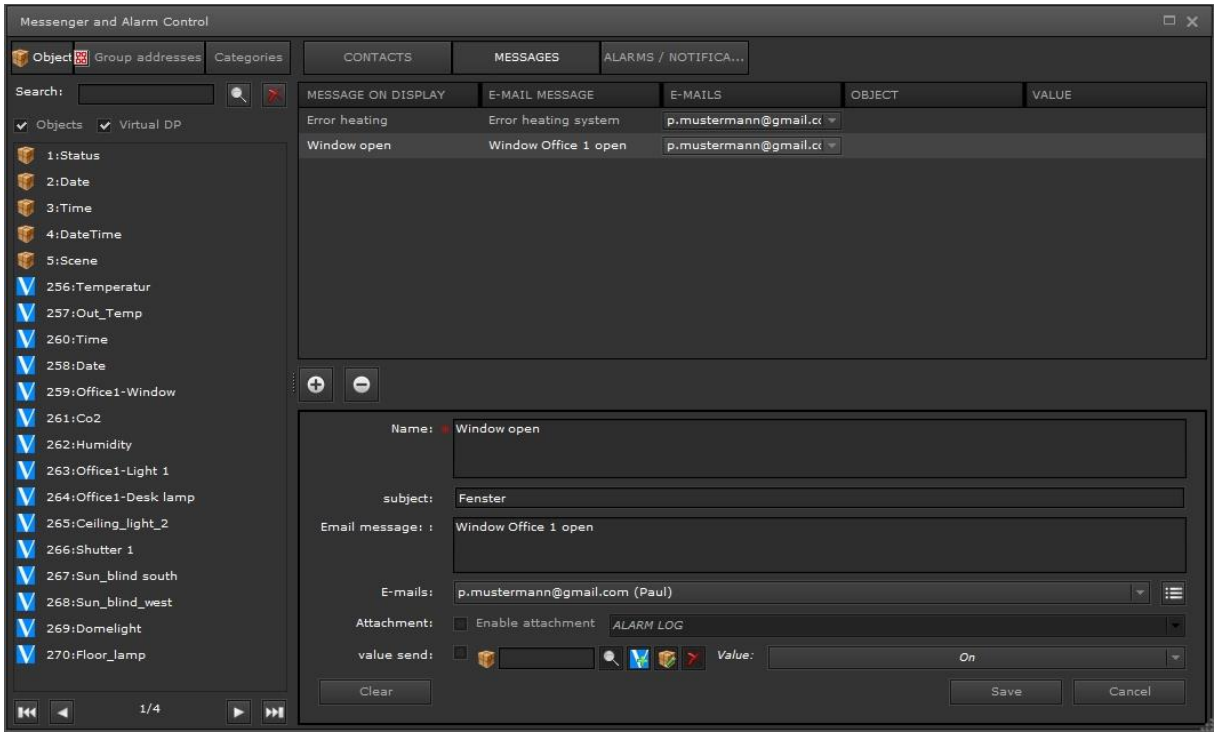
These contacts are later used for alarm management and for notification of the assigned persons.



11.4.2 Messages

This area is used to create the messages required for the project. The created parameters are displayed as lines as the following example shows:



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The middle area of the window contains the Add button. Pressing it opens a new window where a message can be created. Double-click the alarm line to edit it. The Remove button allows you to delete an existing alarm. The lower part of the window is used to display the fields for creating a new message or for editing messages.

Object place holder
Value place holder
Condition place holder
Threshold place holder

Name: Name of the alarm message.

Subject: The subject of the message appears in the email subject line.

Email message: The notification text sent with the email. You can also enter placeholders in this field for the object name, the object value, the condition or the threshold value. Right-click in the window to call up this selection. In the email, these placeholders correspond to the current object value triggering the alarm, along with the alarm condition and the alarm threshold. These placeholders should be incorporated meaningfully in an explanatory description text.

E-mails: Select or edit the email recipient.

Attachment: If this option is enabled, an attachment can be sent with the email. The following data can be selected for attachment: *Alarm log, data log, chart log*. These data are sent as an xml file and can later be processed in a spreadsheet.

value send: Allows a value to be sent to the linked communication object or group address.

Value: The value sent to the bus.

Entries must be saved after editing. The Delete button resets all inputs. Click Cancel to close the window without saving the inputs.

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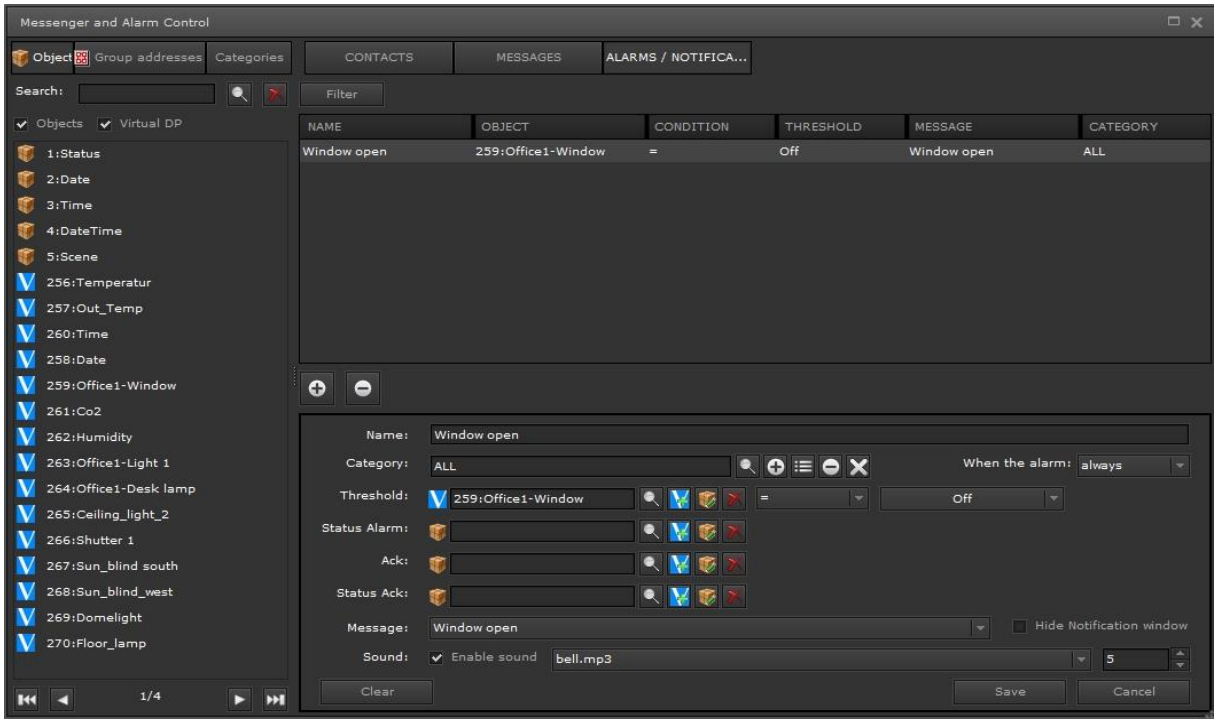
11.4.3 Alarm / Notification

The alarm window is used to configure the alarm condition as well as the connection to a previously defined message. Different attachments can be defined within the message:

- Alarm log
- Data log
- Chart log



The trigger condition for an alarm or a notification

Name: Name of the alarm or notification.

Categories: The category to which the alarm is assigned. Dividing alarms into categories makes them easier to manage. Categories can be created and deleted using the +/- buttons. Use the Edit button to change categories you have already created.

When the alarm: If you choose “always”, the alarm is triggered every time the trigger value is reached. If you choose “once”, it is triggered only once.

Threshold: Here the object or group address is defined, as well as the reference criterion and the threshold value.

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Status Alarm: Here you can define an object to send the alarm status.

Ack: Can be used to acknowledge an alarm via an external object or a group address.

Status Ack: Here you can define an object to send the acknowledgement status. This allows an external buzzer, for example, to be controlled with a group address in order to report an alarm that has not been acknowledged.

Message: Select the notification text already created on the Messages tab.

Hide Notification window: If this option is enabled, the notification does not lead to an alarm with an entry in the alarms list. A notification is simply sent via email, without alarm behavior. Please note that it is still possible to set and evaluate the objects for the alarm status and the acknowledgement.

Sound: Enabling this option sets an acoustic signal. If the conditions is met, a sound file sounds. The sound file bell.mp3 is played by default. This parameter is only effective if the Hide Notification window setting is disabled (alarm behavior).

Sound repetitions: This selection is used to set the number of sound repetitions. 0 means endless repetition. When the alarm is acknowledged the sound is shut off. This parameter is only effective if the Hide Notification window setting is disabled (alarm behavior).

Entries must be saved after editing. The “Delete” button resets all inputs. Click Cancel to close the window without saving the inputs. The data are sent in the form of xml files that can be called up directly in a spreadsheet. To prevent this notification from leading to an alarm, the alarm function can be switched off.

Note: The communication object where the threshold is specified supports only the following DTP:

DPT_1_0XX:	// 1-bit Boolean 1 o 0	
DPT_5_001:	// 8-Bit Unsigned Value	// DPT_Scaling
DPT_5_010:	// 8-Bit Unsigned Value	// DPT_Value_1_Ucount
DPT_7_001:	// 2-Octet Unsigned Value	// DPT_Value_2_Ucount
DPT_8_001:	// 2-Octet Signed Value	// DPT_Value_2_Count
DPT_9_0XX:	// 2-Octet Float Value	
DPT_12_001:	// 4 -Octet Unsigned Value	// DPT_Value_4_Ucount
DPT_13_001:	// 4-Octet Signed Value	// DPT_Value_4_Count
DPT_14_0XX:	// 4-Octet Float Value	

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11.4.4 Email SMTP server configuration

All the emails defined in the alarm module can only be sent if a previously valid SMTP was configured. For this purpose, choose the SMTP category on the configuration page of the IP Control Center, (https://<ip>/config.php). All provider-specific data are subsequently entered in the input window. See also chapter: 7.3 SMTP.

Host IP: Name of the outgoing email server (e.g. smtp@gmx.de).

Port: Port of the SMTP server (e.g. 587).

From Email: Sender of the email.

SMTP Authentication: If the SMTP server requires authentication, this option must be activated. A new window appears where the user name and the password are entered. For authentication, you can choose between none/SSL or TTLS.

Note: To test the configurations for the SMTP service and thereby check the error-free sending of an email, you can press the Test button. This causes a test email to be sent directly to the sender.

11.4.5 HTML display for the user: Alarm

Alarms are managed from a web user interface. This makes it easier to manage even complex alarm settings. Access is via an assigned link in the visualization or via a pop-up window (notification window) on the open visualization page when an alarm was triggered. See also chapter: 9.2 The page navigation concept.

Note: If the browser supports notification, the alarm is even displayed when the browser window is minimized. For this purpose, a query is performed when an alarm first occurs, asking whether notifications should be displayed for this website. However, you can also configure this later on, e.g. in Chrome the setting is: https://support.google.com/chrome/answer/3220216?hl=en.

Note: If the browser supports "Notification", the alarm is even displayed when the browser window is minimized. This configuration must be performed in the relevant browser.

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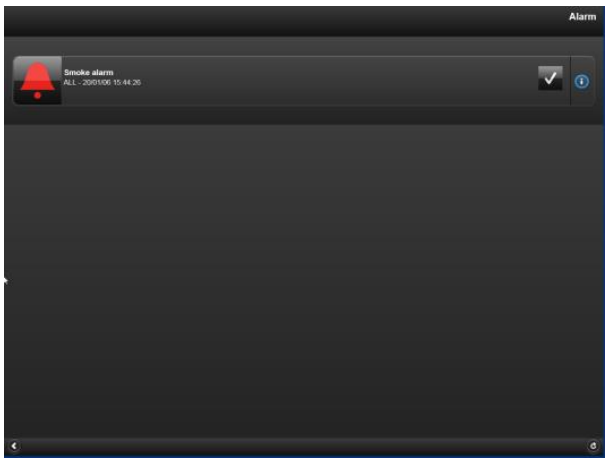
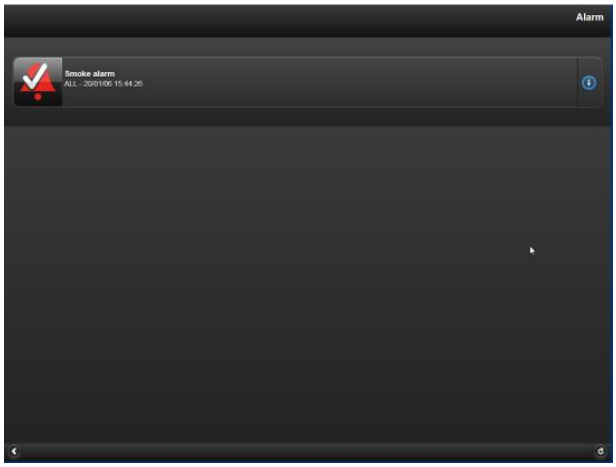
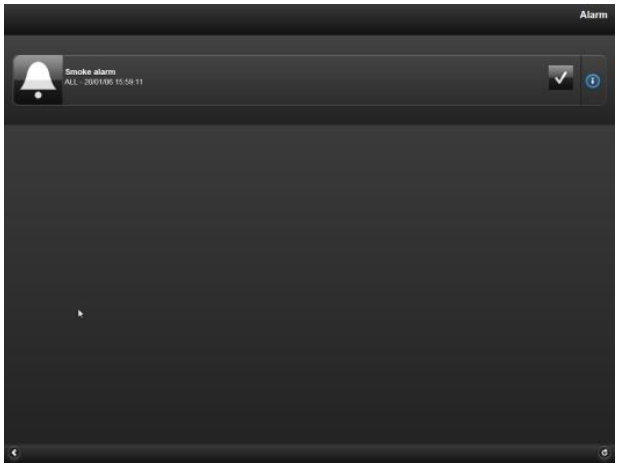
Click the cross on the top right to close the pop-up window. Click the pop-u window to call up the alarm page.



The alarm acknowledgement is displayed symbolically on the left. However, the alarm is still active.



If the alarm is no longer active but has not been acknowledged, this is indicated by a white icon.



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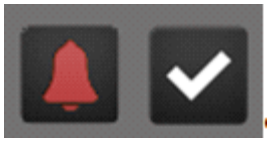
If the alarm was acknowledged and is no longer active, it is deleted from the alarm page. Use the Info button on the right of the alarm bar to view more detailed alarm information. The following information is displayed:

Categories: The category assigned to the alarm.
Status: The assigned name of the alarm.
Date/time: Date/time when the alarm was triggered.
Threshold: The preset threshold value for triggering the alarm.
Triggers: The current value content.

Status messages available for every alarm:



Alarm is active and awaiting acknowledgement.

Alarm is active and has been acknowledged.

If the alarm is no longer active and has been acknowledged. The next time the alarm page is called up, this completed status is no longer displayed.

The alarm is no longer active and is awaiting acknowledgement. If the pop-up window is not opened in the event of an alarm, a message is displayed to the user.

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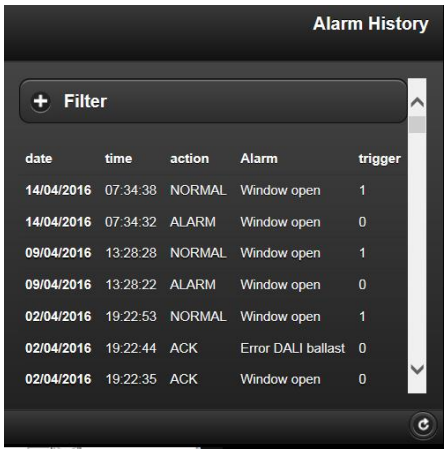
11.4.6 HTML display for the user: Alarm History

All registered alarms are recorded in a log file. This file can be displayed on the web user interface or sent as an email attachment. See also chapter: 9.2 The page navigation concept. The following information is displayed:



date / time: Date / time of the alarm event.
action: The change between alarm statuses:

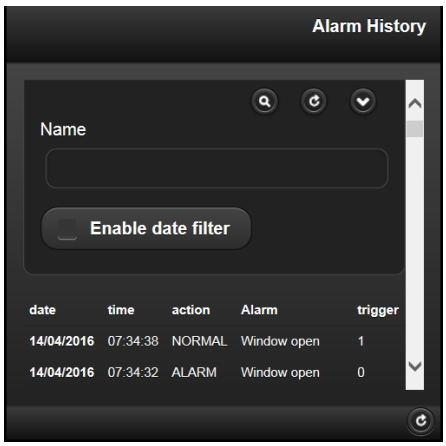
- NORMAL: The status is back to normal.
- ALARM: The alarm has been triggered.
- ACK: The alarm has been acknowledged.

Alarm: The name assigned to the alarm.
Triggers: The value at the moment when the status changed to another status.

Note: The alarm history is not saved persistently and is therefore empty when the device is restarted. If the device is restarted, e.g. after an ETS download or after a firmware update, the alarm history is saved and is not lost.

A filter function is available in the alarm history. It is started via the upper Filter button. Two filter criteria can be configured:

- Filter by alarm name
- Filter by date and time



You can enter a search term in the Name field. Use the Enable date filter button to display the configuration for a date and time range.

Use the  button to search the alarms for the search term.

Use the  button to refresh the page.

Use the  button to export the selected alarm data as an xml file.
The file alarm_log.xml can be displayed directly in the browser or linked to a spreadsheet.

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```
<?xml version="1.0"?>
- <alarm_log>
    <alarm Trigger="0" Name="Smoke alarm" Action="NORMAL" Time="11:12:48" Date="01/02/2016"/>
    <alarm Trigger="1" Name="Smoke alarm" Action="ACK" Time="11:12:39" Date="01/02/2016"/>
    <alarm Trigger="1" Name="Smoke alarm" Action="ALARM" Time="11:12:30" Date="01/02/2016"/>
    <alarm Trigger="0" Name="Smoke alarm" Action="NORMAL" Time="10:32:44" Date="28/01/2016"/>
    <alarm Trigger="1" Name="Smoke alarm" Action="ALARM" Time="10:32:40" Date="28/01/2016"/>
    <alarm Trigger="0" Name="Smoke alarm" Action="NORMAL" Time="10:20:58" Date="28/01/2016"/>
    <alarm Trigger="1" Name="Smoke alarm" Action="ALARM" Time="10:20:54" Date="28/01/2016"/>
    <alarm Trigger="0" Name="Smoke alarm" Action="NORMAL" Time="10:15:53" Date="28/01/2016"/>
    <alarm Trigger="1" Name="Smoke alarm" Action="ALARM" Time="10:15:48" Date="28/01/2016"/>
    <alarm Trigger="0" Name="Smoke alarm" Action="ACK" Time="10:14:56" Date="28/01/2016"/>
    <alarm Trigger="0" Name="Smoke alarm" Action="NORMAL" Time="10:14:52" Date="28/01/2016"/>
    <alarm Trigger="1" Name="Smoke alarm" Action="ALARM" Time="10:14:48" Date="28/01/2016"/>
    <alarm Trigger="0" Name="Smoke alarm" Action="NORMAL" Time="10:14:38" Date="28/01/2016"/>
    <alarm Trigger="1" Name="Smoke alarm" Action="ACK" Time="10:14:36" Date="28/01/2016"/>
    <alarm Trigger="1" Name="Smoke alarm" Action="ALARM" Time="10:14:10" Date="28/01/2016"/>
  </alarm_log>
```

Note: For the alarm to be signaled correctly with the current time/date stamp, it is necessary to set the current date and current time, see also chapter: 6.3 Setting the date and time. This requires receiving the current date and time via the KNX bus (IP Control Center as slave) or adopting the current date and time from a time server (IP Control Center as master). If the values for date and time are not correct, incorrect alarm events will be output. If, for example, a date value from 2006 is set, e.g. after a power failure, the alarms are not saved in the alarm history.

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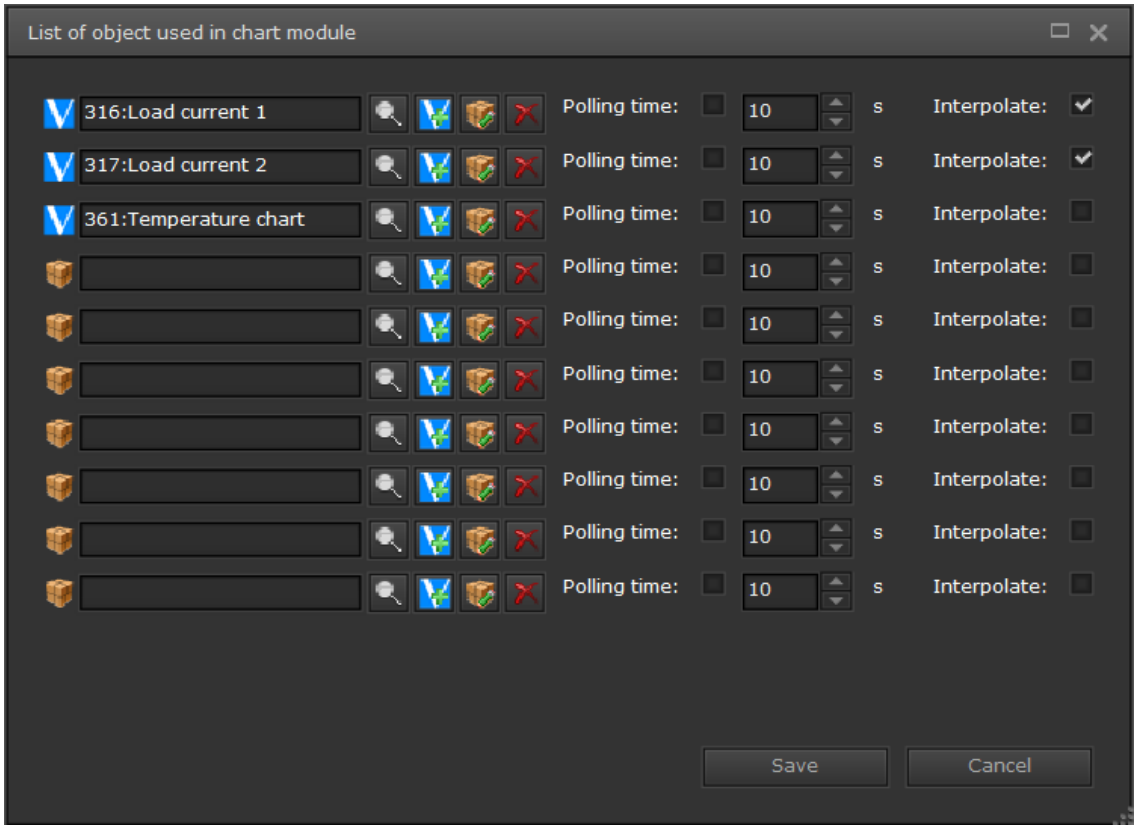
11.5 Chart Module

Chart module for recording up to 10 datapoints and displaying curve and bar charts. It can be used to visualize trends in consumption values or weather data, for example. The chart module is used to select the datapoints, communication objects, virtual objects or group addresses to be recorded, and to configure them for recording.

11.5.1 Datapoint configuration



The following settings are possible:

Polling time: If this setting is activated, the relevant datapoint is polled cyclically. A read request is sent to the KNX bus in the process. The polling time in seconds is also defined. These data are recorded, and the average, maximum and minimum values are calculated and saved every minute. If no value is received by the KNX bus within a minute, the temporarily missing values can be interpolated. After an hour, hourly average value, the hourly maximum value and the hourly minimum value calculated and saved.

Interpolate: With this setting, missing data are interpolated.

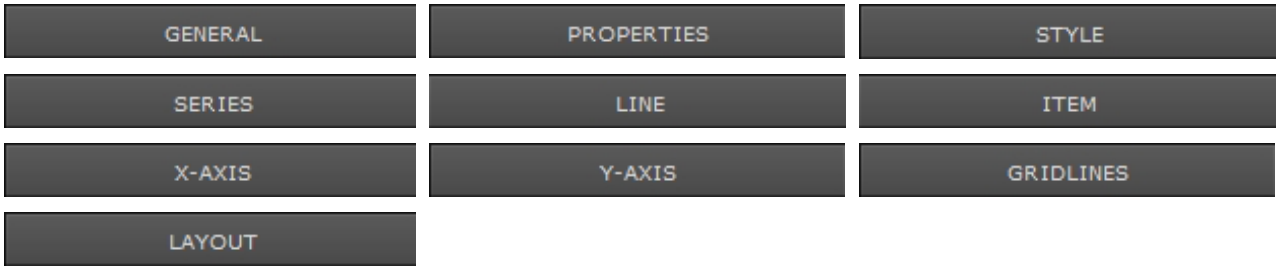
Use the “Save” button to record the configured datapoints.

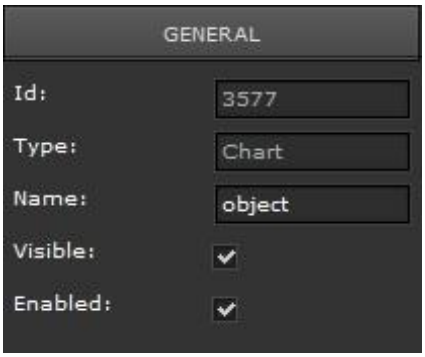
11.5.2 Displaying datapoints

The datapoint display is configured using the HTML-Chart element. This element is used to display recorded values in curve or bar charts. See chapter: 11.5.3 HTML display for the user: Chart. The HTML-Chart element is a display and control element in the “Advanced elements” category.

11.5.2.1 Configuration element

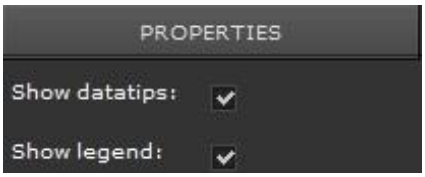
After this basic configuration, the element can be positioned on a website and its display can be defined in detail.
The following tabs are available:





In the “General” area, the datapoint to be used for the recording is defined.

ID: Display of the internal ID number.
Type: Display of the element property.
Name: Designation of the control element.
Visible: Displays the element in the visualization.
Active: Enables the switching functions. If disabled, only the status information is displayed.



Under properties, you can select to display tool tips as well as the legend (chart label).

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The chart tile and general layout options are found in the "Style" area.

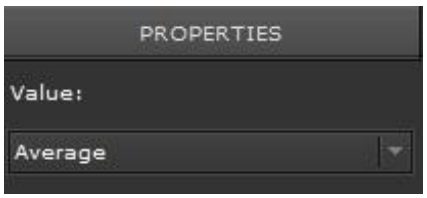
Font:
- *Font:* All installed fonts are available.
- *Font size:* Font size in points, from 8 to 127.
- *Font color:* Can be chosen from a color panel with 216 colors (HTML).
- *Mark-up*: Bold, italic or underlined.
- *Alignment*: Left, center or right.

Background:
- *Background color:* Select the color of the font background.
- *Transparent:* Select the transparency.
- *Arrangement:* Select the layer (z-axis).

In the display type you can choose between a curve chart and a bar chart.

 Bar chart

 Curve chart



It is possible to delete entries or put them in the foreground or background. Click the relevant entry to display further parameters. The "Properties" tab is used to define the calculation mode for the display value.

The following calculation modes are available:

- Average
- Maximum
- Minimum
- Delta of the average values
- Delta of the maximum values
- Pos. delta of the average values
- Pos. delta of the maximum values

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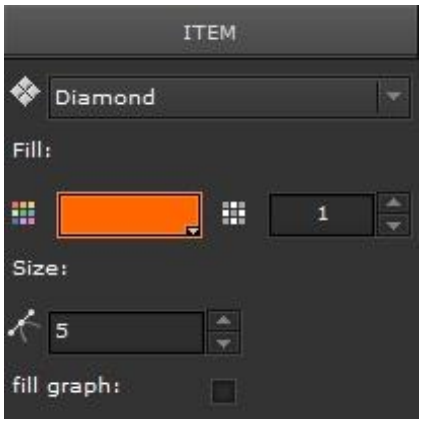
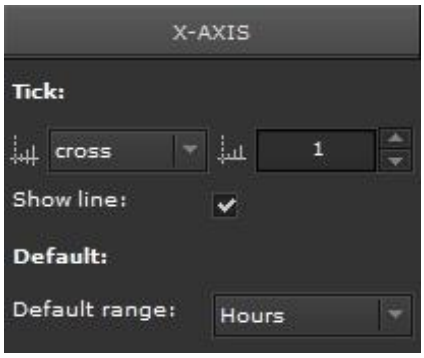
If you select bar chart, you can set the fill color and transparency in the "Column" area. The default value for transparency is 1 (no transparency).

If you select line chart, you can set the fill color and transparency in the "Line" area, but also the line thickness (px) and the display (curve/segment).

The shape, fill color, transparency and size can be varied in the "Item" area. The default value for transparency is 1 (no transparency). The available shapes are:



- Box
- Circle
- Cross
- Diamond



The "X and Y-Axes" area can be used to define the form of the x-axis and the y-axis. What is important is the definition of the default time range.

Display of ticks

Type of scale: The display options are inside, outside, both, or not shown.

Length of scale: The length of the scale for value points in pixels (0-20).

Default:

Show line: Display the x-axis base line.

Range: Set the displayed time range.

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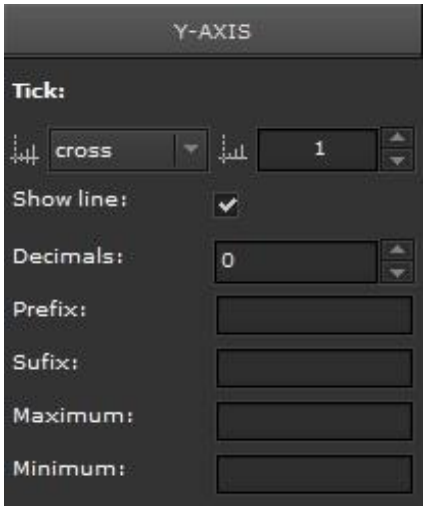
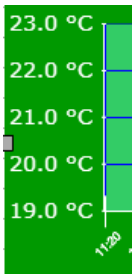


Next to the basic information (see x-axis), axis-specific settings are displayed. The values on the axes can be displayed with and without decimals. By entering a prefix and a suffix, it is possible to enter units on the y-axis. The y-axis can also be scaled manually be defining the maximum or the minimum. If no information is entered here, scaling is automatic.



In this area it is possible to display a grid and define its form. The direction of the gridlines can be defined as a normal grid (x and y-axis), only horizontal (y-axis) or only vertical (x-axis). Display properties such as grid color, transparency, fill color and line thickness can also be defined.

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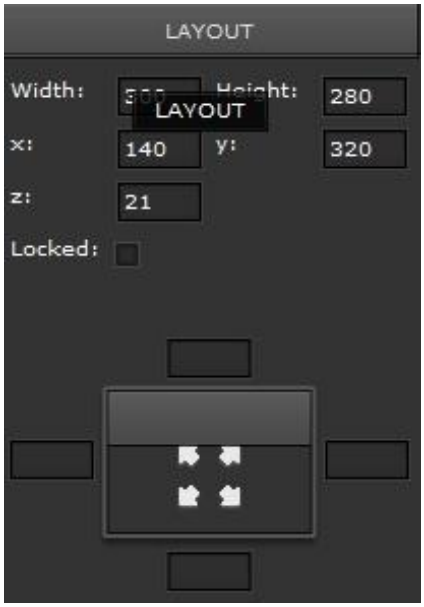


In the "Layout" area, it is possible to preset the size and position of an element.

Width: The page width is defined here.

Height: The page height is defined here.

X: Distance on left of element.

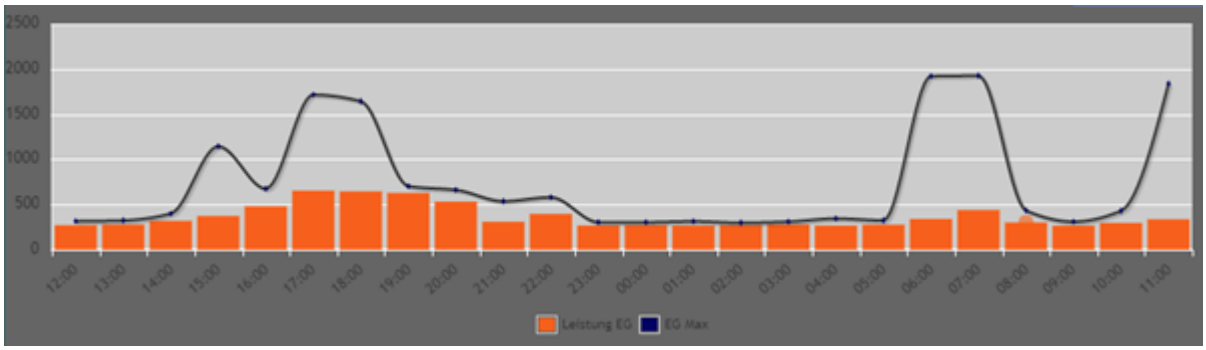
Y: Distance on top of element.

Z: The z-index changes the order of layers positioned on top of each other (foreground/background).

Locked: If selected, this locks the default position of the element, which can then no longer be moved with the editor.

Coordinates window: The distances (position) from the left/ right and top/bottom page edges where the window contents can be anchored.

The delta calculation calculates the difference between the current value and the previous value. This can be very interesting when displaying power consumption, for example. The difference in an energy counter would, for example, display the consumption per hour.



This makes it possible to create a day profile. The following delta values underlie the respective time ranges:

Time range	Delta	Number of values
1 hour	1 minute	60
3 hours	5 minutes	36
6 hours	10 minutes	36
12 hours	15 minutes	48
1 day	60 minutes	24

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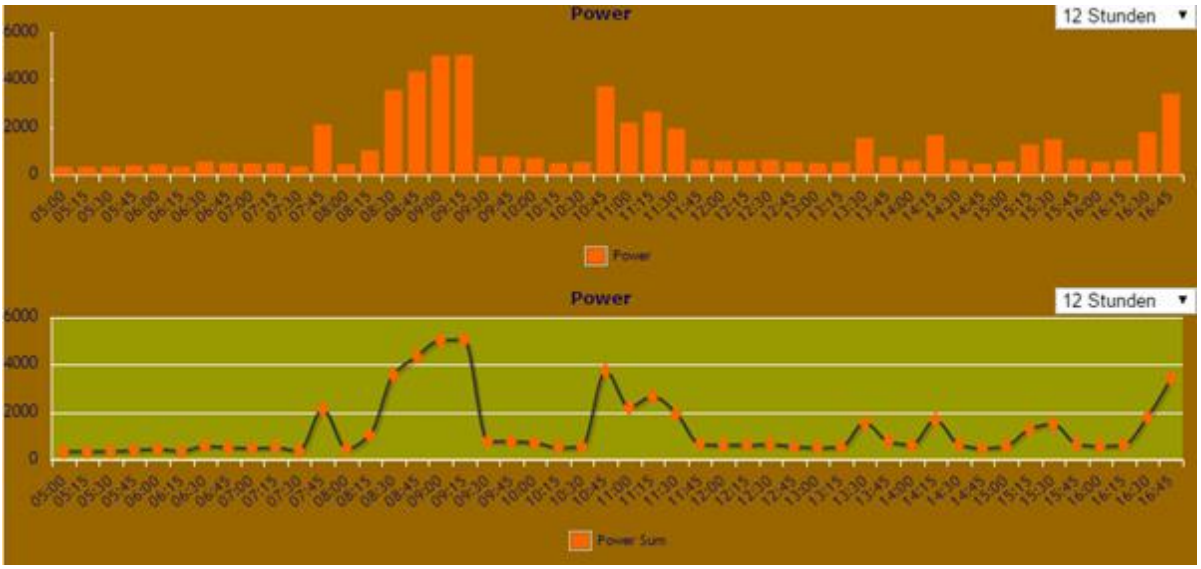
1 day (30 min)	30 minutes	48
1 week	24 hours	7
1 week (12 hours)	12 hours	14
1 week (6 hours)	6 hours	28
1 month	1 day	30
3 months	1 week	12
6 months	1 week	24
1 year	1 month	12

11.5.3 HTML display for the user: Chart

On the website, the chart module looks like this:



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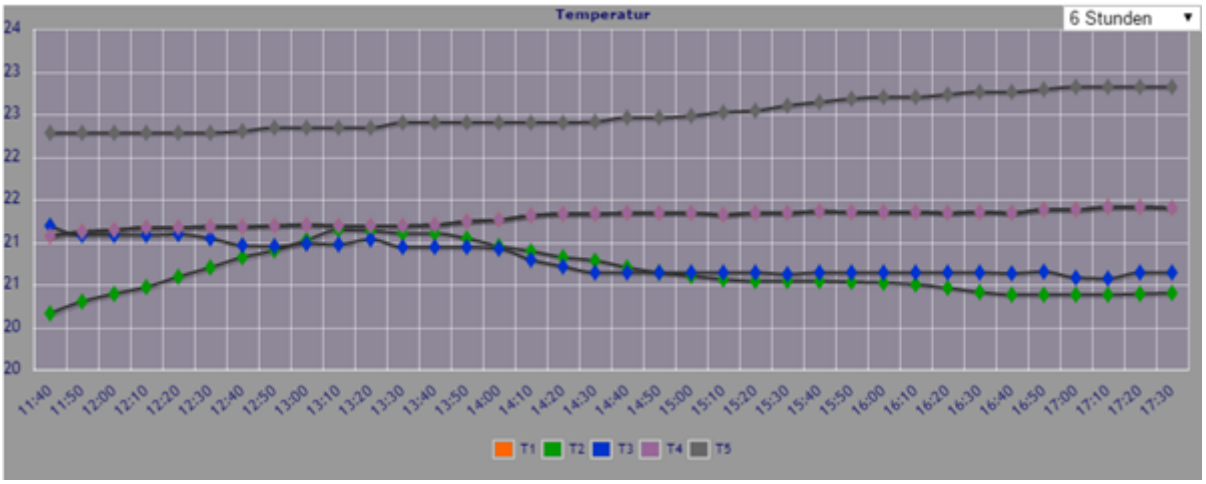

The display type, curve or bar chart, is set exclusively in the editor. It is possible to display multiple datapoints in a chart. When you move your mouse to a datapoint or bar, a tool tip appears automatically with additional information, such as:

- Name of the datapoint
- Date and time
- Value

Note: The recorded data are stored in the volatile memory (RAM) and are thus no longer available after a restart (power failure). If, however, the device is restarted intentionally, e.g. after an ETS download or after a firmware update, the data are saved and are therefore not lost. The displayed range can be varied directly in the visualization view, on the top right. A default setting for this is set in the editor.

Note: For the recorded values to be indicated correctly with the current time/date stamp, it is necessary to set the current date and current time, see also chapter: 6.3 Setting the date and time. This requires receiving the current date and time via the KNX bus (IP Control Center as slave) or adopting the current date and time from a time server (IP Control Center as master). If the values for date and time are not correct, incorrect log data will be output. If, for example, a date value from 2006 is set, e.g. after a power failure, no data are saved.

See also chapter: 9.2 The page navigation concept.

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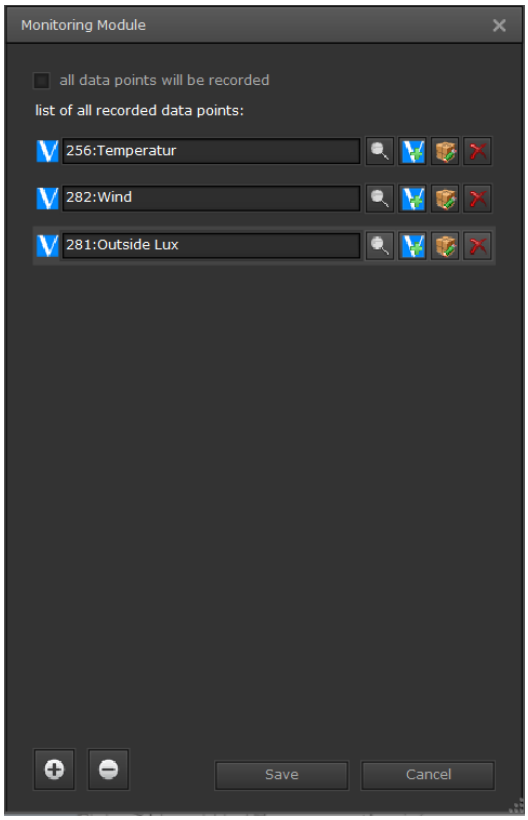
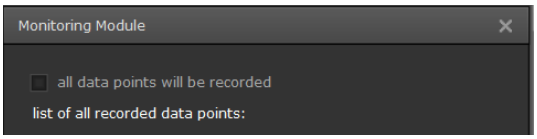
11.6 Monitoring Module

The monitoring module is a service tool used to analyze data on the KNX bus. This module is comparable to the group monitor from the ETS tool. It helps the system integrator or the installer with troubleshooting. The monitoring module is a recording module that logs all or specific bus events. It monitors up to 1000 events on the bus and saves them in a ring memory. The older entries are always deleted, so the last 1000 events are always available.

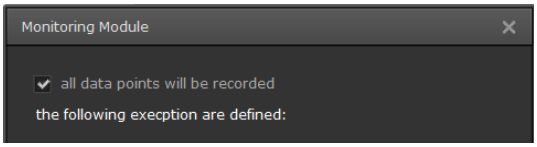
11.6.1 Datapoint configuration

Generally this module can be used to choose which data should be recorded.





With this setting, all selected datapoints, communication objects, virtual objects or group addresses are recorded.



With this setting, all datapoints, communication objects, virtual objects or group addresses are recorded, apart from the selected exceptions.

Use the “Save” button to record the configured datapoints.

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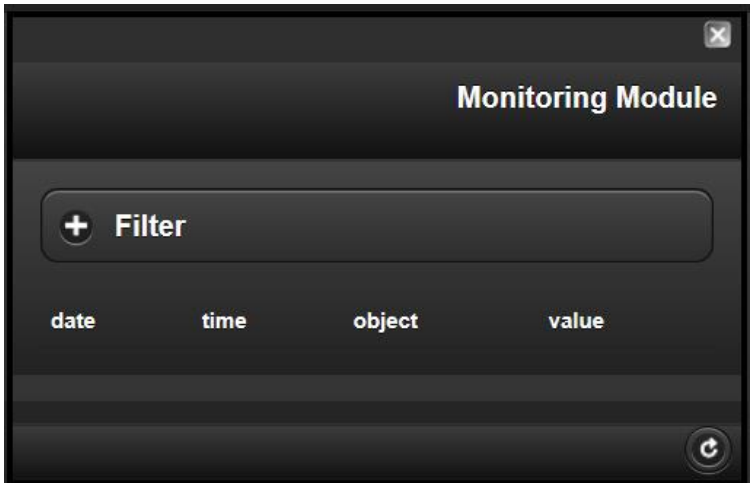
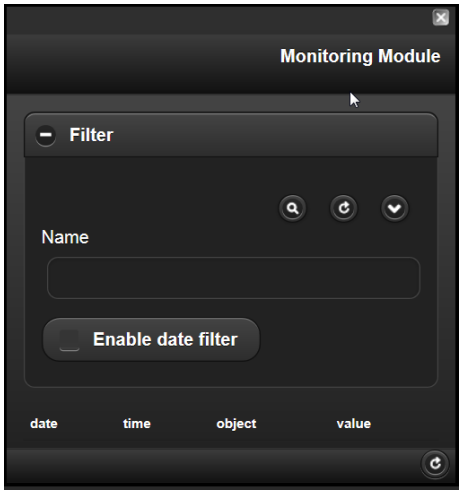
11.6.2 HTML display for the user: Monitoring

All recorded events are saved in a log file. This file can be displayed on the web user interface or sent as an email attachment. The relevant display control element, see also chapter: 10.3.8 Navigation elements, is used to call up the recorded data. The Monitoring Module must be selected as the display page. The following information is displayed:



date / time: Date / time of the events.
Object: Name of the objects.
Value: Value content of the datapoint.

The Monitoring Module provides a filter function. It is started via the upper Filter button. Two filter criteria can be configured:



Filter object: Filter by object name
Filter date: Filter by date and time.
Name: You can enter a search term in the Name field.
Enable date filter: If this setting is enabled, the configuration for a date and time range is displayed.

Use the  button to search the events for the search term.

Use the  button to refresh the page.

Use the  button to export the selected monitoring data as an xml file. The file log_manager.xml can be displayed directly in the browser or linked to a spreadsheet.

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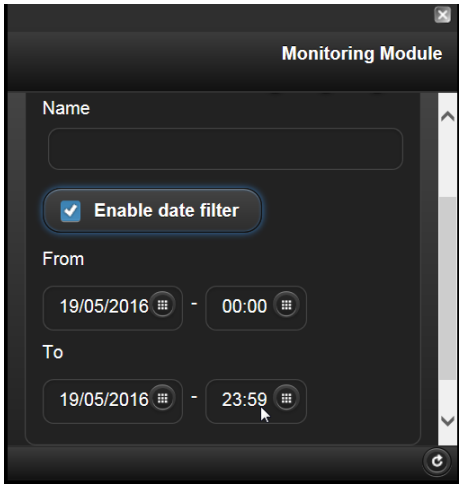

Use the Enable date filter button to display the configuration for a date and time range.

Note: The recorded data are stored in the volatile memory (RAM) and are thus no longer available after the device is restarted. If the device is restarted, e.g. after an ETS download or after a firmware update, the data are saved and are not lost.

Note: For the recorded values to be indicated correctly with the current time/date stamp, it is necessary to set the current date and current time, see also chapter: 6.3 Setting the date and time. This requires receiving the current date and time via the KNX bus (IP Control Center as slave) or adopting the current date and time from a time server (IP Control Center as master). If the values for date and time are not correct, incorrect log data will be output. If, for example, a date value from 2006 is set, e.g. after a power failure, no data are saved.

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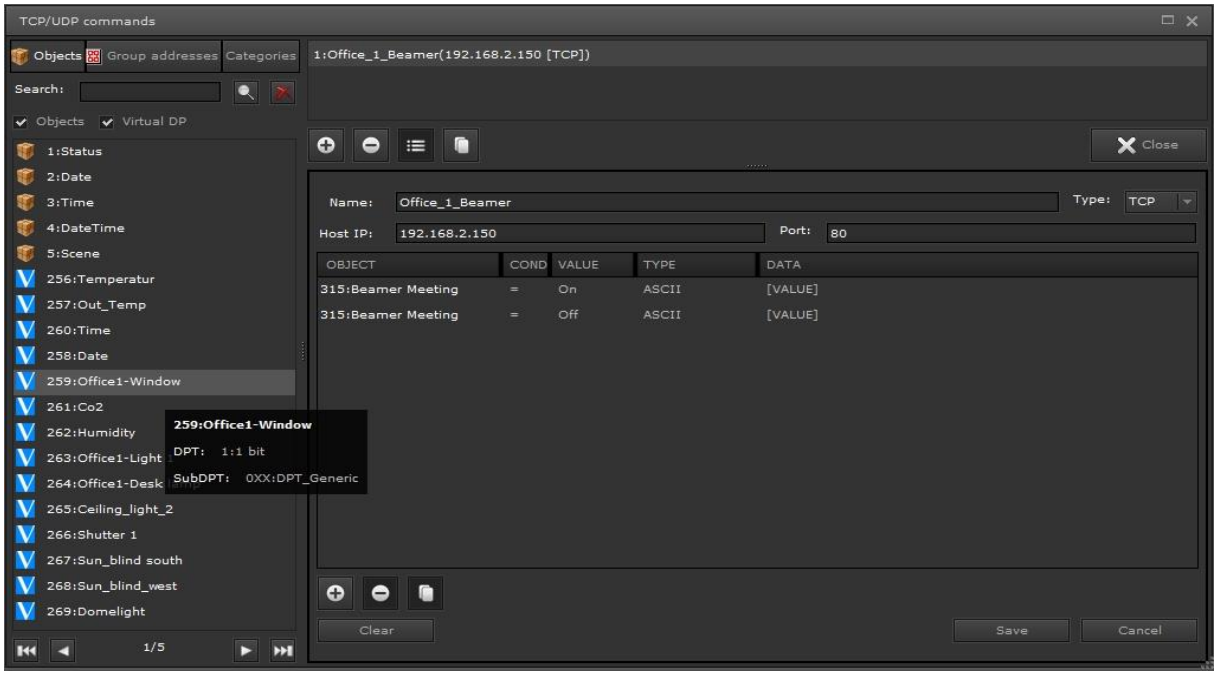
11.7 TCP/UDP commands

This module makes it possible to send IP telegrams via the IP Control Center. Up to 20 devices, e.g. projectors, routers, audio/video equipment, heating systems etc. can be controlled with up to 20 TCP/UDP commands each. For this purpose, datapoints such as communication objects, virtual objects or group addresses are defined. If the value contents of these datapoints meet specific conditions, defined commands are sent to the IP participants.



The IP participants are set up in the upper area. Up to 20 IP participants are possible.

Name: Name of the IP device to be controlled.
Host IP: IP address of the IP device to be controlled.
Port: Port number of the IP device.
Type: TCP or **UDP** identified.

The buttons can be used to add, delete, edit or duplicate IP participants.

Note: Up to 20 IP participants can be defined.

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In the lower section, a list of commands can be defined for each participant. This example describes control of a VU+ SAT receiver (DreamBox):

OBJECT	COND	VALUE	TYPE	DATA
315:Beamer Meeting	=	On	ASCII	[VALUE]
315:Beamer Meeting	=	Off	ASCII	[VALUE]

The triggering object can be a communication object, a virtual object or a group address. In addition, it is possible to choose a condition appropriate for the datapoint type. The Type field is used to define whether the IP participant expects an ASCII command or a binary command. The corresponding IP command is sent for each input event and after a successful check of the condition.

Note: You can define up to 20 commands. An HTTP command is defined as follows:

Example: http:/<ip>:90/control?command=25

Type: ASCII

Data: GET /control?command=25

Further commands for the DreamBox and similar can be found at:

→http://wiki.dbox2-tuning.net/wiki/index.php/Enigma2:WebInterface

Note: In the data field, it is possible right-click to add the [VALUE] placeholder that will be replaced by the real value of the datapoint during execution. Changes become active as soon as they are saved.

11.7.1 PJLINK: Controlling projectors

PJLink is a standard supported by most modern projectors and other displays. The underlying idea is that multiple beamers (projectors) in a network can be managed and controlled centrally. The commands for the PJLink interface are very brief, as are the responses from the device. The aim of the interface is, among others, to generate as little data traffic in the network as possible. Another advantage is that the projector can be controlled via the IP Control Center without an additional remote control. For more information on the PJLINK protocol, see https://de.wikipedia.org/wiki/PJLink.

The following syntax must be used in the TCP module to control projectors via PJLINK:

IP address: <ip> of the projector

Port: 4352

Command: PJLINK <password> <command> <parameter>

(<password> is replaced by the configured password.)

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Example: Switch on projector

Type: ASCII

Data: PJLINK <password> POWR 1

Command	Parameter	Description
POWR	0 = STANDBY1 = ON	ON/OFF
INPT	11: RGB 1 12: RGB 2 13: RGB 3 31: DIGITAL 1 32: DIGITAL 2 33: DIGITAL 3 46: AUX1 21: VIDEO 1 22: VIDEO 2 25: VIDEO 5 47: AUX 2 48: AUX 3 49: AUX 4	Select the input

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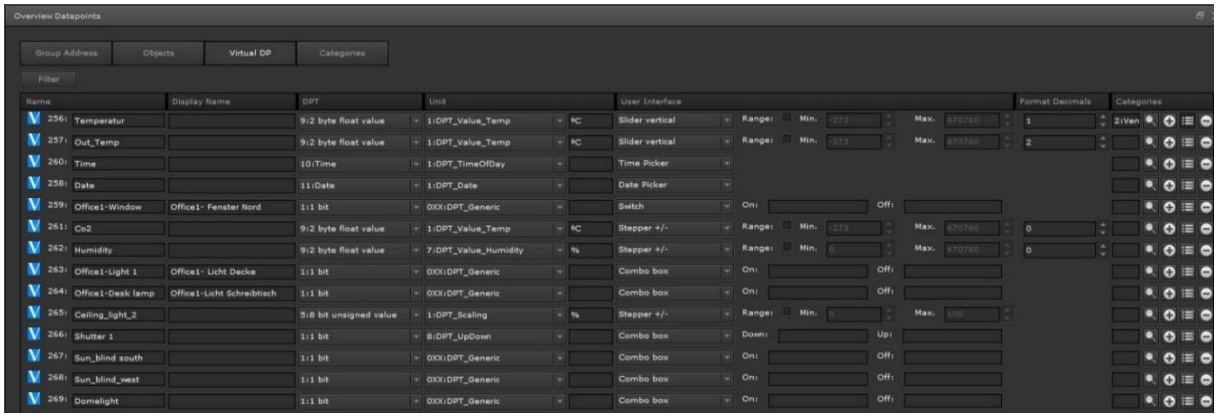
11.8 **DTP Management** (overview of datapoints)

This module is used for displaying, managing and editing all available datapoints. The datapoints are collected on a central list. A default setting for the display of these datapoints can be set on this list. The default setting is the basis for all configuration pages. This includes HTML configuration pages for weekly schedule programs and for scenes.



11.8.1 Datapoint selection

All datapoints are divided into the following categories:

To filter or find specific datapoints, you can use the “Filter” function to set a range of selection options. The following filter criteria are available:

Text: Datapoints by display name.
DPT: Main datapoints by definition.
SubDTP: Subdatapoints by definition.
Categories: Datapoints by category grouping.

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Once you have entered the filter criteria, press the “Search” button to display the result.

Example: 1 bit datapoints

Press “SHIFT” and press and hold the left mouse button to select and edit multiple datapoints. The settings are then applied to all selected DPTs.

11.8.2 Datapoint properties

Changing the name / display name

Each group address has an internal name (usually from the ETS export). Here it is possible to replace this name with a “display name”.

Changing the datapoint types

Here you can reassign the KNX data types to be used.

Changing the unit

Here you can assign the KNX measurement units (e.g. °C and °F or m/S and km/h) to new subdata types.

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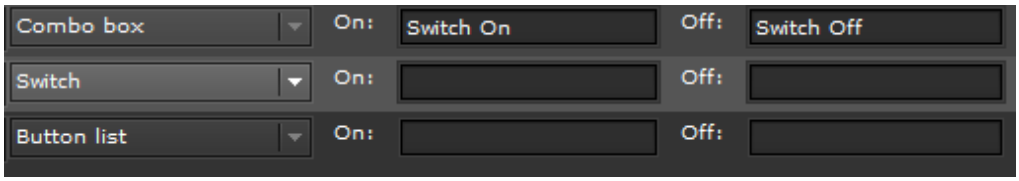
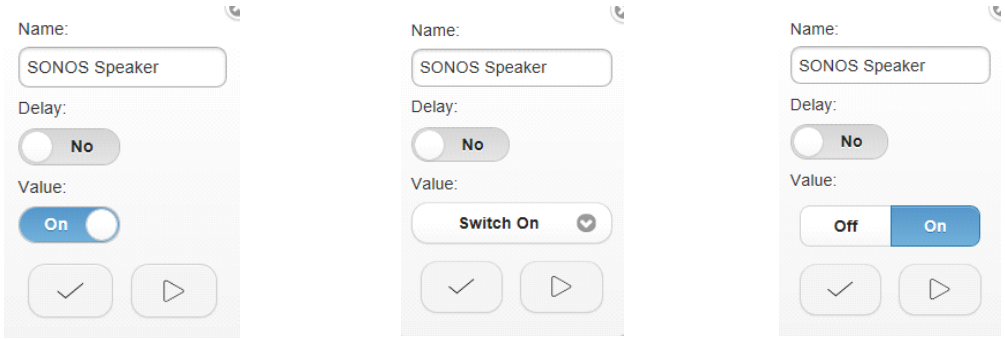
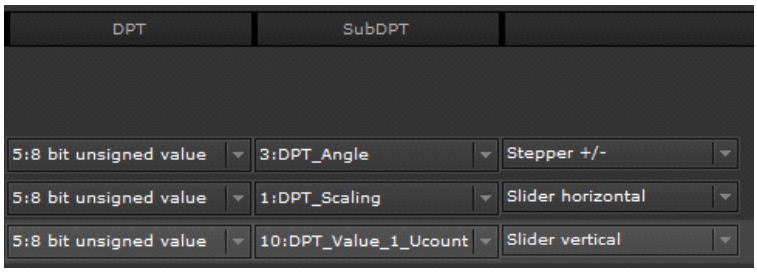
Changing the display

You can also vary the way the control buttons are displayed. For a simple On/Off command you can choose from 3 different displays:





For a 1 Byte value, such as an input in % (0...100%), the following displays can be chosen:



Note: The selected displays are only applied on the SmartVisu HTML pages. This does not apply to the desktop configuration assistant.

Decimals

For analog values, you can restrict the range and define the number of decimals (max. 2).

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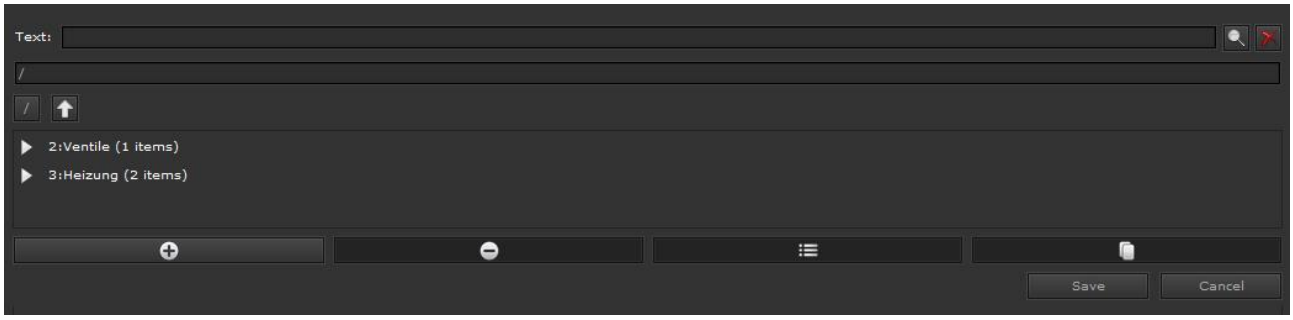
Assigning categories

To group datapoints in a useful way, it is possible to create custom categories and assign the group addresses, objects or virtual objects to these categories. In all windows where the required group addresses, objects or virtual objects can be selected from a list of datapoints, categories can be used to speed up searches. The text field in the upper area enables a full-text search. This method can also be used to find group addresses for a category.



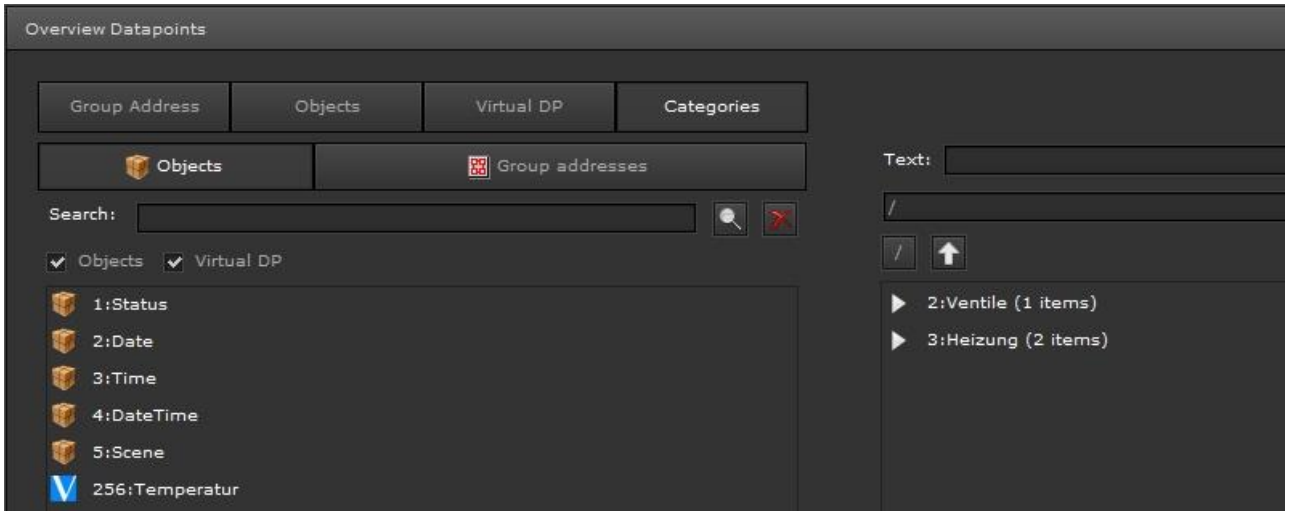
4 buttons are available for creating and editing categories:

Add: Button for adding a new category.

Delete: Button for deleting an existing category.

Edit: Button for editing (name) an existing category.

Copy: Button for copying an existing category.



The datapoints to be assigned are added to the created categories by means of the direction buttons or drag & drop. Use the “Save” button to save the created categories and their contents.

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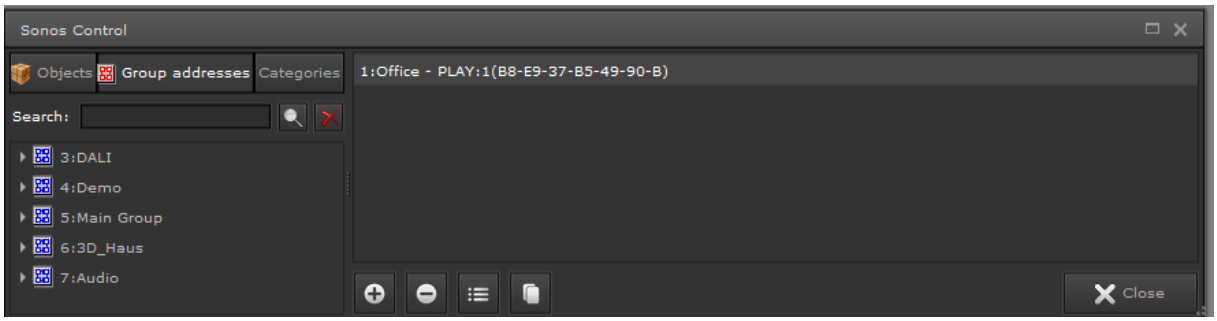
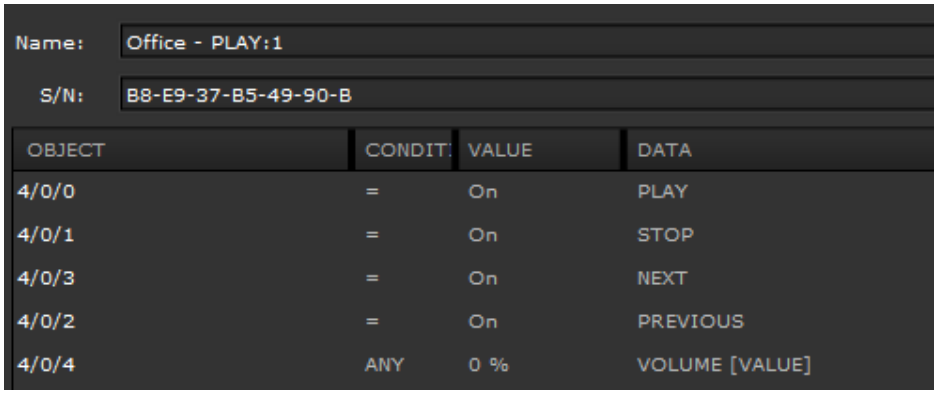
11.9 Sonos Control

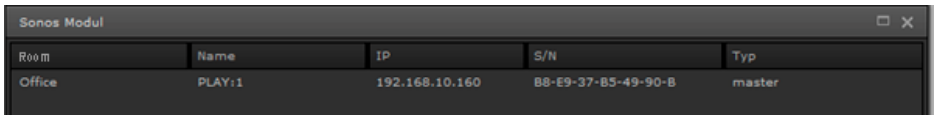
From IP Control Center **version 4** it is possible to control SONOS speakers directly. SONOS develops and produces active speaker systems and HiFi components that are connected wirelessly via a WLAN. The system can use local audio files or music streaming services and play them back in several rooms at the same time. The audio system is controlled by an application on the smartphone, tablet PC or desktop PC, and partially by voice control.




The Plus button can be used to add a new speaker.




The magnifying glass can be used to find speakers in the network. A new window appears with all the relevant information on the SONOS speakers found. To provide a better overview, it is possible to assign an alias. Then select the required speaker to define the control elements.



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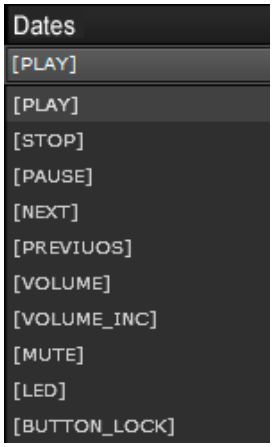

The supported control elements are displayed as a pop-up window

The following commands are currently supported:

- Play
- Stop
- Pause
- Next
- Previous
- Volume
- Volume Inc - The volume is changed relatively by a defined value
- Mute
- LED - The LED on the speaker can be switched on (condition true) or switched off (condition false).
- Button_Lock (Button control on the speaker can be locked (condition true) or enabled (condition false).
- Bass
- Treble
- Loud
- Playlist - The required playlist is selected from the list of favorites.

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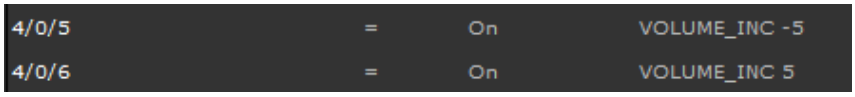
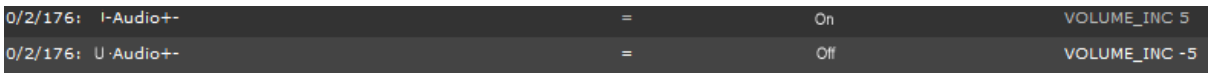
These commands can, as with the TCP module (see chapter: 11.7 TCP/UDP commands), be assigned to communication objects or virtual objects. A condition can be defined to trigger a command. The "*Volume*" command is an unusual case. If this command is ideally linked to a group address or an object of data type 1 Byte Scaling (0..100%), the value is transmitted directly to the command. The condition for this is "ANY", which means that the value is transmitted to the SONOS speaker upon every event. A value of 30% would set the speaker to 30% of the volume. However, it is also possible to set the volume to a fixed value for another condition:

Note: In **version 4** the interface does not yet support the updating of the values if they are modified via a different app. It therefore makes more sense to perform incremental changes to the volume: **Volume_Inc**

Here it is possible to specify the change in volume by the current value. This can then be sent by a 1 bit command or simply via a KNX button. This example changes the volume by +-5% according to the relevant group address.



Of course it is also possible to use the same object or group address:



Note: This makes it possible to use a normal On/Off light switch to adjust the volume. For this purpose, the volume can be increased for the "On" condition and reduced for the "Off" condition. For this configuration, only one group address is required.

Note: The "*Playlist*" command requires a second parameter specifying the title of the required playlist. This title must be listed under favorites. If this title is found in the SONOS favorites, this list is selected. It is therefore possible to select different playlists at the press of a button. The favorites in SONOS are only recognized by the name. It is therefore advisable to choose simple names for favorites in the SONOS configuration.

Note: SONOS is a registered trademark. See chapter: 20.3 References.

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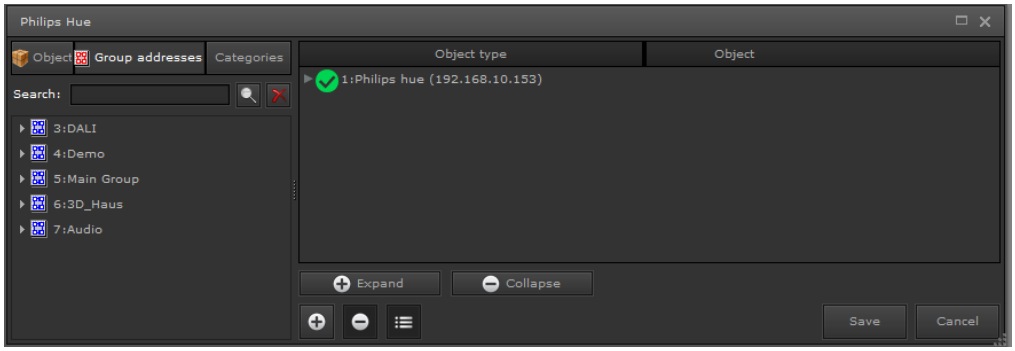
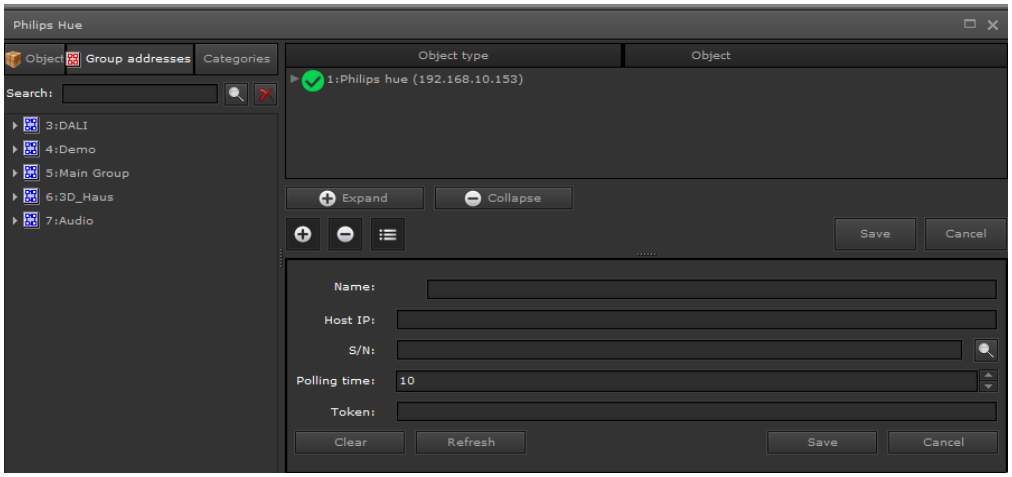
11.10 Philips HUE

From IP Control Center **version 4** it is possible to control the Philips HUE LED lighting system directly. Hue is the lighting system from Philips that allows you to operate your lighting in wireless fashion without an application. The system makes it possible to control the lighting in a house via a mobile app. The system can be operated via a smartphone, tablet or voice control. A Philips HUE system always consists of a bridge and the connected lamps. The bridge implements the interface with the IP network to enable control via apps or the IP Control Center. For this purpose, the bridge must be in the same network. The procedure described here requires the Philips system to have been fully installed. All lamps must already be registered with the bridge by means of the appropriate Philips app. Each participant, including the IP Control Center, must be registered with and authenticated by the bridge. This process is performed by pressing a button on the bridge. This assigns a "token" for authentication, so that the IP Control Center can send commands to the connected HUE lamps. The following description describes, step by step, the configuration procedure and registration with the bridge:

Note: Both the IP Control Center and the PC with the editor must be in the same IP network.



 The Plus button can be used to add a new Philips bridge.



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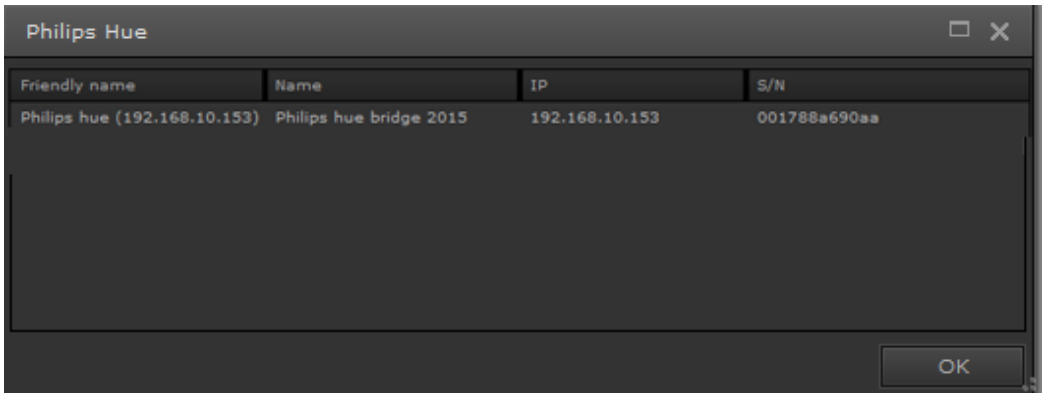
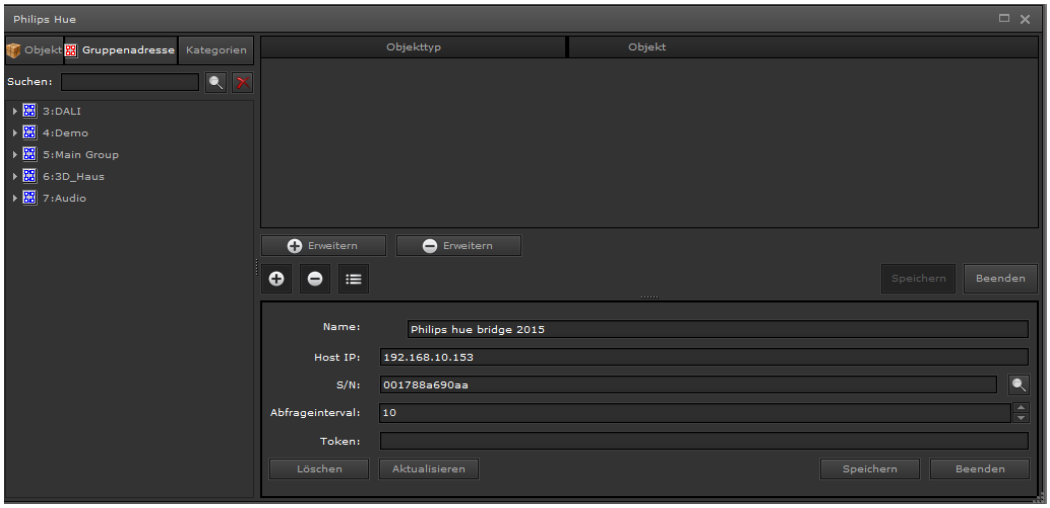
Name: You can assign a new alias name.


The magnifying glass can be used to find Philips systems in the network. This procedure is preferable to manual searching by entering the host IP and S/N.



Press the OK button to add the found bridge to the list.



No token so far, or the authentication has not been performed yet. When you press the “Beenden” (exit) button, you will be asked to press the button on the Philips bridge. You must do this within 2 minutes.

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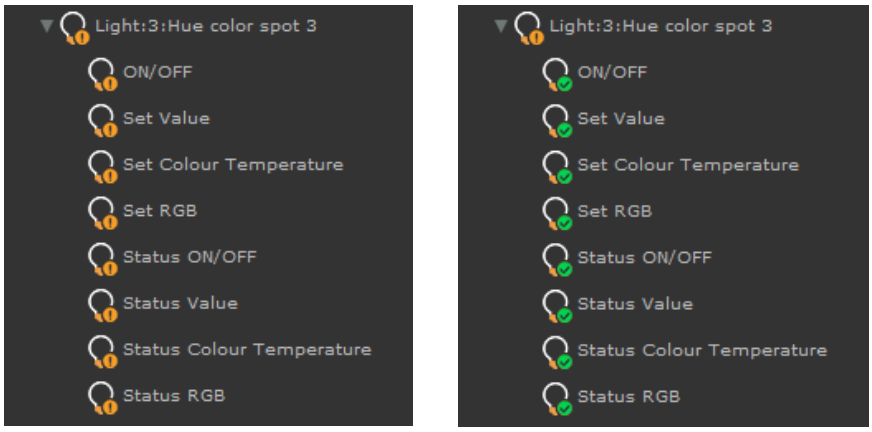
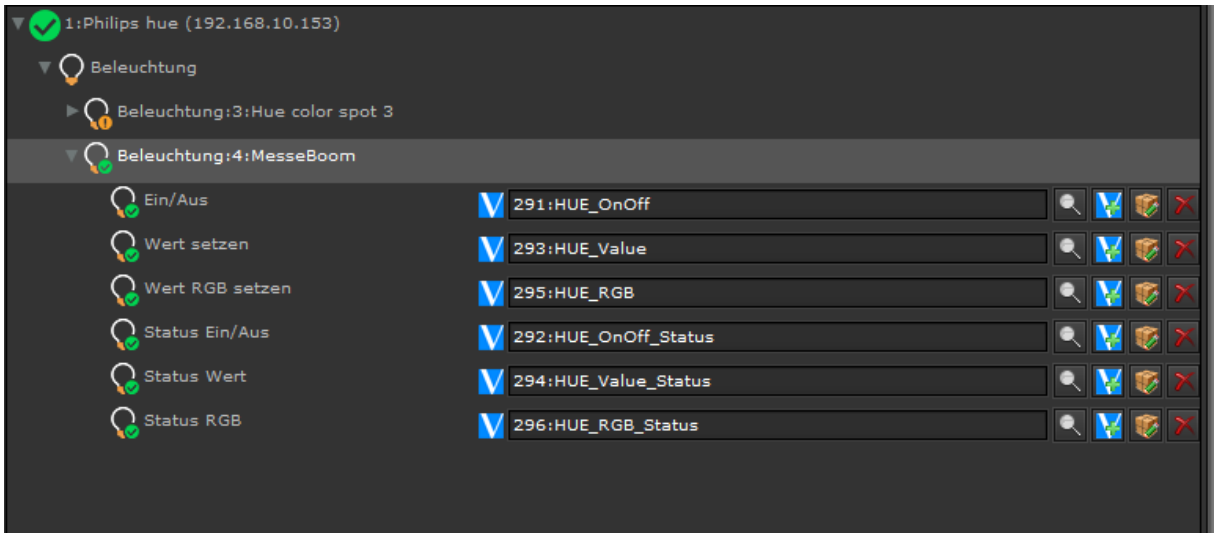
Now you should first press the button on the bridge and then confirm in the editor window with OK. A so-called token is generated that authorizes the IP Control Center to send switch commands to the bridge. The polling interval defines the time at which the system updates values that were set not with the IP Control Center but with a different HUE app.
The following section displays all configured lightings with the corresponding available switch commands:



The objects available for the lamp type are displayed.

Note: For color control, the datapoint type: 232.600 (3 Byte RGB) is required. The color temperature is coded with the DPT: 7.600 (2 byte unsigned).

The HUE commands can be linked to group addresses, to communication objects or to virtual objects.



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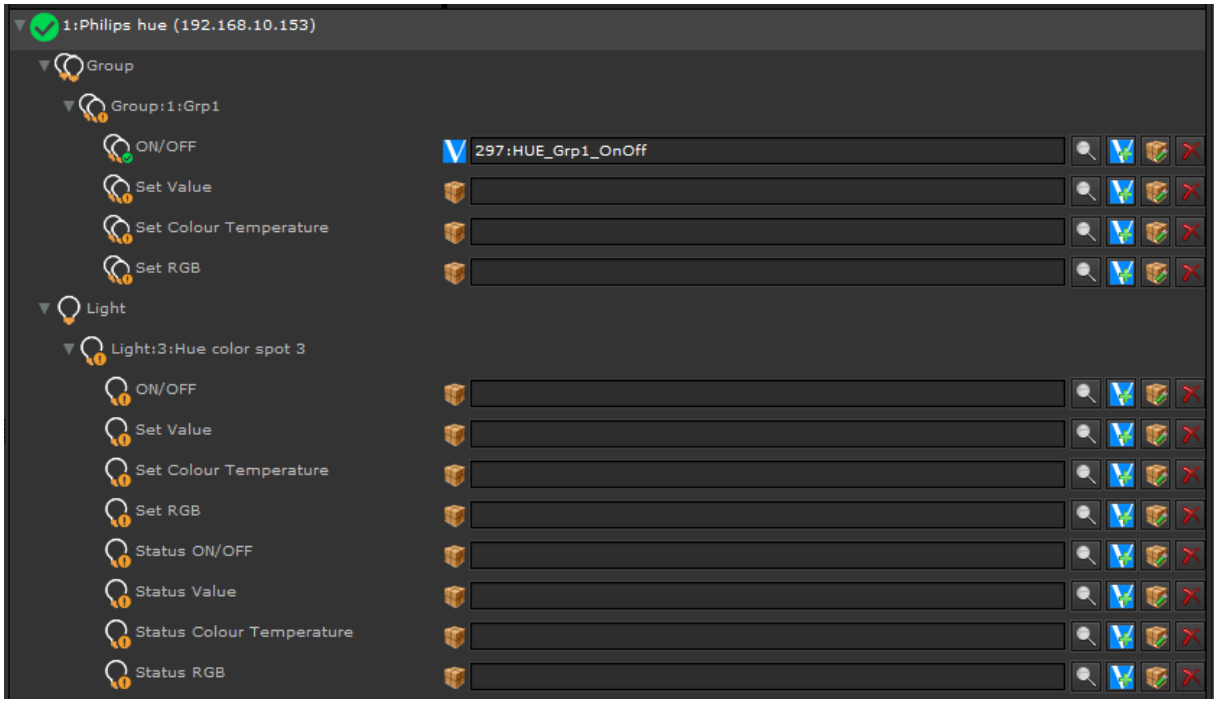
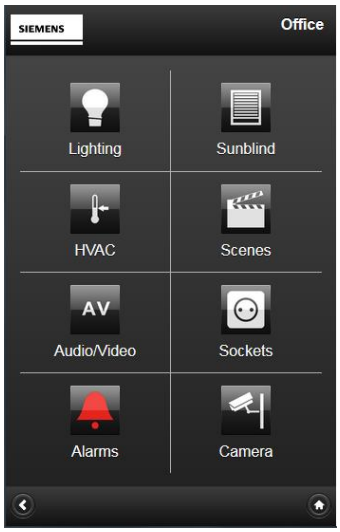
It is also possible to form groups in the HUE bridge or with the help of a range of apps. This allows multiple lamps to be grouped and switched together.



Note: The Philips HUE system is a registered trademark. See chapter 20.3 References.

12 Configuring with the smart editor

In addition to the web editor, the IP Control Center contains a smart editor. It is very simple and intuitive to operate. The smart and tablet visualizations configured with this editor have a consistently structured display and control philosophy. Smart visualization is optimized for mobile browsers on current smartphones and tablets.



Tablet visualization is adapted for tablets.

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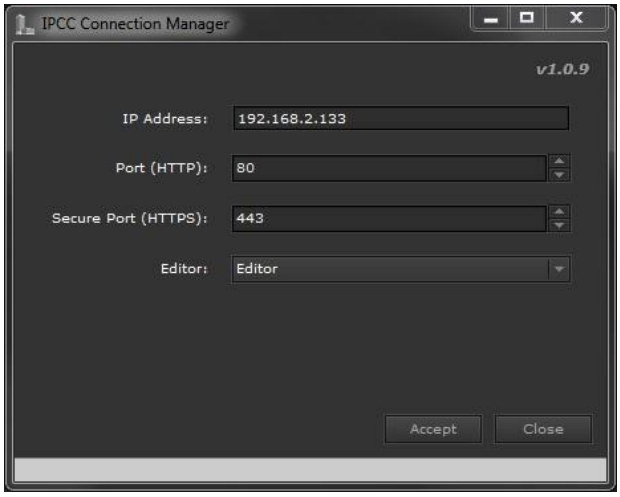
12.1 Configuring the IP Control Center

Before you can start configuring the smart editor, you have to set the network parameters. To do so, you first have to set the relevant parameters in the ETS application program and then load them to the device. To connect to the network, it is necessary to make the relevant settings on the PC/laptop as well. The smart editor is called from the connection manager as already described in chapter: 2.1 Conceptual overview of editors and visualization.

Designer access: via connection manager

User access: https://192.168.x.xxx/smart.php or https://192.168.x.xxx/tablet.php

Only one designer can be logged on to the smart editor at any time. If a second designer logs on (e.g. via remote access), a warning message appears. This also applies to the graphic editor. Only one editor can be opened at any one time.



Note: The smart editor password provides access to the smart editor where a smart visualization can be generated. This means that not every user can make changes to the visualization. The default user name for the smart editor is "Smart editor". The default password is "**Siemens**". However, it must be changed when the smart editor is first called. See also chapter: 3.2 Password management. To assign a smart editor password, you first have to open the configuration page of the IP Control Center. See chapter: 7 Configuration manager. The language of the device configuration can be set to a default value in the language settings in the graphic editor. See chapter: 8.3 Setting the language.

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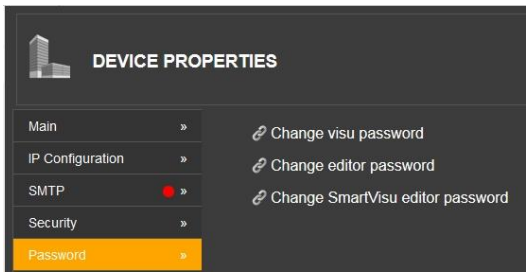
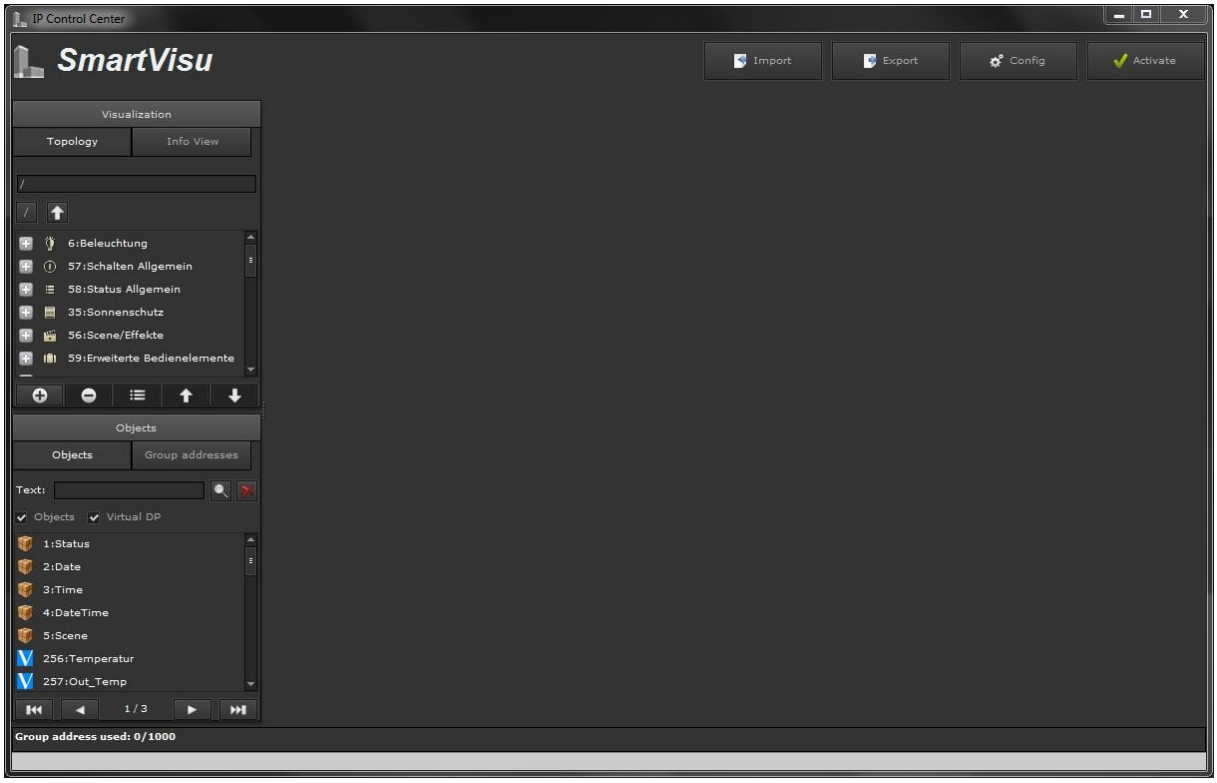


Note: The visualization pages and the editors needed for configuration should be well protected against unwanted requests from the Internet (or Intranet). To this end, the password protection for the IP Control Center must be applied! Furthermore, the default password "**Siemens**" must be changed in the ETS. Use as many different characters as possible. Choose a random password without repetition or a personal connection. Change your password regularly. See chapter: 3.2 Password management.

12.2 Smart Editor

The figure shows the work area of the smart editor.



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The right part of the smart editor header contain the function switches for “Import”, “Export”, “Config” and “Activate”.

Import: Import an existing configuration from a smart or tablet visualization project to the editor. You can define a name for this configuration or change the existing name.

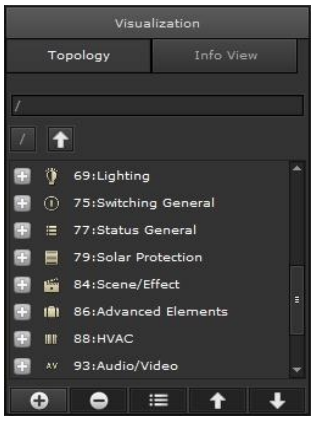
Export: Saves the configuration of a smart or tablet visualization project to a local PC.

Config: Sets the visualization environment in regard to style, layout and background color, assigns a project name, adds a logo. Configures the tablet visualization with the arrangement, size and transparency of the container. Sets background pages and background images.

Activate: Generates a smart or tablet visualization in HTML format from the project and saves it in the IP Control Center.

Note: The configuration of the smart editor project is part of the entire web visualization. If the configuration of the smart visualization was created after a full backup of the web visualization, it will be lost when the web visualization (complete project) is restored. This is because the configuration of the smart visualization did not contain any data when the full project backup was created. For this reason, it is advisable to perform a comprehensive project backup with the “Save” function from the web editor.

The middle area contains the work area for configuring the smart or tablet visualization. To the left of the work area are the “Topology” and “Info View” tabs.



The “Topology” tab shows the tree structure of the folders and functions for the current smart or tablet visualization. The folders reflect the page navigation or the container levels.

The “Info View” tab shows various status values for the installation in a slider window of the smart visualization or in a menu bar of the tablet visualization. The “Status General” functions can be created.

The created functions and status displays are displayed in the smart visualization view in the middle of the menu bar:

Example: Time display in a smart visualization:

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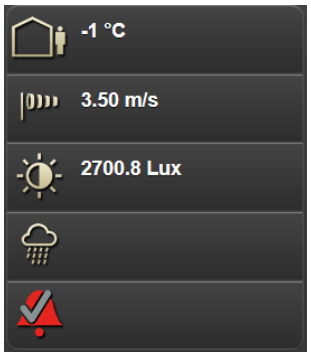
Clicking on the top information message, e.g. time, causes a slider window to appear from the left. It shows the additional configured status displays such as outside temperature, wind speed, outside brightness, rain etc.



The created functions and status displays are spread across the menu bar in the tablet visualization view:

Example: Display of outside temperature, wind speed, outside brightness and rain in a tablet visualization.

The following function switches are under these two tabs:

- Add folders/icons
- Add function
- Delete function
- Edit
- Up/down

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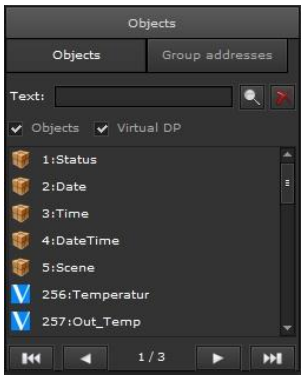
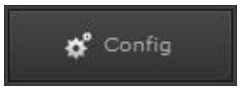
Note: You can create as many folders and subfolders or functions as you wish. If the visualization pages of the smartphone or tablet cannot display all the folders (page navigations / containers) or functions, sliders are displayed on the right and at the bottom of the visualization view. They can be used to navigate to all available visualization pages and functions.



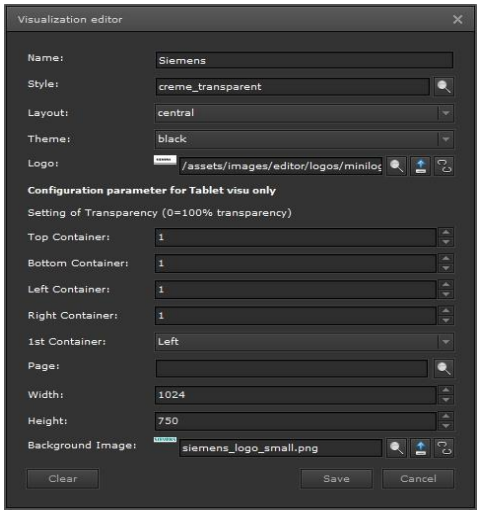
The lower left area of the smart editor contains the window with the communication objects, virtual objects and group addresses. These must be assigned directly to the appropriate functions.

12.2.1 Configuration

The start of a smart visualization project or a tablet visualization project begins with the configuration settings using the function switch from the smart editor header.



The following configuration options are available for the smart visualization or tablet visualization:



Name: The name of the visualization project is entered. It appears in the right corner of the header in the smart visualization view. In a tablet visualization, this name is displayed vertically to the side of the top display container.

Style: You can choose a design style. Three styles are available by default: "black_magic", "blue_transparent" and "creme_transparent". The icons of the functions and statuses are displayed accordingly.

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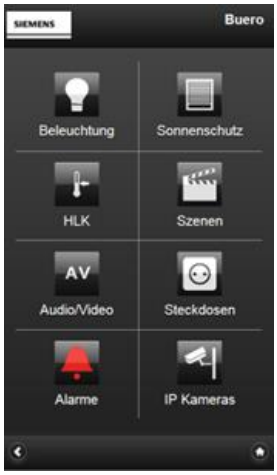
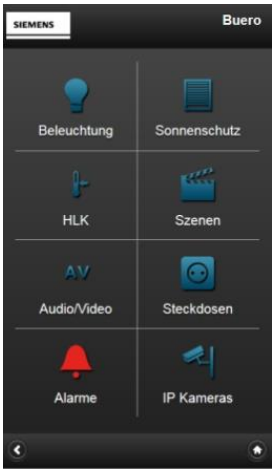
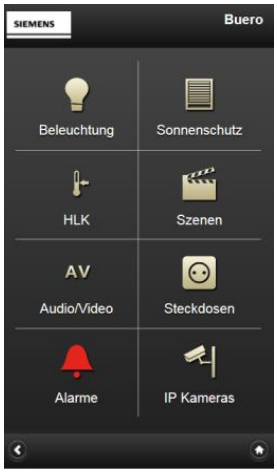
Smart visualization styles:



Black magic



Blue transparent



Creme transparent

Tablet visualization styles:

Black magic

Blue transparent

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Crème transparent

Layout: You can choose between the “distributed” and centered layouts. This setting affects the arrangement of display and control functions and their icons. With the “distributed” setting, the function icon and function label are shown on the left. The respective button to the right of the function line displays a submenu for the function, e.g. it displays the dimming function as a slider or the RGB control as a special element. For simple functions, e.g. On/Off, it is generally possible to perform all switching using the entire control line, and the submenu is not required.

Smart visualization, distributed layout

Tablet visualization, distributed layout

With the “centered” setting, the function icon and function label are shown in the middle of the function line. The respective button to the right of the function line displays a submenu for the function, e.g. it displays the dimming function as a slider or the RGB control as a special element. For simple functions, e.g. On/Off, it is generally possible to perform all switching using the entire control line, and the submenu is not required.

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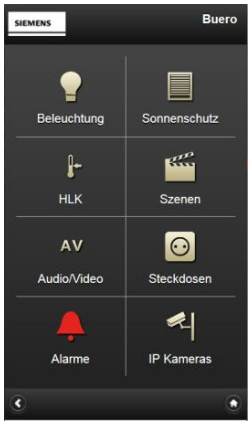
Smart visualization, centered layout

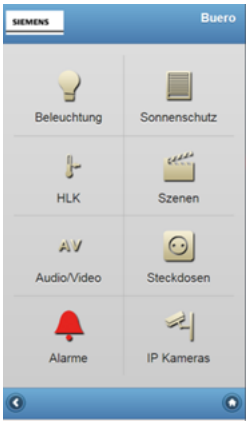
Tablet visualization, centered layout

Theme: This selection can be used to choose a specific background color for the display and control interface. Five colors are available: black, blue/gray, white, yellow and red.

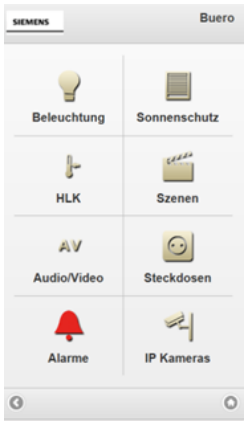
Smart visualization, color themes:



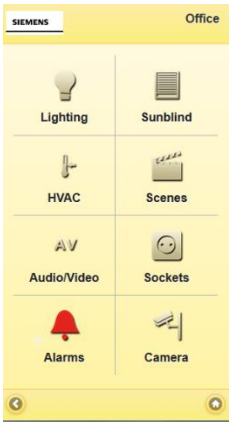
black



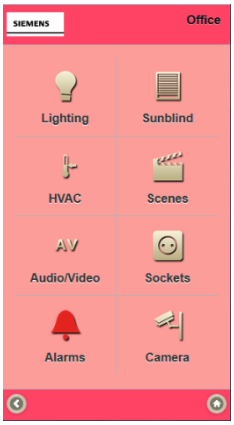
blue/gray



white



yellow



red

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Tablet visualization, color themes:

black

blue/gray

white

yellow

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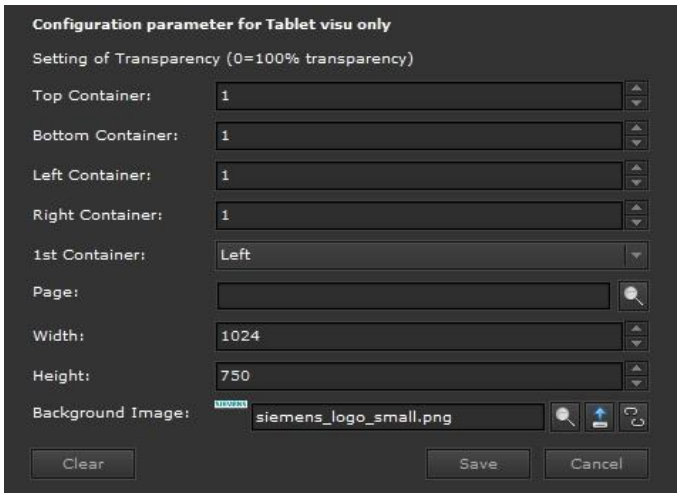
red

Logo: You can add a logo. This logo is displayed on the top left in the menu bar in the smart visualization. The default is a Siemens logo. You can upload and set different images.

The remaining configuration options relate to the tablet visualization. They relate to the container display adapted for tablets. The tablet visualization displays information and functions in up to four containers. The top container represents the menu bar. It can display the time and date or weather data, for example. All further containers, e.g. shown on the left, bottom and right, reflect the configured topology. This results, for example, from the building structure and the functions. Example: The 1st container, left display position, can display building parts or floors. Example: The 2nd container, bottom display position, can display rooms. Example: The 3rd container, right display position, can display the respective functions of the rooms.



Top Container: Transparency can be configured for the top container (menu bar). The value 1 means no transparency. If the value is 0, the container color is completely transparent.

Bottom Container: Transparency can be configured for the bottom container. The value 1 means no transparency. If the value is 0, the container color is completely transparent.

Left Container: Transparency can be configured for the left container. The value 1 means no transparency. If the value is 0, the container color is completely transparent.

Right Container: Transparency can be configured for the right container. The value 1 means no transparency. If the value is 0, the container color is completely transparent.

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1st Container: The position for the first container is set. The available positions are **left**, **right** and **bottom**. If, for example, three topology levels have been created, choosing left causes the first level to be displayed in the left container, the second level in the bottom container and the third level in the right container.

Default page: Here you can select a visualization page already configured with the web editor as your standard background. It is also active in relation to display and control. You can also choose images and movies from IP cameras.

Width: The width of the display page is set here. It should correspond to the tablet resolution.

Height: The height of the display page is set here. It should correspond to the tablet resolution.

Background Image: Here you can select a static background image as the standard background.

Use the "Save" button to accept the configuration. Example of container views in a tablet visualization:

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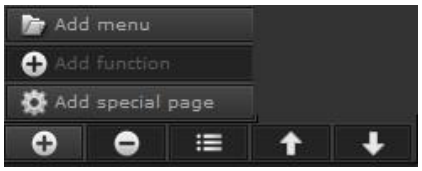
12.2.2 Topology and functions

Before the display and control functions are set up, it is necessary to set up the page arrangement or the navigation for the smart visualization project on the Topology tab or define the display contents of different containers in a tablet visualization project. To do so, use the Add button to add a menu or special page along with its name.



Double-click the folder or click the plus symbol in front of the folder to access the subfolder etc. There you can define further subpages and therefore a control topology.

You can use the “Add function” button to create a function. It is then displayed on the control page.

This description is displayed under the navigation button for this page. Access to the respective page can be protected with a password. It is set up under “Password”. After “Image” you can choose a suitable icon for the navigation button. This could be a subsection such as lighting, sun protection or HVAC, or present a local structure such as office 1, office 2, meeting room etc.

The special pages can be used to assign web views for the various modules already configured in the web editor, such as Schedules, Schedules - Desktop, Periods, Scenes, Scenes - Desktop, Alarms, Alarm History or Monitoring.

Special configuration parameters are available for tablet visualization. If you enable the “Next layer down” selection, a second menu level is displayed in a different container. Each menu page and each special page can be displayed by a dynamic visualization page from the web editor or by a static background image.

The functions are divided into the following 10 categories:

- Lighting
- Switching general
- Status General
- Solar Protection
- Scene/Effect
- Advanced elements
- HVAC
- Audio/video
- IP Camera
- Charts

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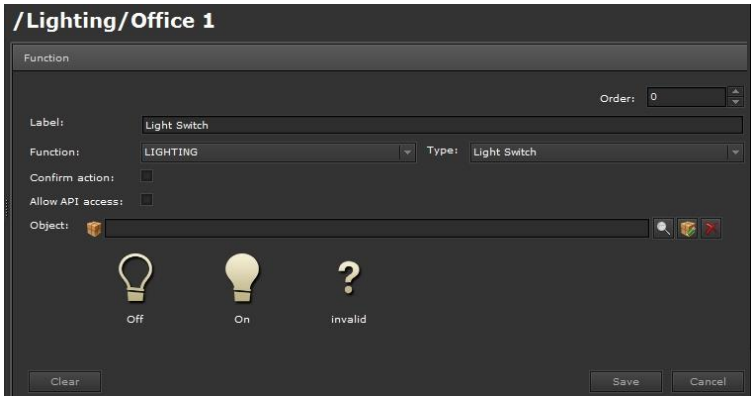
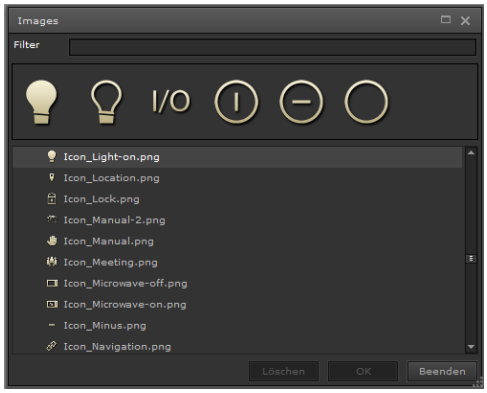
12.2.2.1 Lighting

To create functions, select the relevant folder, the page, and add a function.
9 types are available for the Lighting function.

Light Switch: This element sends ON/OFF commands.

The status is updated by the correspondingly configured object or the group address. This is represented by a specific icon. If no status value is received, the object remains in the "invalid" status. This is indicated by a question mark as an icon.





Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. lighting.

Type: Light Switch

Confirm action: If this function is enabled, a pop-up window for control and for status display is displayed upon direct operation. This means there is no specific selection of the submenu for control and status display on the right side of the function bar.

Allow API access: Voice control can only be used if API access is enabled. This is done by placing a check in the activation box. See chapter: 7.8.1 Voice control.

Object: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Bit DPT is permitted.

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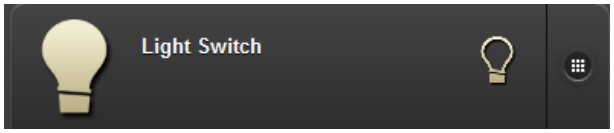
Images: Images to display the action: Off, On, invalid value. They can be changed. The IP Control Center offers a wide range of icons.

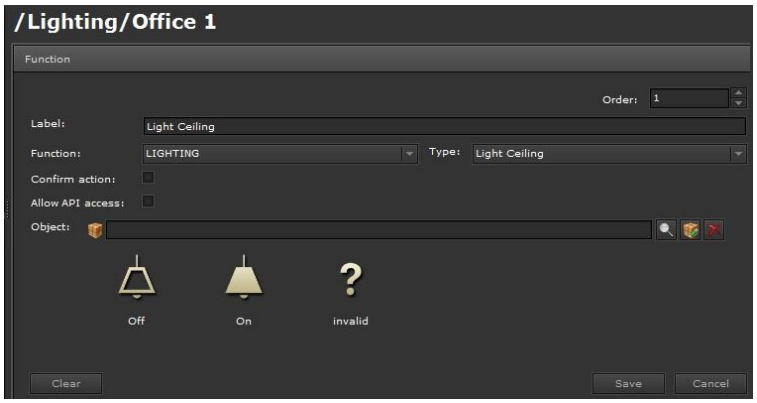
Display of the Light Switch visualization view:

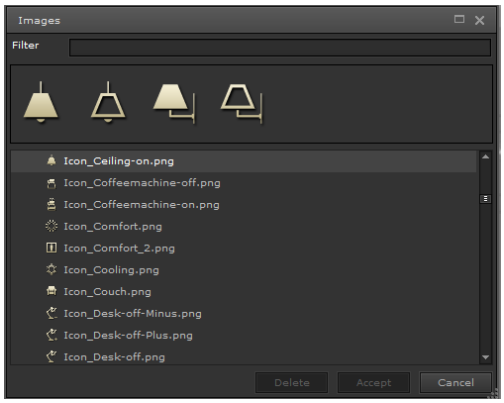


Light Switch submenu:

LIGHT CEILING: This element sends ON/OFF commands.

The status is updated by the correspondingly configured object or the group address. This is represented by a specific icon. If no status value is received, the object remains in the "invalid" status. This is indicated by a question mark as an icon.





Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. lighting.

Type: Light Ceiling

Confirm action: If this function is enabled, a pop-up window for control and for status display is displayed upon direct operation. This means there is no specific selection of the submenu for control and status display on the right side of the function bar.

Allow API access: Voice control can only be used if API access is enabled. This is done by placing a check in the activation box. See chapter: 7.8.1 Voice control.

Object: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Bit DPT is permitted.

Images: Images to display the action: Off, On, invalid value. They can be changed. The IP Control Center offers a wide range of icons.

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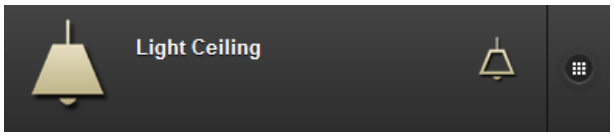
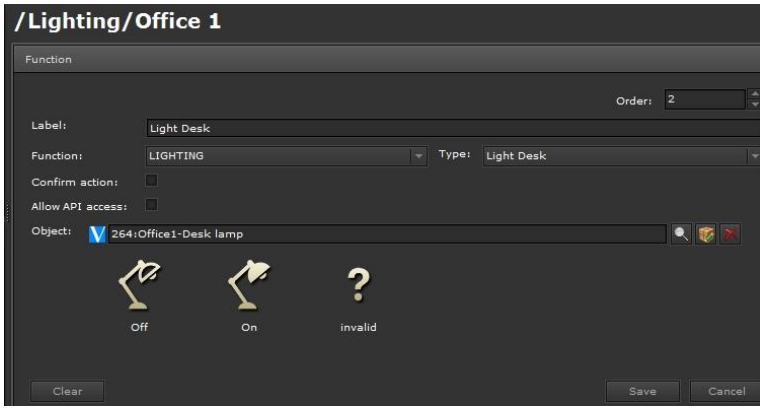
Display of the Light Ceiling visualization view:

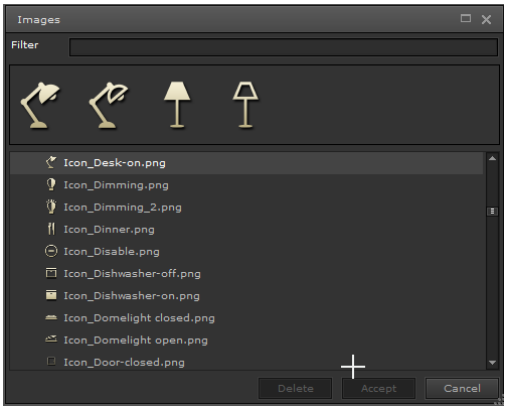


Light Ceiling submenu:

LIGHT DESK: This element sends ON/OFF commands.

The status is updated by the correspondingly configured object or the group address. This is represented by a specific icon. If no status value is received, the object remains in the “invalid” status. This is indicated by a question mark as an icon.





Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. lighting.

Type: Light Desk

Confirm action: If this function is enabled, a pop-up window for control and for status display is displayed upon direct operation. This means there is no specific selection of the submenu for control and status display on the right side of the function bar.

Allow API access: Voice control can only be used if API access is enabled. This is done by placing a check in the activation box. See chapter: 7.8.1 Voice control.

Object: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Bit DPT is permitted.

Images: Images to display the action: Off, On, invalid value. They can be changed. The IP Control Center offers a wide range of icons.

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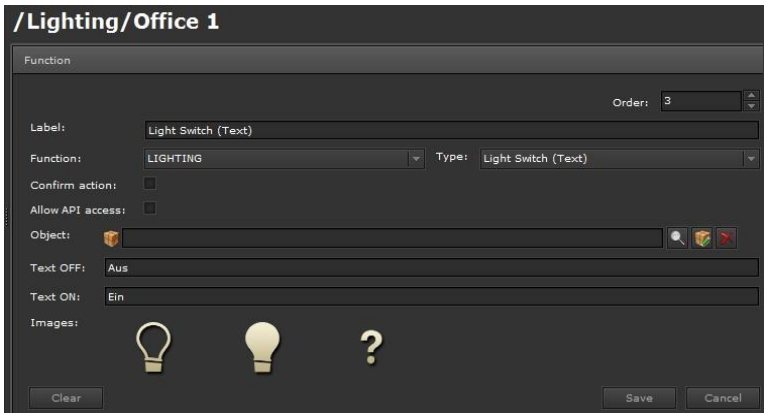
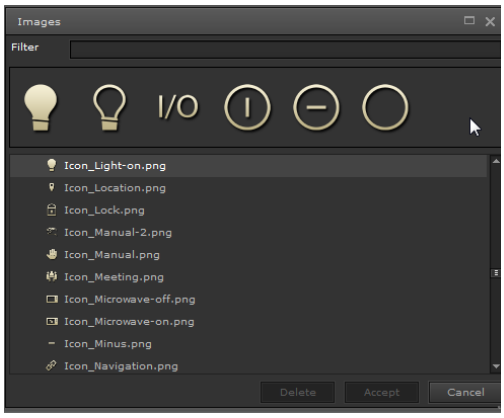
Display of the Light Desk visualization view:

Light Desk submenu:

Light Switch (Text): This element sends ON/OFF commands.

The status is updated by the correspondingly configured object or the group address. This is represented by a specific icon and a text. If no status value is received, the object remains in the "invalid" status. This is indicated by a question mark as an icon.





Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. lighting.

Type: Light Switch (Text)

Confirm action: If this function is enabled, a pop-up window for control and for status display is displayed upon direct operation. This means there is no specific selection of the submenu for control and status display on the right side of the function bar.

Allow API access: Voice control can only be used if API access is enabled. This is done by placing a check in the activation box. See chapter: 7.8.1 Voice control.

Object: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Bit DPT is permitted.

Text OFF: Display text for the value/status OFF.

Text ON: Display text for the value/status ON.

Images: Images to display the action: Off, On, invalid value. They can be changed. The IP Control Center offers a wide range of icons.

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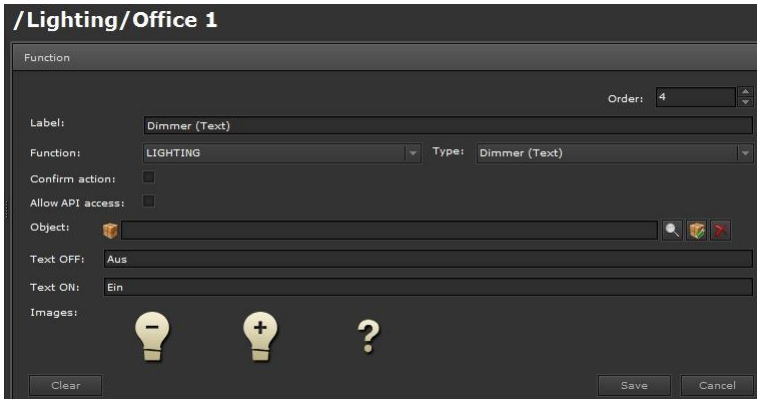
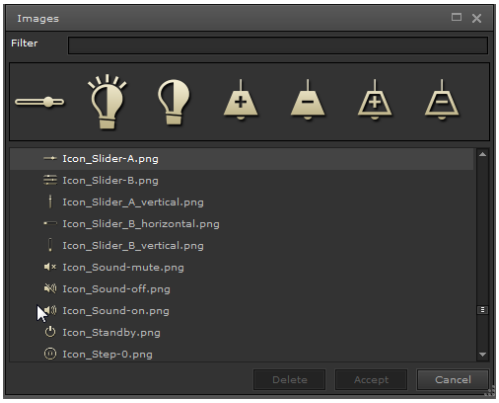
Display of the Light Switch (Text) visualization view:

Light Switch (text) submenu:

Dimmer (Text): This element sends ON/OFF commands and absolute values (0...100 %) for the dimmer function.

The dimming value is set with a slider. The status is updated by the correspondingly configured object or the group address. This is represented by a specific icon and a text. If no status value is received, the object remains in the "invalid" status. This is indicated by a question mark as an icon.





Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. lighting.

Type: Dimmer (Text)

Confirm action: If this function is enabled, a pop-up window for control and for status display is displayed upon direct operation. This means there is no specific selection of the submenu for control and status display on the right side of the function bar.

Allow API access: Voice control can only be used if API access is enabled. This is done by placing a check in the activation box. See chapter: 7.8.1 Voice control.

Object: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Byte DPT is permitted.

Text OFF: Display text for the value/status OFF, (value = 0%).

Text ON: Display text for the value/status ON (value = 100 %).

Images: Images to display the action: Off, On, invalid value. They can be changed. The IP Control Center offers a wide range of icons.

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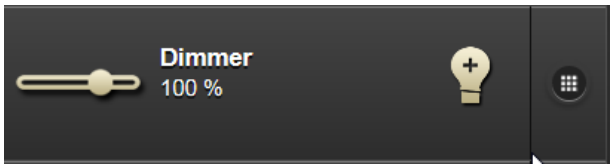
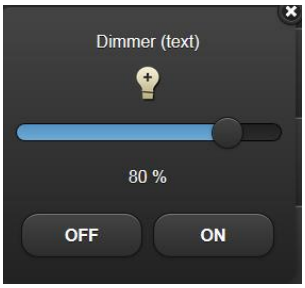
Display of the Dimmer visualization view:

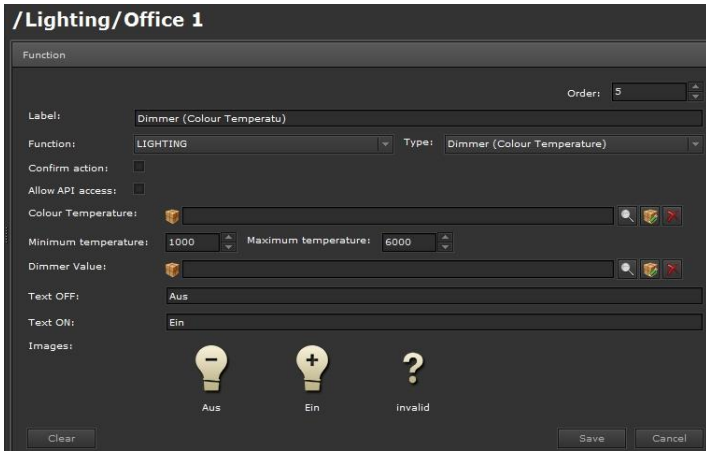


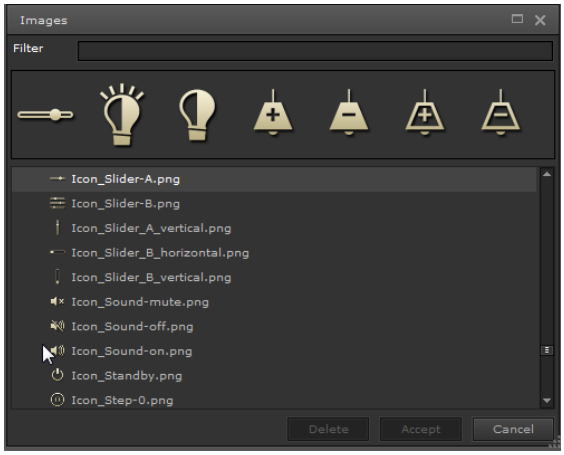
Dimmer submenu:



Dimmer (Color Temperature): This element sends ON/OFF commands and absolute values (0...100 %) for the dimmer function.

The dimming value is set with a slider. The status is updated by the correspondingly configured object or the group address. This is represented by a specific icon and a text. If no status value is received, the object remains in the “invalid” status. This is indicated by a question mark as an icon.





Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. lighting.

Type: Dimmer (Color Temperature)

Confirm action: If this function is enabled, a pop-up window for control and for status display is displayed upon direct operation. This means there is no specific selection of the submenu for control and status display on the right side of the function bar.

Allow API access: Voice control can only be used if API access is enabled. This is done by placing a check in the activation box. See chapter: 7.8.1 Voice control.

Color Temperature: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Byte DPT is permitted.

Minimum temperature: The minimum adjustable color temperature in °Kelvin.

Maximum temperature: The maximum adjustable color temperature in °Kelvin.

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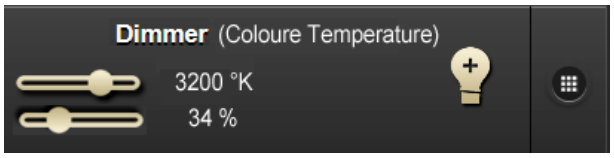
Dimmer value: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Byte DPT is permitted.

Text OFF: Display text for the value/status OFF, (value = 0%).

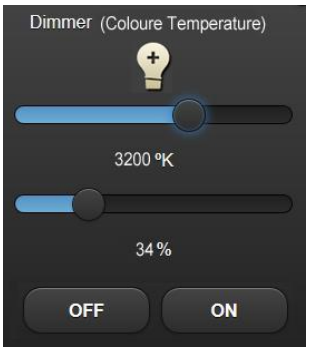
Text ON: Display text for the value/status ON (value = 100 %).

Images: Images to display the action: Off, On, invalid value. They can be changed. The IP Control Center offers a wide range of icons.

Display of the Dimmer (Color Temperature) visualization view:



Dimmer (Color Temperature) submenu:



RGB Light: This element sends 3 x absolute values (0...100 %), 3 x 1 Byte, for RGB light control. A special light color control system is available for setting the color, the brightness and the saturation. The status is updated by the correspondingly configured object or the group address. If no status value is received, the object remains in the “invalid” status. This is indicated by a question mark as an icon.

Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. lighting.

Type: RGB Light

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Confirm action: If this function is enabled, a pop-up window for control and for status display is displayed upon direct operation. This means there is no specific selection of the submenu for control and status display on the right side of the function bar.

Allow API access: Voice control can only be used if API access is enabled. This is done by placing a check in the activation box. See chapter: 7.8.1 Voice control.

DPT: Datapoint selection.

DPT 232.600 (RGB as 3 Byte value)
DPT 7.600 (color temperature)
DPT 251.600 (RGBW as 6 Byte value)

Red channel: Link to a communication object, a virtual object or a group address to control the color red. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Byte DPT is permitted.

Green channel: Link to a communication object, a virtual object or a group address to control the color green. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Byte DPT is permitted.

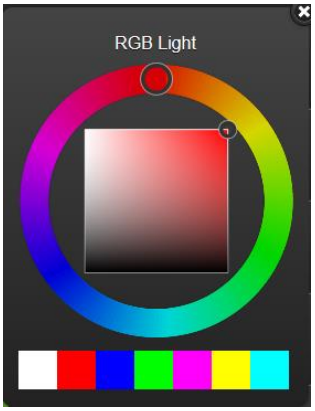
Blue channel: Link to a communication object, a virtual object or a group address to control the color blue. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Byte DPT is permitted.

Predefined colors: 7 colors can be predefined directly. They can be set by means of a color schema or color code. These colors are available in the visualization view in the RGB element for direct color settings.

Images: Image to display: invalid value. It can be changed. The IP Control Center offers a wide range of icons.

Display of the RGB Light visualization view:

RGB Light submenu:



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RGBW Light: This element sends 4 x absolute values (0...100 %), 4 x 1 Byte, for RGBW light control. A special light color control system is available for setting the color, the brightness, the saturation and the white content. The status is updated by the correspondingly configured object or the group address. If no status value is received, the object remains in the "invalid" status. This is indicated by a question mark as an icon.

Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. lighting.

Type: RGBW Light

Confirm action: If this function is enabled, a pop-up window for control and for status display is displayed upon direct operation. This means there is no specific selection of the submenu for control and status display on the right side of the function bar.

DPT: Datapoint selection.

DPT 232.600 (RGB as 3 Byte value)
DPT 7.600 (color temperature)
DPT 251.600 (RGBW as 6 Byte value)

Red channel: Link to a communication object, a virtual object or a group address to control the color red. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Byte DPT is permitted.

Green channel: Link to a communication object, a virtual object or a group address to control the color green. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Byte DPT is permitted.

Blue channel: Link to a communication object, a virtual object or a group address to control the color blue. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Byte DPT is permitted.

White: Link to a communication object, a virtual object or a group address to control the color white. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Byte DPT is permitted.

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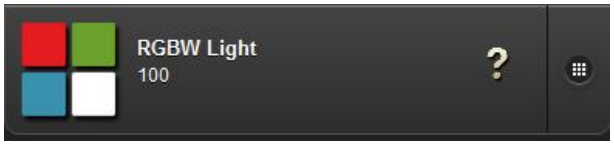
Predefined colors: 7 colors can be predefined directly. They can be set by means of a color schema or color code. These colors are available in the visualization view in the RGB element for direct color settings.

Images: Image to display: invalid value. It can be changed. The IP Control Center offers a wide range of icons.

Display of the RGBW Light visualization view:



RGBW Light submenu:

HSV Light: This element sends 3 x absolute values (color temperature 0...100 %, saturation and brightness 0...100 %). A special light color control system is available for setting the color, the brightness and the saturation. The status is updated by the correspondingly configured object or the group address. If no status value is received, the object remains in the "invalid" status. This is indicated by a question mark as an icon.

Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

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Function: Selects the function category, e.g. lighting.

Type: HSV Light

Confirm action: If this function is enabled, a pop-up window for control and for status display is displayed upon direct operation. This means there is no specific selection of the submenu for control and status display on the right side of the function bar.

Allow API access: Voice control can only be used if API access is enabled. This is done by placing a check in the activation box. See chapter: 7.8.1 Voice control.

Hue: Select the object or group address for the hue channel (values 0..360°). Applies only if hue control is enabled.

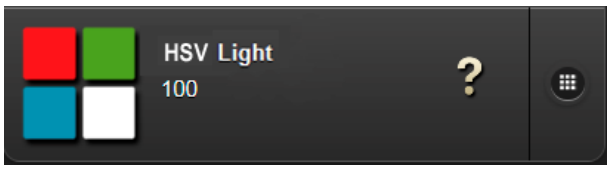
Saturation: Select the object or group address for the saturation channel (values 0..100%). Applies only if hue control is enabled.

Brightness: Select the object or group address for the brightness channel (values 0..100%). Applies only if hue control is enabled.

Predefined colors: 7 colors can be predefined directly. They can be set by means of a color schema or color code. These colors are available in the visualization view in the RGB element for direct color settings.

Images: Image to display: invalid value. It can be changed. The IP Control Center offers a wide range of icons.

Display of the HSV Light visualization view:



HSV Light submenu:

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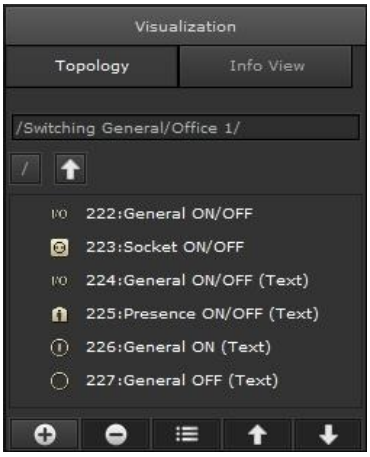
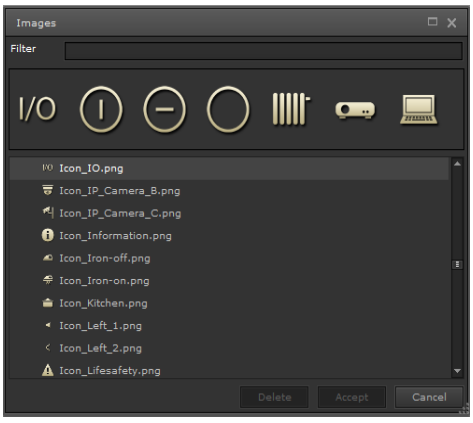
12.2.2.2 Switching general

To create functions, select the relevant folder, the page, and add a function. 6 types are available for the Switching General function.



General ON/OFF: This element sends ON/OFF commands.

The status is updated by the correspondingly configured object or the group address. This is represented by a specific icon. If no status value is received, the object remains in the "invalid" status. This is indicated by a question mark as an icon.



Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. Switching General.

Type: General ON/OFF

Confirm action: If this function is enabled, a pop-up window for control and for status display is displayed upon direct operation. This means there is no specific selection of the submenu for control and status display on the right side of the function bar.

Allow API access: Voice control can only be used if API access is enabled. This is done by placing a check in the activation box. See chapter: 7.8.1 Voice control.

Object: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Bit DPT is permitted.

Images: Images to display the action: Off, On, invalid value. They can be changed. The IP Control Center offers a wide range of icons.

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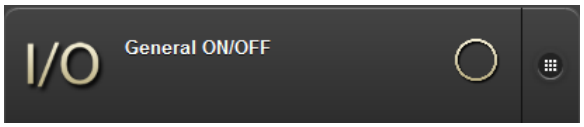
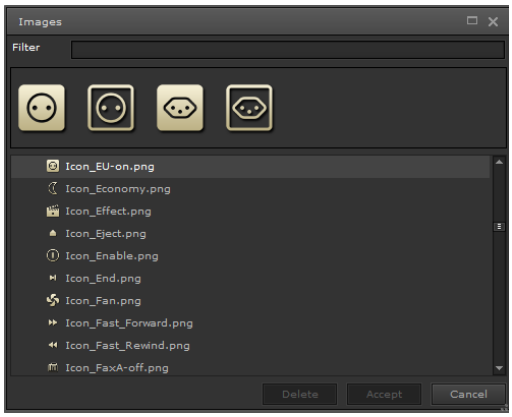
Display of the General ON/OFF visualization view:



General ON/OFF submenu:

Socket ON/OFF: This element sends ON/OFF commands.

The status is updated by the correspondingly configured object or the group address. This is represented by a specific icon. If no status value is received, the object remains in the "invalid" status. This is indicated by a question mark as an icon.



Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. Switching General.

Type: Socket ON/OFF

Confirm action: If this function is enabled, a pop-up window for control and for status display is displayed upon direct operation. This means there is no specific selection of the submenu for control and status display on the right side of the function bar.

Allow API access: Voice control can only be used if API access is enabled. This is done by placing a check in the activation box. See chapter: 7.8.1 Voice control.

Object: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Bit DPT is permitted.

Images: Images to display the action: Off, On, invalid value. They can be changed. The IP Control Center offers a wide range of icons.

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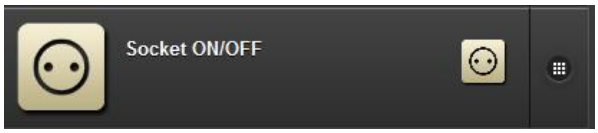
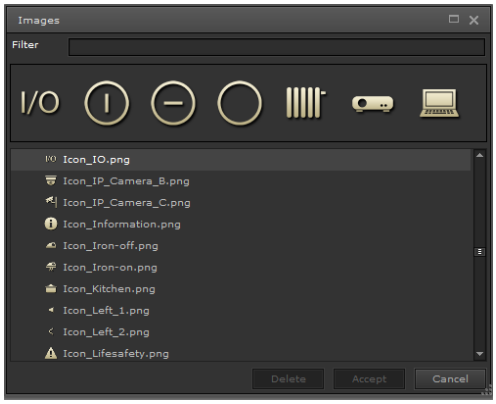
Display of the Socket ON/OFF visualization view:



Socket ON/OFF submenu:

General ON/OFF (Text): This element sends ON/OFF commands.

The status is updated by the correspondingly configured object or the group address. This is represented by a specific icon and a text. If no status value is received, the object remains in the "invalid" status. This is indicated by a question mark as an icon.



Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. Switching General.

Type: General ON/OFF(Text)

Confirm action: If this function is enabled, a pop-up window for control and for status display is displayed upon direct operation. This means there is no specific selection of the submenu for control and status display on the right side of the function bar.

Allow API access: Voice control can only be used if API access is enabled. This is done by placing a check in the activation box. See chapter: 7.8.1 Voice control.

Object: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Bit DPT is permitted.

Text OFF: Display text for the value/status OFF.

Text ON: Display text for the value/status ON.

Images: Images to display the action: Off, On, invalid value. They can be changed. The IP Control Center offers a wide range of icons.

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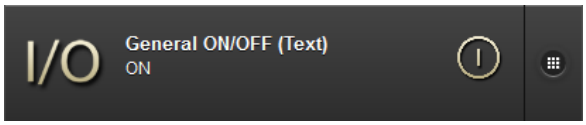
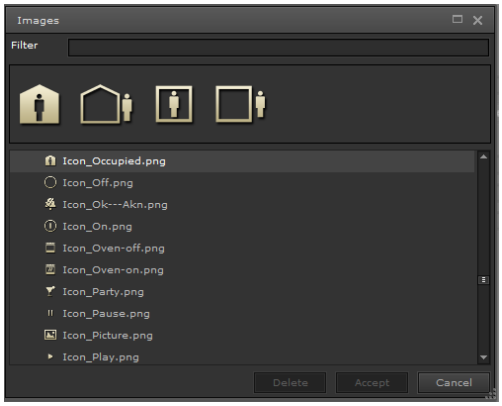
Display of the General ON/OFF (Text) visualization view:



General ON/OFF (Text) submenu:

Presence ON/OFF (Text): This element sends ON/OFF commands.

The status is updated by the correspondingly configured object or the group address. This is represented by a specific icon and a text. If no status value is received, the object remains in the "invalid" status. This is indicated by a question mark as an icon.



Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. Switching General.

Type: Presence ON/OFF (Text)

Confirm action: If this function is enabled, a pop-up window for control and for status display is displayed upon direct operation. This means there is no specific selection of the submenu for control and status display on the right side of the function bar.

Allow API access: Voice control can only be used if API access is enabled. This is done by placing a check in the activation box. See chapter: 7.8.1 Voice control.

Object: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Bit DPT is permitted.

Text OFF: Display text for the value/status OFF.

Text ON: Display text for the value/status ON.

Images: Images to display the action: Off, On, invalid value. They can be changed. The IP Control Center offers a wide range of icons.

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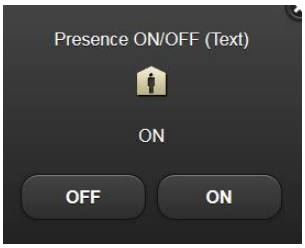
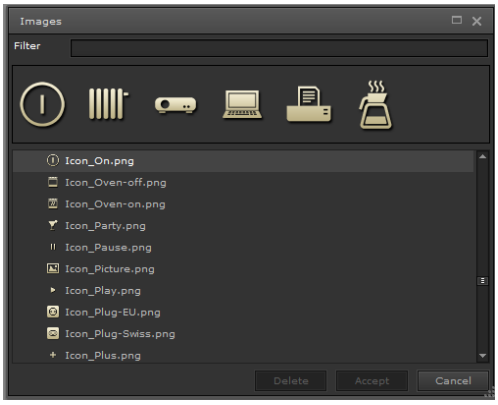
Display of the Presence ON/OFF (Text) visualization view:

Presence ON/OFF (Text) submenu:



General ON (Text): This element sends ON commands.



Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. Switching General.

Type: General ON (Text)

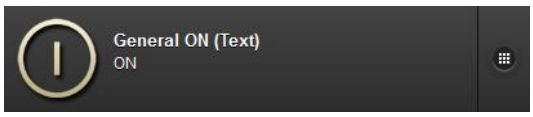
Confirm action: If this function is enabled, a pop-up window for control and for status display is displayed upon direct operation. This means there is no specific selection of the submenu for control and status display on the right side of the function bar.

Allow API access: Voice control can only be used if API access is enabled. This is done by placing a check in the activation box. See chapter: 7.8.1 Voice control.

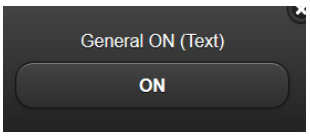
Object: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Bit DPT is permitted.

Text: Display text for the value ON.

Display of the General ON (Text) visualization view:



General ON (Text) submenu:



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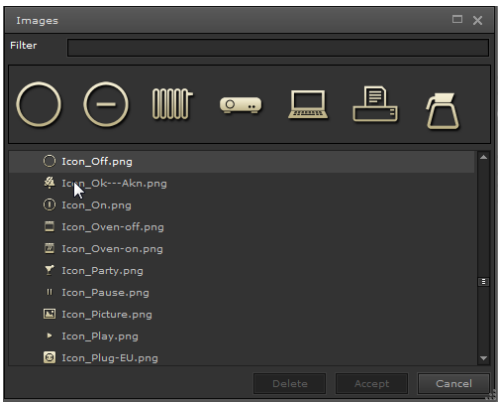
General OFF (Text): This element sends OFF commands.



Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. Switching General.

Type: General OFF (Text)

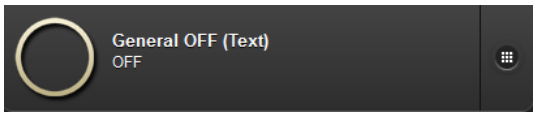
Confirm action: If this function is enabled, a pop-up window for control and for status display is displayed upon direct operation. This means there is no specific selection of the submenu for control and status display on the right side of the function bar.

Allow API access: Voice control can only be used if API access is enabled. This is done by placing a check in the activation box. See chapter: 7.8.1 Voice control.

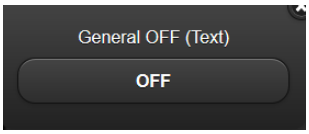
Object: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Bit DPT is permitted.

Text: Display text for the value OFF.

Display of the General OFF (Text) visualization view:



General OFF (Text) submenu:



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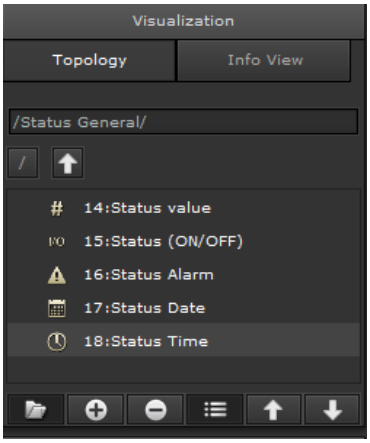
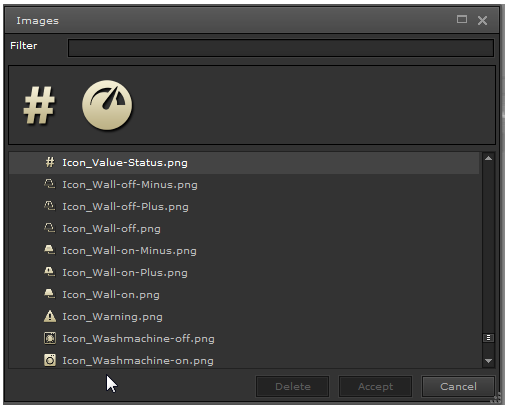
12.2.2.3 Status General

To create functions, select the relevant folder, the page, and add a function.
5 types are available for the Status General function.



Status Value: This element displays a status value.

The status is updated by the correspondingly configured object or the group address. If no status value is received, the object remains in the "invalid" status. This is indicated by a question mark as an icon.



Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. Status General.

Type: Status value

Object: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. All DPTs are permitted.

Unit: The value unit to be displayed is entered here.

Images: Image to display the action: invalid value. They can be changed. The IP Control Center offers a wide range of icons.

Display of the Status Value visualization view:

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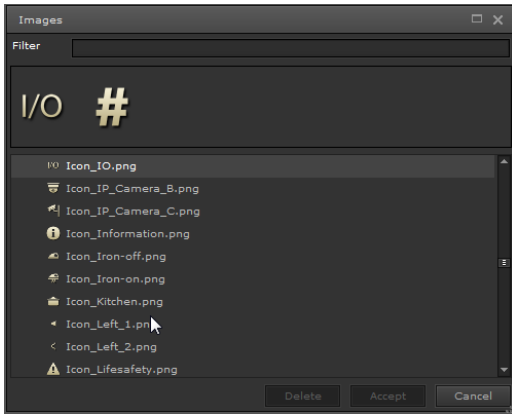
STATUS (ON/OFF): This element displays the status value On or Off.

The status is updated by the correspondingly configured object or the group address. This is represented by a specific icon. If no status value is received, the object remains in the "invalid" status. This is indicated by a question mark as an icon.



Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

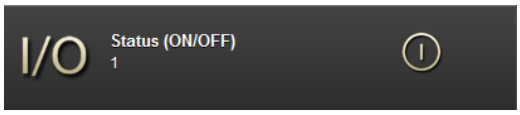
Function: Selects the function category, e.g. Status General.

Type: Status (ON/OFF)

Object: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Bit DPT is permitted.

Images: Images to display the action: Off, On, invalid value. They can be changed. The IP Control Center offers a wide range of icons.

Display of the Status (ON/OFF) visualization view:



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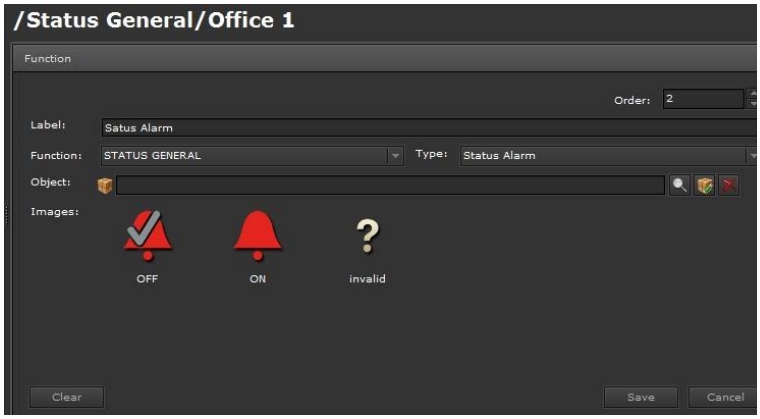
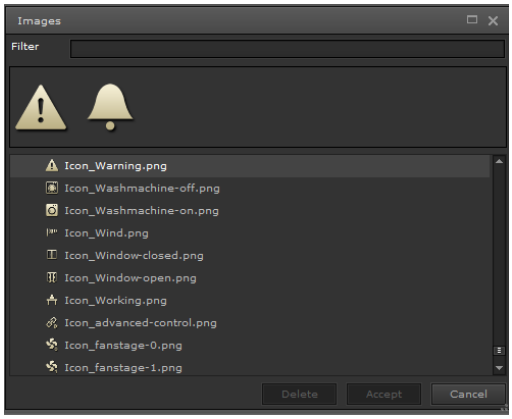
STATUS ALARM: This element displays the alarm status value On or Off.

The status is updated by the correspondingly configured object or the group address. This is represented by a specific icon. If no status value is received, the object remains in the “invalid” status. This is indicated by a question mark as an icon.





Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

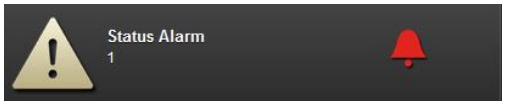
Function: Selects the function category, e.g. Status General.

Type: Alarm status

Object: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Bit DPT is permitted.

Images: Images to display the action: Off, On, invalid value. They can be changed. The IP Control Center offers a wide range of icons.

Display of the Status Alarm visualization view:



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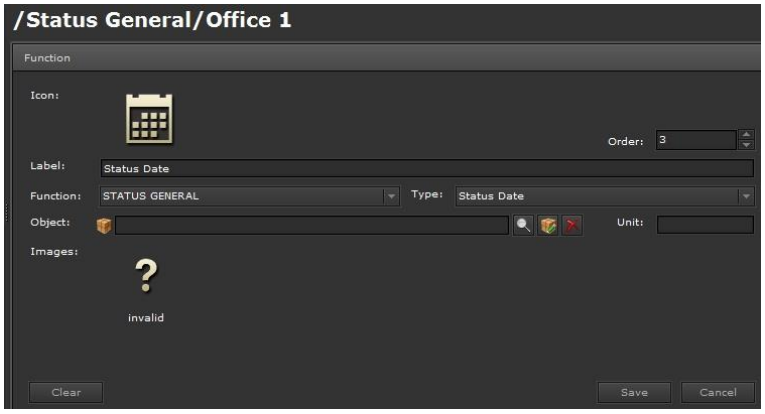
STATUS DATE: This element displays the date in the format YYYY-MM-DD. The date is updated by the correspondingly configured object or the group address. If no status value is received, the object remains in the "invalid" status. This is indicated by a question mark as an icon.



Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. Status General.

Type: Date display

Object: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The Date DPT is permitted.

Unit: The value unit to be displayed is entered here.

Images: Image to display the action: invalid value. They can be changed. The IP Control Center offers a wide range of icons.

Display of the Status Date visualization view:

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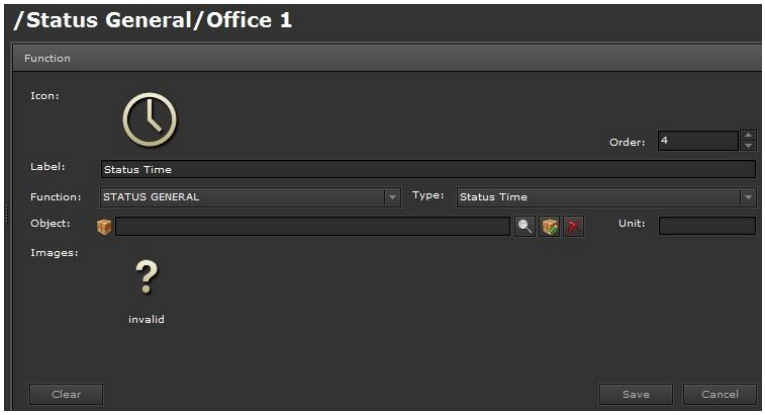
STATUS TIME: This element displays the time in the format day of the week, HH:MM. The time is updated by the correspondingly configured object or the group address. If no status value is received, the object remains in the "invalid" status. The status is indicated by a question mark as an icon.



Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. Status General.

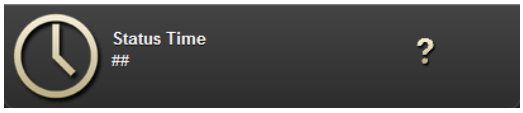
Type: Time display

Object: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The Time DPT is permitted.

Unit: The value unit to be displayed is entered here.

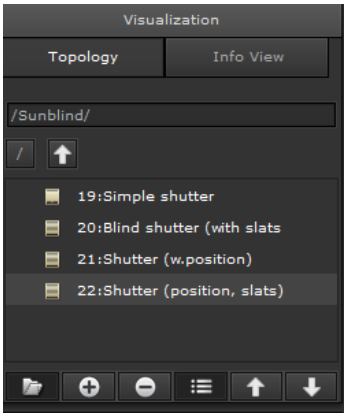
Images: Image to display the action: invalid value. They can be changed. The IP Control Center offers a wide range of icons.

Display of the Status Time visualization view:



12.2.2.4 Solar Protection

To create functions, select the relevant folder, the page, and add a function.
4 types are available for the Sun Protection function:



Simple shutter: This element sends the commands UP and DOWN to a correspondingly configured object or the group address. In addition, this element sends a Stop command to a correspondingly configured object or the group address. These control buttons are represented by specific icons.

Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. sun protection.

Type: Simple shutter

Allow API access: Voice control can only be used if API access is enabled. This is done by placing a check in the activation box. See chapter: 7.8.1 Voice control.

Stop blind: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Bit DPT is permitted.

Shutter Movement: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Bit DPT is permitted.

Images: Images to display the action: Up, Down, Stop value. They can be changed. The IP Control Center offers a wide range of icons.

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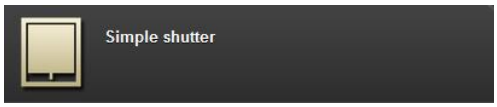
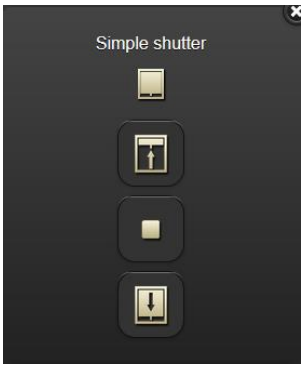
Display of the Simple shutter visualization view:



Simple shutter submenu:



Blind shutter (slats): This element sends the commands UP and DOWN to a correspondingly configured object or the group address. In addition, this element sends a Stop command or the Blind up or Blind Down command to a correspondingly configured object or the group address. These control buttons are represented by specific icons.

Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. sun protection.

Type: Blinds

Stop blind: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Bit DPT is permitted.

Shutter Movement: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Bit DPT is permitted.

Images: Images to display the action: Up, Down, Stop, Blind up, Blind down. They can be changed. The IP Control Center offers a wide range of icons.

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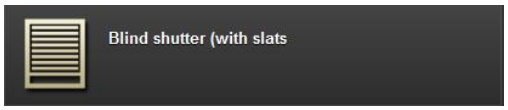
Display of the Blind shutter (with slats) visualization view:



Blind shutter (with slats) submenu:

Shutter: **(position control)**: This element sends the commands UP and DOWN to a correspondingly configured object or the group address. In addition, this element sends a Stop command to a correspondingly configured object or the group address. These control buttons are represented by specific icons. This element displays a status of the position of the hanging. The status is updated by the correspondingly configured object or the group address. This is represented by a slider.

Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. sun protection.

Type: Shutter: (position control):

Allow API access: Voice control can only be used if API access is enabled. This is done by placing a check in the activation box. See chapter: 7.8.1 Voice control.

Stop blind: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Bit DPT is permitted.

Shutter Movement: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Bit DPT is permitted.

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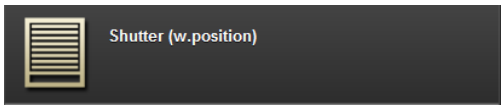
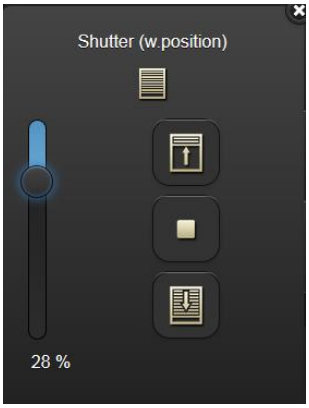
Position: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Byte DPT is permitted.

Images: Images to display the action: Up, Down, Stop. They can be changed. The IP Control Center offers a wide range of icons.

Display of the Shutter (w.position) visualization view:



Shutter (w.position) submenu:



Shutter (position/slats): This element sends the commands UP and DOWN to a correspondingly configured object or the group address. In addition, this element sends a Stop command or the Blind up or Blind Down command to a correspondingly configured object or the group address. These control buttons are represented by specific icons. This element displays a status of the position of the hanging and a status of the slat position. The status values are updated by accordingly configured objects or group addresses. These are represented by vertical sliders.

Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. sun protection.

Type: Shutter (position/slats)

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Stop blind: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Bit DPT is permitted.

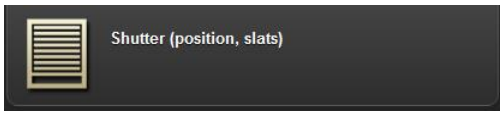
Shutter Movement: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Bit DPT is permitted.

Position: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Byte DPT is permitted.

Position of slat: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Byte DPT is permitted.

Images: Images to display the action: Up, Down, Stop, Blind up, Blind down. They can be changed. The IP Control Center offers a wide range of icons.

Display of the Shutter (position/slats) visualization view:



Shutter (position/slats) submenu:

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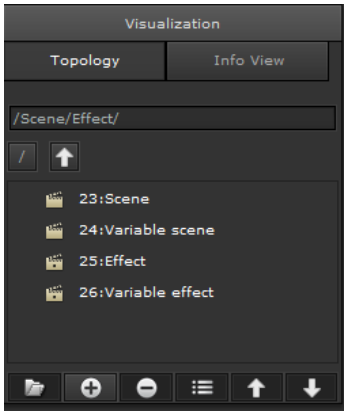
12.2.2.5 Scene/Effect

To create functions, select the relevant folder, the page, and add a function.
4 types are available for the Scene/Effect function.



SCENE: This element controls scenes via a scene number.

The scene number is sent via a correspondingly configured object or the group address. In addition, this object or group address is used to save the scene. These control buttons are represented by specific icons.

Image: A default icon matching the function type is displayed. It can be changed. The IP Control Center offers a wide range of icons. Only visible in the layout setting: “distributed”.

Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. Scene/Effect.

Type: Scene

Confirm action: If this function is enabled, a pop-up window for control is displayed upon direct operation. This means there is no specific selection of the submenu for control on the right side of the function bar.

Allow API access: Voice control can only be used if API access is enabled. This is done by placing a check in the activation box. See chapter: 7.8.1 Voice control.

Object: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Byte DPT is permitted.

Scene No.: Number of the scene to be called or saved

Images: Images to display the action: Call a scene number and save a scene. They can be changed. The IP Control Center offers a wide range of icons.

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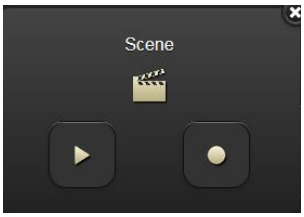
Display of the Scene visualization view:

Scene submenu:



Variable Scene: This element controls the various scenes via their scene numbers. The scene numbers are sent via a correspondingly configured object or the group address. In addition, this object or group address is used to save the scenes. These control buttons are represented by specific icons.

Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. Scene/Effect.

Type: Variable Scene

Object: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Byte DPT is permitted.

Images: Images to display the action: Call scene numbers and save scenes. They can be changed. The IP Control Center offers a wide range of icons.

Values: The relevant scene numbers are selected in this field. 64 scenes can be used. A suitable scene name is entered in the "Label" field. All scenes saved with an entry in the text field are displayed for selection in the visualization view with their scene name.

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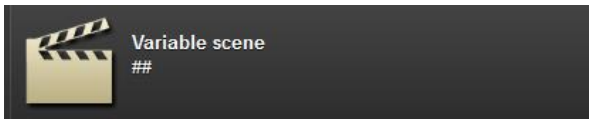
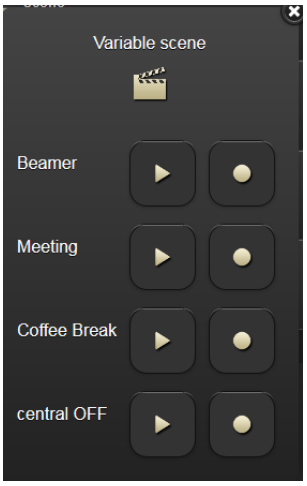
Display of the Variable scene visualization view:



Variable scene submenu:



Effect: This element controls an effect via an effect number. The effect number is started via a correspondingly configured object or the group address. In addition, this object or group address is used to pause the effect. These control buttons are represented by specific icons.

Image: A default icon matching the function type is displayed. It can be changed. The IP Control Center offers a wide range of icons.

Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. Scene/Effect.

Type: Effect

Confirm action: If this function is enabled, a pop-up window for control is displayed upon direct operation. This means there is no specific selection of the submenu for control on the right side of the function bar.

Object: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Byte DPT is permitted.

Effect No.: Number of the effect to be started or stopped.

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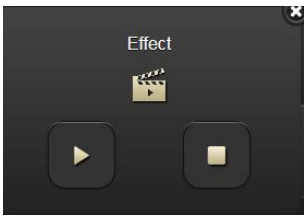
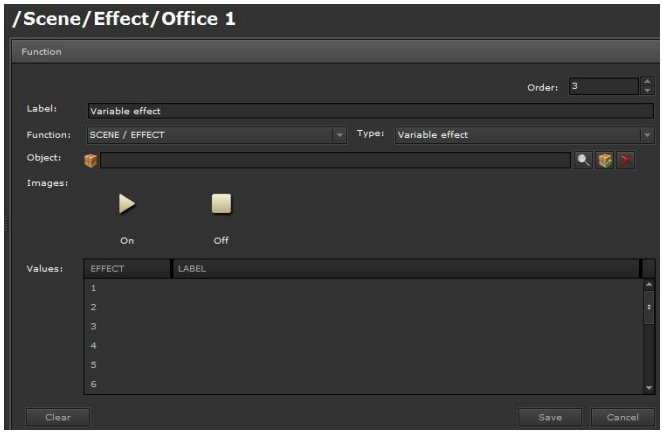
Images: Images to display the action: Start an effect and stop an effect. They can be changed. The IP Control Center offers a wide range of icons.

Display of the Effect visualization view:

Effect submenu:



Variable effect: This element controls various effects via their effect numbers. The effect numbers are started via a correspondingly configured object or the group address. In addition, this object or group address is used to stop the effects. These control buttons are represented by specific icons.



Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. Scene/Effect.

Type: Variable effect

Object: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Byte DPT is permitted.

Images: Images to display the action: Start the effect number and stop the effects. They can be changed. The IP Control Center offers a wide range of icons.

Values: The relevant effect number are selected in this field. 16 effects can be used. A suitable effect name is entered in the "Label" field. All effects saved with an entry in the text field are displayed for selection in the visualization view with their effect name.

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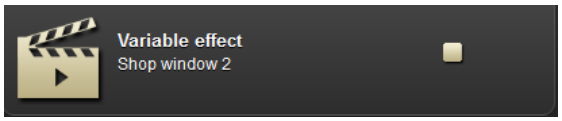
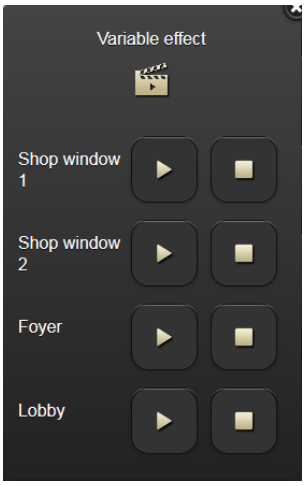
Display of the Variable effect visualization view:



Variable effect submenu:



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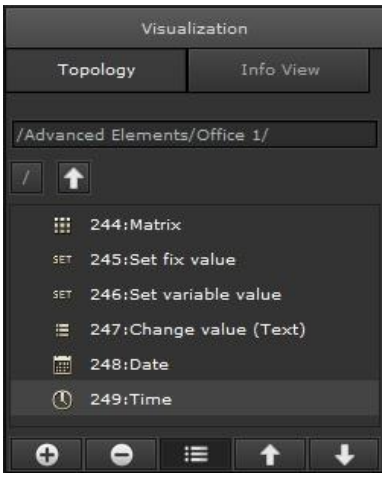
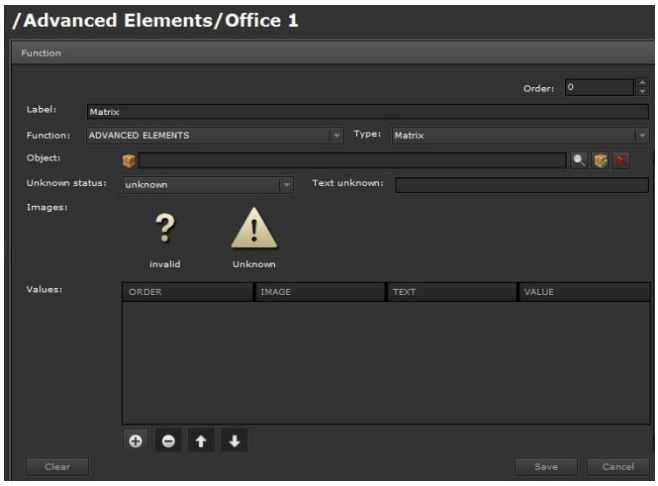
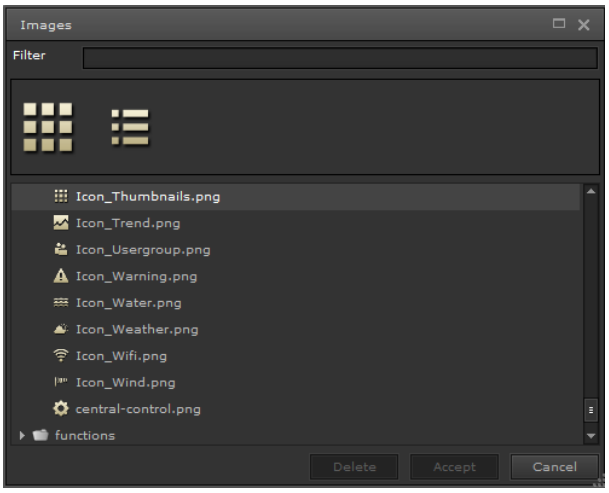
12.2.2.6 Advanced elements

To create functions, select the relevant folder, the page, and add a function. 6 types are available for the Advanced Elements function.



MATRIX: This element sends various values on the basis of a predefined list. This list specifies the position, the image matching the entry, a specific text for the entry and the actual sending value. The selected value is transmitted via the linked object or the group address. The status is updated by the correspondingly configured object or the group address. If no status value is received, the object remains in the "invalid" status. This is indicated by a question mark as an icon. If the received status value does not match any value on the list, a predefined status can be displayed. The following are available: "unknown", "*upper range*", "*lower range*", "*no display*" and "*next value*".





Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. Advanced elements.

Type: Matrix

Object: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. All DPTs are supported.

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Unknown status: If the received status value is not on the predefined list, the following can be defined:

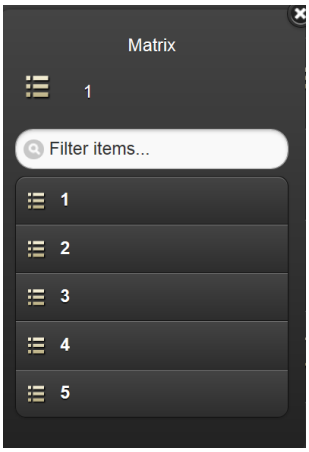
- **Unknown:** A corresponding image is displayed, and a display text can be defined.
- **Higher range:** The higher value in the list is displayed.
- **Lower range:** The bottom value in the list is displayed.
- **No display:** Nothing is displayed.
- **Next value:** The next value on the list is displayed.

Images: Image to display: invalid value or unknown value. They can be changed. The IP Control Center offers a wide range of icons.

Values: This field is used to enter the various values on a list. 20 entries can be defined. For every value entry, it is possible to set a relevant image and define a suitable text. All entries are saved in the visualization view with their corresponding image and text.

Display of the Matrix visualization view:

Matrix submenu:



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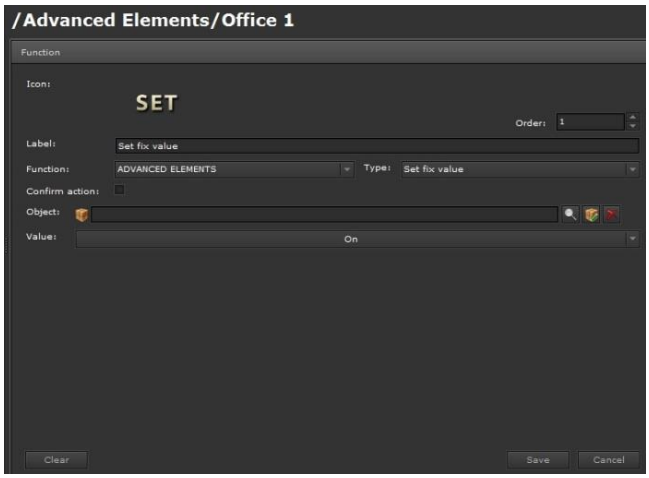
Set fix value: This element sends a fixed value. In terms of its value range, this value depends on the assigned datapoint type of the linked object or the group address.



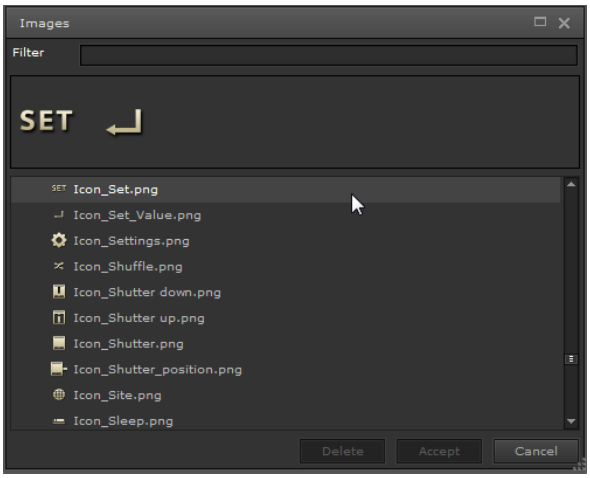


Image: An icon matching the function type can be selected. The IP Control Center offers a wide range of icons.

Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. Advanced elements.

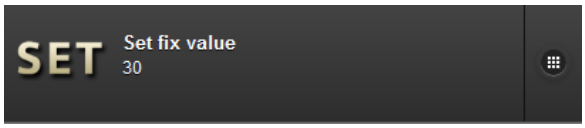
Type: Set fix value

Confirm action: If this function is enabled, a pop-up window for control is displayed upon direct operation. This means there is no specific selection of the submenu for control on the right side of the function bar.

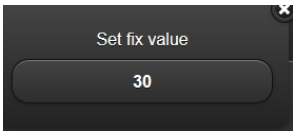
Object: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. All DPTs are supported.

Value: The value to be sent is set in this field.

Display of the Set fix value visualization view:



Set fix value submenu:



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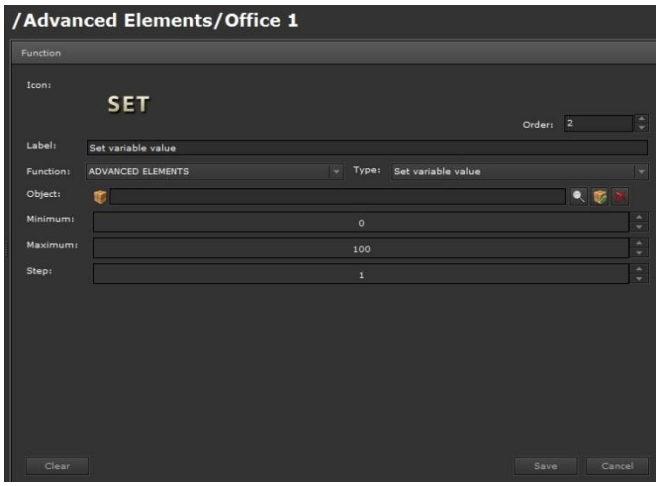
Set variable value: This element sends an adjustable analog value. The increments for setting the analog value can be set. In terms of its value range, this analog value depends on the assigned datapoint type of the linked object or the group address. Within this value range a minimum value and a maximum value can be used to define the range limits. Values are only sent if they are within these range limits.



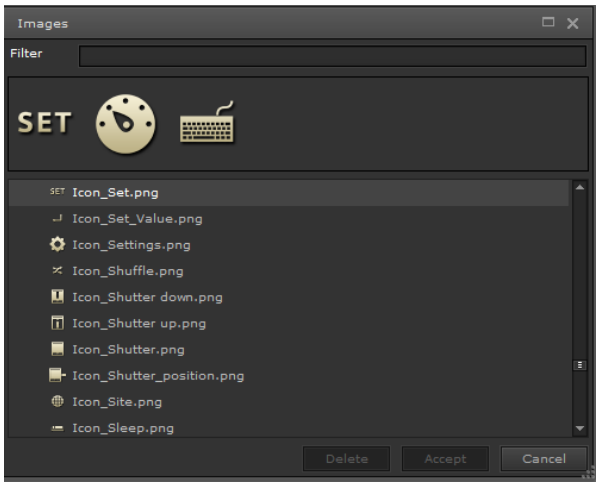


Image: An icon matching the function type can be selected. The IP Control Center offers a wide range of icons.

Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. Advanced elements.

Type: Set variable value

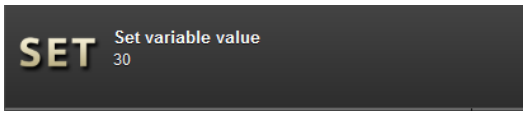
Object: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 4 bit, 1 Byte, 2 Byte, 4 Byte DPTs are supported.

Minimum: Minimum value of the value range to be sent.

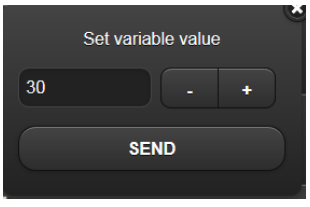
Maximum: Maximum value of the value range to be sent.

Step: Adjustable step size for increasing or reducing the analog value to be sent.

Display of the Set variable value visualization view:



Set variable value submenu:



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Change value (Text): This element switches between two fixed values. In terms of their value range, these values depend on the assigned datapoint type of the linked object or the group address.

Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. Advanced elements.

Type: Change value (Text).

Allow API access: Voice control can only be used if API access is enabled. This is done by placing a check in the activation box. See chapter: 7.8.1 Voice control.

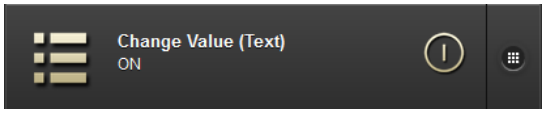
Confirm action: If this function is enabled, a pop-up window for control is displayed upon direct operation. This means there is no specific selection of the submenu for control on the right side of the function bar.

Object: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. All DPTs are supported.

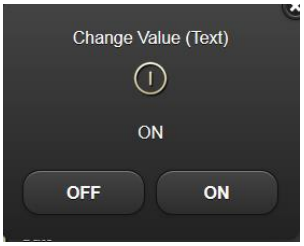
- **Value 1:** The first value to be sent is set in this field.
- **Value 2:** The second value to be sent is set in this field.
- **Text 1:** Enter a description text for the first value to be sent.
- **Text 2:** Enter a description text for the second value to be sent.

Images to display the action: Send first value, Send second value, Invalid value. They can be changed. The IP Control Center offers a wide range of icons.

Display of the Change Value (Text) visualization view:



Change value (Text) submenu:



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DATE: This element displays the date value. The date is updated by the correspondingly configured object or the group address.

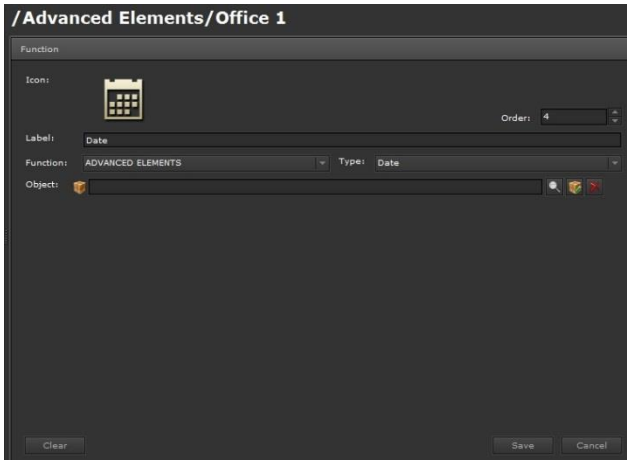
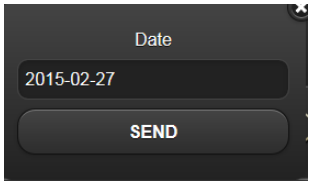


Image: An icon matching the function type can be selected. The IP Control Center offers a wide range of icons.
Label: A meaningful function description can be entered.
Order: This is the position of the function within the control page.
Function: Selects the function category, e.g. Advanced elements.
Type: Date
Object: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The Date DPT is supported.

Display of the Date visualization view:

Date submenu:



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Time: This element displays the time value. The time is updated by the correspondingly configured object or the group address.

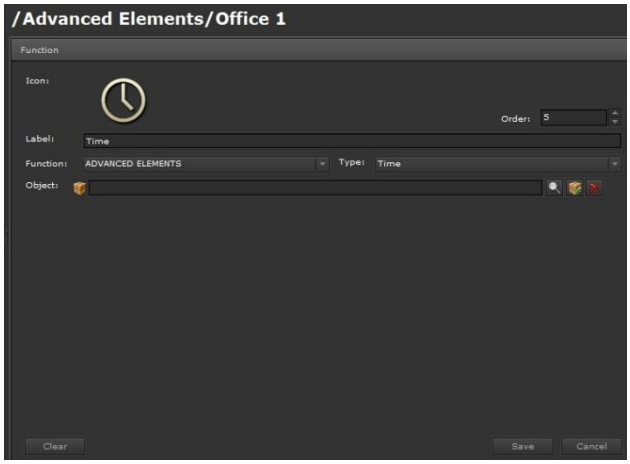
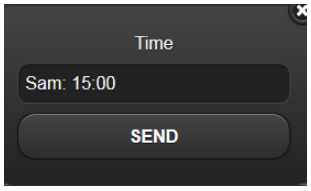


Image: An icon matching the function type can be selected. The IP Control Center offers a wide range of icons.
Label: A meaningful function description can be entered.
Order: This is the position of the function within the control page.
Function: Selects the function category, e.g. Advanced elements
Type: Time
Object: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The Time DPT is supported.

Display of the Time visualization view:

Time submenu:



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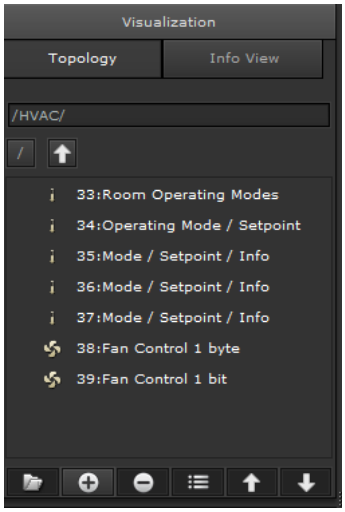
12.2.2.7 HVAC

To create functions, select the relevant folder, the page, and add a function. 7 types are available for the HVAC function.



Operating Modes: This element is used to control the room temperature. The room operating mode or automatic mode is set. The corresponding value is transmitted via the linked 1 Byte object or the group address. If no status value is received, the object remains in the "invalid" status. This is indicated by a question mark as an icon.
This element displays the current room temperature. The received measurement value is updated via the linked 2 Byte float object or the group address.

Label: A meaningful function description can be entered.
Order: This is the position of the function within the control page.
Function: Selects the function category, e.g. HVAC.
Type: Operating Modes.
Confirm action: If this function is enabled, a pop-up window for control is displayed upon direct operation. This means there is no specific selection of the submenu for control on the right side of the function bar.

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Operating mode: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Byte DPT is supported. The following values are transmitted for the operating mode change:

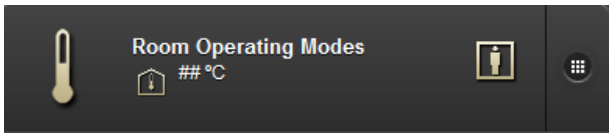
- Automatic mode (value = 0)
- Comfort mode (value = 1)
- Pre-comfort mode (value = 2)
- Energy-saving mode (value = 3)
- Protective mode (value = 4)

If a value other than 0...4 is received, the most recently active operating mode is maintained.

Current temperature: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 2 Byte float DPT is supported. The current room temperature is displayed. If no object or group address is assigned, no information appears in the visualization view.

Images: Image to display: the Operating Modes or Invalid value. They can be changed. The IP Control Center offers a wide range of icons.

Display of the Operating Modes visualization view:



Operating Modes submenu:

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OP Modes/Setpoint value: This element is used to control the room temperature. The room operating mode or automatic mode is set. The corresponding value is transmitted via the linked 1 Byte object or the group address. If no status value is received, the object remains in the "invalid" status. This is indicated by a question mark as an icon. This element displays the current target temperature as received from the room temperature control. The received measurement value is updated via the linked 2 Byte float object or the group address.

In addition, the element is used for temperature setpoint offset. The range limits for the setpoint offset can be set with a minimum value and a maximum value. In addition, it is possible to define the step size for the setting of the setpoint offset. The corresponding value is transmitted via the linked 2 Byte float object or the group address. This element displays the current room temperature. The received measurement value is updated via the linked 2 Byte float object or the group address.

Image: An icon matching the function type can be selected. The IP Control Center offers a wide range of icons. Only visible in the layout setting: "distributed".

Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. HVAC.

Type: OP Modes/Setpoint value

Confirm action: If this function is enabled, a pop-up window for control is displayed upon direct operation. This means there is no specific selection of the submenu for control on the right side of the function bar.

Operating mode: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Byte DPT is supported. The following values are transmitted for the operating mode change:

- Automatic mode (value = 0)
- Comfort mode (value = 1)
- Pre-comfort mode (value = 2)
- Energy-saving mode (value = 3)
- Protective mode (value = 4)

If a value other than 0...4 is received, the most recently active operating mode is maintained.

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Setpoint: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 2 Byte float DPT is supported. The value content for the room temperature setpoint is received and displayed. If no object or group address is assigned, no information appears in the visualization view.

Setpoint offset: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 2 Byte float DPT is supported. The set setpoint offset is transmitted.

Step: The step size for changing the setpoint offset is set here.

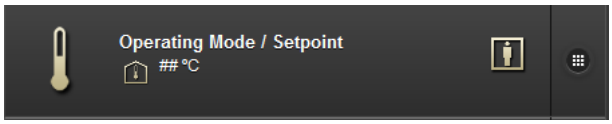
Minimum value: Sets the bottom range limit within which the setpoint offset can be performed.

Maximum value: Sets the upper range limit within which the setpoint offset can be performed.

Current temperature: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 2 Byte float DPT is supported. The current room temperature is displayed.

Images: Image to display: the Operating Modes or Invalid value and for setting the Setpoint offset. They can be changed. The IP Control Center offers a wide range of icons.

Display of the Operating Mode / Setpoint visualization view:



Operating Mode / Setpoint submenu:

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Operating Modes / Setpoint Value (2 Byte Float) / **Info Controller**: This element is used to control the room temperature. The room operating mode or automatic mode is set. The corresponding value is transmitted via the linked 1 Byte object or the group address. If no status value is received, the object remains in the "invalid" status. This is indicated by a question mark as an icon. This element displays the current target temperature as received from the room temperature control. The received measurement value is updated via the linked 2 Byte float object or the group address.

In addition, the element is used for temperature setpoint offset. The range limits for the setpoint offset can be set with a minimum value and a maximum value. In addition, it is possible to define the step size for the setting of the setpoint offset. The corresponding value is transmitted via the linked 2 Byte float object or the group address. This element displays the current room temperature. The received measurement value is updated via the linked 2 Byte float object or the group address. This element displays the heating or cooling mode. The received measurement value is updated via the linked 1 bit object or the group address. If no status value is received, the object remains in the "invalid" status. This is indicated by a question mark as an icon. This element displays the relevant variable for heating and cooling mode. The received measurement value is updated via the linked 1 Byte object or the group address.

Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. HVAC.

Type: Operating Modes / Setpoint Value (2 Byte Float) / Info Controller

Confirm action: If this function is enabled, a pop-up window for control is displayed upon direct operation. This means there is no specific selection of the submenu for control on the right side of the function bar.

Allow API access: Voice control can only be used if API access is enabled. This is done by placing a check in the activation box. See chapter: 7.8.1 Voice control.

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Operating mode: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Byte DPT is supported. The following values are transmitted for the operating mode change:

- Automatic mode (value = 0)
- Comfort mode (value = 1)
- Pre-comfort mode (value = 2)
- Energy-saving mode (value = 3)
- Protective mode (value = 4)

If a value other than 0...4 is received, the most recently active operating mode is maintained.

Setpoint: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 2 Byte float DPT is supported. The value content for the room temperature setpoint is received and displayed. If no object or group address is assigned, no information appears in the visualization view.

Setpoint offset: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 2 Byte float DPT is supported. The set setpoint offset is transmitted.

Step: The step size for changing the setpoint offset is set here

Minimum value: Sets the bottom range limit within which the setpoint offset can be performed.

Maximum value: Sets the upper range limit within which the setpoint offset can be performed.

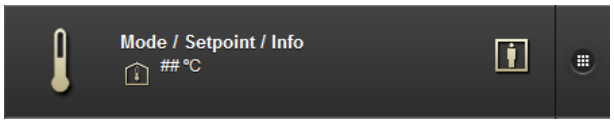
Current temperature: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 2 Byte float DPT is supported. The current room temperature is displayed. If no object or group address is assigned, no information appears in the visualization view.

Heating/cooling mode: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 bit DPT is supported. The Heating or Cooling mode is displayed. If no object or group address is assigned, no information appears in the visualization view.

Controller output: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Byte DPT is supported. The variable for heating or cooling is displayed. If no object or group address is assigned, no information appears in the visualization view.

Images: Image to display: the Operating Modes or Invalid value and for setting the Setpoint offset and Heating or Cooling mode. They can be changed. The IP Control Center offers a wide range of icons.

Display of the Operating Modes / Setpoint Value (2 Byte Float) / Info Controller visualization view:



Operating Modes / Setpoint Value (2 Byte Float) / Info Controller submenu:

07 0B IP Control Center 983501

Operating Modes / Setpoint Value (1 Bit) / **Info Controller**:

This element is used to control the room temperature. The room operating mode or automatic mode is set.
The corresponding value is transmitted via the linked 1 Byte object or the group address. If no status value is received, the object remains in the "invalid" status. This is indicated by a question mark as an icon. This element displays the current target temperature as received from the room temperature control. The received measurement value is updated via the linked 2 Byte float object or the group address.

In addition, the element is used for temperature setpoint offset. The range limits for the setpoint offset can be set with a minimum value and a maximum value. In addition, it is possible to define the step size for the setting of the setpoint offset. The corresponding value is transmitted via the linked 1 Bit object or the group address. This element displays the current room temperature. The received measurement value is updated via the linked 2 Byte float object or the group address. This element displays the heating or cooling mode. The received measurement value is updated via the linked 1 bit object or the group address. If no status value is received, the object remains in the "invalid" status. This is indicated by a question mark as an icon. This element displays the relevant variable for heating and cooling mode.
The measurement value is updated via the 1 Byte object or the group address.

Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. HVAC.

Type: Operating Modes / Setpoint Value (1 Bit) / Info Controller:

Confirm action: If this function is enabled, a pop-up window for control is displayed upon direct operation. This means there is no specific selection of the submenu for control on the right side of the function bar.

Operating mode: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Byte DPT is supported. The following values are transmitted for the operating mode change:

- Automatic mode (value = 0)
- Comfort mode (value = 1)
- Pre-comfort mode (value = 2)
- Energy-saving mode (value = 3)
- Protective mode (value = 4)

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If a value other than 0...4 is received, the most recently active operating mode is maintained.

Setpoint: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 2 Byte float DPT is supported. The value content for the room temperature setpoint is received and displayed. If no object or group address is assigned, no information appears in the visualization view.

Setpoint offset: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Bit DPT is supported. The set setpoint offset is transmitted.

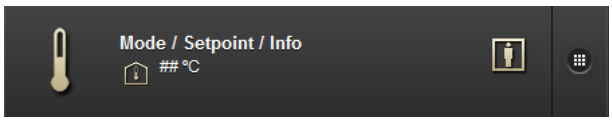
Current temperature: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 2 Byte float DPT is supported. The current room temperature is displayed. If no object or group address is assigned, no information appears in the visualization view.

Heating/cooling mode: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 bit DPT is supported. The Heating or Cooling mode is displayed. If no object or group address is assigned, no information appears in the visualization view.

Controller output: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Byte DPT is supported. The variable for heating or cooling is displayed. If no object or group address is assigned, no information appears in the visualization view.

Images: Image to display: the Operating Modes or Invalid value and for setting the Setpoint offset and Heating or Cooling mode. They can be changed. The IP Control Center offers a wide range of icons.

Display of the Operating Modes / Setpoint Value (1 Bit) / Info Controller visualization view:



Operating Modes / Setpoint Value (1 Bit) / Info Controller submenu:

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Operating Modes / Setpoint Value (1 Byte) / **Info Controller**: This element is used to control the room temperature. The room operating mode or automatic mode is set. The corresponding value is transmitted via the linked 1 Byte object or the group address. If no status value is received, the object remains in the "invalid" status. This is indicated by a question mark as an icon. This element displays the current target temperature as received from the room temperature control. The received measurement value is updated via the linked 2 Byte float object or the group address. In addition, the element is used for temperature setpoint offset. The range limits for the setpoint offset can be set with a minimum value and a maximum value. In addition, it is possible to define the step size for the setting of the setpoint offset. The corresponding value is transmitted via the linked 1 Byte object or the group address. This element displays the current room temperature. The received measurement value is updated via the linked 2 Byte float object or the group address. This element displays the heating or cooling mode. The received measurement value is updated via the linked 1 bit object or the group address. If no status value is received, the object remains in the "invalid" status. This is indicated by a question mark as an icon. This element displays the relevant variable for heating and cooling mode. The received measurement value is updated via the 1 Byte object or the group address.

Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. HVAC.

Type: Operating Modes / Setpoint Value (1 Byte) / Info Controller:

Confirm action: If this function is enabled, a pop-up window for control is displayed upon direct operation. This means there is no specific selection of the submenu for control on the right side of the function bar.

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Operating mode: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Byte DPT is supported. The following values are transmitted for the operating mode change:

- Automatic mode (value = 0)
- Comfort mode (value = 1)
- Pre-comfort mode (value = 2)
- Energy-saving mode (value = 3)
- Protective mode (value = 4)

If a value other than 0...4 is received, the most recently active operating mode is maintained.

Setpoint: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 2 Byte float DPT is supported. The value content for the room temperature setpoint is received and displayed. If no object or group address is assigned, no information appears in the visualization view.

Setpoint offset: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Byte DPT is supported. The set setpoint offset is transmitted.

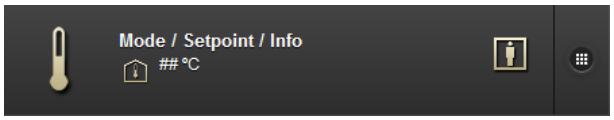
Current temperature: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 2 Byte float DPT is supported. The current room temperature is displayed. If no object or group address is assigned no information appears in the visualization view.

Heating/cooling mode: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 bit DPT is supported. The Heating or Cooling mode is displayed. If no object or group address is assigned no information appears in the visualization view.

Controller output: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Byte DPT is supported. The variable for heating or cooling is displayed. If no object or group address is assigned no information appears in the visualization view.

Images: Image to display: the Operating Modes or Invalid value and for setting the Setpoint offset and Heating or Cooling mode. They can be changed. The IP Control Center offers a wide range of icons.

Display of the Operating Modes / Setpoint Value (1 Byte) / Info Controller visualization view:



Operating Modes / Setpoint Value (1 Byte) / Info Controller submenu:

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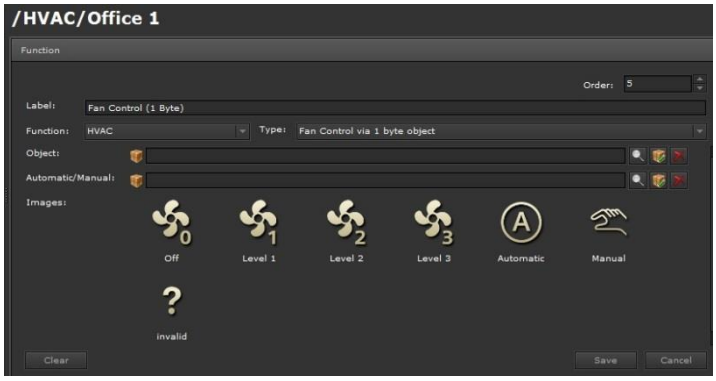
Fan Control (1 Byte): This element is used to control the fan speed for fan coil devices. The fan stage (0...3) or automatic mode is set in manual mode. The corresponding value is transmitted via the linked 1 Byte object or the group address. If no status value is received, the object remains in the "invalid" status. This is indicated by a question mark as an icon. In addition, the element is used to switch from automatic mode to manual mode and back. The corresponding value is transmitted or updated via the linked 1 bit object or the group address.



Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. HVAC.

Type: Fan Control (1 Byte)

Object: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 Byte DPT is supported. The values for the fan stages are transmitted:

- Fan OFF (value = 0)
- Fan speed 1 (value = 1)
- Fan speed 2 (value = 2)
- Fan speed 3 (value = 3)

The value content for the fan speed is received and displayed. If no object or group address is assigned, no information appears in the visualization view.

Automatic/Manual: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 bit DPT is supported. The following values are transmitted:

- Manual mode (value = 0)
- Automatic mode (value = 1)

Manual or automatic mode is displayed. If no object or group address is assigned, no information appears in the visualization view.

Images: Image to display: the Fan speeds or Invalid value and for setting Manual or Automatic mode. They can be changed. The IP Control Center offers a wide range of icons.

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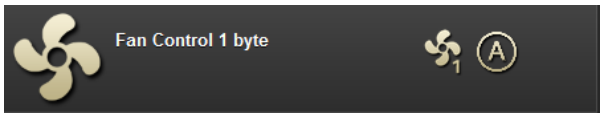
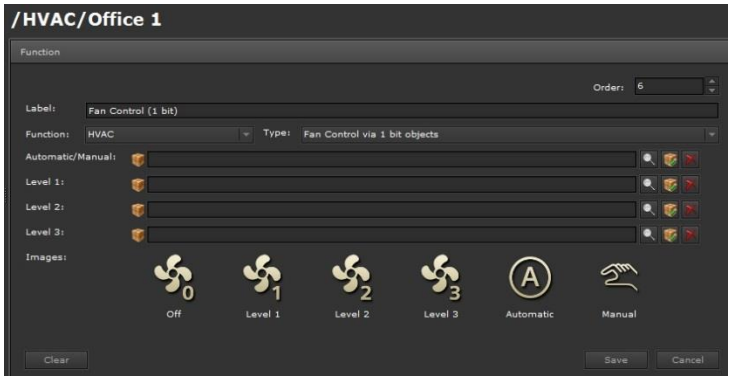
Display of the Fan Control (1 Byte) visualization view:



Fan Control (1 Byte) submenu:

Fan Control (1 bit): This element is used to control the fan speed for fan coil devices. The fan stage (0...3) or automatic mode is set in manual mode. The setting is implemented via the linked 1 bit object or the group address. If no status value is received, the object remains in the "invalid" status. This is indicated by a question mark as an icon. In addition, the element is used to switch from automatic mode to manual mode and back. The corresponding value is transmitted or updated via the linked 1 bit object or the group address.



Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. HVAC

Type: Fan Control (1 bit):

Automatic/Manual: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 bit DPT is supported. The following values are transmitted:

- Manual mode (value = 0)
- Automatic mode (value = 1)

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Manual or automatic mode is displayed. If no object or group address is assigned, no information appears in the visualization view.

Level 1: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 bit DPT is supported.

- Fan speed 1 (value = 1)

Level 2: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 bit DPT is supported.

- Fan speed 2 (value = 1)

Level 3: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. The 1 bit DPT is supported.

- Fan speed 3 (value = 1)

When there is a change from one fan speed to another fan speed, the first value is first set to "0" and then the required fan speed is set to "1".

Images: Image to display: the Fan speeds or Invalid value and for setting Manual or Automatic mode. They can be changed. The IP Control Center offers a wide range of icons.

Display of the Fan Control 1 bit visualization view:

Fan Control 1 bit submenu:

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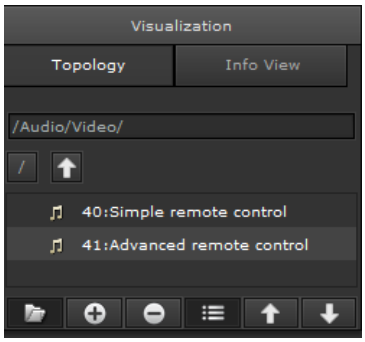
12.2.2.8 Audio/Video

To create functions, select the relevant folder, the page, and add a function.
2 types are available for the Audio/Video function.



Simple remote control: This element is used for the remote control of various basic audio/video functions. For this purpose, various values are sent via the corresponding linked object or the group address. Each basic function has its own object or group address. The DPT must be chosen individually for each function. According to this link, values are preset or can be set in the relevant value range.

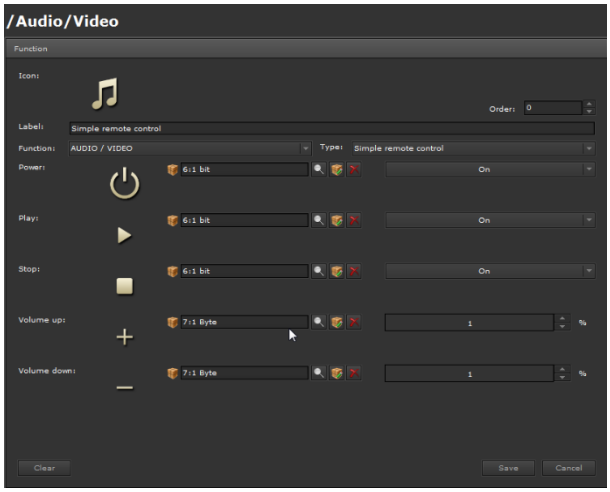


Image: An icon matching the function type can be selected. The IP Control Center offers a wide range of icons.
Only visible in the layout setting: “distributed”.

Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. Audio/Video.

Type: Simple remote control

Power: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. All DPTs are supported. Values can be set individually.

Play: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. All DPTs are supported. Values can be set individually.

Stop: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. All DPTs are supported. Values can be set individually.

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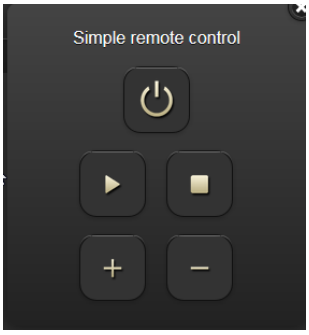
Volume up: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. All DPTs are supported. Values can be set individually.

Volume down: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. All DPTs are supported. Values can be set individually.

The images for displaying the simple audio/video functions can be changed. The IP Control Center offers a wide range of icons.

Display of the Simple remote control visualization view:

Simple remote control submenu:



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Advanced remote control: This element is used for the remote control of various audio/video (basic functions+ advanced functions). For this purpose, various values are sent via the corresponding linked object or the group address. Each function has its own object or group address. The DPT must be chosen individually for each function. According to this link, values are preset or can be set in the relevant value range.

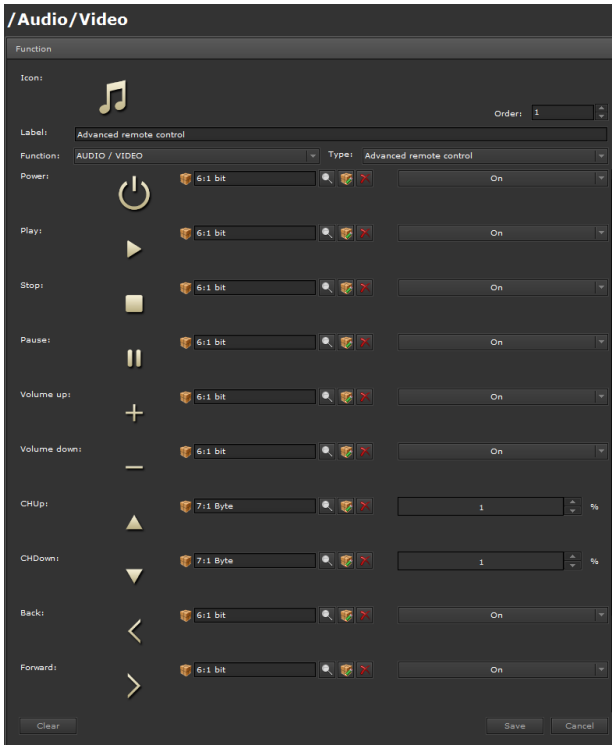

Image: An icon matching the function type can be selected. The IP Control Center offers a wide range of icons. Only visible in the layout setting: “distributed”.

Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. Audio/Video.

Type: Advanced remote control

Power: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. All DPTs are supported. Values can be set individually.

Play: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. All DPTs are supported. Values can be set individually.

Stop: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. All DPTs are supported. Values can be set individually.

Pause: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. All DPTs are supported. Values can be set individually.

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Volume up: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. All DPTs are supported. Values can be set individually.

Volume down: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. All DPTs are supported. Values can be set individually.

CHUp: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. All DPTs are supported. Values can be set individually.

CHDown: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. All DPTs are supported. Values can be set individually.

Back: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. All DPTs are supported. Values can be set individually.

Forward: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. All DPTs are supported. Values can be set individually.

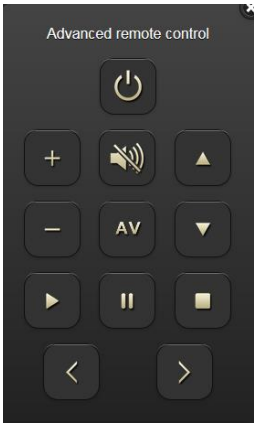
AV: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. All DPTs are supported. Values can be set individually.

Mute: Link to a communication object, a virtual object or a group address. These can be assigned by means of drag & drop from the left lower section of the smart editor. All DPTs are supported. Values can be set individually.

The images for displaying the audio/video functions can be changed. The IP Control Center offers a wide range of icons.

Display of the Advanced remote control visualization view:

Advanced remote control submenu:



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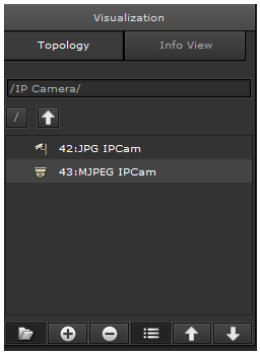
12.2.2.9 IP Camera

To create functions, select the relevant folder, the page, and add a function. 2 types are available for the IP Camera function.



JPG IPCam: This element displays images from JPG IP cameras.

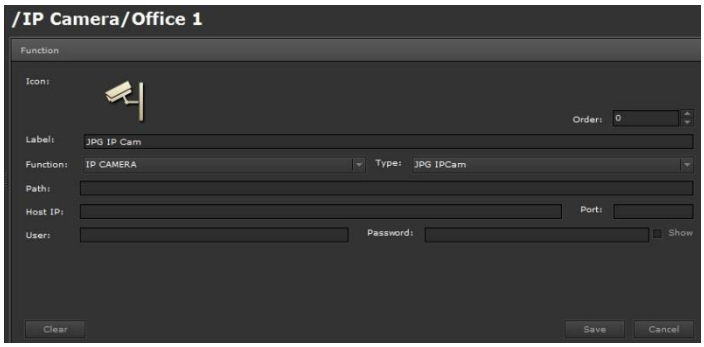
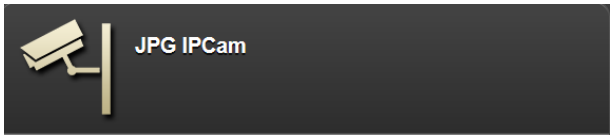


Image: An icon matching the function type can be selected. The IP Control Center offers a wide range of icons.
Label: A meaningful function description can be entered.
Order: This is the position of the function within the control page.
Function: Selects the function category, e.g. IP Camera.
Type: JPG IPCam
Path: Path setting for the camera.
Host IP: IP address set in the camera.
Port: Port assigned in the camera.
User: User name for camera access.
Password: Password for camera access. The display of the password can be switched on and off.

Display of the JPG control visualization view:



JPG IPCam submenu:

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MJPEG IPCam: This element displays images from MJPEG IP cameras.

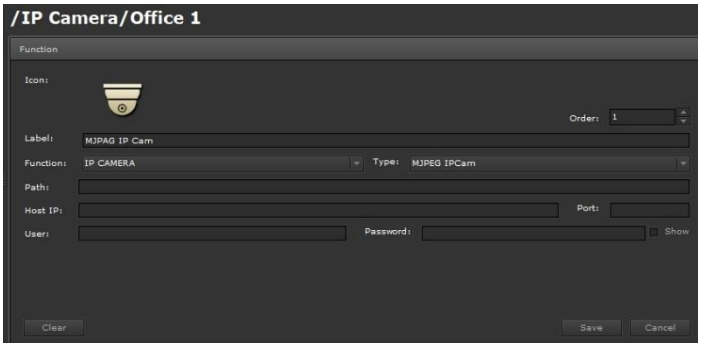
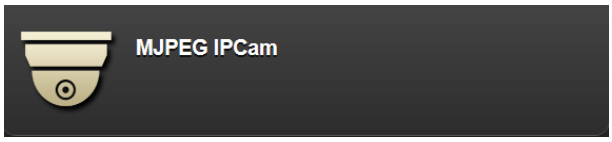


Image: An icon matching the function type can be selected. The IP Control Center offers a wide range of icons.
Label: A meaningful function description can be entered.
Order: This is the position of the function within the control page.
Function: Selects the function category, e.g. IP Camera.
Type: MJPEG IPCam
Path: Path setting for the camera.
Host IP: IP address set in the camera.
Port: Port assigned in the camera.
User: User name for camera access.
Password: Password for camera access. The display of the password can be switched on and off.

Display of the MJPEG control visualization view:



MJPEG IPCam submenu:

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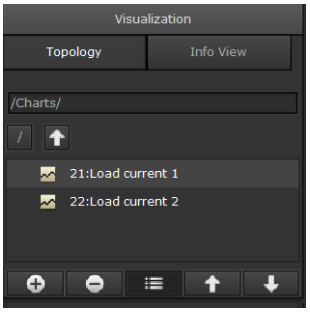
12.2.2.10Charts

To create a function, select the relevant folder, the page, and add a function.



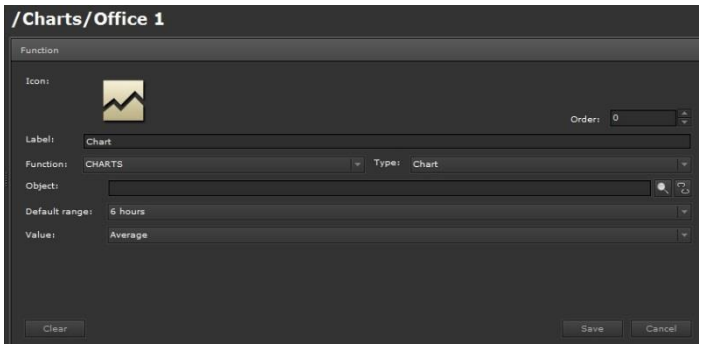


Image: An icon matching the function type can be selected. The IP Control Center offers a wide range of icons.

Label: A meaningful function description can be entered.

Order: This is the position of the function within the control page.

Function: Selects the function category, e.g. Charts.

Type: Chart

Object: Link to a communication object, a virtual object or a group address. A list appears of the datapoints already created in the Chart Module, see also chapter: 11.5.2 Displaying datapoints.

Range: Here the time range to be displayed by default is selected. Settings between one hour and one year are possible, see also chapter: 11.5.2 Displaying datapoints.

Value: Here you can choose whether an average value, the maximum value or the minimum value should be displayed, see also chapter: 11.5.2 Displaying datapoints.

Display of the Chart visualization view:

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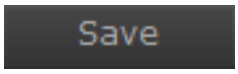
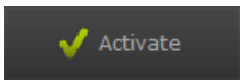
12.3 Calling the smart visualization

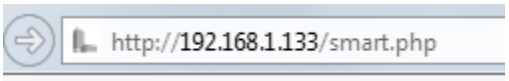
Once configuration of the smart visualization is complete, you should save it with the “Save” button:



Use the “Activate” button to generate the HTML pages:

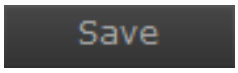


After the IP address preset in the ETS and the extension “smart.php” have been entered in the web browser, the smart visualization is called:

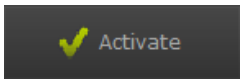


12.4 Calling the tablet visualization

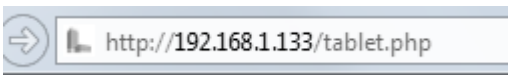
Once configuration of the tablet visualization is complete, you should save it with the “Save” button:



Use the “Activate” button to generate the HTML pages:



After the IP address preset in the ETS and the extension “tablet.php” have been entered in the web browser, the tablet visualization is called:



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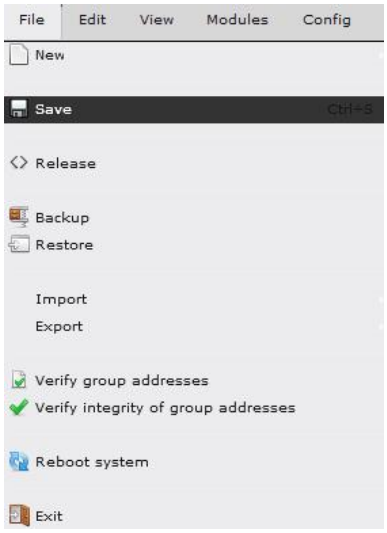
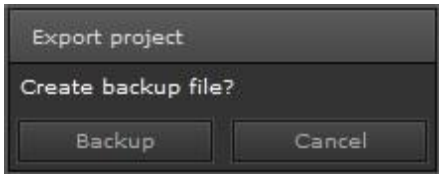
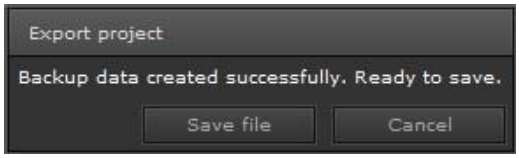
13 Backups and restores

You can use the File → Save menu item to save the current project.





The entire project (WEB editor + smart editor) is saved on the IP Control Center and can then be saved externally on the PC/laptop.



The backup is saved in a file with the ending .ipcc2. When restoring a project, please note that the entire backed-up project is restored to the IP Control Center. In the process any existing projects (WEB editor or smart editor) are overwritten. After the successful restoration of a project, the restored project is not displayed automatically. You will see the following image in the visualization:

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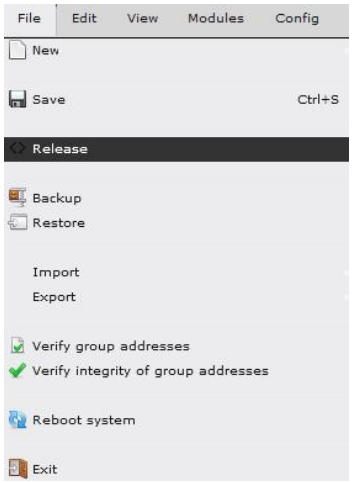
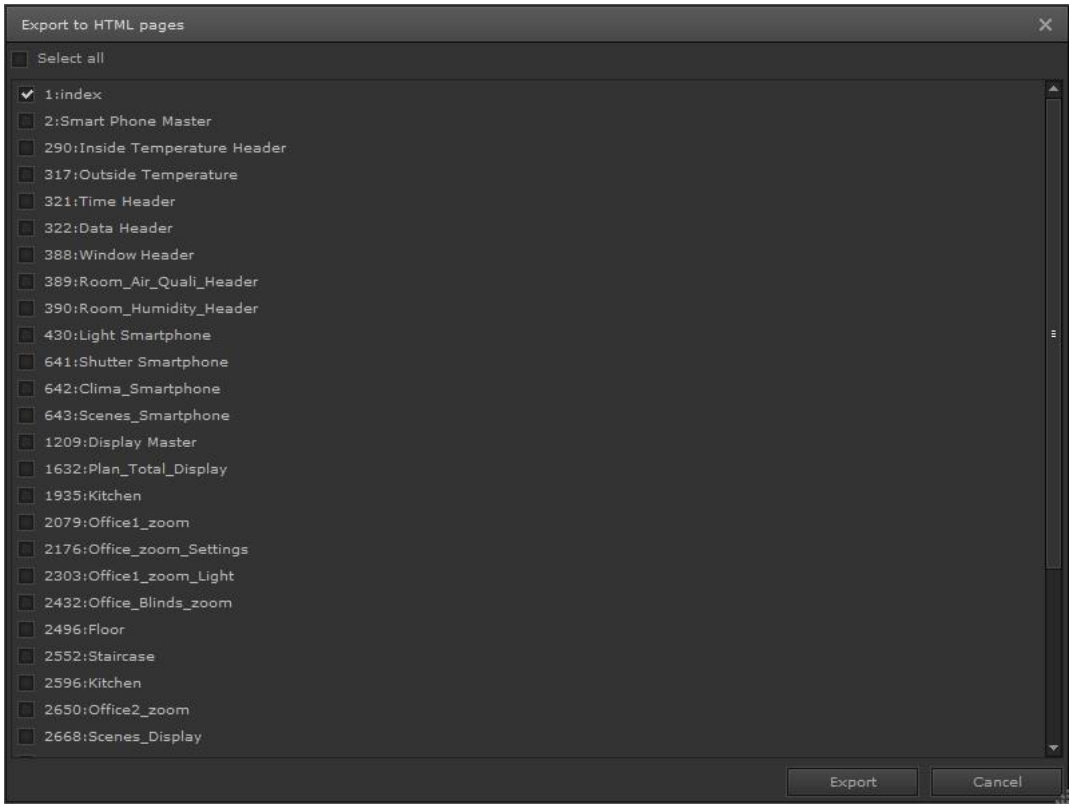
To activate the restored project, you have to generate all pages again in the editor. To do so, go to File → Release and select all HTML pages you want to generate. See chapter: 8.5.2 The file menu.





14 Master reset (KNX files)

To restore the ETS configuration data to the delivery state and thereby have the opportunity to assign new passwords with the ETS, it is possible to perform a master reset. The following steps are required:

- Supply device with 24 V voltage.
- Disconnect the KNX bus from the device.
- Press the programming button for 5 seconds until the error LED begins to flash.
- Keep holding the programming button (error LED flashes) while connecting the bus to the device.
- Release the programming button.
- The device is restarted without ETS data and with the physical address 15.15.255.

The subsequent ETS download activates the original passwords in the ETS configuration. After the ETS download, the user is prompted on the website to change the ETS passwords, see chapter: 3.2.5 Changing passwords.

Note: Please note that you have to make the security settings again as well after the master reset.

Note: A master reset does not affect the IP settings.

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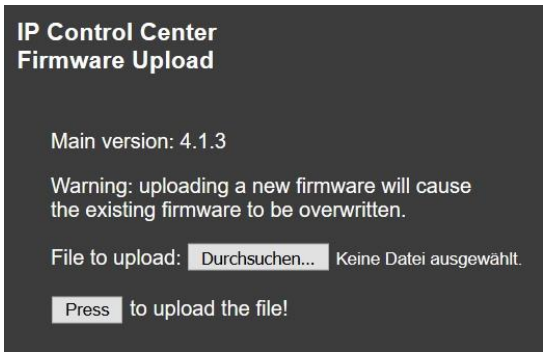
15 Firmware update

The device offers the option of updating the firmware. The upload is performed via the configuration page of the IP Control Center. See also chapter: 7 Configuration manager.

The page expects the web editor password to be entered. The default password is Siemens. A new page opens, from where the update can be performed.



The file with the update should first be saved to the desktop or an appropriate directory on the PC/laptop used.
The storage location of the file is entered directly in the command line, or found with “Search”. Use the “Press” button to perform the update.

Note: Do not switch off the PC/laptop or the IP Control Center during the update. All parallel processes on the PC/laptop should be stopped beforehand. To enable the firmware update to be loaded without error, the IP Control Center must have double the memory at the time of the update.

Example: The firmware update is 7 Mbyte in size. Accordingly, the device must have a free flash memory of 15 Mbyte available. You can check this in the connection manager “→ “General” (Flash Memory). If there is not enough flash memory available, the editor configuration data must be saved first (editor: menu File → Save) and then a reset to the default values must be performed (editor: menu Configuration → Restore Defaults). See also chapter: 8.5.2 The file menu and 8.5.6 The configuration menu.

These procedures can also be followed to load new styles to the IP Control Center or import lost icons again. A *.sty style file is available for download for this purpose. It contains all icons and elements in the corresponding styles.

Note: Please ensure that the firmware update is performed via a HTTP connection in a secure environment and not via the Internet.

Note: A firmware update to firmware version 4.1.2 is only possible from firmware version 3.1.0 or higher.

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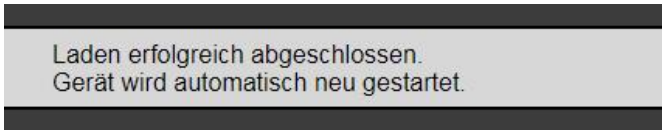
After the firmware is completed successfully, the following message is displayed:



After the successful installation of the current firmware, the current firmware version of the IP Control Center is checked when the connection manager first connects to the IP Control Center. The user is prompted to install the connection manager matching the firmware. The following window appears:

15.1 Firmware update from version 3.0

For a firmware update from version 3.x to version 4.1.2, you have to consider a few special features. The firmware update is delivered in 2 parts:

IPCC_update40xx_part1.hpc
IPCC_update40xx_part2.hpc

At least 15 Mbyte of memory must be available. You can check this in the configuration manager → "General" (Flash Memory). if this requirement is not met, the editor configuration data must be saved first (editor: menu File → Save) and then a reset to the default values must be performed (editor: menu Configuration → Restore Defaults). See chapter: 8.5.2 The file menu and 8.5.6 The configuration menu.

To perform a firmware update, call the configuration page of the IP Control Center ("https://<ip>/config.php"). After the first part is received, subsequent communication is performed in encrypted form. After the device is restarted the connection is diverted to HTTPS. For this purpose, it is first necessary to accept the certificate.
See chapter: 3.3 Certificates.

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The 2nd part of the update can then be loaded. For security reasons, it is first necessary to assign a new password, see chapter: 3.2.5 Changing passwords. The 2nd part of the update can be selected and loaded from the “General” tab.

16 Status object in the ETS

To implement an automatic diagnosis of the device that runs in the background, the current service status of the IP Control Center is sent to the bus. The communication object 1 of the ETS applications is designed for this purpose. A DPT 4 Byte "unsigned" is used for the configuration. This communication object is exclusively designed for use as a diagnostic object and must not be used for other tasks. Whenever an error occurs, an assigned value (error code) is automatically sent to the bus. This allows a quick analysis to be performed on the basis of the error code table. When the error has been rectified, the value 0 (device ok) is sent to the bus.

0 - no error

<> 0 - error

Error analysis with masks:

Web error	0x00100000	// Service has not started
Policy error	0x00200000	// Service has not started
FTP error	0x00400000	// Service has not started
DNS error	0x00800000	// DNS not okay
SMTP user name not defined	0x01000000	// User input required
SMTP password not defined	0x02000000	// Password input required
SMTP password incorrect	0x04000000	// User or password not okay
SMTP connection broken	0x10000000	// Cannot reach server
SMTP server/port error	0x20000000	// Server or port not okay
SMTP invalid host name	0x40000000	// invalid server name
SMTP error	0x80000000	// unknown error

Status object (Obj n°1) is reset to 0 if the bus is not connected.

17 Notes on security

The visualization pages and the editors needed for configuration should be well protected against unwanted requests from the Intranet or Internet. To this end, the password protection for the IP Control Center must be applied and port forwarding for ports 80, 137, 138, 3671, 10005 and 10006 must be avoided. See chapter: 3.2 Password management.

Furthermore, the default password "**Siemens**" must be changed in the ETS. Use as many different characters as possible. Choose a random password without repetition or a personal connection. Change your password regularly.

17.1 Remote access to the visualization

Access to the visualization should only take place via the encrypted port 443. You are strongly recommended not to use port 80 (HTTP) for remote access to the visualization.

Web server for calling the graphic HTML visualization, the smart visualization and the tablet visualization:

Port 443 (HTTPS)

17.2 Remote access to the editor

Remote access to the editor may only be set up via an encrypted connection (e.g. via a VPN), because the relevant ports used by the programs or services must be open during the process. This so-called port forwarding enables secure access to the editor from the Internet. The following ports on the IP Control Center are used for the various services and functions:

Access to the editor for a full-graphic configuration or for access to the smart editor:

Ports 443, 80, 10005, 10006

It must be ensured that ports 10005 and 10006 are also accessible to the outside with these numbers. These must be configured 1:1 in the port rules.

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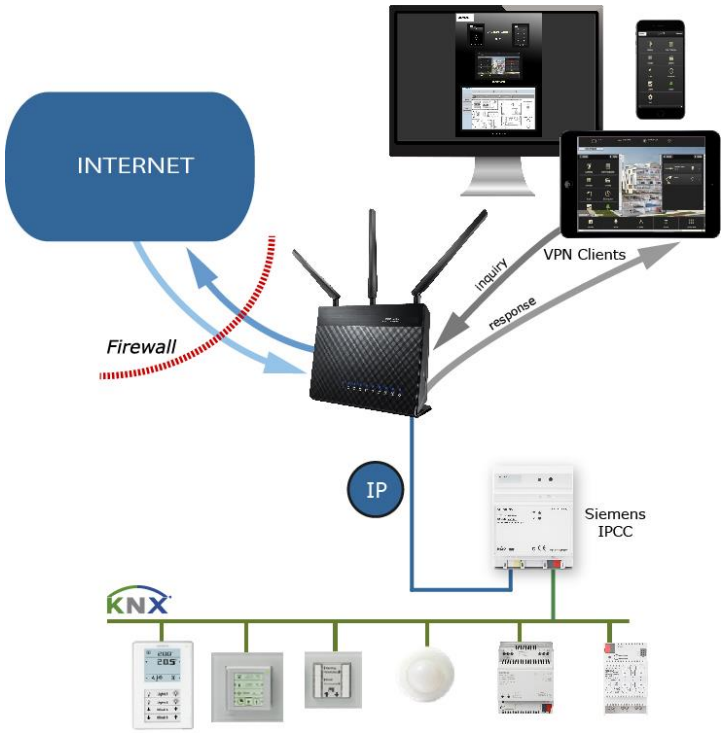
17.3 Virtual Private Network (VPN)



A virtual private network (VPN) must be set up for remote access to the IP Control Center. It can be used to access the IP Control Center securely and without interception. The VPN client (e.g. PC, tablet, smartphone) uses the VPN tunnel encrypted on the Internet to send a request (black arrows) to the VPN router.

It checks the authorization of the client and only forwards the request to the Internet or Intranet (blue arrows) after successful login. The response is sent along the reverse path.

The administration of access permissions (ports) to the IP Control Center within a network must be coordinated with the network administrator.

17.4 Additional notes on security:

- The IP Control Center must only be operated in a secure environment (Intranet or VPN) that only authorized users can access.
- The device must never be connected directly to the Internet. This applies in particular to the ports **80**, **137**, **138**, **3671**, **10005**.
- The configuration of the IP Control Center via the connection manager may only be performed in a secure environment, and never via the Internet.
- The configuration of the KNX system via the ETS and the IP Control Center (KNXnet/IP) may only be performed in a secure environment, and never via the Internet.
- If HTTPS is enabled, port **443** can be connected to the Internet via port forwarding.
- For security reasons, connection via http (Status HTTP Connection) must not be enabled.

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17.5 Port forwarding

The separate network and its participants should be well protected from unwanted requests from the Internet. The router performs this task in the network; it offers a package filter for this purpose to block unwanted network traffic from the outside.

The router also uses NAT (Network Address Translation) to ensure that participants in the local network cannot be reached directly, but instead go online collectively via the IP of the router. On the Internet, NAT ensures that the senders of all data packages from the local network always appear with the IP address assigned to the router by the provider. Direct communication between the Internet and a LAN PC is therefore not possible, and from a security aspect this is a good thing. The sender from the Internet does not even know that the data packages come not from the router itself, but from PCs connected to the router. Any data packages that the router cannot assign to a client computer on the internal network are rejected by the integrated package filter for security reasons.

To allow a specific PC and specific individual services on the local network to be contacted from the outside, you must enable the required ports. The router has to be configured accordingly for this purpose. You can do this with by enabling a port on the router, which then ensures that requests to the open port are forwarded to the correct device. For more information, see: https://en.wikipedia.org/wiki/Port_forwarding.

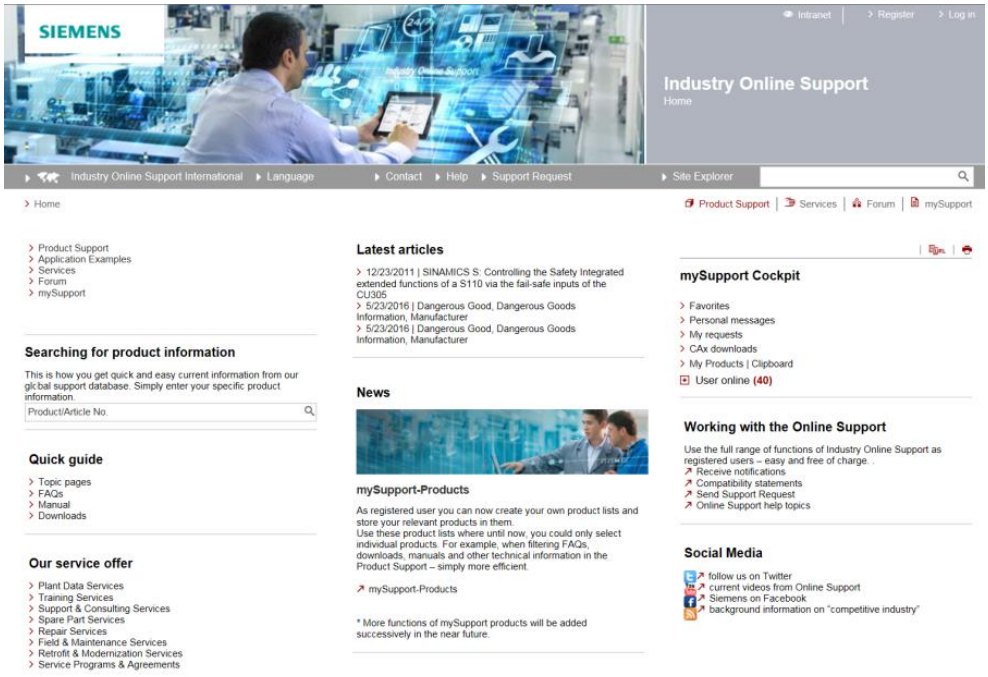
Note: A fixed IP address or a DynDns address is required if you want to use voice control. The DynDNS service can be activated on all standard routers. In addition to the address accessible on the internet, an external port number must be defined. This external port number must be linked to security port SSL 443.

Note: The external API interface can only be accessed via the encrypted port 443.

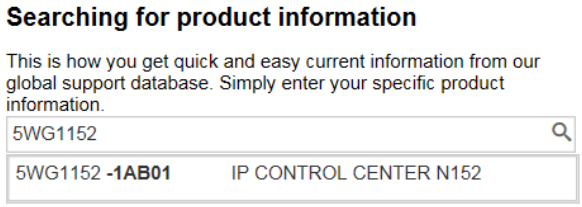
18 Questions, tips and FAQs

The IP Control Center is a compact device for a wide range of applications. It can be used to create complex and sophisticated solutions. The IP Control Center offers numerous interfaces and, with TCP/UDP commands., even a gateway function. Experience is helpful when performing a configuration. Broad knowledge of information technology and automation technology enables innovative configurations. Many topics are involved, e.g. audio/video technology, communication technology, voice control, image processing etc. A lot of technical information, e.g. mobile technology, web browsers etc. are subject to change and must be adapted dynamically. In addition, to our technical documentation, you should consult the following: Operating and assembly manual (BMA), technical product information (TPI) and the application program description (APB), our FAQs on the IP Control Center.

You will find them in our Support database: https://support.industry.siemens.com



Go to the Searching for product information field and select the article number, e.g. N152 or 5WG1 152-1AB011.

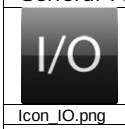
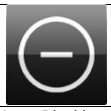


Here you will find hints and tips for integrating and configuring the IP Control Center. Many technical conditions are subject to change and will be expanded and updated regularly here.

19 Styles

19.1 Black magic

Operating- and display categories

Function preview	**Value: 0 (Off)**	**Value: 1 (On)**
Switching general		
General OFF		
		
Icon_Off.png	Icon_Off.png	
General ON		
		
Icon_On.png		Icon_On.png
General TOGGLE I/O		
		
Icon_IO.png	Icon_IO.png	Icon_IO.png
General OFF		
		
Icon_Disable.png	Icon_Disable.png	
General ON		
		
Icon_Enable.png		Icon_Enable.png
General TOGGLE		
		
Icon_Enable.png	Icon_Disable.png	Icon_Enable.png
General STATUS		
Icon_Enable.png	Icon_Disable.png	Icon_Enable.png
Switching Miscellaneous	**Value: 0 (Off)**	**Value: 1 (On)**
EU Socket TOGGLE		
		
Icon_EU on.png	Icon_EU off.png	Icon_EU on.png

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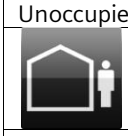
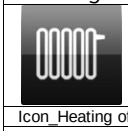
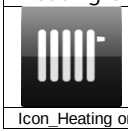
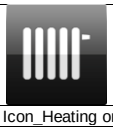
EU Socket OFF		
		
Icon_EU off.png	Icon_EU off.png	
EU Socket ON		
		
Icon_EU on.png		Icon_EU on.png
Swiss Socket TOGGLE		
		
Icon_Swiss on.png	Icon_Swiss off.png	Icon_Swiss on.png
Swiss Socket OFF		
		
Icon_Swiss off.png	Icon_Swiss off.png	
Swiss Socket ON		
		
Icon_Swiss on.png		Icon_Swiss on.png
Occupied TOGGLE		
		
Icon_Occupied.png	Icon_Unoccupied_alt.png	Icon_Occupied.png
Occupied		
		
Icon_Occupied.png		Icon_Occupied.png
Unoccupied		
		
Icon_Unoccupied_alt.png	Icon_Unoccupied_alt.png	
Heating OFF		
		
Icon_Heating off.png	Icon_Heating off.png	
Heating ON		
		
Icon_Heating on.png		Icon_Heating on.png

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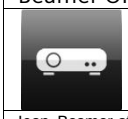
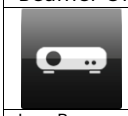
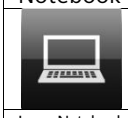
Boiler OFF		
		
Icon_Boiler off.png	Icon_Boiler off.png	
Boiler ON		
		
Icon_Boiler on.png		Icon_Boiler on.png
Beamer OFF		
		
Icon_Beamer off.png	Icon_Beamer off.png	
Beamer ON		
		
Icon_Beamer on.png		Icon_Beamer on.png
Fax machine OFF		
		
Icon_FaxB off.png	Icon_FaxB off.png	
Fax machine ON		
		
Icon_FaxB on.png		Icon_FaxB on.png
Notebook OFF		
		
Icon_Notebook off.png	Icon_Notebook off.png	
Notebook ON		
		
Icon_Notebook on.png		Icon_Notebook on.png
Printer OFF		
		
Icon_Printer off.png	Icon_Printer off.png	
Printer ON		
		
Icon_Printer on.png		Icon_Printer on.png

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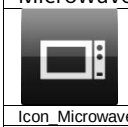
Monitor OFF		
		
Icon_Screen.png	Icon_Screen.png	
Monitor ON		
		
Icon_Screen (2).png		Icon_Screen (2).png
Coffee machine OFF		
		
Icon_Coffeemachine off.png	Icon_Coffeemachine off.png	
Coffee machine ON		
		
Icon_Coffeemachine on.png		Icon_Coffeemachine on.png
TV OFF		
		
Icon_TV.png	Icon_TV.png	
TV ON		
		
Icon_TV on.png		Icon_TV on.png
Microwave OFF		
		
Icon_Microwave off.png	Icon_Microwave off.png	
Microwave ON		
		
Icon_Microwave on.png		Icon_Microwave on.png
Washing machine OFF		
		
Icon_Washmachine off.png	Icon_Washmachine off.png	
Washing machine ON		
		
Icon_Washmachine on.png		Icon_Washmachine on.png
Oven OFF		

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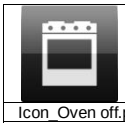
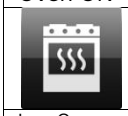
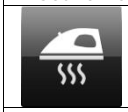
		
Icon_Oven off.png	Icon_Oven off.png	
Oven ON		
		
Icon_Oven on.png		Icon_Oven on.png
Dishwasher OFF		
		
Icon_Dishwasher off.png	Icon_Dishwasher off.png	
Dishwasher ON		
		
Icon_Dishwasher on.png		Icon_Dishwasher on.png
Fridge OFF		
		
Icon_Fridge off.png	Icon_Fridge off.png	
Fridge ON		
		
Icon_Fridge on.png		Icon_Fridge on.png
Fume extraction hood OFF		
		
Icon_Fume off.png	Icon_Fume off.png	
Fume extraction hood ON		
		
Icon_Fume on.png		Icon_Fume on.png
Electric iron OFF		
		
Icon_Iron off.png	Icon_Iron off.png	
Electric iron ON		
		
Icon_Iron on.png		Icon_Iron on.png
Fountain OFF		

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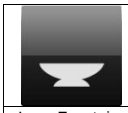
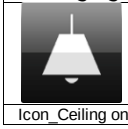
		
Icon_Fountain off Kopie.png	Icon_Fountain off Kopie.png	
Fountain ON		
		
Icon_Fountain on.png		Icon_Fountain on.png
Forced controlled OFF		
		
Icon_Guide off.png	Icon_Guide off.png	
Forced controlled ON		
		
Icon_Guide on.png		Icon_Guide on.png
Switching light	**Value: 0 (Off)**	**Value: 1 (On)**
Light OFF		
		
Icon_Light off.png	Icon_Light off.png	
Light ON		
		
Icon_Light on.png		Icon_Light on.png
Light TOGGLE		
		
Icon_Light on.png	Icon_Light off.png	Icon_Light on.png
Light STATUS		
Icon_Light on.png	Icon_Light off.png	Icon_Light on.png
Ceiling light OFF		
		
Icon_Ceiling off.png	Icon_Ceiling off.png	
Ceiling light ON		
		
Icon_Ceiling on.png		Icon_Ceiling on.png

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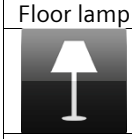
Ceiling light TOGGLE		
		
Icon_Ceiling on.png	Icon_Ceiling off.png	Icon_Ceiling on.png
Ceiling light Status		
Icon_Ceiling on.png	Icon_Ceiling off.png	Icon_Ceiling on.png
Floor lamp OFF		
		
Icon_Floor off.png	Icon_Floor off.png	
Floor lamp ON		
		
Icon_Floor on.png		Icon_Floor on.png
Floor lamp TOGGLE		
		
Icon_Floor on.png	Icon_Floor off.png	Icon_Floor on.png
Floor lamp status		
Icon_Floor on.png	Icon_Floor off.png	Icon_Floor on.png
Desk lamp OFF		
		
Icon_Desk off.png	Icon_Desk off.png	
Desk lamp ON		
		
Icon_Desk on.png		Icon_Desk on.png
Desk lamp TOGGLE		
		
Icon_Desk on.png	Icon_Desk off.png	Icon_Desk on.png
Desk lamp Status		

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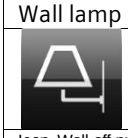
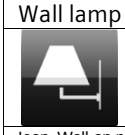
Icon_Desk on.png	Icon_Desk off.png	Icon_Desk on.png
Wall lamp OFF		
		
Icon_Wall off.png	Icon_Wall off.png	
Wall lamp ON		
		
Icon_Wall on.png		Icon_Wall on.png
Wall lamp TOGGLE		
		
Icon_Wall on.png	Icon_Wall off.png	Icon_Wall on.png
Wall lamp Status		
Icon_Wall on.png	Icon_Wall off.png	Icon_Wall on.png
Status General	**Value: 0 (Off)**	**Value: 1 (On)**
EU socket Status		
Icon_EU on.png	Icon_EU off.png	Icon_EU on.png
Swiss socket Status		
Icon_Swiss on.png	Icon_Swiss off.png	Icon_Swiss on.png
Occupied Status		
Icon_Occupied.png	Icon_Unoccupied_alt.png	Icon_Occupied.png
Heating Status		
Icon_Heating on.png	Icon_Heating off.png	Icon_Heating on.png
Boiler Status		
Icon_Boiler on.png	Icon_Boiler off.png	Icon_Boiler on.png

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Beamer Status		
Icon_Beamer on.png	Icon_Beamer off.png	Icon_Beamer on.png
Fax machine Status		
Icon_FaxB on.png	Icon_FaxB off.png	Icon_FaxB on.png
Notebook Status		
Icon_Notebook on.png	Icon_Notebook off.png	Icon_Notebook on.png
Printer Status		
Icon_Printer on.png	Icon_Printer off.png	Icon_Printer on.png
Monitor Status		
Icon_Screen (2).png	Icon_Screen.png	Icon_Screen (2).png
Coffee machine Status		
Icon_Coffeemachine on.png	Icon_Coffeemachine off.png	Icon_Coffeemachine on.png
TV Status		
Icon_TV on.png	Icon_TV.png	Icon_TV on.png
Microwave Status		
Icon_Microwave on.png	Icon_Microwave off.png	Icon_Microwave on.png
Washing machine Status		
Icon_Washmachine on.png	Icon_Washmachine off.png	Icon_Washmachine on.png
Oven Status		
Icon_Oven on.png	Icon_Oven off.png	Icon_Oven on.png

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Dishwasher Status		
Icon_Dishwasher on.png	Icon_Dishwasher off.png	Icon_Dishwasher on.png
Fridge Status		
Icon_Fridge on.png	Icon_Fridge off.png	Icon_Fridge on.png
Fume extraction hood Status		
Icon_Fume on.png	Icon_Fume off.png	Icon_Fume on.png
Electric iron Status		
Icon_Iron on.png	Icon_Iron off.png	Icon_Iron on.png
Fountain Status		
Icon_Fountain on.png	Icon_Fountain off Kopie.png	Icon_Fountain on.png
Forced controlled Status		
Icon_Guide on.png	Icon_Guide off.png	Icon_Guide on.png
Sunblind Status		
Icon_Shutter.png	Icon_Shutter off.png	Icon_Shutter on.png
Awning Status		
Icon_Awning on.png	Icon_Awning off.png	Icon_Awning on.png
Windows Status		
Icon_Window open.png	Icon_Window closed.png	Icon_Window open.png
Rooflight Status		
Icon_Rooflight off Kopie.png	Icon_Rooflight off.png	Icon_Rooflight off Kopie.png

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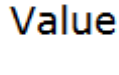
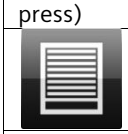
Door Status		
Icon_Door open.png	Icon_Door closed.png	Icon_Door open.png
Domelight Status		
Icon_Domelight on.png	Icon_Domelight off.png	Icon_Domelight on.png
Garage door Status		
Icon_Garage on.png	Icon_Garage off.png	Icon_Garage on.png
Air quality Status		
Icon_Air Quality.png	Icon_Air Poor.png	Icon_Air Quality.png
Value Status (transparent)		
		
Icon_Value-Status.png		
Value Status		
		
Icon_Value-Status.png		
Shutter / Blind	**Value 0 (UP)**	**Value 1 (DOWN)**
Sunblind TOGGLE (short/long press)		
		
Icon_Blind.png	Icon_Blind.png	Icon_Blind.png
Sunblind TOGGLE (short/long press)		
		
Icon_Awning.png	Icon_Awning.png	Icon_Awning.png
Sunblind TOGGLE (short/long press)		
		

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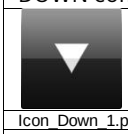
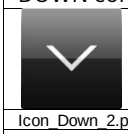
Icon_Blind 2.png	Icon_Blind 2.png	Icon_Blind 2.png
Shutter TOGGLE (short/long press)		
		
Icon_Shutter.png	Icon_Shutter.png	Icon_Shutter.png
UP command (short/long press)		
		
Icon_Up_1.png	Icon_Up_1.png	
DOWN command (short/long press)		
		
Icon_Down_1.png		Icon_Down_1.png
UP command		
		
Icon_Up_1.png	Icon_Up_1.png	
DOWN command		
		
Icon_Down_1.png		Icon_Down_1.png
UP command		
		
Icon_Up_2.png	Icon_Up_2.png	
DOWN command		
		
Icon_Down_2.png		Icon_Down_2.png
Sunblind UP (short/long press)		
		
Icon_Blind up.png	Icon_Blind up.png	
Sunblind DOWN (short/long press)		
		
Icon_Blind down.png		Icon_Blind down.png
Sunblind UP		

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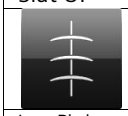
Icon_Blind up.png	Icon_Blind up.png	
Sunblind DOWN		
		
Icon_Blind down.png		Icon_Blind down.png
Slat UP		
		
Icon_Blade_open.png		Icon_Blade_open.png
Slat DOWN		
		
Icon_Blade_closed.png	Icon_Blade_closed.png	
Shutter UP		
		
Icon_Shutter up.png	Icon_Shutter up.png	
Shutter DOWN		
		
Icon_Schutter down.png		Icon_Shutter down.png
Awning OPEN		
		
Icon_Awning on.png		Icon_Awning on.png
Awning CLOSED		
		
Icon_Awning off.png	Icon_Awning off.png	
Window OPEN		
		
Icon_Window open.png		Icon_Window open.png
Window CLOSED		
		
Icon_Window closed.png	Icon_Window closed.png	
Rooflight OPEN		

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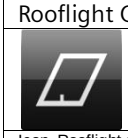
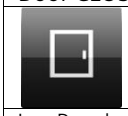
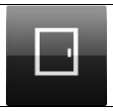
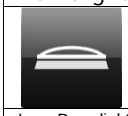
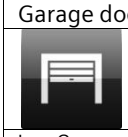
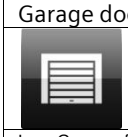
Icon_Rooflight off Kopie.png		Icon_Rooflight off Kopie.png
Rooflight CLOSED		
		
Icon_Rooflight off.png	Icon_Rooflight off.png	
Door OPEN		
		
Icon_Door open.png		Icon_Door open.png
Door CLOSED		
		
Icon_Door closed.png	Icon_Door closed.png	
Domelight OPEN		
		
Icon_Domelight on.png		Icon_Domelight on.png
Domelight CLOSED		
		
Icon_Domelight off.png	Icon_Domelight off.png	
Garage door OPEN		
		
Icon_Garage on.png	Icon_Garage on.png	
Garage door CLOSED		
		
Icon_Garage off.png		Icon_Garage off.png
Canvas UP		
		
Icon_Canvas off.png	Icon_Canvas off.png	
Canvas DOWN		
		
Icon_Canvas on.png		Icon_Canvas on.png
STOP command		

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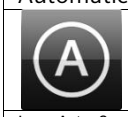
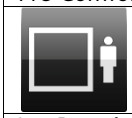
Icon_Stop.png	Icon_Stop.png	
HVAC	**Value: 0**	**Value: 1**
Manual mode		
		
Icon_Manual (2).png	Icon_Manual (2).png	
Automatic mode		
		
Icon_Auto_2.png		Icon_Auto_2.png
Automatic mode Status		
Icon_Auto_2.png	Icon_Manual (2).png	Icon_Auto_2.png
Comfort mode		
		
Icon_Comfort_2.png		Icon_Comfort_2.png
Pre-Comfort mode		
		
Icon_Precomfort (2).png		Icon_Precomfort (2).png
Economy mode		
		
Icon_Night_A.png		Icon_Night_A.png
Protection mode		
		
Icon_Protection.png		Icon_Protection.png
Comfort Prolongation		
		
Icon_Prolongation.png		Icon_Prolongation.png
Heating / cooling		

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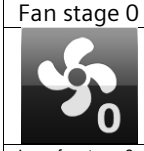
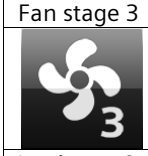
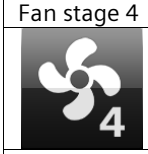
Icon_Heating_State.png		Icon_Heating_State.png
Heating / cooling Status		
Icon_Heating_State.png	Icon_Cooling_State.png	Icon_Heating_State.png
Dewpoint mode Status		
Icon_Humidity.png		Icon_Humidity.png
Frost protection Status		
Icon_Frost.png		Icon_Frost.png
Fan stage 0		
		
Icon_fanstage-0.png		Icon_fanstage-0.png
Fan stage 1		
		
Icon_fanstage-1.png		Icon_fanstage-1.png
Fan stage 2		
		
Icon_fanstage-2.png		Icon_fanstage-2.png
Fan stage 3		
		
Icon_fanstage-3.png		Icon_fanstage-3.png
Fan stage 4		
		
Icon_fanstage-4.png		Icon_fanstage-4.png
Fan stage 5		

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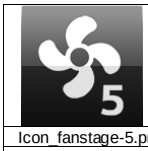
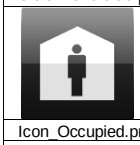
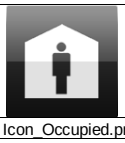
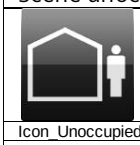
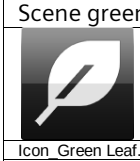
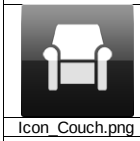
		
Icon_fanstage-5.png		Icon_fanstage-5.png
Scenes		**Value: 1**
Scene meeting		
		
Icon_Meeting.png		Icon_Meeting.png
Scene presentation		
		
Icon_Presentation.png		Icon_Presentation.png
Scene occupied		
		
Icon_Occupied.png		Icon_Occupied.png
Scene unoccupied		
		
Icon_Unoccupied_alt.png		Icon_Unoccupied_alt.png
Scene green leaf		
		
Icon_Green Leaf.png		Icon_Green Leaf.png
Scene working		
		
Icon_Working.png		Icon_Working.png
Scene break		
		
Icon_Break.png		Icon_Break.png
Scene relax		
		
Icon_Couch.png		Icon_Couch.png
Scene dinner		

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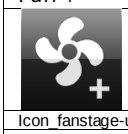
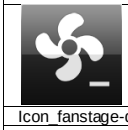
Icon_Dinner.png		Icon_Dinner.png
Scene cooking		
		
Icon_Kitchen.png		Icon_Kitchen.png
Scene party		
		
Icon_Party.png		Icon_Party.png
Scene fireplace		
		
Icon_Fireplace.png		Icon_Fireplace.png
Scene sleep		
		
Icon_Sleep.png		Icon_Sleep.png
Advanced Elements	**Individual values into dependence of the datapoint type and the selected advanced element**	
Step +		
		
Icon_Plus.png		Icon_Plus.png
Step -		
		
Icon_Minus.png		Icon_Minus.png
Fan +		
		
Icon_fanstage-up.png		Icon_fanstage-up.png
Fan -		
		
Icon_fanstage-down.png		Icon_fanstage-down.png
Light +		

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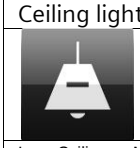
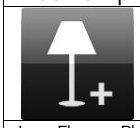
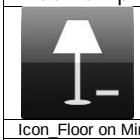
Icon_Light on Plus.png		Icon_Light on Plus.png
Light -		
		
Icon_Light off Plus 92.png		Icon_Light off Plus 92.png
Ceiling light +		
		
Icon_Ceiling on Plus.png		Icon_Ceiling on Plus.png
Ceiling light -		
		
Icon_Ceiling on Minus.png		Icon_Ceiling on Minus.png
Floor lamp +		
		
Icon_Floor on Plus.png		Icon_Floor on Plus.png
Floor lamp --		
		
Icon_Floor on Minus.png		Icon_Floor on Minus.png
Desk lamp +		
		
Icon_Desk on Plus.png		Icon_Desk on Plus.png
Desk lamp -		
		
Icon_Desk on Minus.png		Icon_Desk on Minus.png
Wall lamp +		
		
Icon_Wall on Plus.png		Icon_Wall on Plus.png
Wall lamp -		

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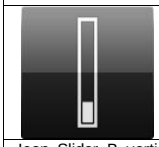
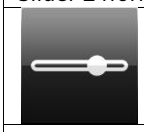
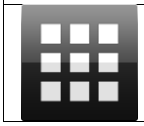
Icon_Wall on Minus.png		Icon_Wall on Minus.png
Slider 1 horizontal		
		
Icon_Slider_B_horizontal.png		
Slider 1 vertical		
		
Icon_Slider_B_vertical.png		
Slider 2 horizontal		
		
Icon_Slider-A_horizontal.png		
Slider 2 vertical		
		
Icon_Slider-A_vertical.png		
RGB		
		
Icon_RGB.png		
Gauge		
		
Icon_General-Analog.png		
Matrix element		
		

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Icon_Thumbnails.png	Icon_Thumbnails.png			Icon_Thumbnails.png		
Operating mode element						
						
Icon_General Multistate.png			Icon_Comfort_2.png	Icon_Precomfort (2).png	Icon_Night_A.png	Icon_Protection.png
Operating mode element with auto						
						
Icon_General Multistate.png		Icon_Auto_2.png	Icon_Comfort_2.png	Icon_Precomfort (2).png	Icon_Night_A.png	Icon_Protection.png
Fan element 3 steps						
						
Icon_Fan.png			Icon_Fanstage0.png	Icon_Fanstage1.png	Icon_Fanstage2.png	Icon_Fanstage3.png
Fan element 5 steps						
						
Icon_Fan.png	Icon_Fanstage0.png	Icon_Fanstage1.png	Icon_Fanstage2.png	Icon_Fanstage3.png	Icon_Fanstage4.png	Icon_Fanstage5.png
Advanced element						
						
Icon_NavigationSettings.png						
Send value						
						
Icon_Value-Input.png						
Alarm Status						
Icon_OK_NotAckn.png				Icon_OK_NotAckn.png		
Audio/Video	**Datapoint types and pre-defined values individually adjustably**					
Enable						
						
Icon_Enable.png				Icon_Enable.png		

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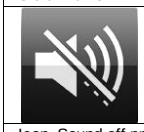
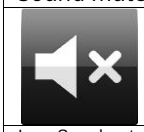
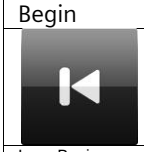
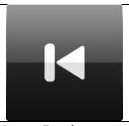
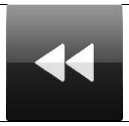
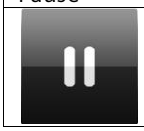
Put on standby		
		
Icon_Standby.png		Icon_Standby.png
Sound ON		
		
Icon_Sound on.png		Icon_Sound on.png
Sound OFF		
		
Icon_Sound off.png		Icon_Sound off.png
Sound mute		
		
Icon_Sound mute.png		Icon_Sound mute.png
Begin		
		
Icon_Begin.png		Icon_Begin.png
End		
		
Icon_End.png		Icon_End.png
Fast rewind		
		
Icon_Fast_Rewind.png		Icon_Fast_Rewind.png
Fast Forward		
		
Icon_Fast_Forward.png		Icon_Fast_Forward.png
Pause		
		

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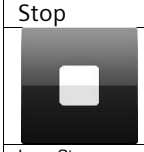
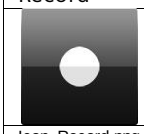
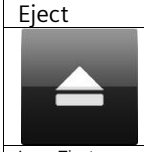
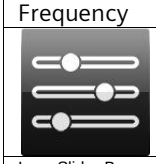
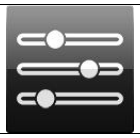
Icon_Pause.png		Icon_Pause.png
Play		
		
Icon_Play.png		Icon_Play.png
Stop		
		
Icon_Stop.png		Icon_Stop.png
Record		
		
Icon_Record.png		Icon_Record.png
Eject		
		
Icon_Eject.png		Icon_Eject.png
Shuffle		
		
Icon_Shuffle.png		Icon_Shuffle.png
Frequency		
		
Icon_Slider-B.png		Icon_Slider-B.png
AV		
		
Icon_AV.png		Icon_AV.png
Navigation elements		
Container		
		
Icon_Site.png		
Page navigator (transparent)		

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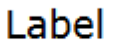
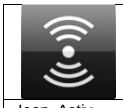
Icon_Navigation.png		
Page navigator		
		
Icon_Navigation.png		
Label (transparent)		
		
Icon_ID.png		
Label		
		
Icon_ID.png		
Image		
		
Icon_Picture.png		
Touch Displays Settings		
		
Icon_Settings.png		Icon_Settings.png

Additional Icons are on the IP Control Center in the path:
visuelements\standard\black_magic

									
Icon_Activation.png	Icon_Alarm_ok.png	Icon_Alarm_state.png	Icon_Alarm---Ackn.png	Icon_Alarm-Fire_V2.png	Icon_Alarm-Gas.png	Icon_Audio.png	Icon_Auto.png	Icon_Bag_A.png	Icon_Bag_B.png
									
Icon_Bath.png	Icon_Battery.png	Icon_Blade_Position.png	Icon_blind2_position.png	Icon_Blind_Position.png	Icon_Burner.png	Icon_Calendar.png	Icon_Cancel.png	Icon_Cleaning.png	Icon_Clock.png

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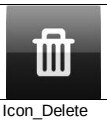
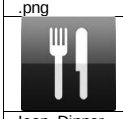
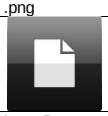
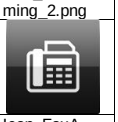
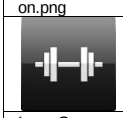
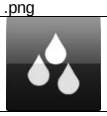
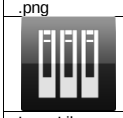
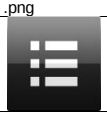
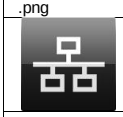
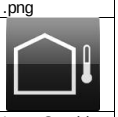
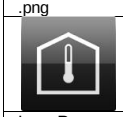
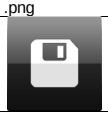
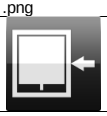
 Icon_Cloud .png	 Icon_Cloudy .png	 Icon_Comfort .png	 Icon_Contrast .png	 Icon_Cooling _State.png	 Icon_Cut.png	 Icon_Delete .png	 Icon_DHW .png	 Icon_ Dimming.png	 Icon_Dim ming_2.png
 Icon_Dinner .png	 Icon_Docu ment.png	 Icon_DoNot Disturb.png	 Icon_ Economy.png	 Icon_Edit.png	 Icon_Effect. png	 Icon_Escape Right.png	 Icon_Exit.png	 Icon_Favorite s.png	 Icon_FaxA-off.png
 Icon_FaxA-on.png	 Icon_Fire-Sensor.png	 Icon_Folder .png	 Icon_Forward .png	 Icon_Garage _Car.png	 Icon_Garden .png	 Icon_Wind .png	 Icon_Global .png	 Icon_Green-Leaf.png	 Icon_Green-Leaf-alt.png
 Icon_Gym .png	 Icon_Heat pump.png	 Icon_Help .png	 Icon_Home .png	 Icon_Hour glass.png	 Icon_ Humidity.png	 Icon_Informa tion.png	 Icon_IP_Cam era_B.png	 Icon_IP_Cam era_C.png	 Icon_Langua ge.png
 Icon_Library .png	 Icon_ Lifesafety.png	 Icon_List.png	 Icon_Location .png	 Icon_Lock .png	 Icon_Login .png	 Icon_Logout .png	 Icon_Mainten ance.png	 Icon_Make-Room.png	 Icon_Manual .png
 Icon_Network .png	 Icon_Night_B .png	 Icon_No Access.png	 Icon_Notifi cation.png	 Icon_Office .png	 Icon_OK.png	 Icon_Ok---Akn.png	 Icon_Out-of-Service.png	 Icon_Outside -Temperature .png	 Icon_Outside -Tempera ture_alt.png
 Icon_Phone .png	 Icon_Plant .png	 Icon_Pool .png	 Icon_Power .png	 Icon_Precom fort.png	 Icon_Rain .png	 Icon_Repeat .png	 Icon_Reply .png	 Icon_Return .png	 Icon_RGBw .png
 Icon_Room-Temperature .png	 Icon_Save .png	 Icon_Scenes .png	 Icon_Service .png	 Icon_Set.png	 Icon_Set_ Value.png	 Icon_Shutter _position.png	 Icon_Step-0.png	 Icon_Step-1.png	 Icon_Step-2.png
 Icon_Step-3.png	 Icon_Storm .png	 Icon_Sun .png	 Icon_Sunblind _Position.png	 Icon_Support .png	 Icon_Switch .png	 Icon_Temper ature.png	 Icon_Temper ature_set.png	 Icon_Trend .png	 Icon_Unlock .png
 Icon_Usergro up.png	 Icon_Warning .png	 Icon_Water .png	 Icon_Weather .png	 Icon_Wifi.png					

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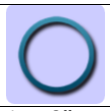
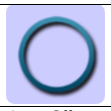
19.2 Blue gray

Operating and display categories

Function preview	Value: 0 (Off)	Value: 1 (On)
Switching general		
General OFF		
		
Icon_Off.png	Icon_Off.png	
General ON		
		
Icon_On.png		Icon_On.png
General TOGGLE I/O		
		
Icon_IO.png	Icon_IO.png	Icon_IO.png
General OFF		
		
Icon_Disable.png	Icon_Disable.png	
General ON		
		
Icon_Enable.png		Icon_Enable.png
General TOGGLE		
		
Icon_Enable.png	Icon_Disable.png	Icon_Enable.png
General STATUS		
		
Icon_Enable.png	Icon_Disable.png	Icon_Enable.png
Switching Miscellaneous	**Value: 0 (Off)**	**Value: 1 (On)**
EU socket TOGGLE		
		
Icon_EU on.png	Icon_EU off.png	Icon_EU on.png
EU socket OFF		

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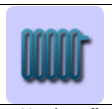
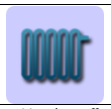
Icon_EU off.png	Icon_EU off.png	
EU socket ON		
		
Icon_EU on.png		Icon_EU on.png
Swiss socket TOGGLE		
		
Icon_Swiss on.png	Icon_Swiss off.png	Icon_Swiss on.png
Swiss socket OFF		
		
Icon_Swiss off.png	Icon_Swiss off.png	
Swiss socket ON		
		
Icon_Swiss on.png		Icon_Swiss on.png
Occupied TOGGLE		
		
Icon_Occupied.png	Icon_Unoccupied_alt.png	Icon_Occupied.png
Occupied		
		
Icon_Occupied.png		Icon_Occupied.png
Unoccupied		
		
Icon_Unoccupied_alt.png	Icon_Unoccupied_alt.png	
Heating OFF		
		
Icon_Heating off.png	Icon_Heating off.png	
Heating ON		
		
Icon_Heating on.png		Icon_Heating on.png
Boiler OFF		

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Icon_Boiler off.png	Icon_Boiler off.png	
Boiler ON		
		
Icon_Boiler on.png		Icon_Boiler on.png
Beamer OFF		
		
Icon_Beamer off.png	Icon_Beamer off.png	
Beamer ON		
		
Icon_Beamer on.png		Icon_Beamer on.png
Fax machine OFF		
		
Icon_FaxB off.png	Icon_FaxB off.png	
Fax machine ON		
		
Icon_FaxB on.png		Icon_FaxB on.png
Notebook OFF		
		
Icon_Notebook off.png	Icon_Notebook off.png	
Notebook ON		
		
Icon_Notebook on.png		Icon_Notebook on.png
Printer OFF		
		
Icon_Printer off.png	Icon_Printer off.png	
Printer ON		
		
Icon_Printer on.png		Icon_Printer on.png
Monitor OFF		

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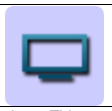
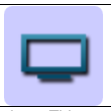
Icon_Screen.png	Icon_Screen.png	
Monitor ON		
		
Icon_Screen (2).png		Icon_Screen (2).png
Coffee machine OFF		
		
Icon_Coffeemachine off.png	Icon_Coffeemachine off.png	
Coffee machine ON		
		
Icon_Coffeemachine on.png		Icon_Coffeemachine on.png
TV OFF		
		
Icon_TV.png	Icon_TV.png	
TV ON		
		
Icon_TV on.png		Icon_TV on.png
Microwave OFF		
		
Icon_Microwave off.png	Icon_Microwave off.png	
Microwave ON		
		
Icon_Microwave on.png		Icon_Microwave on.png
Washing machine OFF		
		
Icon_Washmachine off.png	Icon_Washmachine off.png	
Washing machine ON		
		
Icon_Washmachine on.png		Icon_Washmachine on.png
Oven OFF		

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Icon_Oven off.png	Icon_Oven off.png	
Oven ON		
		
Icon_Oven on.png		Icon_Oven on.png
Dishwasher OFF		
		
Icon_Dishwasher off.png	Icon_Dishwasher off.png	
Dishwasher ON		
		
Icon_Dishwasher on.png		Icon_Dishwasher on.png
Fridge OFF		
		
Icon_Fridge off.png	Icon_Fridge off.png	
Fridge ON		
		
Icon_Fridge on.png		Icon_Fridge on.png
Fume extraction hood OFF		
		
Icon_Fume off.png	Icon_Fume off.png	
Fume extraction hood ON		
		
Icon_Fume on.png		Icon_Fume on.png
Electric iron OFF		
		
Icon_Iron off.png	Icon_Iron off.png	
Electric iron ON		
		
Icon_Iron on.png		Icon_Iron on.png
Fountain OFF		

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Icon_Fountain off Kopie.png	Icon_Fountain off Kopie.png	
Fountain ON		
		
Icon_Fountain on.png		Icon_Fountain on.png
Forced controlled OFF		
		
Icon_Guide off.png	Icon_Guide off.png	
Forced controlled ON		
		
Icon_Guide on.png		Icon_Guide on.png
Switching Light	**Value: 0 (Off)**	**Value: 1 (On)**
Light OFF		
		
Icon_Light off.png	Icon_Light off.png	
Light ON		
		
Icon_Light on.png		Icon_Light on.png
Light TOGGLE		
		
Icon_Light on.png	Icon_Light off.png	Icon_Light on.png
Light STATUS		
		
Icon_Light on.png	Icon_Light off.png	Icon_Light on.png
Ceiling Light OFF		
		
Icon_Ceiling off.png	Icon_Ceiling off.png	
Ceiling Light ON		
		
Icon_Ceiling on.png		Icon_Ceiling on.png

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Ceiling Light TOGGLE		
		
Icon_Ceiling on.png	Icon_Ceiling off.png	Icon_Ceiling on.png
Ceiling Light STATUS		
		
Icon_Ceiling on.png	Icon_Ceiling off.png	Icon_Ceiling on.png
Floor lamp OFF		
		
Icon_Floor off.png	Icon_Floor off.png	
Floor lamp ON		
		
Icon_Floor on.png		Icon_Floor on.png
Floor lamp TOGGLE		
		
Icon_Floor on.png	Icon_Floor off.png	Icon_Floor on.png
Floor lamp STATUS		
		
Icon_Floor on.png	Icon_Floor off.png	Icon_Floor on.png
Desk lamp TOGGLE		
		
Icon_Desk off.png	Icon_Desk off.png	
Desk lamp ON		
		
Icon_Desk on.png		Icon_Desk on.png
Desk lamp TOGGLE		
		
Icon_Desk on.png	Icon_Desk off.png	Icon_Desk on.png
Desk lamp STATUS		

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Icon_Desk on.png	Icon_Desk off.png	Icon_Desk on.png
Wall lamp OFF		
		
Icon_Wall off.png	Icon_Wall off.png	
Wall lamp ON		
		
Icon_Wall on.png		Icon_Wall on.png
Wall lamp TOGGLE		
		
Icon_Wall on.png	Icon_Wall off.png	Icon_Wall on.png
Wall lamp STATUS		
		
Icon_Wall on.png	Icon_Wall off.png	Icon_Wall on.png
Status General	**Value: 0 (Off)**	**Value: 1 (On)**
EU socket Status		
		
Icon_EU on.png	Icon_EU off.png	Icon_EU on.png
Swiss socket Status		
		
Icon_Swiss on.png	Icon_Swiss off.png	Icon_Swiss on.png
Occupied Status		
		
Icon_Occupied.png	Icon_Unoccupied_alt.png	Icon_Occupied.png
Heating Status		
		
Icon_Heating on.png	Icon_Heating off.png	Icon_Heating on.png
Boiler Status		
		
Icon_Boiler on.png	Icon_Boiler off.png	Icon_Boiler on.png

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Beamer Status		
		
Icon_Beamer on.png	Icon_Beamer off.png	Icon_Beamer on.png
Fax machine Status		
		
Icon_FaxB on.png	Icon_FaxB off.png	Icon_FaxB on.png
Notebook Status		
		
Icon_Notebook on.png	Icon_Notebook off.png	Icon_Notebook on.png
Printer Status		
		
Icon_Printer on.png	Icon_Printer off.png	Icon_Printer on.png
Monitor Status		
		
Icon_Screen (2).png	Icon_Screen.png	Icon_Screen (2).png
Coffee machine Status		
		
Icon_Coffeemachine on.png	Icon_Coffeemachine off.png	Icon_Coffeemachine on.png
TV Status		
		
Icon_TV on.png	Icon_TV.png	Icon_TV on.png
Microwave Status		
		
Icon_Microwave on.png	Icon_Microwave off.png	Icon_Microwave on.png
Washing machine Status		
		
Icon_Washmachine on.png	Icon_Washmachine off.png	Icon_Washmachine on.png
Oven Status		
		

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Icon_Oven on.png	Icon_Oven off.png	Icon_Oven on.png
Dishwasher Status		
		
Icon_Dishwasher on.png	Icon_Dishwasher off.png	Icon_Dishwasher on.png
Fridge Status		
		
Icon_Fridge on.png	Icon_Fridge off.png	Icon_Fridge on.png
Fume extraction hood Status		
		
Icon_Fume on.png	Icon_Fume off.png	Icon_Fume on.png
Electric iron Status		
		
Icon_Iron on.png	Icon_Iron off.png	Icon_Iron on.png
Fountain Status		
		
Icon_Fountain on.png	Icon_Fountain off Kopie.png	Icon_Fountain on.png
Forced controlled Status		
		
Icon_Guide on.png	Icon_Guide off.png	Icon_Guide on.png
Sunblind Status		
		
Icon_Shutter.png	Icon_Shutter off.png	Icon_Shutter on.png
Awning Status		
		
Icon_Awning on.png	Icon_Awning off.png	Icon_Awning on.png
Windows Status		
		
Icon_Window open.png	Icon_Window closed.png	Icon_Window open.png
Rooflight Status		

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Icon_Rooflight off Kopie.png	Icon_Rooflight off.png	Icon_Rooflight off Kopie.png
Door Status		
		
Icon_Door open.png	Icon_Door closed.png	Icon_Door open.png
Domelight Status		
		
Icon_Domelight on.png	Icon_Domelight off.png	Icon_Domelight on.png
Garage door Status		
		
Icon_Garage on.png	Icon_Garage off.png	Icon_Garage on.png
Air quality Status		
		
Icon_Air Quality.png	Icon_Air Poor.png	Icon_Air Quality.png
Value Status (transparent)		
		Value
Icon_Value-Status.png		
Value Status		
		
Icon_Value-Status.png		
Shutter/Blind	**Value 0 (UP)**	**Value 1 (DOWN)**
Sunblind TOGGLE (short/long press)		
		
Icon_Blind.png	Icon_Blind.png	Icon_Blind.png
Sunblind TOGGLE (short/long press)		
		
Icon_Awning.png	Icon_Awning.png	Icon_Awning.png

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Sunblind TOGGLE (short/long press)		
		
Icon_Blind 2.png	Icon_Blind 2.png	Icon_Blind 2.png
Shutter TOGGLE (short/long press)		
		
Icon_Shutter.png	Icon_Shutter.png	Icon_Shutter.png
UP command (short/long press)		
		
Icon_Up_1.png	Icon_Up_1.png	
DOWN command (short/long press)		
		
Icon_Down_1.png		Icon_Down_1.png
UP command		
		
Icon_Up_1.png	Icon_Up_1.png	
DOWN command		
		
Icon_Down_1.png		Icon_Down_1.png
UP command		
		
Icon_Up_2.png	Icon_Up_2.png	
DOWN command		
		
Icon_Down_2.png		Icon_Down_2.png
Sublind UP (short/long press)		
		
Icon_Blind up.png	Icon_Blind up.png	
Sunblind DOWN (short/long press)		

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Icon_Blind down.png		Icon_Blind down.png
Sunblind UP		
		
Icon_Blind up.png	Icon_Blind up.png	
Sunblind DOWN		
		
Icon_Blind down.png		Icon_Blind down.png
Slat UP		
		
Icon_Blade_open.png		Icon_Blade_open.png
Slat DOWN		
		
Icon_Blade_closed.png	Icon_Blade_closed.png	
Shutter UP		
		
Icon_Shutter up.png	Icon_Shutter up.png	
Shutter DOWN		
		
Icon_Schutter down.png		Icon_Schutter down.png
Awning OPEN		
		
Icon_Awning on.png		Icon_Awning on.png
Awning CLOSED		
		
Icon_Awning off.png	Icon_Awning off.png	
Window OPEN		
		
Icon_Window open.png		Icon_Window open.png
Window CLOSED		

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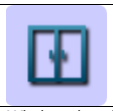
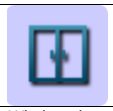
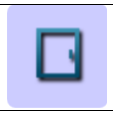
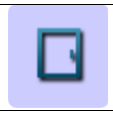
		
Icon_Window closed.png	Icon_Window closed.png	
Rooflight OPEN		
		
Icon_Rooflight off Kopie.png		Icon_Rooflight off Kopie.png
Rooflight CLOSED		
		
Icon_Rooflight off.png	Icon_Rooflight off.png	
Door OPEN		
		
Icon_Door open.png		Icon_Door open.png
Door CLOSED		
		
Icon_Door closed.png	Icon_Door closed.png	
Domelight OPEN		
		
Icon_Domelight on.png		Icon_Domelight on.png
Domelight CLOSED		
		
Icon_Domelight off.png	Icon_Domelight off.png	
Garage door OPEN		
		
Icon_Garage on.png	Icon_Garage on.png	
Garage door CLOSED		
		
Icon_Garage off.png		Icon_Garage off.png
Canvas UP		
		
Icon_Canvas off.png	Icon_Canvas off.png	

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Canvas DOWN		
		
Icon_Canvas on.png		Icon_Canvas on.png
STOP command		
		
Icon_Stop.png	Icon_Stop.png	
HVAC	**Value 0**	**Value 1**
Manual mode		
		
Icon_Manual (2).png	Icon_Manual (2).png	
Automatic mode		
		
Icon_Auto_2.png		Icon_Auto_2.png
Automatic mode Status		
		
Icon_Auto_2.png	Icon_Manual (2).png	Icon_Auto_2.png
Comfort mode		
		
Icon_Comfort_2.png		Icon_Comfort_2.png
Pre-Comfort mode		
		
Icon_Precomfort (2).png		Icon_Precomfort (2).png
Economy mode		
		
Icon_Night_A.png		Icon_Night_A.png
Protection mode		
		
Icon_Protection.png		Icon_Protection.png
Comfort Prolongation		
		

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Icon_Prolongation.png		Icon_Prolongation.png
Heating / cooling		
		
Icon_Heating_State.png		Icon_Heating_State.png
Heating / cooling Status		
		
Icon_Heating_State.png	Icon_Cooling_State.png	Icon_Heating_State.png
Dewpoint mode Status		
		
Icon_Humidity.png		Icon_Humidity.png
Frost protection Status		
		
Icon_Frost.png		Icon_Frost.png
Fan stage 0		
		
Icon_fanstage-0.png		Icon_fanstage-0.png
Fan stage 1		
		
Icon_fanstage-1.png		Icon_fanstage-1.png
Fan stage 2		
		
Icon_fanstage-2.png		Icon_fanstage-2.png
Fan stage 3		
		
Icon_fanstage-3.png		Icon_fanstage-3.png
Fan stage 4		
		
Icon_fanstage-4.png		Icon_fanstage-4.png
Fan stage 5		

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Icon_fanstage-5.png		Icon_fanstage-5.png
Scenes		Value 1
Scene meeting		
		
Icon_Meeting.png		Icon_Meeting.png
Scene presentation		
		
Icon_Presentation.png		Icon_Presentation.png
Scene occupied		
		
Icon_Occupied.png		Icon_Occupied.png
Scene unoccupied		
		
Icon_Unoccupied_alt.png		Icon_Unoccupied_alt.png
Scene green leaf		
		
Icon_Green Leaf.png		Icon_Green Leaf.png
Scene working		
		
Icon_Working.png		Icon_Working.png
Scene break		
		
Icon_Break.png		Icon_Break.png
Scene relax		
		
Icon_Couch.png		Icon_Couch.png
Scene dinner		

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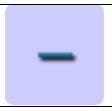
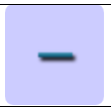
Icon_Dinner.png		Icon_Dinner.png
Scene cooking		
		
Icon_Kitchen.png		Icon_Kitchen.png
Scene party		
		
Icon_Party.png		Icon_Party.png
Scene fireplace		
		
Icon_Fireplace.png		Icon_Fireplace.png
Scene sleep		
		
Icon_Sleep.png		Icon_Sleep.png
Advanced Elements	Individual values into dependence of the datapoint type and the selected advanced element	
Step +		
		
Icon_Plus.png		Icon_Plus.png
Step -		
		
Icon_Minus.png		Icon_Minus.png
Fan +		
		
Icon_fanstage-up.png		Icon_fanstage-up.png
Fan –		
		
Icon_fanstage-down.png		Icon_fanstage-down.png
Light+		
		

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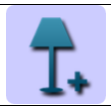
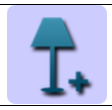
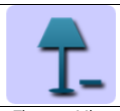
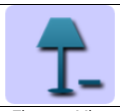
Icon_Light on Plus.png		Icon_Light on Plus.png
Light-		
		
Icon_Light off Plus 92.png		Icon_Light off Plus 92.png
Ceiling light+		
		
Icon_Ceiling on Plus.png		Icon_Ceiling on Plus.png
Ceiling light-		
		
Icon_Ceiling on Minus.png		Icon_Ceiling on Minus.png
Floor lamp +		
		
Icon_Floor on Plus.png		Icon_Floor on Plus.png
Floor lamp -		
		
Icon_Floor on Minus.png		Icon_Floor on Minus.png
Desk lamp +		
		
Icon_Desk on Plus.png		Icon_Desk on Plus.png
Desk lamp -		
		
Icon_Desk on Minus.png		Icon_Desk on Minus.png
Wall lamp +		
		
Icon_Wall on Plus.png		Icon_Wall on Plus.png
Wall lamp -		
		
Icon_Wall on Minus.png		Icon_Wall on Minus.png
Slider Type 1 horizontal		
		

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Icon_Slider_B_horizontal.png						
Slider Type 1 vertical						
						
Icon_Slider_B_vertical.png						
Slider Type 2 horizontal						
						
Icon_Slider-A_horizontal.png						
Slider Type 2 vertical						
						
Icon_Slider-A_vertical.png						
RGB						
						
Icon_RGB.png						
Gauge						
						
Icon_General-Analog.png						
Matrix Element						
						
Icon_Thumbnails.png			Icon_Thumbnails.png		Icon_Thumbnails.png	
Operating mode element						
						
Icon_General Multistate.png			Icon_Comfort_2.png	Icon_Precomfort (2).png	Icon_Night_A.png	Icon_Protection.png

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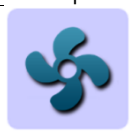
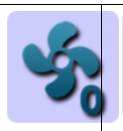
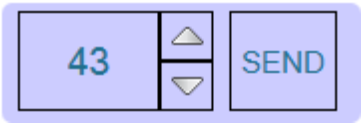
Operating mode element with auto						
						
Icon_General Multistate.png		Icon_Auto_2.png	Icon_Comfort_2.png	Icon_Precomfort (2).png	Icon_Night_A.png	Icon_Protection.png
Fan element 3 steps						
						
Icon_Fan.png			Icon_Fanstage0.png	Icon_Fanstage1.png	Icon_Fanstage2.png	Icon_Fanstage3.png
Fan element 5 steps						
						
Icon_Fan.png	Icon_Fanstage0.png	Icon_Fanstage1.png	Icon_Fanstage2.png	Icon_Fanstage3.png	Icon_Fanstage4.png	Icon_Fanstage5.png
Advanced element						
						
Icon_NavigationSettings.png						
Send value						
						
Icon_Value-Input.png						
Alarm Status						
						
Icon_OK_NotAckn.png				Icon_OK_NotAckn.png		
Audio/Video	**Datapoint types and pre-defined values individually adjustably**					
Enable						
						
Icon_Enable.png				Icon_Enable.png		
Put on standby						
						
Icon_Standby.png				Icon_Standby.png		
Sound ON						

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Icon_Sound on.png		Icon_Sound on.png
Sound OFF		
		
Icon_Sound off.png		Icon_Sound off.png
Sound mute		
		
Icon_Sound mute.png		Icon_Sound mute.png
Begin		
		
Icon_Begin.png		Icon_Begin.png
End		
		
Icon_End.png		Icon_End.png
Fast rewind		
		
Icon_Fast_Rewind.png		Icon_Fast_Rewind.png
Fast Forward		
		
Icon_Fast_Forward.png		Icon_Fast_Forward.png
Pause		
		
Icon_Pause.png		Icon_Pause.png
Play		
		
Icon_Play.png		Icon_Play.png
Stop		

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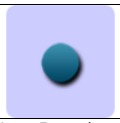
Icon_Stop.png		Icon_Stop.png
Record		
		
Icon_Record.png		Icon_Record.png
Eject		
		
Icon_Eject.png		Icon_Eject.png
Shuffle		
		
Icon_Shuffle.png		Icon_Shuffle.png
Frequency		
		
Icon_Slider-B.png		Icon_Slider-B.png
AV		
		
Icon_AV.png		Icon_AV.png
Navigation elements		
Container		
		
Icon_Site.png		
Page navigator (transparent)		
		Link
Icon_Navigation.png		
Page navigator		

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Icon_Navigation.png		
Label (transparent)		
		
Icon_ID.png		
Label		
		
Icon_ID.png		
Image		
		
Icon_Picture.png		
Touch Displays Settings		
		
Icon_Settings.png		Icon_Settings.png

19.3 Blue transparent

Operating- and display categories

Function preview	Value: 0 (Off)	Value 1 (On)
Switching general		
General OFF		
		
Icon_Off.png	Icon_Off.png	
General ON		
		
Icon_On.png		Icon_On.png
General TOGGLE I/O		
		
Icon_IO.png	Icon_IO.png	Icon_IO.png
General OFF		
		
Icon_Disable.png	Icon_Disable.png	
General ON		
		
Icon_Enable.png		Icon_Enable.png
General TOGGLE		
		
Icon_Enable.png	Icon_Disable.png	Icon_Enable.png
General STATUS		
		
Icon_Enable.png	Icon_Disable.png	Icon_Enable.png
Switching Miscellaneous	**Value: 0 (Off)**	**Value: 1 (On)**
EU socket TOGGLE		
		
Icon_EU on.png	Icon_EU off.png	Icon_EU on.png
EU socket OFF		
		

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Icon_EU off.png	Icon_EU off.png	
EU socket ON		
		
Icon_EU on.png		Icon_EU on.png
Swiss socket TOGGLE		
		
Icon_Swiss on.png	Icon_Swiss off.png	Icon_Swiss on.png
Swiss socket OFF		
		
Icon_Swiss off.png	Icon_Swiss off.png	
Swiss socket ON		
		
Icon_Swiss on.png		Icon_Swiss on.png
Occupied TOGGLE		
		
Icon_Occupied.png	Icon_Unoccupied_alt.png	Icon_Occupied.png
Occupied		
		
Icon_Occupied.png		Icon_Occupied.png
Unoccupied		
		
Icon_Unoccupied_alt.png	Icon_Unoccupied_alt.png	
Heating OFF		
		
Icon_Heating off.png	Icon_Heating off.png	
Heating ON		
		
Icon_Heating on.png		Icon_Heating on.png
Boiler OFF		
		
Icon_Boiler off.png	Icon_Boiler off.png	

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Boiler ON		
		
Icon_Boiler on.png		Icon_Boiler on.png
Beamer OFF		
		
Icon_Beamer off.png	Icon_Beamer off.png	
Beamer ON		
		
Icon_Beamer on.png		Icon_Beamer on.png
Fax machine OFF		
		
Icon_FaxB off.png	Icon_FaxB off.png	
Fax machine ON		
		
Icon_FaxB on.png		Icon_FaxB on.png
Notebook OFF		
		
Icon_Notebook off.png	Icon_Notebook off.png	
Notebook ON		
		
Icon_Notebook on.png		Icon_Notebook on.png
Printer OFF		
		
Icon_Printer off.png	Icon_Printer off.png	
Printer ON		
		
Icon_Printer on.png		Icon_Printer on.png
Monitor OFF		
		
Icon_Screen.png	Icon_Screen.png	
Monitor ON		

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Icon_Screen (2).png		Icon_Screen (2).png
Coffee machine OFF		
		
Icon_Coffeemachine off.png	Icon_Coffeemachine off.png	
Coffee machine ON		
		
Icon_Coffeemachine on.png		Icon_Coffeemachine on.png
TV OFF		
		
Icon_TV.png	Icon_TV.png	
TV ON		
		
Icon_TV on.png		Icon_TV on.png
Microwave OFF		
		
Icon_Microwave off.png	Icon_Microwave off.png	
Microwave ON		
		
Icon_Microwave on.png		Icon_Microwave on.png
Washing machine OFF		
		
Icon_Washmachine off.png	Icon_Washmachine off.png	
Washing machine ON		
		
Icon_Washmachine on.png		Icon_Washmachine on.png
Oven OFF		
		
Icon_Oven off.png	Icon_Oven off.png	
Oven ON		

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Icon_Oven on.png		Icon_Oven on.png
Dishwasher OFF		
		
Icon_Dishwasher off.png	Icon_Dishwasher off.png	
Dishwasher ON		
		
Icon_Dishwasher on.png		Icon_Dishwasher on.png
Fridge OFF		
		
Icon_Fridge off.png	Icon_Fridge off.png	
Fridge ON		
		
Icon_Fridge on.png		Icon_Fridge on.png
Fume extraction hood OFF		
		
Icon_Fume off.png	Icon_Fume off.png	
Fume extraction hood ON		
		
Icon_Fume on.png		Icon_Fume on.png
Electric iron OFF		
		
Icon_Iron off.png	Icon_Iron off.png	
Electric iron ON		
		
Icon_Iron on.png		Icon_Iron on.png
Fountain OFF		
		
Icon_Fountain off Kopie.png	Icon_Fountain off Kopie.png	
Fountain ON		

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Icon_Fountain on.png		Icon_Fountain on.png
Forced controlled OFF		
		
Icon_Guide off.png	Icon_Guide off.png	
Forced controlled ON		
		
Icon_Guide on.png		Icon_Guide on.png
Switching Light	**Value: 0 (Off)**	**Value: 1 (On)**
Light OFF		
		
Icon_Light off.png	Icon_Light off.png	
Light ON		
		
Icon_Light on.png		Icon_Light on.png
Light TOGGLE		
		
Icon_Light on.png	Icon_Light off.png	Icon_Light on.png
Light STATUS		
		
Icon_Light on.png	Icon_Light off.png	Icon_Light on.png
Ceiling Light OFF		
		
Icon_Ceiling off.png	Icon_Ceiling off.png	
Ceiling Light ON		
		
Icon_Ceiling on.png		Icon_Ceiling on.png
Ceiling Light TOGGLE		
		
Icon_Ceiling on.png	Icon_Ceiling off.png	Icon_Ceiling on.png

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Ceiling Light STATUS		
		
Icon_Ceiling on.png	Icon_Ceiling off.png	Icon_Ceiling on.png
Floor lamp OFF		
		
Icon_Floor off.png	Icon_Floor off.png	
Floor lamp ON		
		
Icon_Floor on.png		Icon_Floor on.png
Floor lamp TOGGLE		
		
Icon_Floor on.png	Icon_Floor off.png	Icon_Floor on.png
Floor lamp STATUS		
		
Icon_Floor on.png	Icon_Floor off.png	Icon_Floor on.png
Desk lamp TOGGLE		
		
Icon_Desk off.png	Icon_Desk off.png	
Desk lamp ON		
		
Icon_Desk on.png		Icon_Desk on.png
Desk lamp TOGGLE		
		
Icon_Desk on.png	Icon_Desk off.png	Icon_Desk on.png
Desk lamp STATUS		
		
Icon_Desk on.png	Icon_Desk off.png	Icon_Desk on.png
Wall lamp OFF		
		
Icon_Wall off.png	Icon_Wall off.png	
Wall lamp ON		

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Icon_Wall on.png		Icon_Wall on.png
Wall lamp TOGGLE		
		
Icon_Wall on.png	Icon_Wall off.png	Icon_Wall on.png
Wall lamp STATUS		
		
Icon_Wall on.png	Icon_Wall off.png	Icon_Wall on.png
Status General	**Value: 0 (Off)**	**Value: 1 (On)**
EU socket Status		
		
Icon_EU on.png	Icon_EU off.png	Icon_EU on.png
Swiss socket Status		
		
Icon_Swiss on.png	Icon_Swiss off.png	Icon_Swiss on.png
Occupied Status		
		
Icon_Occupied.png	Icon_Unoccupied_alt.png	Icon_Occupied.png
Heating Status		
		
Icon_Heating on.png	Icon_Heating off.png	Icon_Heating on.png
Boiler Status		
		
Icon_Boiler on.png	Icon_Boiler off.png	Icon_Boiler on.png
Beamer Status		
		
Icon_Beamer on.png	Icon_Beamer off.png	Icon_Beamer on.png
Fax machine Status		
		
Icon_FaxB on.png	Icon_FaxB off.png	Icon_FaxB on.png
Notebook Status		

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Icon_Notebook on.png	Icon_Notebook off.png	Icon_Notebook on.png
Printer Status		
		
Icon_Printer on.png	Icon_Printer off.png	Icon_Printer on.png
Monitor Status		
		
Icon_Screen (2).png	Icon_Screen.png	Icon_Screen (2).png
Coffee machine Status		
		
Icon_Coffeemachine on.png	Icon_Coffeemachine off.png	Icon_Coffeemachine on.png
TV Status		
		
Icon_TV on.png	Icon_TV.png	Icon_TV on.png
Microwave Status		
		
Icon_Microwave on.png	Icon_Microwave off.png	Icon_Microwave on.png
Washing machine Status		
		
Icon_Washmachine on.png	Icon_Washmachine off.png	Icon_Washmachine on.png
Oven Status		
		
Icon_Oven on.png	Icon_Oven off.png	Icon_Oven on.png
Dishwasher Status		
		
Icon_Dishwasher on.png	Icon_Dishwasher off.png	Icon_Dishwasher on.png
Fridge Status		
		
Icon_Fridge on.png	Icon_Fridge off.png	Icon_Fridge on.png
Fume extraction hood Status		

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Icon_Fume on.png	Icon_Fume off.png	Icon_Fume on.png
Electric iron Status		
		
Icon_Iron on.png	Icon_Iron off.png	Icon_Iron on.png
Fountain Status		
		
Icon_Fountain on.png	Icon_Fountain off Kopie.png	Icon_Fountain on.png
Forced controlled Status		
		
Icon_Guide on.png	Icon_Guide off.png	Icon_Guide on.png
Sunblind Status		
		
Icon_Shutter.png	Icon_Shutter off.png	Icon_Shutter on.png
Awning Status		
		
Icon_Awning on.png	Icon_Awning off.png	Icon_Awning on.png
Windows Status		
		
Icon_Window open.png	Icon_Window closed.png	Icon_Window open.png
Rooflight Status		
		
Icon_Rooflight off Kopie.png	Icon_Rooflight off.png	Icon_Rooflight off Kopie.png
Door Status		
		
Icon_Door open.png	Icon_Door closed.png	Icon_Door open.png
Domelight Status		
		
Icon_Domelight on.png	Icon_Domelight off.png	Icon_Domelight on.png

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Garage door Status		
		
Icon_Garage on.png	Icon_Garage off.png	Icon_Garage on.png
Air quality Status		
		
Icon_Air Quality.png	Icon_Air Poor.png	Icon_Air Quality.png
Value Status		
		Value
Icon_Value-Status.png		
Shutter/Blind	**Value 0 (UP)**	**Value 1 (DOWN)**
Sunblind TOGGLE (short/long press)		
		
Icon_Blind.png	Icon_Blind.png	Icon_Blind.png
Sunblind TOGGLE (short/long press)		
		
Icon_Awning.png	Icon_Awning.png	Icon_Awning.png
Sunblind TOGGLE (short/long press)		
		
Icon_Blind 2.png	Icon_Blind 2.png	Icon_Blind 2.png
Shutter TOGGLE (short/long press)		
		
Icon_Shutter.png	Icon_Shutter.png	Icon_Shutter.png
UP command (short/long press)		
		
Icon_Up_1.png	Icon_Up_1.png	
DOWN command (short/long press)		
		

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Icon_Down_1.png		Icon_Down_1.png
UP command		
		
Icon_Up_1.png	Icon_Up_1.png	
DOWN command		
		
Icon_Down_1.png		Icon_Down_1.png
UP command		
		
Icon_Up_2.png	Icon_Up_2.png	
DOWN command		
		
Icon_Down_2.png		Icon_Down_2.png
Sublind UP (short/long press)		
		
Icon_Blind up.png	Icon_Blind up.png	
Sunblind DOWN (short/long press)		
		
Icon_Blind down.png		Icon_Blind down.png
Sunblind UP		
		
Icon_Blind up.png	Icon_Blind up.png	
Sunblind DOWN		
		
Icon_Blind down.png		Icon_Blind down.png
Slat UP		
		
Icon_Blade_open.png		Icon_Blade_open.png
Slat DOWN		
		
Icon_Blade_closed.png	Icon_Blade_closed.png	

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Shutter UP		
		
Icon_Shutter up.png	Icon_Shutter up.png	
Shutter DOWN		
		
Icon_Schutter down.png		Icon_Schutter down.png
Awning OPEN		
		
Icon_Awning on.png		Icon_Awning on.png
Awning CLOSED		
		
Icon_Awning off.png	Icon_Awning off.png	
Window OPEN		
		
Icon_Window open.png		Icon_Window open.png
Window CLOSED		
		
Icon_Window closed.png	Icon_Window closed.png	
Rooflight OPEN		
		
Icon_Rooflight off Kopie.png		Icon_Rooflight off Kopie.png
Rooflight CLOSED		
		
Icon_Rooflight off.png	Icon_Rooflight off.png	
Door OPEN		
		
Icon_Door open.png		Icon_Door open.png
Door CLOSED		
		
Icon_Door closed.png	Icon_Door closed.png	
Domelight OPEN		

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Icon_Domelight on.png		Icon_Domelight on.png
Domelight CLOSED		
		
Icon_Domelight off.png	Icon_Domelight off.png	
Garage door OPEN		
		
Icon_Garage on.png	Icon_Garage on.png	
Garage door CLOSED		
		
Icon_Garage off.png		Icon_Garage off.png
Canvas UP		
		
Icon_Canvas off.png	Icon_Canvas off.png	
Canvas DOWN		
		
Icon_Canvas on.png		Icon_Canvas on.png
STOP command		
		
Icon_Stop.png	Icon_Stop.png	
HVAC	**Value 0**	**Value 1**
Manual mode		
		
Icon_Manual (2).png	Icon_Manual (2).png	
Automatic mode		
		
Icon_Auto_2.png		Icon_Auto_2.png
Automatic mode Status		
		

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Icon_Auto_2.png	Icon_Manual (2).png	Icon_Auto_2.png
Comfort mode		
		
Icon_Comfort_2.png		Icon_Comfort_2.png
Pre-Comfort mode		
		
Icon_Precomfort (2).png		Icon_Precomfort (2).png
Economy mode		
		
Icon_Night_A.png		Icon_Night_A.png
Protection mode		
		
Icon_Protection.png		Icon_Protection.png
Comfort Prolongation		
		
Icon_Prolongation.png		Icon_Prolongation.png
Heating / cooling		
		
Icon_Heating_State.png		Icon_Heating_State.png
Heating / cooling Status		
		
Icon_Heating_State.png	Icon_Cooling_State.png	Icon_Heating_State.png
Dewpoint mode Status		
		
Icon_Humidity.png		Icon_Humidity.png
Frost protection Status		
		
Icon_Frost.png		Icon_Frost.png
Fan stage 0		
		
Icon_fanstage-0.png		Icon_fanstage-0.png

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Fan stage 1		
		
Icon_fanstage-1.png		Icon_fanstage-1.png
Fan stage 2		
		
Icon_fanstage-2.png		Icon_fanstage-2.png
Fan stage 3		
		
Icon_fanstage-3.png		Icon_fanstage-3.png
Fan stage 4		
		
Icon_fanstage-4.png		Icon_fanstage-4.png
Fan stage 5		
		
Icon_fanstage-5.png		Icon_fanstage-5.png
Scenes		Value 1
Scene meeting		
		
Icon_Meeting.png		Icon_Meeting.png
Scene presentation		
		
Icon_Presentation.png		Icon_Presentation.png
Scene occupied		
		
Icon_Occupied.png		Icon_Occupied.png
Scene unoccupied		
		
Icon_Unoccupied_alt.png		Icon_Unoccupied_alt.png
Scene green leaf		

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Icon_Green Leaf.png		Icon_Green Leaf.png
Scene working		
		
Icon_Working.png		Icon_Working.png
Scene break		
		
Icon_Break.png		Icon_Break.png
Scene relax		
		
Icon_Couch.png		Icon_Couch.png
Scene dinner		
		
Icon_Dinner.png		Icon_Dinner.png
Scene cooking		
		
Icon_Kitchen.png		Icon_Kitchen.png
Scene party		
		
Icon_Party.png		Icon_Party.png
Scene fireplace		
		
Icon_Fireplace.png		Icon_Fireplace.png
Scene sleep		
		
Icon_Sleep.png		Icon_Sleep.png

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Advanced Elements	Individual values into dependence of the datapoint type and the selected advanced element	
Step +		
		
Icon_Plus.png		Icon_Plus.png
Step -		
Icon_Minus.png		Icon_Minus.png
Fan +		
		
Icon_fanstage-up.png		Icon_fanstage-up.png
Fan –		
		
Icon_fanstage-down.png		Icon_fanstage-down.png
Light+		
		
Icon_Light on Plus.png		Icon_Light on Plus.png
Light-		
		
Icon_Light off Plus 92.png		Icon_Light off Plus 92.png
Ceiling light+		
		
Icon_Ceiling on Plus.png		Icon_Ceiling on Plus.png
Ceiling light-		
		
Icon_Ceiling on Minus.png		Icon_Ceiling on Minus.png
Floor lamp +		
		
Icon_Floor on Plus.png		Icon_Floor on Plus.png

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Floor lamp -		
		
Icon_Floor on Minus.png		Icon_Floor on Minus.png
Desk lamp +		
		
Icon_Desk on Plus.png		Icon_Desk on Plus.png
Desk lamp -		
		
Icon_Desk on Minus.png		Icon_Desk on Minus.png
Wall lamp +		
		
Icon_Wall on Plus.png		Icon_Wall on Plus.png
Wall lamp -		
		
Icon_Wall on Minus.png		Icon_Wall on Minus.png
Slider Type 1 horizontal		
		
Icon_Slider_B_horizontal.png		
Slider Type 1 vertical		
		
Icon_Slider_B_vertical.png		
Slider Type 2 horizontal		
		
Icon_Slider-A_horizontal.png		
Slider Type 2 vertical		

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Icon_Slider-A_vertical.png						
RGB						
						
Icon_RGB.png						
Gauge						
						
Icon_General-Analog.png						
Matrix Element						
						
Icon_Thumbnails.png		Icon_Thumbnails.png		Icon_Thumbnails.png		
Operating mode element						
						
Icon_General Multistate.png			Icon_Comfort_2.png	Icon_Precomfort (2).png	Icon_Night_A.png	Icon_Protection.png
Operating mode element with auto						
						
Icon_General Multistate.png		Icon_Auto_2.png	Icon_Comfort 2.png	Icon_Precomfort (2).png	Icon_Night_A.png	Icon_Protection.png
Fan element 3 steps						
						
Icon_Fan.png			Icon_Fanstage0.png	Icon_Fanstage1.png	Icon_Fanstage2.png	Icon_Fanstage3.png
Fan element 5 steps						

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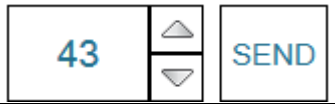
Icon_Fan.png	Icon_Fanstage0.png	Icon_Fanstage1.png	Icon_Fanstage2.png	Icon_Fanstage3.png	Icon_Fanstage4.png	Icon_Fanstage5.png
Advanced element						
				Value		
Icon_NavigationSettings.png						
Send value						
						
Icon_Value-Input.png						
Alarm Status						
						
Icon_OK_NotAckn.png				Icon_OK_NotAckn.png		
Audio/Video	**Datapoint types and pre-defined values individually adjustably**					
Enable						
						
Icon_Enable.png				Icon_Enable.png		
Put on standby						
						
Icon_Standby.png				Icon_Standby.png		
Sound ON						
						
Icon_Sound on.png				Icon_Sound on.png		
Sound OFF						
						
Icon_Sound off.png				Icon_Sound off.png		
Sound mute						
						

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Icon_Sound mute.png		Icon_Sound mute.png
Begin		
		
Icon_Begin.png		Icon_Begin.png
End		
		
Icon_End.png		Icon_End.png
Fast rewind		
		
Icon_Fast_Rewind.png		Icon_Fast_Rewind.png
Fast Forward		
		
Icon_Fast_Forward.png		Icon_Fast_Forward.png
Pause		
		
Icon_Pause.png		Icon_Pause.png
Play		
		
Icon_Play.png		Icon_Play.png
Stop		
		
Icon_Stop.png		Icon_Stop.png
Record		
		
Icon_Record.png		Icon_Record.png
Eject		

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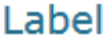
Icon_Eject.png		Icon_Eject.png
Shuffle		
		
Icon_Shuffle.png		Icon_Shuffle.png
Frequency		
		
Icon_Slider-B.png		Icon_Slider-B.png
AV		
		
Icon_AV.png		Icon_AV.png
Navigation elements		
Container		
		
Icon_Site.png		
Page navigator		
		
Icon_Navigation.png		
Label		
		
Icon_ID.png		
Image		
		
Icon_Picture.png		
Touch Display Settings		

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Icon_Settings.png		Icon_Settings.png

Additional Icons are on the IP Control Center in the path:
visuelements\standard\blue_transparent

									
Icon_Activation.png	Icon_Alarm_ok.png	Icon_Alarm_state.png	Icon_Alarm---Ackn.png	Icon_Alarm-Fire_V2.png	Icon_Alarm-Gas.png	Icon_Audio.png	Icon_Auto.png	Icon_Bag_A.png	Icon_Bag_B.png
									
Icon_Bath.png	Icon_Battery.png	Icon_Blade_Position.png	Icon_blind2_position.png	Icon_Blind_Position.png	Icon_Burner.png	Icon_Calendar.png	Icon_Cancel.png	Icon_Cleaning.png	Icon_Clock.png
									
Icon_Cloud.png	Icon_Cloudy.png	Icon_Comfort.png	Icon_Contrast.png	Icon_Cooling_State.png	Icon_Cut.png	Icon_Delete.png	Icon_DHW.png	Icon_Dimming.png	Icon_Dimming_2.png
									
Icon_Dinner.png	Icon_Document.png	Icon_DoNotDisturb.png	Icon_Economy.png	Icon_Edit.png	Icon_Effect.png	Icon_EscapeRight.png	Icon_Exit.png	Icon_Favorites.png	Icon_FaxA-off.png
									
Icon_FaxA-on.png	Icon_Fire-Sensor.png	Icon_Folder.png	Icon_Forward.png	Icon_Garage_Car.png	Icon_Garden.png	Icon_Wind.png	Icon_Global.png	Icon_Green-Leaf.png	Icon_Green-Leaf-alt.png
									
Icon_Gym.png	Icon_Heat pump.png	Icon_Help.png	Icon_Home.png	Icon_Hourglass.png	Icon_Humidity.png	Icon_Information.png	Icon_IP_Camera_B.png	Icon_IP_Camera_C.png	Icon_Language.png
									
Icon_Library.png	Icon_Lifesafety.png	Icon_List.png	Icon_Location.png	Icon_Lock.png	Icon_Login.png	Icon_Logout.png	Icon_Maintenance.png	Icon_Make-Room.png	Icon_Manual.png
									
Icon_Network.png	Icon_Night_B.png	Icon_No Access.png	Icon_Notification.png	Icon_Office.png	Icon_OK.png	Icon_Ok---Akn.png	Icon_Out-of-Service.png	Icon_Outside-Temperature.png	Icon_Outside-Temperature_alt.png
									
Icon_Phone.png	Icon_Plant.png	Icon_Pool.png	Icon_Power.png	Icon_Precomfort.png	Icon_Rain.png	Icon_Repeat.png	Icon_Reply.png	Icon_Return.png	Icon_RGBw.png

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Icon_Room-Temperature.png	Icon_Save.png	Icon_Scenes.png	Icon_Service.png	Icon_Set.png	Icon_Set_Value.png	Icon_Shutter_position.png	Icon_Step-0.png	Icon_Step-1.png	Icon_Step-2.png
									
Icon_Step-3.png	Icon_Storm.png	Icon_Sun.png	Icon_Sunblind_Position.png	Icon_Support.png	Icon_Switch.png	Icon_Temperature.png	Icon_Temperature_set.png	Icon_Trend.png	Icon_Unlock.png
									
Icon_Usergroup.png	Icon_Warning.png	Icon_Water.png	Icon_Weather.png	Icon_Wifi.png					

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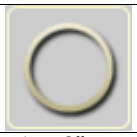
19.4 Creme frame

Operating- and display categories

Function preview	**Value: 0 (Off)**	**Value 1 (On)**
Switching general		
General OFF		
		
Icon_Off.png	Icon_Off.png	
General ON		
		
Icon_On.png		Icon_On.png
General TOGGLE I/O		
		
Icon_IO.png	Icon_IO.png	Icon_IO.png
General OFF		
		
Icon_Disable.png	Icon_Disable.png	
General ON		
		
Icon_Enable.png		Icon_Enable.png
General TOGGLE		
		
Icon_Enable.png	Icon_Disable.png	Icon_Enable.png
General STATUS		
		
Icon_Enable.png	Icon_Disable.png	Icon_Enable.png
Switching Miscellaneous	**Value: 0 (Off)**	**Value: 1 (On)**
EU socket TOGGLE		

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Icon_EU on.png	Icon_EU off.png	Icon_EU on.png
EU socket OFF		
		
Icon_EU off.png	Icon_EU off.png	
EU socket ON		
		
Icon_EU on.png		Icon_EU on.png
Swiss socket TOGGLE		
		
Icon_Swiss on.png	Icon_Swiss off.png	Icon_Swiss on.png
Swiss socket OFF		
		
Icon_Swiss off.png	Icon_Swiss off.png	
Swiss socket ON		
		
Icon_Swiss on.png		Icon_Swiss on.png
Occupied TOGGLE		
		
Icon_Occupied.png	Icon_Unoccupied_alt.png	Icon_Occupied.png
Occupied		
		
Icon_Occupied.png		Icon_Occupied.png
Unoccupied		
		

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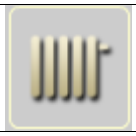
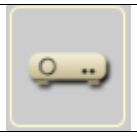
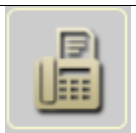
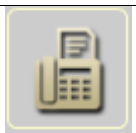
Icon_Unoccupied_alt.png	Icon_Unoccupied_alt.png	
Heating OFF		
		
Icon_Heating off.png	Icon_Heating off.png	
Heating ON		
		
Icon_Heating on.png		Icon_Heating on.png
Boiler OFF		
		
Icon_Boiler off.png	Icon_Boiler off.png	
Boiler ON		
		
Icon_Boiler on.png		Icon_Boiler on.png
Beamer OFF		
		
Icon_Beamer off.png	Icon_Beamer off.png	
Beamer ON		
		
Icon_Beamer on.png		Icon_Beamer on.png
Fax machine OFF		
		
Icon_FaxB off.png	Icon_FaxB off.png	
Fax machine ON		
		
Icon_FaxB on.png		Icon_FaxB on.png
Notebook OFF		

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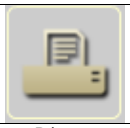
Icon_Notebook off.png	Icon_Notebook off.png	
Notebook ON		
		
Icon_Notebook on.png		Icon_Notebook on.png
Printer OFF		
		
Icon_Printer off.png	Icon_Printer off.png	
Printer ON		
		
Icon_Printer on.png		Icon_Printer on.png
Monitor OFF		
		
Icon_Screen.png	Icon_Screen.png	
Monitor ON		
		
Icon_Screen (2).png		Icon_Screen (2).png
Coffee machine OFF		
		
Icon_Coffeemachine off.png	Icon_Coffeemachine off.png	
Coffee machine ON		
		
Icon_Coffeemachine on.png		Icon_Coffeemachine on.png
TV OFF		
		
Icon_TV.png	Icon_TV.png	

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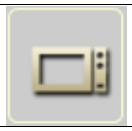
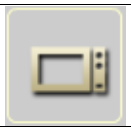
TV ON		
		
Icon_TV on.png		Icon_TV on.png
Microwave OFF		
		
Icon_Microwave off.png	Icon_Microwave off.png	
Microwave ON		
		
Icon_Microwave on.png		Icon_Microwave on.png
Washing machine OFF		
		
Icon_Washmachine off.png	Icon_Washmachine off.png	
Washing machine ON		
		
Icon_Washmachine on.png		Icon_Washmachine on.png
Oven OFF		
		
Icon_Oven off.png	Icon_Oven off.png	
Oven ON		
		
Icon_Oven on.png		Icon_Oven on.png
Dishwasher OFF		
		
Icon_Dishwasher off.png	Icon_Dishwasher off.png	
Dishwasher ON		
		
Icon_Dishwasher on.png		Icon_Dishwasher on.png

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Fridge OFF		
		
Icon_Fridge off.png	Icon_Fridge off.png	
Fridge ON		
		
Icon_Fridge on.png		Icon_Fridge on.png
Fume extraction hood OFF		
		
Icon_Fume off.png	Icon_Fume off.png	
Fume extraction hood ON		
		
Icon_Fume on.png		Icon_Fume on.png
Electric iron OFF		
		
Icon_Iron off.png	Icon_Iron off.png	
Electric iron ON		
		
Icon_Iron on.png		Icon_Iron on.png
Fountain OFF		
		
Icon_Fountain off Kopie.png	Icon_Fountain off Kopie.png	
Fountain ON		
		
Icon_Fountain on.png		Icon_Fountain on.png
Forced controlled OFF		

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Icon_Guide off.png	Icon_Guide off.png	
Forced controlled ON		
		
Icon_Guide on.png		Icon_Guide on.png
Switching Light	**Value: 0 (Off)**	**Value: 1 (On)**
Light OFF		
		
Icon_Light off.png	Icon_Light off.png	
Light ON		
		
Icon_Light on.png		Icon_Light on.png
Light TOGGLE		
		
Icon_Light on.png	Icon_Light off.png	Icon_Light on.png
Light STATUS		
		
Icon_Light on.png	Icon_Light off.png	Icon_Light on.png
Ceiling Light OFF		
		
Icon_Ceiling off.png	Icon_Ceiling off.png	
Ceiling Light ON		
		
Icon_Ceiling on.png		Icon_Ceiling on.png
Ceiling Light TOGGLE		

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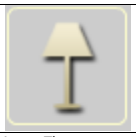
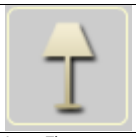
Icon_Ceiling on.png	Icon_Ceiling off.png	Icon_Ceiling on.png
Ceiling Light STATUS		
		
Icon_Ceiling on.png	Icon_Ceiling off.png	Icon_Ceiling on.png
Floor lamp OFF		
		
Icon_Floor off.png	Icon_Floor off.png	
Floor lamp ON		
		
Icon_Floor on.png		Icon_Floor on.png
Floor lamp TOGGLE		
		
Icon_Floor on.png	Icon_Floor off.png	Icon_Floor on.png
Floor lamp STATUS		
		
Icon_Floor on.png	Icon_Floor off.png	Icon_Floor on.png
Desk lamp TOGGLE		
		
Icon_Desk off.png	Icon_Desk off.png	
Desk lamp ON		
		
Icon_Desk on.png		Icon_Desk on.png
Desk lamp TOGGLE		
		

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Icon_Desk on.png	Icon_Desk off.png	Icon_Desk on.png
Desk lamp STATUS		
		
Icon_Desk on.png	Icon_Desk off.png	Icon_Desk on.png
Wall lamp OFF		
		
Icon_Wall off.png	Icon_Wall off.png	
Wall lamp ON		
		
Icon_Wall on.png		Icon_Wall on.png
Wall lamp TOGGLE		
		
Icon_Wall on.png	Icon_Wall off.png	Icon_Wall on.png
Wall lamp STATUS		
		
Icon_Wall on.png	Icon_Wall off.png	Icon_Wall on.png
Status General	**Value: 0 (Off)**	**Value: 1 (On)**
EU socket Status		
		
Icon_EU on.png	Icon_EU off.png	Icon_EU on.png
Swiss socket Status		
		
Icon_Swiss on.png	Icon_Swiss off.png	Icon_Swiss on.png
Occupied Status		
		
Icon_Occupied.png	Icon_Unoccupied_alt.png	Icon_Occupied.png
Heating Status		

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Icon_Heating on.png	Icon_Heating off.png	Icon_Heating on.png
Boiler Status		
		
Icon_Boiler on.png	Icon_Boiler off.png	Icon_Boiler on.png
Beamer Status		
		
Icon_Beamer on.png	Icon_Beamer off.png	Icon_Beamer on.png
Fax machine Status		
		
Icon_FaxB on.png	Icon_FaxB off.png	Icon_FaxB on.png
Notebook Status		
		
Icon_Notebook on.png	Icon_Notebook off.png	Icon_Notebook on.png
Printer Status		
		
Icon_Printer on.png	Icon_Printer off.png	Icon_Printer on.png
Monitor Status		
		
Icon_Screen (2).png	Icon_Screen.png	Icon_Screen (2).png
Coffee machine Status		
		
Icon_Coffeemachine on.png	Icon_Coffeemachine off.png	Icon_Coffeemachine on.png
TV Status		
		
Icon_TV on.png	Icon_TV.png	Icon_TV on.png
Microwave Status		
		
Icon_Microwave on.png	Icon_Microwave off.png	Icon_Microwave on.png

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Washing machine Status		
		
Icon_Washmachine on.png	Icon_Washmachine off.png	Icon_Washmachine on.png
Oven Status		
		
Icon_Oven on.png	Icon_Oven off.png	Icon_Oven on.png
Dishwasher Status		
		
Icon_Dishwasher on.png	Icon_Dishwasher off.png	Icon_Dishwasher on.png
Fridge Status		
		
Icon_Fridge on.png	Icon_Fridge off.png	Icon_Fridge on.png
Fume extraction hood Status		
		
Icon_Fume on.png	Icon_Fume off.png	Icon_Fume on.png
Electric iron Status		
		
Icon_Iron on.png	Icon_Iron off.png	Icon_Iron on.png
Fountain Status		
		
Icon_Fountain on.png	Icon_Fountain off Kopie.png	Icon_Fountain on.png
Forced controlled Status		
		
Icon_Guide on.png	Icon_Guide off.png	Icon_Guide on.png
Sunblind Status		
		
Icon_Shutter.png	Icon_Shutter off.png	Icon_Shutter on.png
Awning Status		
		

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Icon_Awning on.png	Icon_Awning off.png	Icon_Awning on.png
Windows Status		
		
Icon_Window open.png	Icon_Window closed.png	Icon_Window open.png
Rooflight Status		
		
Icon_Rooflight off Kopie.png	Icon_Rooflight off.png	Icon_Rooflight off Kopie.png
Door Status		
		
Icon_Door open.png	Icon_Door closed.png	Icon_Door open.png
Domelight Status		
		
Icon_Domelight on.png	Icon_Domelight off.png	Icon_Domelight on.png
Garage door Status		
		
Icon_Garage on.png	Icon_Garage off.png	Icon_Garage on.png
Air quality Status		
		
Icon_Air Quality.png	Icon_Air Poor.png	Icon_Air Quality.png
Value Status (transparent)		
		
Icon_Value-Status.png		
Value Status		
		
Icon_Value-Status.png		
Shutter/Blind	**Value 0 (UP)**	**Value 1 (DOWN)**
Sunblind TOGGLE (short/long press)		

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Icon_Blind.png	Icon_Blind.png	Icon_Blind.png
Sunblind TOGGLE (short/long press)		
		
Icon_Awning.png	Icon_Awning.png	Icon_Awning.png
Sunblind TOGGLE (short/long press)		
		
Icon_Blind 2.png	Icon_Blind 2.png	Icon_Blind 2.png
Shutter TOGGLE (short/long press)		
		
Icon_Shutter.png	Icon_Shutter.png	Icon_Shutter.png
UP command (short/long press)		
		
Icon_Up_1.png	Icon_Up_1.png	
DOWN command (short/long press)		
		
Icon_Down_1.png		Icon_Down_1.png
UP command		
		
Icon_Up_1.png	Icon_Up_1.png	
DOWN command		
		
Icon_Down_1.png		Icon_Down_1.png
UP command		

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	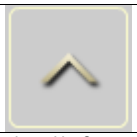	
Icon_Up_2.png	Icon_Up_2.png	
DOWN command		
		
Icon_Down_2.png		Icon_Down_2.png
Sublind UP (short/long press)		
		
Icon_Blind up.png	Icon_Blind up.png	
Sunblind DOWN (short/long press)		
		
Icon_Blind down.png		Icon_Blind down.png
Sunblind UP		
		
Icon_Blind up.png	Icon_Blind up.png	
Sunblind DOWN		
		
Icon_Blind down.png		Icon_Blind down.png
Slat UP		
		
Icon_Blade_open.png		Icon_Blade_open.png
Slat DOWN		
		
Icon_Blade_closed.png	Icon_Blade_closed.png	
Shutter UP		
		

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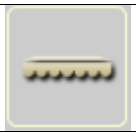
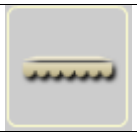
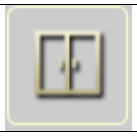
Icon_Shutter up.png	Icon_Shutter up.png	
Shutter DOWN		
		
Icon_Schutter down.png		Icon_Schutter down.png
Awning OPEN		
		
Icon_Awning on.png		Icon_Awning on.png
Awning CLOSED		
		
Icon_Awning off.png	Icon_Awning off.png	
Window OPEN		
		
Icon_Window open.png		Icon_Window open.png
Window CLOSED		
		
Icon_Window closed.png	Icon_Window closed.png	
Rooflight OPEN		
		
Icon_Rooflight off Kopie.png		Icon_Rooflight off Kopie.png
Rooflight CLOSED		
		
Icon_Rooflight off.png	Icon_Rooflight off.png	
Door OPEN		
		
Icon_Door open.png		Icon_Door open.png
Door CLOSED		

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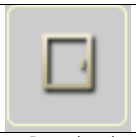	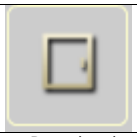	
Icon_Door closed.png	Icon_Door closed.png	
Domelight OPEN		
		
Icon_Domelight on.png		Icon_Domelight on.png
Domelight CLOSED		
		
Icon_Domelight off.png	Icon_Domelight off.png	
Garage door OPEN		
		
Icon_Garage on.png	Icon_Garage on.png	
Garage door CLOSED		
		
Icon_Garage off.png		Icon_Garage off.png
Canvas UP		
		
Icon_Canvas off.png	Icon_Canvas off.png	
Canvas DOWN		
		
Icon_Canvas on.png		Icon_Canvas on.png
STOP command		
		
Icon_Stop.png	Icon_Stop.png	
HVAC	**Value 0**	**Value 1**
Manual mode		

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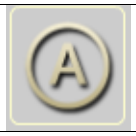
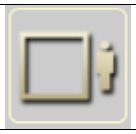
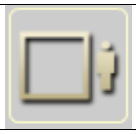
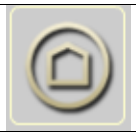
Icon_Manual (2).png	Icon_Manual (2).png	
Automatic mode		
		
Icon_Auto_2.png		Icon_Auto_2.png
Automatic mode Status		
		
Icon_Auto_2.png	Icon_Manual (2).png	Icon_Auto_2.png
Comfort mode		
		
Icon_Comfort_2.png		Icon_Comfort_2.png
Pre-Comfort mode		
		
Icon_Precomfort (2).png		Icon_Precomfort (2).png
Economy mode		
		
Icon_Night_A.png		Icon_Night_A.png
Protection mode		
		
Icon_Protection.png		Icon_Protection.png
Comfort Prolongation		
		
Icon_Prolongation.png		Icon_Prolongation.png
Heating / cooling		

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Icon_Heating_State.png		Icon_Heating_State.png
Heating / cooling Status		
		
Icon_Heating_State.png	Icon_Cooling_State.png	Icon_Heating_State.png
Dewpoint mode Status		
		
Icon_Humidity.png		Icon_Humidity.png
Frost protection Status		
		
Icon_Frost.png		Icon_Frost.png
Fan stage 0		
		
Icon_fanstage-0.png		Icon_fanstage-0.png
Fan stage 1		
		
Icon_fanstage-1.png		Icon_fanstage-1.png
Fan stage 2		
		
Icon_fanstage-2.png		Icon_fanstage-2.png
Fan stage 3		
		
Icon_fanstage-3.png		Icon_fanstage-3.png
Fan stage 4		
		
Icon_fanstage-4.png		Icon_fanstage-4.png

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Fan stage 5		
		
Icon_fanstage-5.png		Icon_fanstage-5.png
Scenes		Value 1
Scene meeting		
		
Icon_Meeting.png		Icon_Meeting.png
Scene presentation		
		
Icon_Presentation.png		Icon_Presentation.png
Scene occupied		
		
Icon_Occupied.png		Icon_Occupied.png
Scene unoccupied		
		
Icon_Unoccupied_alt.png		Icon_Unoccupied_alt.png
Scene green leaf		
		
Icon_Green Leaf.png		Icon_Green Leaf.png
Scene working		
		
Icon_Working.png		Icon_Working.png
Scene break		
		
Icon_Break.png		Icon_Break.png
Scene relax		

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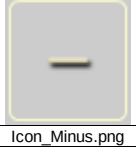
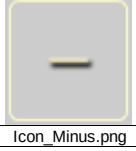
Icon_Couch.png		Icon_Couch.png
Scene dinner		
		
Icon_Dinner.png		Icon_Dinner.png
Scene cooking		
		
Icon_Kitchen.png		Icon_Kitchen.png
Scene party		
		
Icon_Party.png		Icon_Party.png
Scene fireplace		
		
Icon_Fireplace.png		Icon_Fireplace.png
Scene sleep		
		
Icon_Sleep.png		Icon_Sleep.png
Advanced Elements	Individual values into dependence of the datapoint type and the selected advanced element	
Step +		
		
Icon_Plus.png		Icon_Plus.png
Step -		
		
Icon_Minus.png		Icon_Minus.png
Fan +		

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Icon_fanstage-up.png		Icon_fanstage-up.png
Fan –		
		
Icon_fanstage-down.png		Icon_fanstage-down.png
Light+		
		
Icon_Light on Plus.png		Icon_Light on Plus.png
Light-		
		
Icon_Light off Plus 92.png		Icon_Light off Plus 92.png
Ceiling light+		
		
Icon_Ceiling on Plus.png		Icon_Ceiling on Plus.png
Ceiling light-		
		
Icon_Ceiling on Minus.png		Icon_Ceiling on Minus.png
Floor lamp +		
		
Icon_Floor on Plus.png		Icon_Floor on Plus.png
Floor lamp -		
		
Icon_Floor on Minus.png		Icon_Floor on Minus.png
Desk lamp +		

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Icon_Desk on Plus.png		Icon_Desk on Plus.png
Desk lamp -		
		
Icon_Desk on Minus.png		Icon_Desk on Minus.png
Wall lamp +		
		
Icon_Wall on Plus.png		Icon_Wall on Plus.png
Wall lamp -		
		
Icon_Wall on Minus.png		Icon_Wall on Minus.png
Slider Type 1 horizontal		
		
Icon_Slider_B_horizontal.png		
Slider Type 1 vertical		
		
Icon_Slider_B_vertical.png		
Slider Type 2 horizontal		
		
Icon_Slider-A_horizontal.png		
Slider Type 2 vertical		
		
Icon_Slider-A_vertical.png		
RGB		

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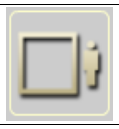
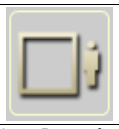
Icon_RGB.png						
Gauge						
						
Icon_General-Analog.png						
Matrix Element						
						
Icon_Thumbnails.png		Icon_Thumbnails.png			Icon_Thumbnails.png	
Operating mode element						
						
Icon_General Multistate.png			Icon_Comfort_2.png	Icon_Precomfort (2).png	Icon_Night_A.png	Icon_Protection.png
Operating mode element with auto						
						
Icon_General Multistate.png		Icon_Auto_2.png	Icon_Comfort_2.png	Icon_Precomfort (2).png	Icon_Night_A.png	Icon_Protection.png
Fan element 3 steps						
						
Icon_Fan.png			Icon_Fanstage 0.png	Icon_Fanstage1.png	Icon_Fanstage2.png	Icon_Fanstage3.png
Fan element 5 steps						
						
Icon_Fan.png	Icon_Fanstage0.png	Icon_Fanstage1.png	Icon_Fanstage 2.png	Icon_Fanstage3.png	Icon_Fanstage4.png	Icon_Fanstage5.png
Advanced element						

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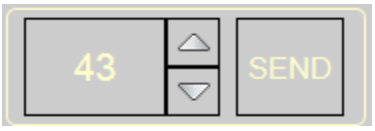
Icon_NavigationSettings.png		
Send value		
		
Icon_Value-Input.png		
Alarm Status		
		
Icon_OK NotAckn.png		Icon_OK NotAckn.png
Audio/Video	**Datapoint types and pre-defined values individually adjustably**	
Enable		
		
Icon_Enable.png		Icon_Enable.png
Put on standby		
		
Icon_Standby.png		Icon_Standby.png
Sound ON		
		
Icon_Sound on.png		Icon_Sound on.png
Sound OFF		
		
Icon_Sound off.png		Icon_Sound off.png
Sound mute		
		
Icon_Sound mute.png		Icon_Sound mute.png
Begin		

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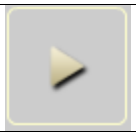
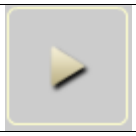
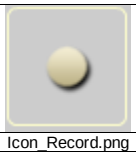
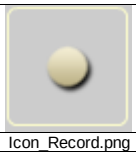
Icon_Begin.png		Icon_Begin.png
End		
		
Icon_End.png		Icon_End.png
Fast rewind		
		
Icon_Fast_Rewind.png		Icon_Fast_Rewind.png
Fast Forward		
		
Icon_Fast_Forward.png		Icon_Fast_Forward.png
Pause		
		
Icon_Pause.png		Icon_Pause.png
Play		
		
Icon_Play.png		Icon_Play.png
Stop		
		
Icon_Stop.png		Icon_Stop.png
Record		
		
Icon_Record.png		Icon_Record.png
Eject		
		

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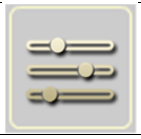
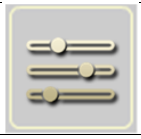
Icon_Eject.png		Icon_Eject.png
Shuffle		
		
Icon_Shuffle.png		Icon_Shuffle.png
Frequency		
		
Icon_Slider-B.png		Icon_Slider-B.png
AV		
		
Icon_AV.png		Icon_AV.png
Navigation elements		
Container		
		
Icon_Site.png		
Page navigator (transparent)		
		
Icon_Navigation.png		
Page navigator		
		
Icon_Navigation.png		
Label (transparent)		
		
Icon_ID.png		
Label		
		
Icon_ID.png		

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Image		
		
Icon_Picture.png		
Touch Display Settings		
		
Icon_Settings.png		Icon_Settings.png

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19.5 Creme ocher

Operating- and display categories

Function preview	Value: 0 (Off)	Value 1 (On)
Switching general		
General OFF		
		
Icon_Off.png	Icon_Off.png	
General ON		
		
Icon_On.png		Icon_On.png
General TOGGLE I/O		
		
Icon_IO.png	Icon_IO.png	Icon_IO.png
General OFF		
		
Icon_Disable.png	Icon_Disable.png	
General ON		
		
Icon_Enable.png		Icon_Enable.png
General TOGGLE		
		
Icon_Enable.png	Icon_Disable.png	Icon_Enable.png
General STATUS		
		
Icon_Enable.png	Icon_Disable.png	Icon_Enable.png
Switching Miscellaneous	**Value: 0 (Off)**	**Value: 1 (On)**
EU socket TOGGLE		
		
Icon_EU on.png	Icon_EU off.png	Icon_EU on.png
EU socket OFF		

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Icon_EU off.png	Icon_EU off.png	
EU socket ON		
		
Icon_EU on.png		Icon_EU on.png
Swiss socket TOGGLE		
		
Icon_Swiss on.png	Icon_Swiss off.png	Icon_Swiss on.png
Swiss socket OFF		
		
Icon_Swiss off.png	Icon_Swiss off.png	
Swiss socket ON		
		
Icon_Swiss on.png		Icon_Swiss on.png
Occupied TOGGLE		
		
Icon_Occupied.png	Icon_Unoccupied_alt.png	Icon_Occupied.png
Occupied		
		
Icon_Occupied.png		Icon_Occupied.png
Unoccupied		
		
Icon_Unoccupied_alt.png	Icon_Unoccupied_alt.png	
Heating OFF		
		
Icon_Heating off.png	Icon_Heating off.png	
Heating ON		
		
Icon_Heating on.png		Icon_Heating on.png

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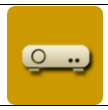
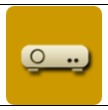
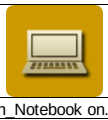
Boiler OFF		
		
Icon_Boiler off.png	Icon_Boiler off.png	
Boiler ON		
		
Icon_Boiler on.png		Icon_Boiler on.png
Beamer OFF		
		
Icon_Beamer off.png	Icon_Beamer off.png	
Beamer ON		
		
Icon_Beamer on.png		Icon_Beamer on.png
Fax machine OFF		
		
Icon_FaxB off.png	Icon_FaxB off.png	
Fax machine ON		
		
Icon_FaxB on.png		Icon_FaxB on.png
Notebook OFF		
		
Icon_Notebook off.png	Icon_Notebook off.png	
Notebook ON		
		
Icon_Notebook on.png		Icon_Notebook on.png
Printer OFF		
		
Icon_Printer off.png	Icon_Printer off.png	
Printer ON		
		
Icon_Printer on.png		Icon_Printer on.png
Monitor OFF		

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Icon_Screen.png	Icon_Screen.png	
Monitor ON		
		
Icon_Screen (2).png		Icon_Screen (2).png
Coffee machine OFF		
		
Icon_Coffeemachine off.png	Icon_Coffeemachine off.png	
Coffee machine ON		
		
Icon_Coffeemachine on.png		Icon_Coffeemachine on.png
TV OFF		
		
Icon_TV.png	Icon_TV.png	
TV ON		
		
Icon_TV on.png		Icon_TV on.png
Microwave OFF		
		
Icon_Microwave off.png	Icon_Microwave off.png	
Microwave ON		
		
Icon_Microwave on.png		Icon_Microwave on.png
Washing machine OFF		
		
Icon_Washmachine off.png	Icon_Washmachine off.png	
Washing machine ON		
		
Icon_Washmachine on.png		Icon_Washmachine on.png
Oven OFF		

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Icon_Oven off.png	Icon_Oven off.png	
Oven ON		
		
Icon_Oven on.png		Icon_Oven on.png
Dishwasher OFF		
		
Icon_Dishwasher off.png	Icon_Dishwasher off.png	
Dishwasher ON		
		
Icon_Dishwasher on.png		Icon_Dishwasher on.png
Fridge OFF		
		
Icon_Fridge off.png	Icon_Fridge off.png	
Fridge ON		
		
Icon_Fridge on.png		Icon_Fridge on.png
Fume extraction hood OFF		
		
Icon_Fume off.png	Icon_Fume off.png	
Fume extraction hood ON		
		
Icon_Fume on.png		Icon_Fume on.png
Electric iron OFF		
		
Icon_Iron off.png	Icon_Iron off.png	
Electric iron ON		
		
Icon_Iron on.png		Icon_Iron on.png
Fountain OFF		

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Icon_Fountain off Kopie.png	Icon_Fountain off Kopie.png	
Fountain ON		
		
Icon_Fountain on.png		Icon_Fountain on.png
Forced controlled OFF		
		
Icon_Guide off.png	Icon_Guide off.png	
Forced controlled ON		
		
Icon_Guide on.png		Icon_Guide on.png
Switching Light	**Value: 0 (Off)**	**Value: 1 (On)**
Light OFF		
		
Icon_Light off.png	Icon_Light off.png	
Light ON		
		
Icon_Light on.png		Icon_Light on.png
Light TOGGLE		
		
Icon_Light on.png	Icon_Light off.png	Icon_Light on.png
Light STATUS		
		
Icon_Light on.png	Icon_Light off.png	Icon_Light on.png
Ceiling Light OFF		
		
Icon_Ceiling off.png	Icon_Ceiling off.png	
Ceiling Light ON		

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Icon_Ceiling on.png		Icon_Ceiling on.png
Ceiling Light TOGGLE		
		
Icon_Ceiling on.png	Icon_Ceiling off.png	Icon_Ceiling on.png
Ceiling Light STATUS		
		
Icon_Ceiling on.png	Icon_Ceiling off.png	Icon_Ceiling on.png
Floor lamp OFF		
		
Icon_Floor off.png	Icon_Floor off.png	
Floor lamp ON		
		
Icon_Floor on.png		Icon_Floor on.png
Floor lamp TOGGLE		
		
Icon_Floor on.png	Icon_Floor off.png	Icon_Floor on.png
Floor lamp STATUS		
		
Icon_Floor on.png	Icon_Floor off.png	Icon_Floor on.png
Desk lamp TOGGLE		
		
Icon_Desk off.png	Icon_Desk off.png	
Desk lamp ON		
		
Icon_Desk on.png		Icon_Desk on.png
Desk lamp TOGGLE		
		
Icon_Desk on.png	Icon_Desk off.png	Icon_Desk on.png
Desk lamp STATUS		

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Icon_Desk on.png	Icon_Desk off.png	Icon_Desk on.png
Wall lamp OFF		
		
Icon_Wall off.png	Icon_Wall off.png	
Wall lamp ON		
		
Icon_Wall on.png		Icon_Wall on.png
Wall lamp TOGGLE		
		
Icon_Wall on.png	Icon_Wall off.png	Icon_Wall on.png
Wall lamp STATUS		
		
Icon_Wall on.png	Icon_Wall off.png	Icon_Wall on.png
Status General	**Value: 0 (Off)**	**Value: 1 (On)**
EU socket Status		
		
Icon_EU on.png	Icon_EU off.png	Icon_EU on.png
Swiss socket Status		
		
Icon_Swiss on.png	Icon_Swiss off.png	Icon_Swiss on.png
Occupied Status		
		
Icon_Occupied.png	Icon_Unoccupied_alt.png	Icon_Occupied.png
Heating Status		
		
Icon_Heating on.png	Icon_Heating off.png	Icon_Heating on.png
Boiler Status		

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Icon_Boiler on.png	Icon_Boiler off.png	Icon_Boiler on.png
Beamer Status		
		
Icon_Beamer on.png	Icon_Beamer off.png	Icon_Beamer on.png
Fax machine Status		
		
Icon_FaxB on.png	Icon_FaxB off.png	Icon_FaxB on.png
Notebook Status		
		
Icon_Notebook on.png	Icon_Notebook off.png	Icon_Notebook on.png
Printer Status		
		
Icon_Printer on.png	Icon_Printer off.png	Icon_Printer on.png
Monitor Status		
		
Icon_Screen (2).png	Icon_Screen.png	Icon_Screen (2).png
Coffee machine Status		
		
Icon_Coffeemachine on.png	Icon_Coffeemachine off.png	Icon_Coffeemachine on.png
TV Status		
		
Icon_TV on.png	Icon_TV.png	Icon_TV on.png
Microwave Status		
		
Icon_Microwave on.png	Icon_Microwave off.png	Icon_Microwave on.png
Washing machine Status		
		
Icon_Washmachine on.png	Icon_Washmachine off.png	Icon_Washmachine on.png

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Oven Status		
		
Icon_Oven on.png	Icon_Oven off.png	Icon_Oven on.png
Dishwasher Status		
		
Icon_Dishwasher on.png	Icon_Dishwasher off.png	Icon_Dishwasher on.png
Fridge Status		
		
Icon_Fridge on.png	Icon_Fridge off.png	Icon_Fridge on.png
Fume extraction hood Status		
		
Icon_Fume on.png	Icon_Fume off.png	Icon_Fume on.png
Electric iron Status		
		
Icon_Iron on.png	Icon_Iron off.png	Icon_Iron on.png
Fountain Status		
		
Icon_Fountain on.png	Icon_Fountain off Kopie.png	Icon_Fountain on.png
Forced controlled Status		
		
Icon_Guide on.png	Icon_Guide off.png	Icon_Guide on.png
Sunblind Status		
		
Icon_Shutter.png	Icon_Shutter off.png	Icon_Shutter on.png
Awning Status		
		
Icon_Awning on.png	Icon_Awning off.png	Icon_Awning on.png
Windows Status		

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Icon_Window open.png	Icon_Window closed.png	Icon_Window open.png
Rooflight Status		
		
Icon_Rooflight off Kopie.png	Icon_Rooflight off.png	Icon_Rooflight off Kopie.png
Door Status		
		
Icon_Door open.png	Icon_Door closed.png	Icon_Door open.png
Domelight Status		
		
Icon_Domelight on.png	Icon_Domelight off.png	Icon_Domelight on.png
Garage door Status		
		
Icon_Garage on.png	Icon_Garage off.png	Icon_Garage on.png
Air quality Status		
		
Icon_Air Quality.png	Icon_Air Poor.png	Icon_Air Quality.png
Value Status (transparent)		
		
Icon_Value-Status.png		
Value Status		
		
Icon_Value-Status.png		
Shutter/Blind	**Value 0 (UP)**	**Value 1 (DOWN)**
Sunblind TOGGLE (short/long press)		
		
Icon_Blind.png	Icon_Blind.png	Icon_Blind.png

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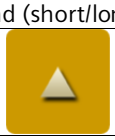
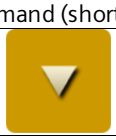
Sunblind TOGGLE (short/long press)		
		
Icon_Awning.png	Icon_Awning.png	Icon_Awning.png
Sunblind TOGGLE (short/long press)		
		
Icon_Blind 2.png	Icon_Blind 2.png	Icon_Blind 2.png
Shutter TOGGLE (short/long press)		
		
Icon_Shutter.png	Icon_Shutter.png	Icon_Shutter.png
UP command (short/long press)		
		
Icon_Up_1.png	Icon_Up_1.png	
DOWN command (short/long press)		
		
Icon_Down_1.png		Icon_Down_1.png
UP command		
		
Icon_Up_1.png	Icon_Up_1.png	
DOWN command		
		
Icon_Down_1.png		Icon_Down_1.png
UP command		
		
Icon_Up_2.png	Icon_Up_2.png	
DOWN command		
		
Icon_Down_2.png		Icon_Down_2.png
Sublind UP (short/long press)		

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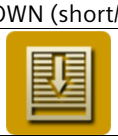
Icon_Blind up.png	Icon_Blind up.png	
Sunblind DOWN (short/long press)		
		
Icon_Blind down.png		Icon_Blind down.png
Sunblind UP		
		
Icon_Blind up.png	Icon_Blind up.png	
Sunblind DOWN		
		
Icon_Blind down.png		Icon_Blind down.png
Slat UP		
		
Icon_Blade_open.png		Icon_Blade_open.png
Slat DOWN		
		
Icon_Blade_closed.png	Icon_Blade_closed.png	
Shutter UP		
		
Icon_Shutter up.png	Icon_Shutter up.png	
Shutter DOWN		
		
Icon_Schutter down.png		Icon_Schutter down.png
Awning OPEN		
		
Icon_Awning on.png		Icon_Awning on.png
Awning CLOSED		
		
Icon_Awning off.png	Icon_Awning off.png	

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Window OPEN		
		
Icon_Window open.png		Icon_Window open.png
Window CLOSED		
		
Icon_Window closed.png	Icon_Window closed.png	
Rooflight OPEN		
		
Icon_Rooflight off Kopie.png		Icon_Rooflight off Kopie.png
Rooflight CLOSED		
		
Icon_Rooflight off.png	Icon_Rooflight off.png	
Door OPEN		
		
Icon_Door open.png		Icon_Door open.png
Door CLOSED		
		
Icon_Door closed.png	Icon_Door closed.png	
Domelight OPEN		
		
Icon_Domelight on.png		Icon_Domelight on.png
Domelight CLOSED		
		
Icon_Domelight off.png	Icon_Domelight off.png	
Garage door OPEN		
		
Icon_Garage on.png	Icon_Garage on.png	
Garage door CLOSED		

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Icon_Garage off.png		Icon_Garage off.png
Canvas UP		
		
Icon_Canvas off.png	Icon_Canvas off.png	
Canvas DOWN		
		
Icon_Canvas on.png		Icon_Canvas on.png
STOP command		
		
Icon_Stop.png	Icon_Stop.png	
HVAC	**Value 0**	**Value 1**
Manual mode		
		
Icon_Manual (2).png	Icon_Manual (2).png	
Automatic mode		
		
Icon_Auto_2.png		Icon_Auto_2.png
Automatic mode Status		
		
Icon_Auto_2.png	Icon_Manual (2).png	Icon_Auto_2.png
Comfort mode		
		
Icon_Comfort_2.png		Icon_Comfort_2.png
Pre-Comfort mode		
		
Icon_Precomfort (2).png		Icon_Precomfort (2).png
Economy mode		

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Icon_Night_A.png		Icon_Night_A.png
Protection mode		
		
Icon_Protection.png		Icon_Protection.png
Comfort Prolongation		
		
Icon_Prolongation.png		Icon_Prolongation.png
Heating / cooling		
		
Icon_Heating_State.png		Icon_Heating_State.png
Heating / cooling Status		
		
Icon_Heating_State.png	Icon_Cooling_State.png	Icon_Heating_State.png
Dewpoint mode Status		
		
Icon_Humidity.png		Icon_Humidity.png
Frost protection Status		
		
Icon_Frost.png		Icon_Frost.png
Fan stage 0		
		
Icon_fanstage-0.png		Icon_fanstage-0.png
Fan stage 1		
		
Icon_fanstage-1.png		Icon_fanstage-1.png
Fan stage 2		

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Icon_fanstage-2.png		Icon_fanstage-2.png
Fan stage 3		
		
Icon_fanstage-3.png		Icon_fanstage-3.png
Fan stage 4		
		
Icon_fanstage-4.png		Icon_fanstage-4.png
Fan stage 5		
		
Icon_fanstage-5.png		Icon_fanstage-5.png
Scenes		Value 1
Scene meeting		
		
Icon_Meeting.png		Icon_Meeting.png
Scene presentation		
		
Icon_Presentation.png		Icon_Presentation.png
Scene occupied		
		
Icon_Occupied.png		Icon_Occupied.png
Scene unoccupied		
		
Icon_Unoccupied_alt.png		Icon_Unoccupied_alt.png
Scene green leaf		
		
Icon_Green Leaf.png		Icon_Green Leaf.png
Scene working		

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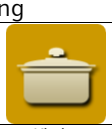
Icon_Working.png		Icon_Working.png
Scene break		
		
Icon_Break.png		Icon_Break.png
Scene relax		
		
Icon_Couch.png		Icon_Couch.png
Scene dinner		
		
Icon_Dinner.png		Icon_Dinner.png
Scene cooking		
		
Icon_Kitchen.png		Icon_Kitchen.png
Scene party		
		
Icon_Party.png		Icon_Party.png
Scene fireplace		
		
Icon_Fireplace.png		Icon_Fireplace.png
Scene sleep		
		
Icon_Sleep.png		Icon_Sleep.png
Advanced Elements	Individual values into dependence of the datapoint type and the selected advanced element	
Step +		
		
Icon_Plus.png		Icon_Plus.png
Step -		

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Icon_Minus.png		Icon_Minus.png
Fan +		
		
Icon_fanstage-up.png		Icon_fanstage-up.png
Fan –		
		
Icon_fanstage-down.png		Icon_fanstage-down.png
Light+		
		
Icon_Light on Plus.png		Icon_Light on Plus.png
Light-		
		
Icon_Light off Plus 92.png		Icon_Light off Plus 92.png
Ceiling light+		
		
Icon_Ceiling on Plus.png		Icon_Ceiling on Plus.png
Ceiling light-		
		
Icon_Ceiling on Minus.png		Icon_Ceiling on Minus.png
Floor lamp +		
		
Icon_Floor on Plus.png		Icon_Floor on Plus.png
Floor lamp -		
		
Icon_Floor on Minus.png		Icon_Floor on Minus.png
Desk lamp +		

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Icon_Desk on Plus.png		Icon_Desk on Plus.png
Desk lamp -		
		
Icon_Desk on Minus.png		Icon_Desk on Minus.png
Wall lamp +		
		
Icon_Wall on Plus.png		Icon_Wall on Plus.png
Wall lamp -		
		
Icon_Wall on Minus.png		Icon_Wall on Minus.png
Slider Type 1 horizontal		
		
Icon_Slider_B_horizontal.png		
Slider Type 1 vertical		
		
Icon_Slider_B_vertical.png		
Slider Type 2 horizontal		
		
Icon_Slider-A_horizontal.png		
Slider Type 2 vertical		
		
Icon_Slider-A_vertical.png		
RGB		

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Icon_RGB.png						
Gauge						
						
Icon_General-Analog.png						
Matrix Element						
						
Icon_Thumbnails.png		Icon_Thumbnails.png		Icon_Thumbnails.png		
Operating mode element						
						
Icon_General Multistate.png			Icon_Comfort_2.png	Icon_Precomfort (2).png	Icon_Night_A.png	Icon_Protection.png
Operating mode element with auto						
						
Icon_General Multistate.png		Icon_Auto_2.png	Icon_Comfort_2.png	Icon_Precomfort (2).png	Icon_Night_A.png	Icon_Protection.png
Fan element 3 steps						
						
Icon_Fan.png			Icon_Fanstage 0.png	Icon_Fanstage1.png	Icon_Fanstage2.png	Icon_Fanstage3.png
Fan element 5 steps						
						
Icon_Fan.png	Icon_Fanstage0.png	Icon_Fanstage1.png	Icon_Fanstage 2.png	Icon_Fanstage3.png	Icon_Fanstage4.png	Icon_Fanstage5.png
Advanced element						

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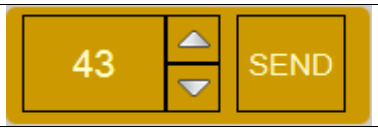
Icon_NavigationSettings.png		
Send value		
		
Icon_Value-Input.png		
Alarm Status		
		
Icon_OK_NotAckn.png		Icon_OK_NotAckn.png
Audio/Video	**Datapoint types and pre-defined values individually adjustably**	
Enable		
		
Icon_Enable.png		Icon_Enable.png
Put on standby		
		
Icon_Standby.png		Icon_Standby.png
Sound ON		
		
Icon_Sound on.png		Icon_Sound on.png
Sound OFF		
		
Icon_Sound off.png		Icon_Sound off.png
Sound mute		
		
Icon_Sound mute.png		Icon_Sound mute.png
Begin		
		
Icon_Begin.png		Icon_Begin.png
End		

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Icon_End.png		Icon_End.png
Fast rewind		
		
Icon_Fast_Rewind.png		Icon_Fast_Rewind.png
Fast Forward		
		
Icon_Fast_Forward.png		Icon_Fast_Forward.png
Pause		
		
Icon_Pause.png		Icon_Pause.png
Play		
		
Icon_Play.png		Icon_Play.png
Stop		
		
Icon_Stop.png		Icon_Stop.png
Record		
		
Icon_Record.png		Icon_Record.png
Eject		
		
Icon_Eject.png		Icon_Eject.png
Shuffle		
		
Icon_Shuffle.png		Icon_Shuffle.png
Frequency		

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Icon_Slider-B.png		Icon_Slider-B.png
AV		
		
Icon_AV.png		Icon_AV.png
Navigation elements		
Container		
		
Icon_Site.png		
Page navigator (transparent)		
		
Icon_Navigation.png		
Page navigator		
		
Icon_Navigation.png		
Label (transparent)		
		
Icon_ID.png		
Label		
		
Icon_ID.png		
Image		
		
Icon_Picture.png		
Touch Displays Settings		

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Icon_Settings.png		Icon_Settings.png

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19.6 Creme transparent

Operating- and display categories

Function preview	**Value: 0 (Off)**	**Value 1 (On)**
Switching general		
General OFF		
		
Icon_Off.png	Icon_Off.png	
General ON		
		
Icon_On.png		Icon_On.png
General TOGGLE I/O		
		
Icon_IO.png	Icon_IO.png	Icon_IO.png
General OFF		
		
Icon_Disable.png	Icon_Disable.png	
General ON		
		
Icon_Enable.png		Icon_Enable.png
General TOGGLE		
		
Icon_Enable.png	Icon_Disable.png	Icon_Enable.png
General STATUS		
		
Icon_Enable.png	Icon_Disable.png	Icon_Enable.png
Switching Miscellaneous	**Value: 0 (Off)**	**Value: 1 (On)**
EU socket TOGGLE		
		
Icon_EU on.png	Icon_EU off.png	Icon_EU on.png
EU socket OFF		

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Icon_EU off.png	Icon_EU off.png	
EU socket ON		
		
Icon_EU on.png		Icon_EU on.png
Swiss socket TOGGLE		
		
Icon_Swiss on.png	Icon_Swiss off.png	Icon_Swiss on.png
Swiss socket OFF		
		
Icon_Swiss off.png	Icon_Swiss off.png	
Swiss socket ON		
		
Icon_Swiss on.png		Icon_Swiss on.png
Occupied TOGGLE		
		
Icon_Occupied.png	Icon_Unoccupied_alt.png	Icon_Occupied.png
Occupied		
		
Icon_Occupied.png		Icon_Occupied.png
Unoccupied		
		
Icon_Unoccupied_alt.png	Icon_Unoccupied_alt.png	
Heating OFF		
		
Icon_Heating off.png	Icon_Heating off.png	
Heating ON		
		
Icon_Heating on.png		Icon_Heating on.png

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Boiler OFF		
		
Icon_Boiler off.png	Icon_Boiler off.png	
Boiler ON		
		
Icon_Boiler on.png		Icon_Boiler on.png
Beamer OFF		
		
Icon_Beamer off.png	Icon_Beamer off.png	
Beamer ON		
		
Icon_Beamer on.png		Icon_Beamer on.png
Fax machine OFF		
		
Icon_FaxB off.png	Icon_FaxB off.png	
Fax machine ON		
		
Icon_FaxB on.png		Icon_FaxB on.png
Notebook OFF		
		
Icon_Notebook off.png	Icon_Notebook off.png	
Notebook ON		
		
Icon_Notebook on.png		Icon_Notebook on.png
Printer OFF		
		
Icon_Printer off.png	Icon_Printer off.png	
Printer ON		
		

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Icon_Printer on.png		Icon_Printer on.png
Monitor OFF		
		
Icon_Screen.png	Icon_Screen.png	
Monitor ON		
		
Icon_Screen (2).png		Icon_Screen (2).png
Coffee machine OFF		
		
Icon_Coffeemachine off.png	Icon_Coffeemachine off.png	
Coffee machine ON		
		
Icon_Coffeemachine on.png		Icon_Coffeemachine on.png
TV OFF		
		
Icon_TV.png	Icon_TV.png	
TV ON		
		
Icon_TV on.png		Icon_TV on.png
Microwave OFF		
		
Icon_Microwave off.png	Icon_Microwave off.png	
Microwave ON		
		
Icon_Microwave on.png		Icon_Microwave on.png
Washing machine OFF		
		
Icon_Washmachine off.png	Icon_Washmachine off.png	
Washing machine ON		

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Icon_Washmachine on.png		Icon_Washmachine on.png
Oven OFF		
		
Icon_Oven off.png	Icon_Oven off.png	
Oven ON		
		
Icon_Oven on.png		Icon_Oven on.png
Dishwasher OFF		
		
Icon_Dishwasher off.png	Icon_Dishwasher off.png	
Dishwasher ON		
		
Icon_Dishwasher on.png		Icon_Dishwasher on.png
Fridge OFF		
		
Icon_Fridge off.png	Icon_Fridge off.png	
Fridge ON		
		
Icon_Fridge on.png		Icon_Fridge on.png
Fume extraction hood OFF		
		
Icon_Fume off.png	Icon_Fume off.png	
Fume extraction hood ON		
		
Icon_Fume on.png		Icon_Fume on.png
Electric iron OFF		
		
Icon_Iron off.png	Icon_Iron off.png	

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Electric iron ON		
		
Icon_Iron on.png		Icon_Iron on.png
Fountain OFF		
		
Icon_Fountain off Kopie.png	Icon_Fountain off Kopie.png	
Fountain ON		
		
Icon_Fountain on.png		Icon_Fountain on.png
Forced controlled OFF		
		
Icon_Guide off.png	Icon_Guide off.png	
Forced controlled ON		
		
Icon_Guide on.png		Icon_Guide on.png
Switching Light	**Value: 0 (Off)**	**Value: 1 (On)**
Light OFF		
		
Icon_Light off.png	Icon_Light off.png	
Light ON		
		
Icon_Light on.png		Icon_Light on.png
Light TOGGLE		
		
Icon_Light on.png	Icon_Light off.png	Icon_Light on.png
Light STATUS		
		

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Icon_Light on.png	Icon_Light off.png	Icon_Light on.png
Ceiling Light OFF		
		
Icon_Ceiling off.png	Icon_Ceiling off.png	
Ceiling Light ON		
		
Icon_Ceiling on.png		Icon_Ceiling on.png
Ceiling Light TOGGLE		
		
Icon_Ceiling on.png	Icon_Ceiling off.png	Icon_Ceiling on.png
Ceiling Light STATUS		
		
Icon_Ceiling on.png	Icon_Ceiling off.png	Icon_Ceiling on.png
Floor lamp OFF		
		
Icon_Floor off.png	Icon_Floor off.png	
Floor lamp ON		
		
Icon_Floor on.png		Icon_Floor on.png
Floor lamp TOGGLE		
		
Icon_Floor on.png	Icon_Floor off.png	Icon_Floor on.png
Floor lamp STATUS		
		
Icon_Floor on.png	Icon_Floor off.png	Icon_Floor on.png
Desk lamp TOGGLE		
		
Icon_Desk off.png	Icon_Desk off.png	
Desk lamp ON		

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Icon_Desk on.png		Icon_Desk on.png
Desk lamp TOGGLE		
		
Icon_Desk on.png	Icon_Desk off.png	Icon_Desk on.png
Desk lamp STATUS		
		
Icon_Desk on.png	Icon_Desk off.png	Icon_Desk on.png
Wall lamp OFF		
		
Icon_Wall off.png	Icon_Wall off.png	
Wall lamp ON		
		
Icon_Wall on.png		Icon_Wall on.png
Wall lamp TOGGLE		
		
Icon_Wall on.png	Icon_Wall off.png	Icon_Wall on.png
Wall lamp STATUS		
		
Icon_Wall on.png	Icon_Wall off.png	Icon_Wall on.png
Status General	**Value: 0 (Off)**	**Value: 1 (On)**
EU socket Status		
		
Icon_EU on.png	Icon_EU off.png	Icon_EU on.png
Swiss socket Status		
		
Icon_Swiss on.png	Icon_Swiss off.png	Icon_Swiss on.png
Occupied Status		

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Icon_Occupied.png	Icon_Unoccupied_alt.png	Icon_Occupied.png
Heating Status		
		
Icon_Heating on.png	Icon_Heating off.png	Icon_Heating on.png
Boiler Status		
		
Icon_Boiler on.png	Icon_Boiler off.png	Icon_Boiler on.png
Beamer Status		
		
Icon_Beamer on.png	Icon_Beamer off.png	Icon_Beamer on.png
Fax machine Status		
		
Icon_FaxB on.png	Icon_FaxB off.png	Icon_FaxB on.png
Notebook Status		
		
Icon_Notebook on.png	Icon_Notebook off.png	Icon_Notebook on.png
Printer Status		
		
Icon_Printer on.png	Icon_Printer off.png	Icon_Printer on.png
Monitor Status		
		
Icon_Screen (2).png	Icon_Screen.png	Icon_Screen (2).png
Coffee machine Status		
		
Icon_Coffeemachine on.png	Icon_Coffeemachine off.png	Icon_Coffeemachine on.png
TV Status		
		
Icon_TV on.png	Icon_TV.png	Icon_TV on.png

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Microwave Status		
		
Icon_Microwave on.png	Icon_Microwave off.png	Icon_Microwave on.png
Washing machine Status		
		
Icon_Washmachine on.png	Icon_Washmachine off.png	Icon_Washmachine on.png
Oven Status		
		
Icon_Oven on.png	Icon_Oven off.png	Icon_Oven on.png
Dishwasher Status		
		
Icon_Dishwasher on.png	Icon_Dishwasher off.png	Icon_Dishwasher on.png
Fridge Status		
		
Icon_Fridge on.png	Icon_Fridge off.png	Icon_Fridge on.png
Fume extraction hood Status		
		
Icon_Fume on.png	Icon_Fume off.png	Icon_Fume on.png
Electric iron Status		
		
Icon_Iron on.png	Icon_Iron off.png	Icon_Iron on.png
Fountain Status		
		
Icon_Fountain on.png	Icon_Fountain off Kopie.png	Icon_Fountain on.png
Forced controlled Status		
		
Icon_Guide on.png	Icon_Guide off.png	Icon_Guide on.png
Sunblind Status		
		

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Icon_Shutter.png	Icon_Shutter off.png	Icon_Shutter on.png
Awning Status		
		
Icon_Awning on.png	Icon_Awning off.png	Icon_Awning on.png
Windows Status		
		
Icon_Window open.png	Icon_Window closed.png	Icon_Window open.png
Rooflight Status		
		
Icon_Rooflight off Kopie.png	Icon_Rooflight off.png	Icon_Rooflight off Kopie.png
Door Status		
		
Icon_Door open.png	Icon_Door closed.png	Icon_Door open.png
Domelight Status		
		
Icon_Domelight on.png	Icon_Domelight off.png	Icon_Domelight on.png
Garage door Status		
		
Icon_Garage on.png	Icon_Garage off.png	Icon_Garage on.png
Air quality Status		
		
Icon_Air Quality.png	Icon_Air Poor.png	Icon_Air Quality.png
Value Status		
		
Icon_Value-Status.png		
Shutter/Blind	**Value 0 (UP)**	**Value 1 (DOWN)**
Sunblind TOGGLE (short/long press)		
		
Icon_Blind.png	Icon_Blind.png	Icon_Blind.png

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Sunblind TOGGLE (short/long press)		
		
Icon_Awning.png	Icon_Awning.png	Icon_Awning.png
Sunblind TOGGLE (short/long press)		
		
Icon_Blind 2.png	Icon_Blind 2.png	Icon_Blind 2.png
Sunblind TOGGLE (short/long press)		
		
Icon_Shutter.png	Icon_Shutter.png	Icon_Shutter.png
UP command (short/long press)		
		
Icon_Up_1.png	Icon_Up_1.png	
DOWN command (short/long press)		
		
Icon_Down_1.png		Icon_Down_1.png
UP command		
		
Icon_Up_1.png	Icon_Up_1.png	
DOWN command		
		
Icon_Down_1.png		Icon_Down_1.png
UP command		
		
Icon_Up_2.png	Icon_Up_2.png	
DOWN command		
		
Icon_Down_2.png		Icon_Down_2.png

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Sublind UP (short/long press)		
		
Icon_Blind up.png	Icon_Blind up.png	
Sunblind DOWN (short/long press)		
		
Icon_Blind down.png		Icon_Blind down.png
Sunblind UP		
		
Icon_Blind up.png	Icon_Blind up.png	
Sunblind DOWN		
		
Icon_Blind down.png		Icon_Blind down.png
Slat UP		
		
Icon_Blade_open.png		Icon_Blade_open.png
Slat DOWN		
		
Icon_Blade_closed.png	Icon_Blade_closed.png	
Shutter UP		
		
Icon_Shutter up.png	Icon_Shutter up.png	
Shutter DOWN		
		
Icon_Schutter down.png		Icon_Schutter down.png
Awning OPEN		
		
Icon_Awning on.png		Icon_Awning on.png
Awning CLOSED		

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Icon_Awning off.png	Icon_Awning off.png	
Window OPEN		
		
Icon_Window open.png		Icon_Window open.png
Window CLOSED		
		
Icon_Window closed.png	Icon_Window closed.png	
Rooflight OPEN		
		
Icon_Rooflight off Kopie.png		Icon_Rooflight off Kopie.png
Rooflight CLOSED		
		
Icon_Rooflight off.png	Icon_Rooflight off.png	
Door OPEN		
		
Icon_Door open.png		Icon_Door open.png
Door CLOSED		
		
Icon_Door closed.png	Icon_Door closed.png	
Domelight OPEN		
		
Icon_Domelight on.png		Icon_Domelight on.png
Domelight CLOSED		
		
Icon_Domelight off.png	Icon_Domelight off.png	
Garage door OPEN		

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Icon_Garage on.png	Icon_Garage on.png	
Garage door CLOSED		
		
Icon_Garage off.png		Icon_Garage off.png
Canvas UP		
		
Icon_Canvas off.png	Icon_Canvas off.png	
Canvas DOWN		
		
Icon_Canvas on.png		Icon_Canvas on.png
STOP command		
		
Icon_Stop.png	Icon_Stop.png	
HVAC	**Value 0**	**Value 1**
Manual mode		
		
Icon_Manual (2).png	Icon_Manual (2).png	
Automatic mode		
		
Icon_Auto_2.png		Icon_Auto_2.png
Automatic mode Status		
		
Icon_Auto_2.png	Icon_Manual (2).png	Icon_Auto_2.png
Comfort mode		
		
Icon_Comfort_2.png		Icon_Comfort_2.png
Pre-Comfort mode		

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Icon_Precomfort (2).png		Icon_Precomfort (2).png
Economy mode		
		
Icon_Night_A.png		Icon_Night_A.png
Protection mode		
		
Icon_Protection.png		Icon_Protection.png
Comfort Prolongation		
		
Icon_Prolongation.png		Icon_Prolongation.png
Heating / cooling		
		
Icon_Heating_State.png		Icon_Heating_State.png
Heating / cooling Status		
		
Icon_Heating_State.png	Icon_Cooling_State.png	Icon_Heating_State.png
Dewpoint mode Status		
		
Icon_Humidity.png		Icon_Humidity.png
Frost protection Status		
		
Icon_Frost.png		Icon_Frost.png
Fan stage 0		
		
Icon_fanstage-0.png		Icon_fanstage-0.png
Fan stage 1		

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Icon_fanstage-1.png		Icon_fanstage-1.png
Fan stage 2		
		
Icon_fanstage-2.png		Icon_fanstage-2.png
Fan stage 3		
		
Icon_fanstage-3.png		Icon_fanstage-3.png
Fan stage 4		
		
Icon_fanstage-4.png		Icon_fanstage-4.png
Fan stage 5		
		
Icon_fanstage-5.png		Icon_fanstage-5.png
Scenes		Value 1
Scene meeting		
		
Icon_Meeting.png		Icon_Meeting.png
Scene presentation		
		
Icon_Presentation.png		Icon_Presentation.png
Scene occupied		
		
Icon_Occupied.png		Icon_Occupied.png
Scene unoccupied		
		
Icon_Unoccupied_alt.png		Icon_Unoccupied_alt.png
Scene green leaf		

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Icon_Green Leaf.png		Icon_Green Leaf.png
Scene working		
		
Icon_Working.png		Icon_Working.png
Scene break		
		
Icon_Break.png		Icon_Break.png
Scene relax		
		
Icon_Couch.png		Icon_Couch.png
Scene dinner		
		
Icon_Dinner.png		Icon_Dinner.png
Scene cooking		
		
Icon_Kitchen.png		Icon_Kitchen.png
Scene party		
		
Icon_Party.png		Icon_Party.png
Scene fireplace		
		
Icon_Fireplace.png		Icon_Fireplace.png
Scene sleep		
		
Icon_Sleep.png		Icon_Sleep.png
Advanced Elements	Individual values into dependence of the datapoint type and the selected advanced element	

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Step +		
		
Icon_Plus.png		Icon_Plus.png
Step -		
Icon_Minus.png		Icon_Minus.png
Fan +		
		
Icon_fanstage-up.png		Icon_fanstage-up.png
Fan –		
		
Icon_fanstage-down.png		Icon_fanstage-down.png
Light+		
		
Icon_Light on Plus.png		Icon_Light on Plus.png
Light-		
		
Icon_Light off Plus 92.png		Icon_Light off Plus 92.png
Ceiling light+		
		
Icon_Ceiling on Plus.png		Icon_Ceiling on Plus.png
Ceiling light-		
		
Icon_Ceiling on Minus.png		Icon_Ceiling on Minus.png
Floor lamp +		
		
Icon_Floor on Plus.png		Icon_Floor on Plus.png
Floor lamp -		

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Icon_Floor on Minus.png		Icon_Floor on Minus.png
Desk lamp +		
		
Icon_Desk on Plus.png		Icon_Desk on Plus.png
Desk lamp -		
		
Icon_Desk on Minus.png		Icon_Desk on Minus.png
Wall lamp +		
		
Icon_Wall on Plus.png		Icon_Wall on Plus.png
Wall lamp -		
		
Icon_Wall on Minus.png		Icon_Wall on Minus.png
Slider Type 1 horizontal		
		
Icon_Slider_B_horizontal.png		
Slider Type 1 vertical		
		
Icon_Slider_B_vertical.png		
Slider Type 2 horizontal		
		
Icon_Slider-A_horizontal.png		
Slider Type 2 vertical		

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Icon_Slider-A_vertical.png						
RGB						
						
Icon_RGB.png						
Gauge						
						
Icon_General-Analog.png						
Matrix Element						
						
Icon_Thumbnails.png	Icon_Thumbnails.png			Icon_Thumbnails.png		
Operating mode element						
						
Icon_General Multistate.png			Icon_Comfort_2.png	Icon_Precomfort (2).png	Icon_Night_A.png	Icon_Protection.png
Operating mode element with auto						
						
Icon_General Multistate.png		Icon_Auto_2.png	Icon_Comfort_2.png	Icon_Precomfort (2).png	Icon_Night_A.png	Icon_Protection.png
Fan element 3 steps						
						
Icon_Fan.png			Icon_Fanstage0.png	Icon_Fanstage1.png	Icon_Fanstage2.png	Icon_Fanstage3.png

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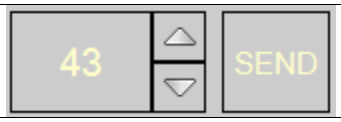
Fan element 5 steps						
						
Icon_Fan.png	Icon_Fanstage0.png	Icon_Fanstage1.png	Icon_Fanstage2.png	Icon_Fanstage3.png	Icon_Fanstage4.png	Icon_Fanstage5.png
Advanced element						
						
Icon_NavigationSettings.png						
Send value						
						
Icon_Value-Input.png						
Alarm Status						
						
Icon_OK_NotAckn.png				Icon_OK_NotAckn.png		
Audio/Video	**Datapoint types and pre-defined values individually adjustably**					
Enable						
						
Icon_Enable.png				Icon_Enable.png		
Put on standby						
						
Icon_Standby.png				Icon_Standby.png		
Sound ON						
						
Icon_Sound on.png				Icon_Sound on.png		
Sound OFF						
						
Icon_Sound off.png				Icon_Sound off.png		
Sound mute						
						

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Icon_Sound mute.png		Icon_Sound mute.png
Begin		
		
Icon_Begin.png		Icon_Begin.png
End		
		
Icon_End.png		Icon_End.png
Fast rewind		
		
Icon_Fast_Rewind.png		Icon_Fast_Rewind.png
Fast Forward		
		
Icon_Fast_Forward.png		Icon_Fast_Forward.png
Pause		
		
Icon_Pause.png		Icon_Pause.png
Play		
		
Icon_Play.png		Icon_Play.png
Stop		
		
Icon_Stop.png		Icon_Stop.png
Record		
Icon_Record.png		Icon_Record.png
Eject		
		
Icon_Eject.png		Icon_Eject.png

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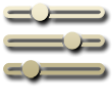
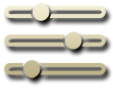
Shuffle		
		
Icon_Shuffle.png		Icon_Shuffle.png
Frequency		
		
Icon_Slider-B.png		Icon_Slider-B.png
AV		
		
Icon_AV.png		Icon_AV.png
Navigation elements		
Container		
		
Icon_Site.png		
Page navigator		
		
Icon_Navigation.png		
Label		
		
Icon_ID.png		
Image		
		
Icon_Picture.png		
Touch Displays Settings		
		
Icon_Settings.png		Icon_Settings.png

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Additional Icons are on the IP Control Center in the path:

visuelements\standard\creme_transparent

 Icon_Activation.png	 Icon_Alarm_ok.png	 Icon_Alarm_state.png	 Icon_Alarm---Ackn.png	 Icon_Alarm-Fire_V2.png	 Icon_Alarm-Gas.png	 Icon_Audio.png	 Icon_Auto.png	 Icon_Bag_A.png	 Icon_Bag_B.png
 Icon_Bath.png	 Icon_Battery.png	 Icon_Blade_Position.png	 Icon_blind2_position.png	 Icon_Blind_Position.png	 Icon_Burner.png	 Icon_Calendar.png	 Icon_Cancel.png	 Icon_Cleaning.png	 Icon_Clock.png
 Icon_Cloud.png	 Icon_Cloudy.png	 Icon_Comfort.png	 Icon_Contrast.png	 Icon_Cooling_State.png	 Icon_Cut.png	 Icon_Delete.png	 Icon_DHW.png	 Icon_Dimming.png	 Icon_Dimming_2.png
 Icon_Dinner.png	 Icon_Document.png	 Icon_DoNotDisturb.png	 Icon_Economy.png	 Icon_Edit.png	 Icon_Effect.png	 Icon_EscapeRight.png	 Icon_Exit.png	 Icon_Favorites.png	 Icon_FaxA-off.png
 Icon_FaxA-on.png	 Icon_Fire-Sensor.png	 Icon_Folder.png	 Icon_Forward.png	 Icon_Garage_Car.png	 Icon_Garden.png	 Icon_Wind.png	 Icon_Global.png	 Icon_Green-Leaf.png	 Icon_Green-Leaf-alt.png
 Icon_Gym.png	 Icon_Heat pump.png	 Icon_Help.png	 Icon_Home.png	 Icon_Hourglass.png	 Icon_Humidity.png	 Icon_Information.png	 Icon_IP_Camera_B.png	 Icon_IP_Camera_C.png	 Icon_Language.png
 Icon_Library.png	 Icon_Lifesafety.png	 Icon_List.png	 Icon_Location.png	 Icon_Lock.png	 Icon_Login.png	 Icon_Logout.png	 Icon_Maintenance.png	 Icon_Make-Room.png	 Icon_Manual.png
 Icon_Network.png	 Icon_Night_B.png	 Icon_No Access.png	 Icon_Notification.png	 Icon_Office.png	 Icon_OK.png	 Icon_Ok---Akn.png	 Icon_Out-of-Service.png	 Icon_Outside-Temperature.png	 Icon_Outside-Temperature_alt.png
 Icon_Phone.png	 Icon_Plant.png	 Icon_Pool.png	 Icon_Power.png	 Icon_Precomfort.png	 Icon_Rain.png	 Icon_Repeat.png	 Icon_Reply.png	 Icon_Return.png	 Icon_RGBw.png
 Icon_Room-Temperature.png	 Icon_Save.png	 Icon_Scenes.png	 Icon_Service.png	 Icon_Set.png	 Icon_Set_Value.png	 Icon_Shutter_position.png	 Icon_Step-0.png	 Icon_Step-1.png	 Icon_Step-2.png

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Icon_Step-3.png	Icon_Storm.png	Icon_Sun.png	Icon_Sunblind_Position.png	Icon_Support.png	Icon_Switch.png	Icon_Temperature.png	Icon_Temperature_set.png	Icon_Trend.png	Icon_Unlock.png
									
Icon_Usergroup.png	Icon_Warning.png	Icon_Water.png	Icon_Weather.png	Icon_Wifi.png					

20 Appendix

20.1 Definitions

DBMS	Database Management System
DHCP	Dynamic Host Configuration Protocol
DLL	Dynamic Link Library
DNS	Domain Name System
DSL	Digital Subscriber Line: High-speed transmission via a standard telephone cable.
DynDNS	Dynamic DNS" (DynDNS) stands for **Dynamic Domain Name System** (also abbreviated to "**DDNS**"). It helps you forward the constantly changing IP addresses of your home network to a **fixed domain name**. For this purpose, you have to register with a DDNS service under an available name (e.g. *example.example.com*). Your computer is then always available there even if you do not know your current IP address.
EIB	European Installation Bus
EIBA	EIB Association
ETS	KNX Tool Software: This is the default KNX configuration tool.
Internet	A global network consisting of many individual networks that are connected to each other through the use of TCP/IP protocols. The internet comprises the individual networks of universities, schools, businesses, research institutes, government agencies, individuals and other organizations. The supervisory body for this global network is the Internet Activities Board (IAB).
Internet Address	IP address
IP	Internet Protocol The network layer protocol on which the Internet is based. IP offers a simple connection-free package exchange. Other protocols such as UDP and TCP use IP to execute their connection-based and secure delivery services. A 4-byte (32-bit) number that uniquely identifies a computer or other Internet device or an IP Internet network. The IP address describes a specific network and a specific node in the network. An example of an IP address is 192.168.1.1. Usually an IP address is assigned by a LAN network administrator or an IP service provider from an existing pool of IP addresses.
JVM	Java Virtual Machine. This is the runtime environment for programs that are written in Java. Modern browsers contain JVM for executing Java applets, which are contained in websites.
KNX	KNX Association (Konnex Association).

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KNXnet/IP	Protocol for transmission of telegrams between KNX subnetworks or between a KNX subnetwork and a PC, for example, via an IP network (LAN or WAN).
KNXnet/IP Routing	(LAN or WAN). EIBnet/IP protocol for transmission of telegrams between KNX/KNX subnetworks (“line coupling function”) or an IP network (LAN or WAN).
KNXnet/IP Tunneling	KNXnet/IP protocol for point-to-point transmission of telegrams between an EIB/KNX subnetwork and a computer, for example, via an IP network (LAN or WAN). Tunneling can be used for visualization and configuration.
LAN	Local Area Network. This network is restricted to a local area – a single building, a group of buildings or a single room.
ODBC	Open Database Connectivity. A driver manager and a group of ODBC drivers that, if SQL is used as the default language, enable applications to access databases.
PC	OLE for Process Control. A standardized interface between process control and SCADA systems.
RDBMS	Relational Data Base Management System.
SCADA	System Control And Data Acquisition.
SMTP	Simple Message Transport Protocol. The electronic mail protocol.
SQL	Structured Query Language.
TCP	Transmission Control Protocol. Transport layer protocol that executes a guaranteed package delivery with the help of the Internet Protocol (IP).
UDP	User Datagram Protocol. UDP uses a connection-free, non-guaranteed package delivery method. It is considerably faster than TCP. UDP can be used as a reliable transport method if a higher layer protocol exists to ensure that the data are transmitted to the recipient.
VPN	A VPN (virtual private network) is a closed logical network where the participants are spatially separated but connected by an IP tunnel.
WAN	Wide Area Network. This network connects IP devices and computers in different cities or countries.

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20.2 Licenses

The IP Control Center software also includes Open Source parts, which can be found in detail under the → OSS Licenses help. See chapter: 8.5.7 The help menu.

The ReadmeOSS file can be found locally in the directory: "C:\Users\<username>\AppData\Roaming\IPCCConnectionManager\Local Store\versions\<Version>\editor".

20.3 References

20.4 Sources and references

- Wikipedia

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20.5 Space for notes