



thinknx configurator manual

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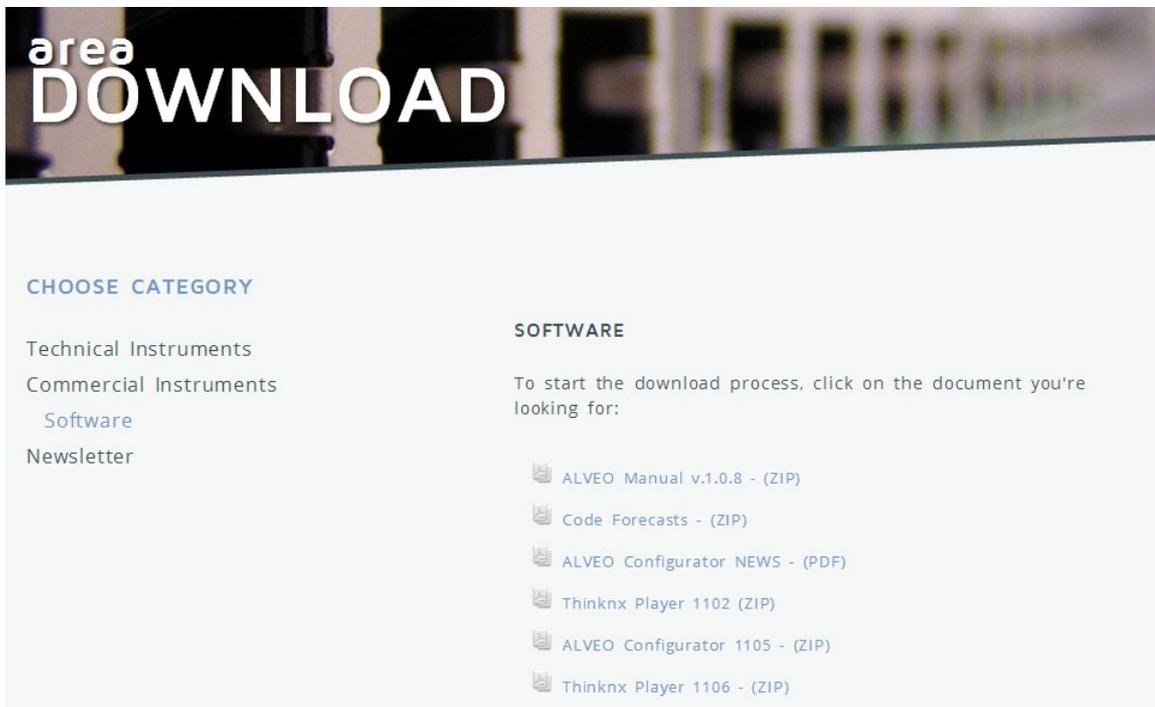
Installation

In this chapter we explain you how to install the configuration software and the basic configuration of the smartstation.

Download software

Download the last version of the thinknx configurator in the download section of our internet site

<http://www.thinknx.com>

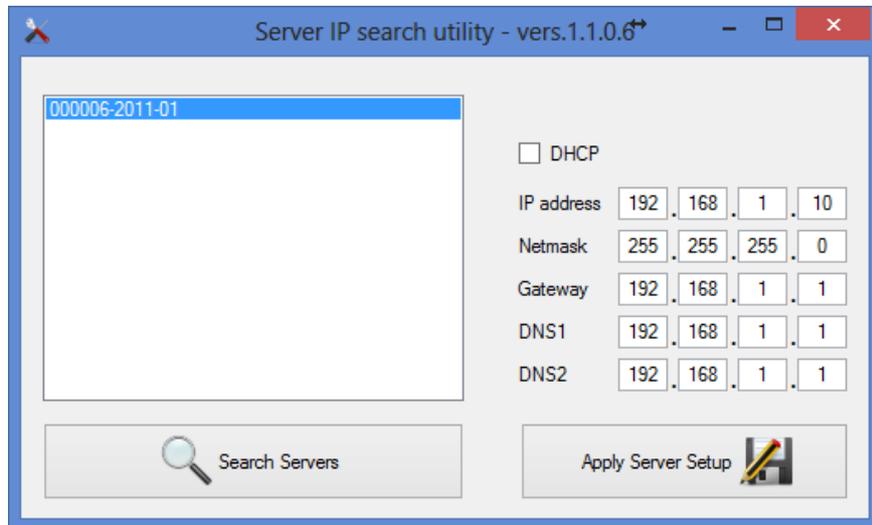


Extract the files and launch setup.exe.

Follow the on-screen indications during installation.

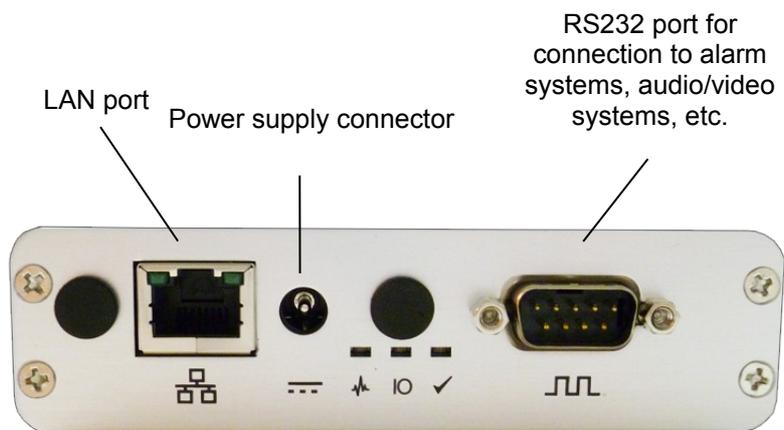
IMPORTANT: to ensure proper working of the program please install the latest version of Adobe Flash Player

Servers manager



The application program Server manager is installed together with the configurator tool. It searches the network for connected servers and shows the actual IP configuration of each device. After selecting the correct device it is possible to change the IP settings (default configuration is DHCP) and save them pressing the button “Apply Server Setup”. It is highly recommended to turn off DHCP and use a static IP address in order to avoid future connection problems.

Connections

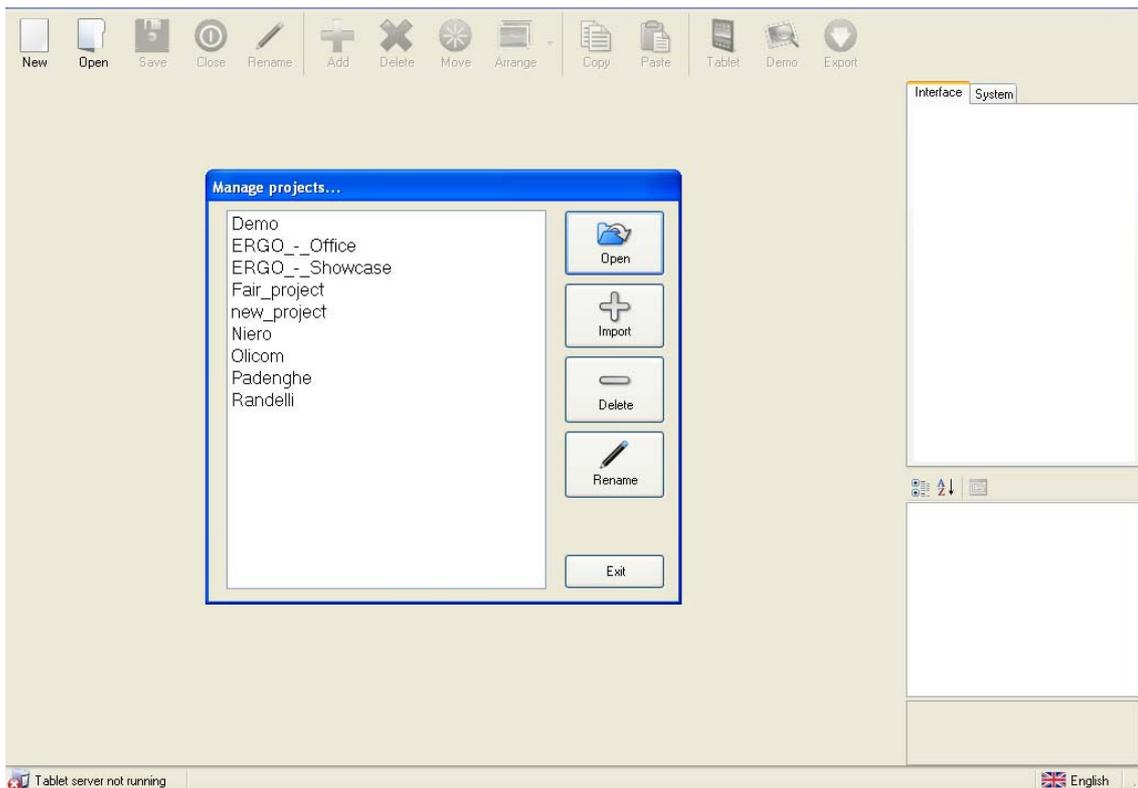


thinknx Configurator

This chapter shows you how to create your project using the thinknx configurator tool.

Create, open and save projects

Press the “New” button to create a new project.



If you press the “Open” button a pop-up window appears with the following functions:

List of saved projects

Button “Open”: open the selected project

Button “Import”: import a previously saved project file (file with .erg extension)

Button “Remove”: remove the selected project from the list

Button “Rename”: rename the selected project

Project configuration wizard

Every time you create a new project a wizard will guide you through the basic project settings.

The screenshot shows the first step of the wizard. A vertical column of six hexagons on the left contains the numbers 1 through 6, with '1' highlighted in blue. The main area contains the text 'This wizard allows you to configure the basic properties of the new project.' and a text input field labeled 'Project name:' with the value 'New configuration'. A clipboard icon is shown to the right. At the bottom are buttons for '< Start', '< Previous', 'Next >', 'End', and 'Cancel'.

Enter the project name

The screenshot shows the second step. The hexagon '2' is highlighted. The text says 'Select the server type and insert the serial number:'. There are four device images: Compact (selected with a radio button), Micro, RackMount, and TouchScreen. A text input field for 'Serial number:' contains '000008-2011-01'. Navigation buttons are at the bottom.

Enter the serial number of the device

The screenshot shows the third step. The hexagon '3' is highlighted. The text says 'Configure the IP address or host name for local and remote connections.' There are input fields for 'Local IP address' (192.168.1.10), 'Host name' (test.dyndns.org), and 'Port' (7550). A globe icon is shown. Navigation buttons are at the bottom.

Enter local and remote IP addresses

The screenshot shows the fourth step. The hexagon '4' is highlighted. The text says 'Configure geolocalization settings and time server.' There are input fields for 'Location' (Piacenza), 'Latitude' (45,042609), and 'Longitude' (9,70913). There is a checkbox for 'Enable Time Server' and a clock/calendar icon. Navigation buttons are at the bottom.

Enter latitude and longitude

The screenshot shows the fifth step. The hexagon '5' is highlighted. The text says 'Create users and groups for export policies:'. There is a large empty box and an 'Edit...' button. A small icon of two people is at the bottom right. Navigation buttons are at the bottom.

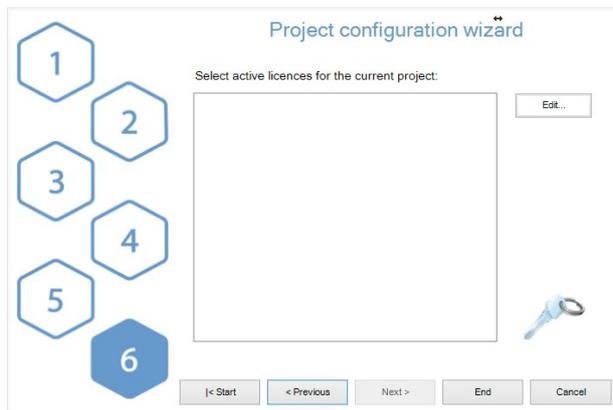
Click „Edit“ and add the user profiles

The screenshot shows the 'Users Editor: New_configuration' dialog. It has a list of users with 'iPad' selected. To the right is a table of settings for the selected user.

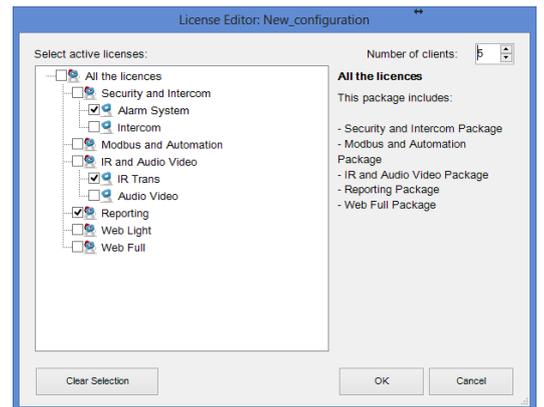
Name	iPad
Display cursor	Disabled
Full Screen	Enabled
Sound on Click	Disabled
Block Swipe	Disabled
Show Status Bar	Enabled
SIP Client	Disabled

At the bottom, there is a 'Name' field and 'OK' and 'Cancel' buttons.

For details see chapter „User editor“



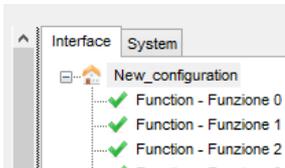
Click „Edit“ and select the licenses



Press the “End” button to close the wizard.

Button description

 New	Create a new project	 Open	Open an existing project
 Save	Save the current project	 Close	Close the current project
 Rename	Rename the current project	 Add	Add graphical objects
 Delete	Remove the selected object	 Move	Activate the moving function
 Arrange	Arrange graphical objects	 Copy Paste	Copy/paste objects
 Search	Search group addresses within the project	 Tablet	Activate tablet upload
 Demo	Activate demo mode for project preview	 Export	Open export menu



Interface: Structure of the graphical interface and list of the active objects

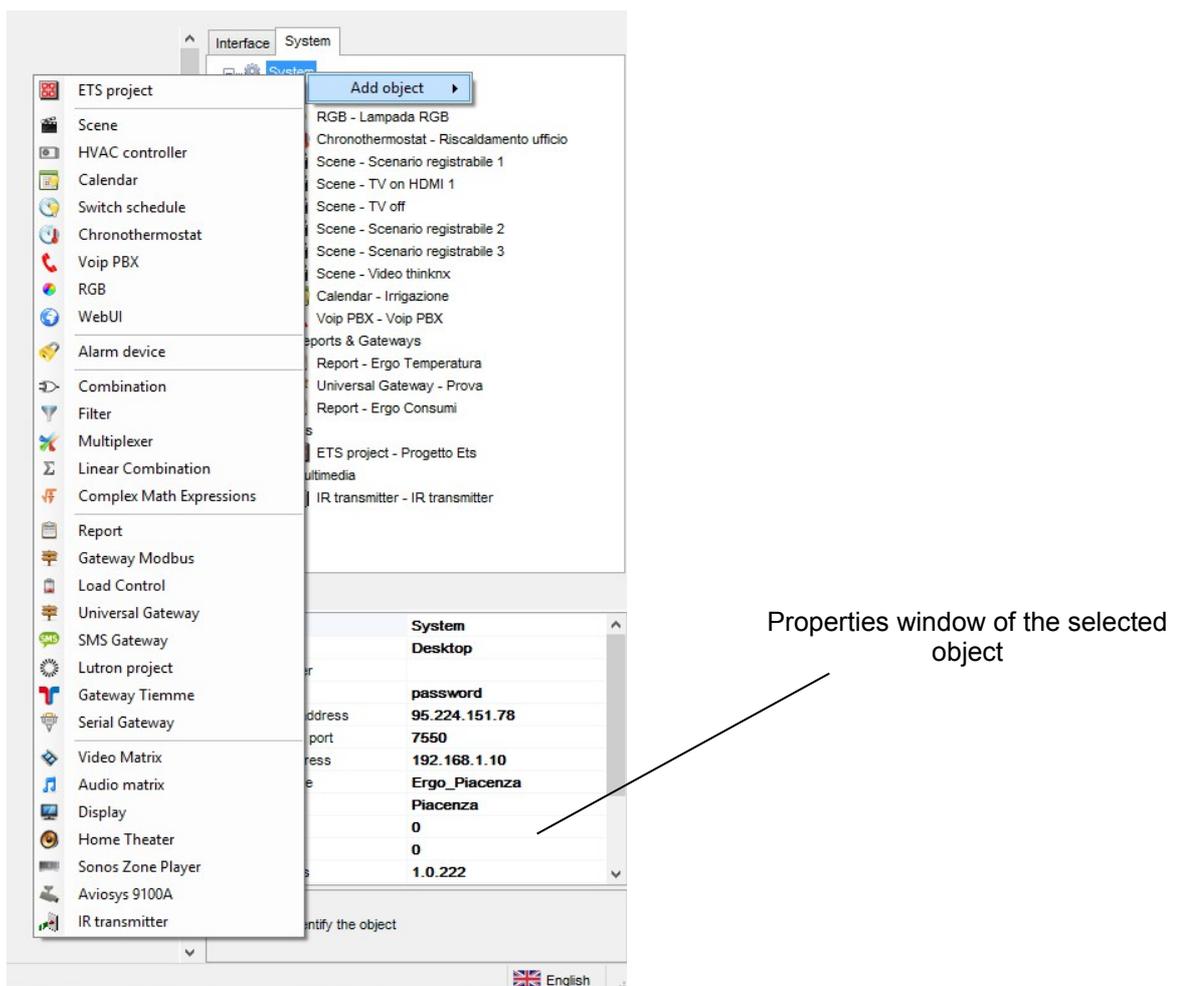
System: List of logical functions, integrated devices and system-specific objects

Adding System objects

Objects in thinknx Configurator are divided in graphical objects and system objects. System Objects are contained in the “System” folder, graphical objects are located in the “Interface” folder.

Many system objects are tightly bound to graphical objects. f.e. to create a RGB led control you have to create an object in the system folder, a second one on the interface and link them together. The same applies to thermostats and scenes.

Click on the “System” folder, right-click on „System“ and choose the desired element.

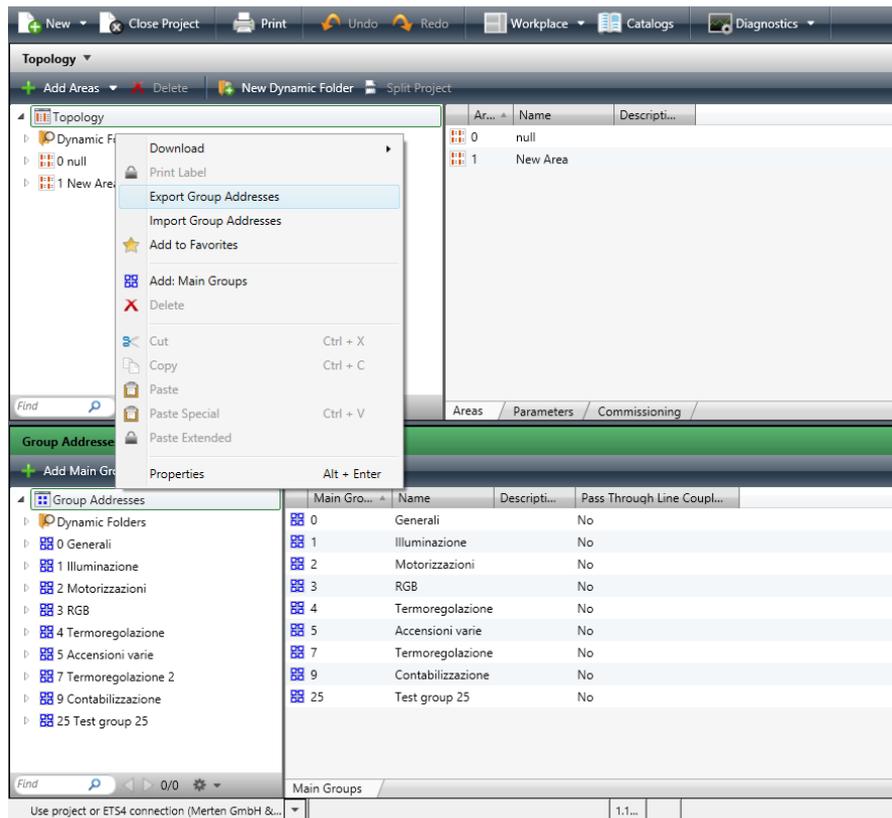


Adding an ETS project

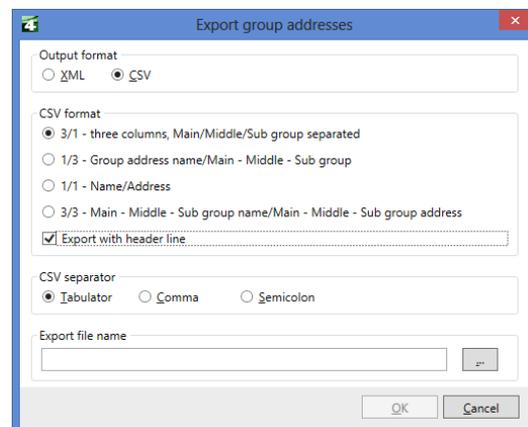
In System add the “Ets Project” element.

Exporting .csv file from ETS:

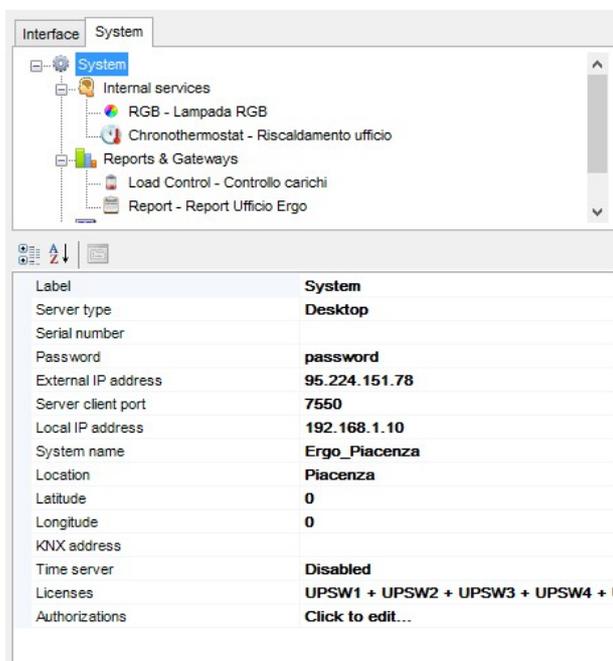
In ETS right-click on “main groups” (ETS3) or “Group Addresses” (ETS4) and select the option “export group addresses”



With ETS 3 use the default export parameters (see picture below), in ETS 4 select CSV format and activate the flag “Export header information”



System settings



Click on “System”

In the parameters window you can specify the following settings:

External IP address: Insert your public IP address or dyndns address

Server client port: port used by the client applications to access the server (default is 7550)

Local IP address: Insert the local IP address you assigned to your server (f.e.: 192.168.1.9).

KNX address: The default KNX physical address of the server is 15/15/255. In this field you can change this address.

Latitude and Longitude: these two parameters are used to define the geographical location of your installation (see „geolocalization“)

Time group: KNX group address in which the system time is written/read

Date group: KNX group address in which the system date is written/read

Time server: When activated the server sends the actual time and date to the respective groups mentioned above. If the option is deactivated the server reads the informations from the KNX bus.

Licenses: Select the licenses you activated on your server.

Authorizations: Manage your client settings

User editor

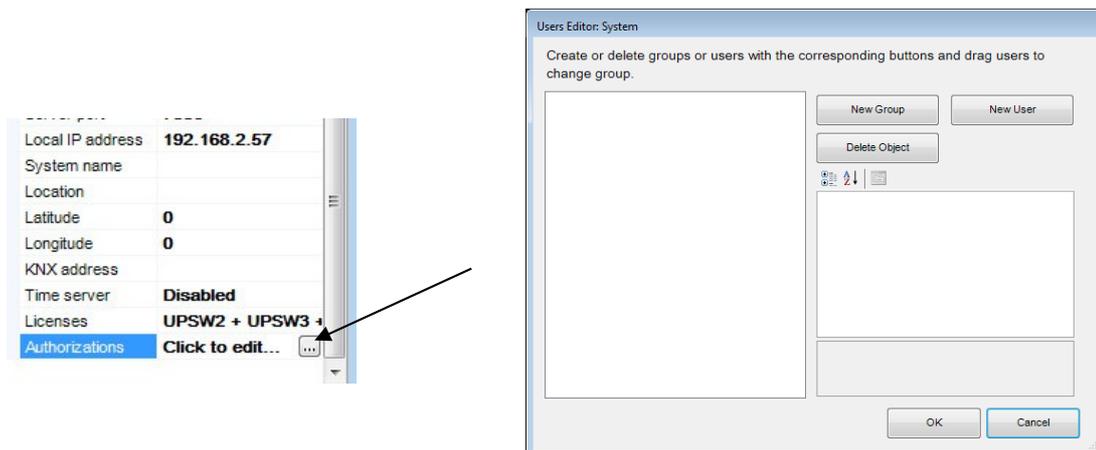
The user editor permits you to create client profiles, which contain specific client settings, such as fullscreen view or mouse pointer enabling for touch screens, status bar setting for iOs devices, etc.

In the user editor you can also configure VoIP access for each client for door intercom integration. For details please refer to the specific door intercom manual on our website.

Once you have created your user profiles you can also decide which objects, pages or functions will be visible for each user.

Create, edit, and delete users and groups

To create, edit or delete users of a project, select the node "System" in the system tree. In the system properties, select "Authorizations" and click the "..." button on the right to open the editor



Create a new group by clicking the "New Group" button. In the users tree you will see a new entry with a standard name. To change the name select the new entry and in the properties grid type the new name in the proper field. The updated name will immediately appear in the users tree.

Name	Administrators
Display cursor	Enabled
Full Screen	Enabled
Sound on Click	Disabled
Block Swipe	Disabled
SIP Client	Disabled

The other group properties can also be edited in the properties grid. All the properties set will then be replied to the users created within the group.

The configurable properties for groups and users are:

Name: name of the group / user

Display cursor: if disabled, the mouse pointer appears in the client application

Full Screen: if enabled, the client application will be run in full screen mode

Sound on click: if enabled, you will hear a sound with each click of the mouse

Block Swipe: if enabled, in touch devices swiping is disabled

SIP client: if enabled, the client acts as a VOIP client

The following settings are only visible if SIP client is enabled:

SIP Ringtone: select the ringtone for incoming calls

Register: if enabled the client will register on a SIP server

System PBX: Enable it if you are using internal PBX server and select the PBX user. For detailed informations please refer to the specific intercom manual on our website

The following settings are only visible if System PBX is disabled:

SIP Username: username of VOIP user

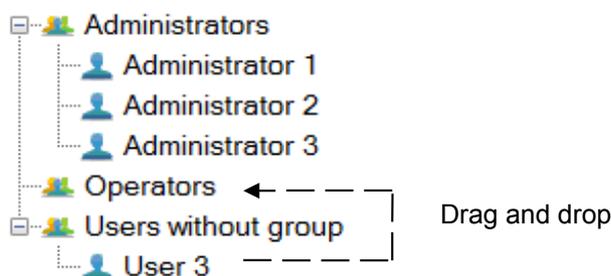
SIP Password: password of VOIP user

Registrar Address: IP address of the VOIP server

Registrar Port: TCP / UDP communication port set in the VOIP server

To create a new user belonging to a group, first select the desired group and then click on the "New User" button. In this way the user created inherits the properties values from the group. To change the user name, select the user from the user tree. If you want to create a user not associated to any group, just click on "New User" without selecting a group.

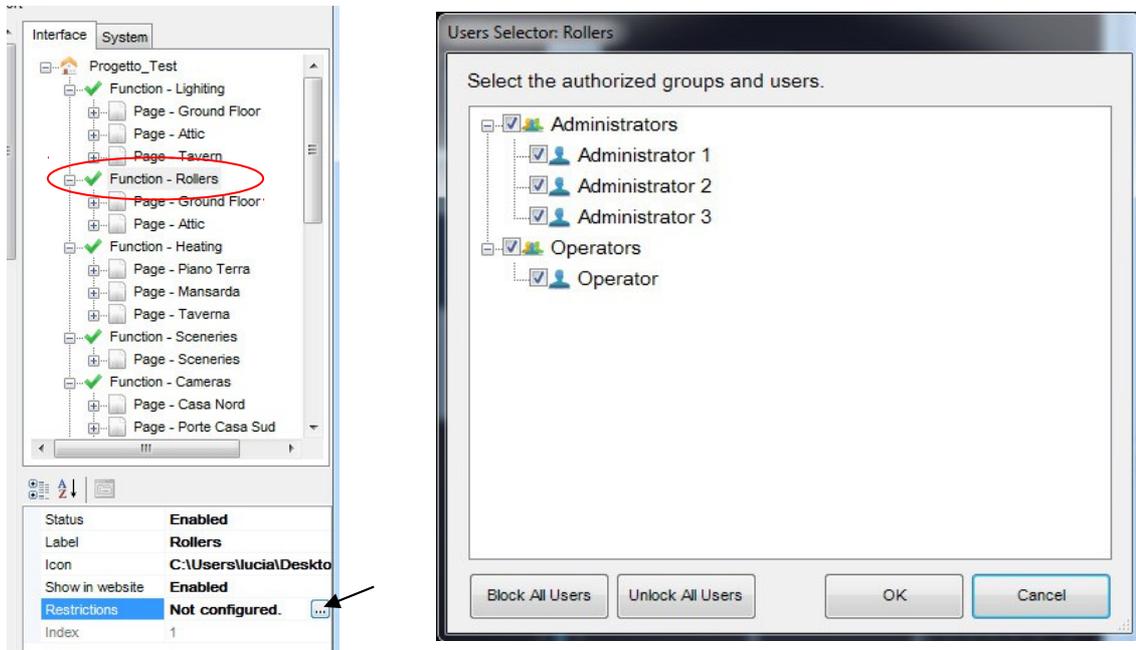
Users without groups can be associated to a group by dragging and releasing them over the group name to which you want to associate them.



To delete a group or a user select the desired object and click on the "Delete Object" button. If you delete a group, all the users associated to that group are turned into users without group.

Setting restrictions on objects

Suppose it is necessary to lock access to Rollers, Heating and Cameras functions to the clients belonging to the Operators group. To do this select the desired function in the interface tree and in the properties grid at the bottom right select "Restrictions" so that the "..." button appears. Click it to open the restrictions editor.



In the restrictions editor all users and groups created earlier are shown. By default each user and group has access to all the functions, pages and objects, you will see them all checked.

In this example we want to block all users belonging to the group Operators. To do this simply uncheck the Operators group and click the "OK" button.

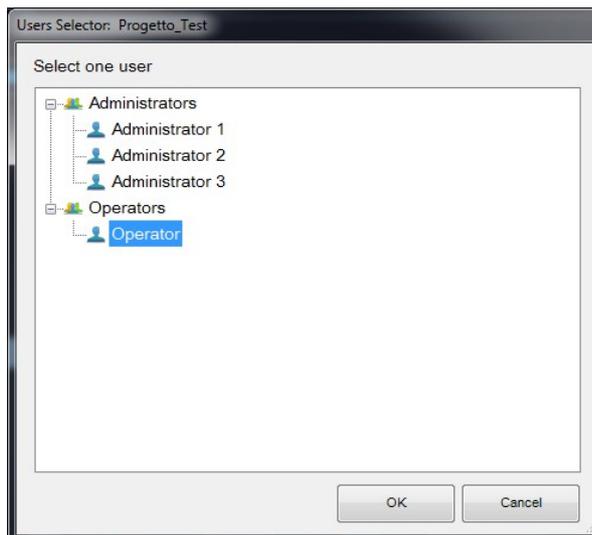
The editor has also two buttons for quick configuration: "Block All" that sets a total restriction on the object (removes all checkmarks) and "Unlock All" that instead removes any restriction.

The same procedure can be applied also to pages and single objects.

ATTENTION: Restrictions have an order of priority: 1. Function, 2. Page, 3. Single object. If one function is blocked for a specific group, the whole function will not be exported, regardless of the authorizations set to the pages and objects contained in the function. The same applies to pages and objects contained in the page.

User-defined project export

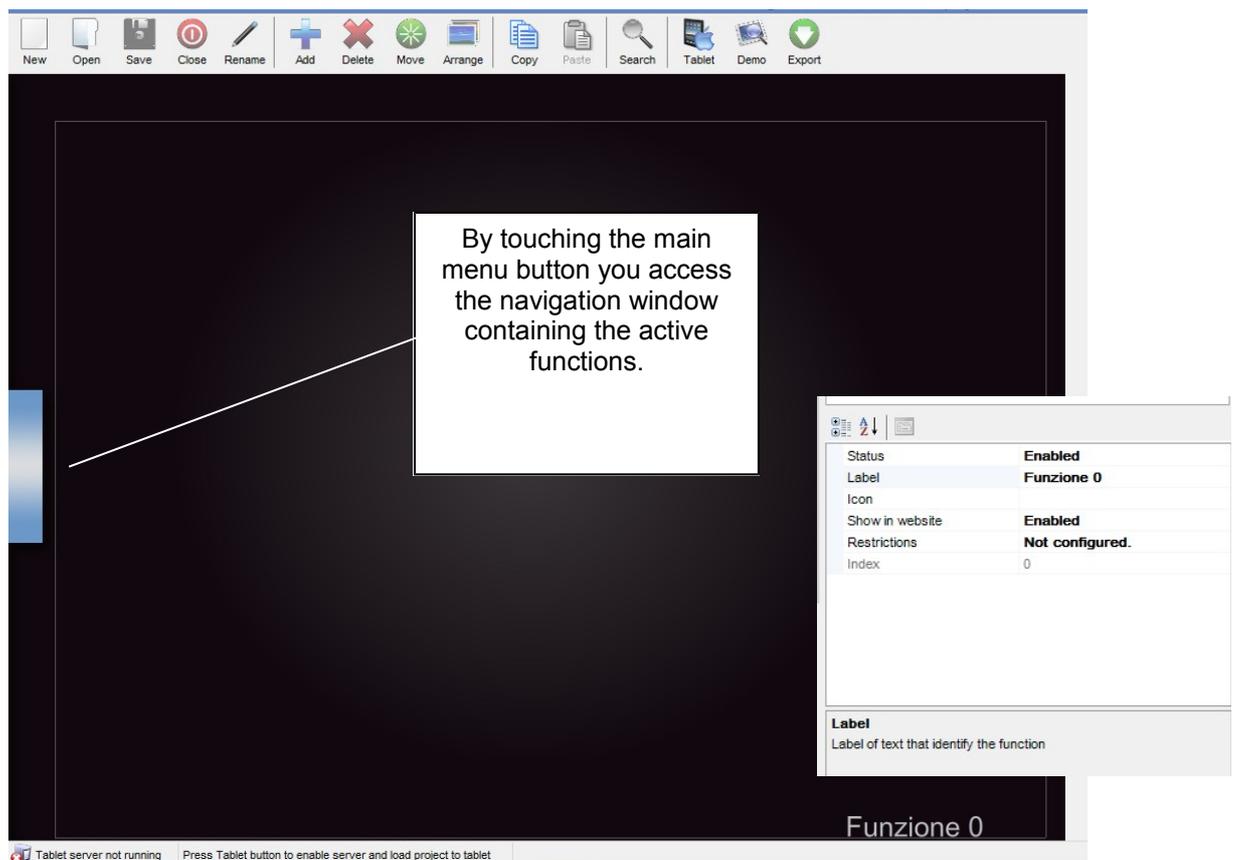
The user-defined export applies to export for touchscreen, Android and iPad. If you have configured users or groups in your project now you will see a window asking you to select for whom you want to export the project. Select the desired entry, f.e. "Operator", and click the "OK" button.



Functions

The items you find on the drop-out menu on the left are called functions. You will find the functions on the main menu list of the “Interface” folder, you can rename them, enable or disable them, add a personalized icon. In every single function you can create the pages you need. There are a maximum of 20 functions available.

Select the folder “Interface” and click the element “Function 0”



Parameter window settings:

Status: enabled/disabled. If the state is set to disabled this function will not show up in the drop-out menu.

Label: Name of the function

Icon: Select the desired icon file, this will show up automatically on the left side of the function description, with a standard resolution of 60x60 pixels.

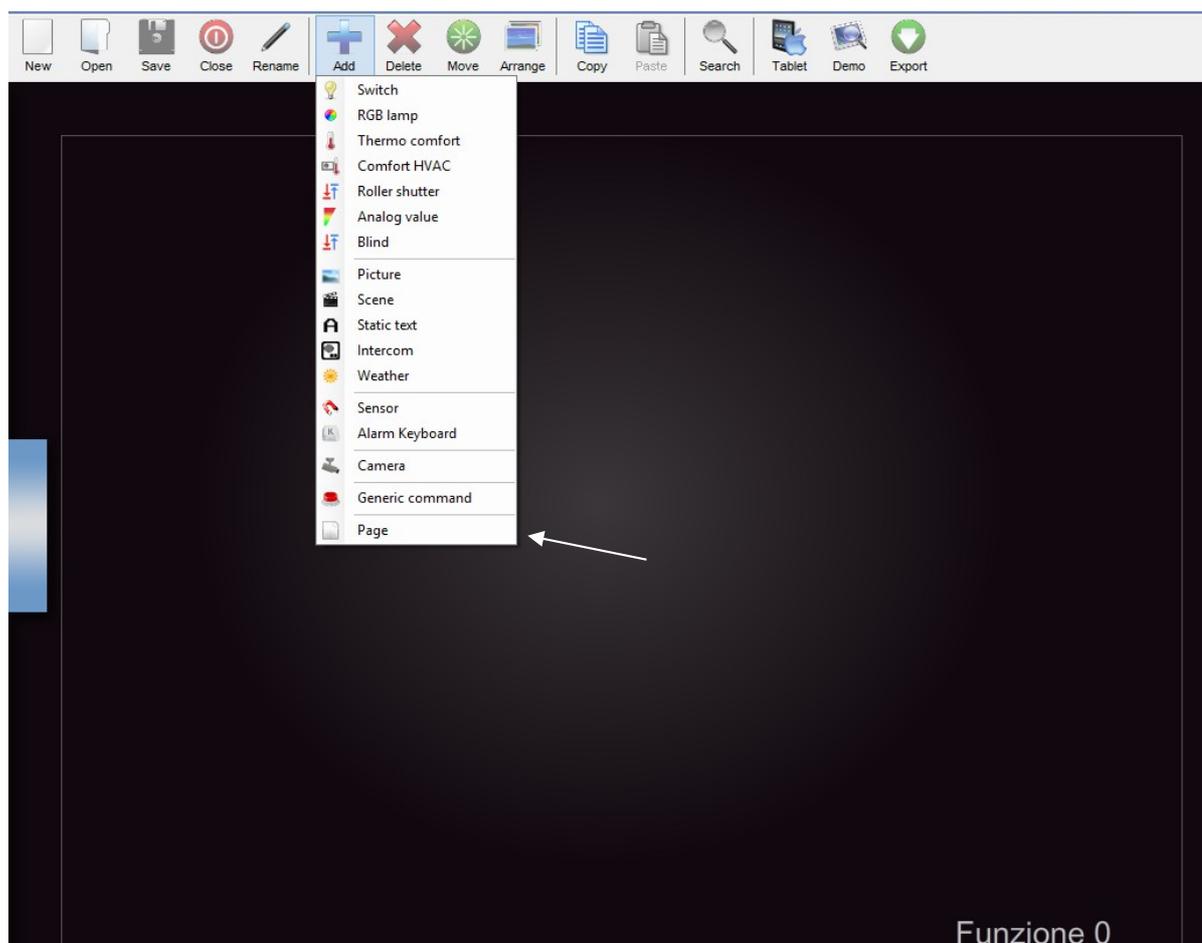
Show in website: enable/disable this function to be seen on the web page

Restrictions: disable access to this function for specific clients

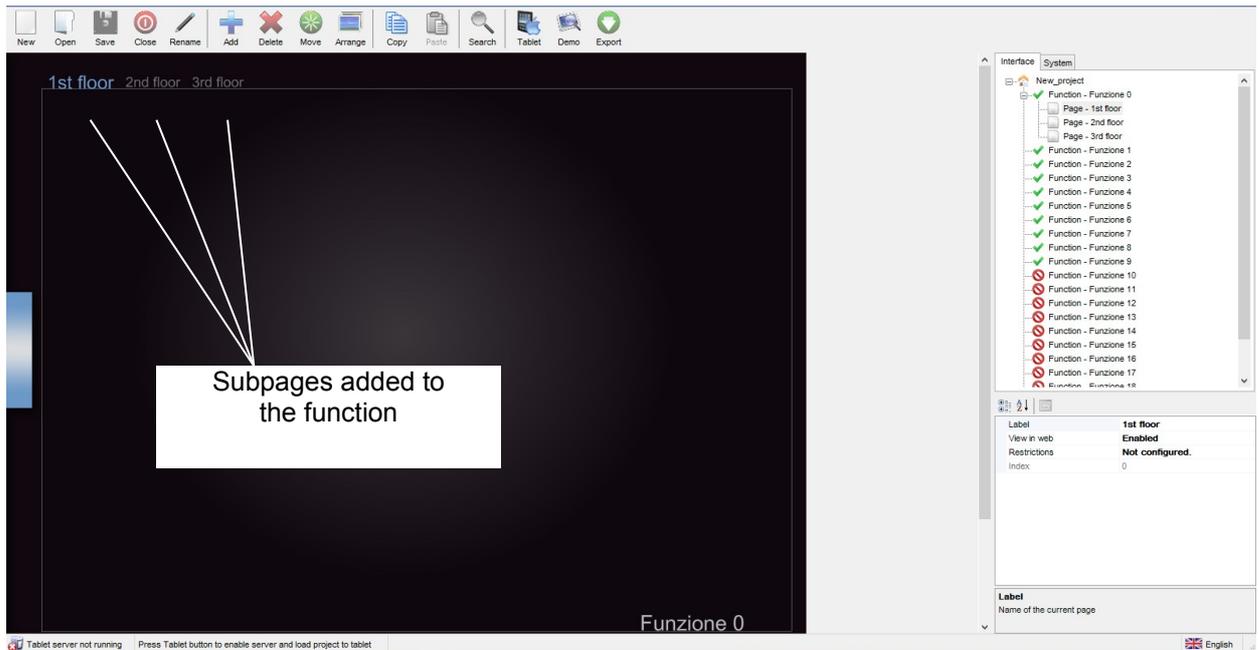
Adding a page to a function

You can add pages to every function, each page will contain graphic elements such as images or icons.

Press the “add” button and select “page”.



Each page created, automatically shows up on the top bar starting from the left, the only limitation on the number of pages you can create is the number of characters that can be shown on the top bar. The longer the names of the pages, the less pages you can create.



Parameter window settings:

Label: Name of the page

View in Web: enable/disable this function to be seen on the web page

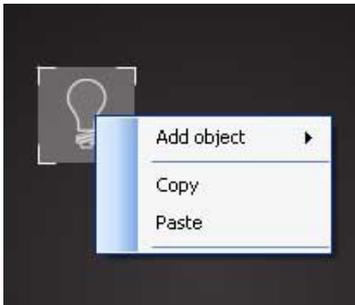
Restrictions: disable access to this function for specific clients

Copy, paste and arrange

With the copy/paste function you can copy objects and whole pages and you can save a lot of time in the graphical creation of your project. With the arrangement you can modify the sequence of objects and pages within the project, f.e. to put the elements seen on the command list view in the correct order.

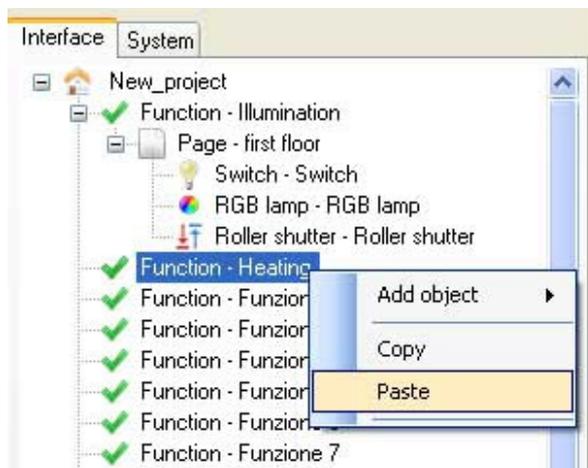
Copying objects

First select the object you want to copy. This can be done either on the graphical interface, or on the tree-structure of the project (interface window). Then just right-click the object and select “copy” and right-click again on a free portion of the screen and select “paste”. You can also use the keyboard instead of the right mouse button, use “Ctrl-C” to copy and “Ctrl-V” to paste.



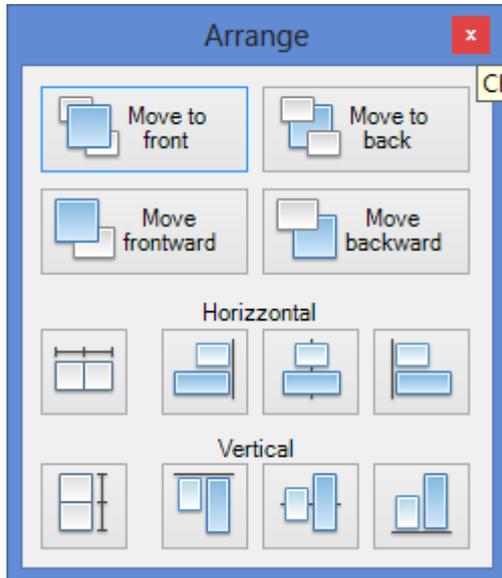
Copying pages

Besides single objects you can copy also whole pages. To do that just select the page you want to copy on the tree-structure in the interface window, right-click it and select “copy”, then right-click on the function into which you want to copy the page and select “paste”.



In this example we have copied the page “first floor” contained in the function “Illumination” and are going to paste it into the function “Heating”

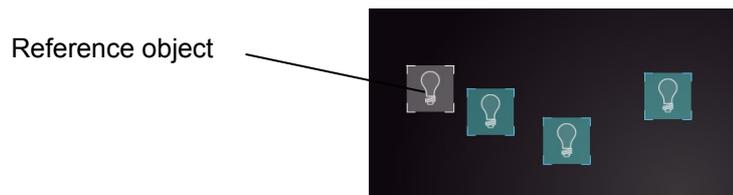
Arranging objects and pages



As the view of the objects on the webpage and on the vertical view on the iPad is determined by their position within the structure of the project (Interface window) it may be necessary to move them up and down within the structure, f.e. to to group all the commands of a certain room. This can be done using the “move frontward” and “move backward” commands, which you find clicking the “Arrange” button. With the same method you can change the position of the pages within the function.

ATTENTION: It is very important that the background images, such as floor plans or photographs, are always positioned on the far back (they always have to be on the first place of the objects list of the function in the Interface window). This is just to ensure that all the command objects such as light switches or shutter controls are in the foreground and are not covered by the picture (if the picture covers the button you will not be able to use them, even if it is a transparent part of the picture and you see the buttons).

The arrange functions permit you also to vertically and horizontally align the objects and to equally distribute the space between them. To do this you have to make a multiple selection by selecting the first object (reference object), keeping pressed the SHIFT button on your keyboard and selecting the other objects. The reference object will be marked gray, while all the others will be blue. All the objects will be aligned to the reference object.



Available functions:

Horizontal alignment



Align all the objects to the upper edge of the reference object



Align all the objects to the lower edge of the reference object



Align all the objects to the horizontal middle line of the reference object

Vertical alignment



Align all the objects to the left edge of the reference object



Align all the objects to the right edge of the reference object



Align all the objects to the vertical middle line of the reference object

Horizontal and vertical spacing



Equally distribute horizontal space between the first and the last selected object

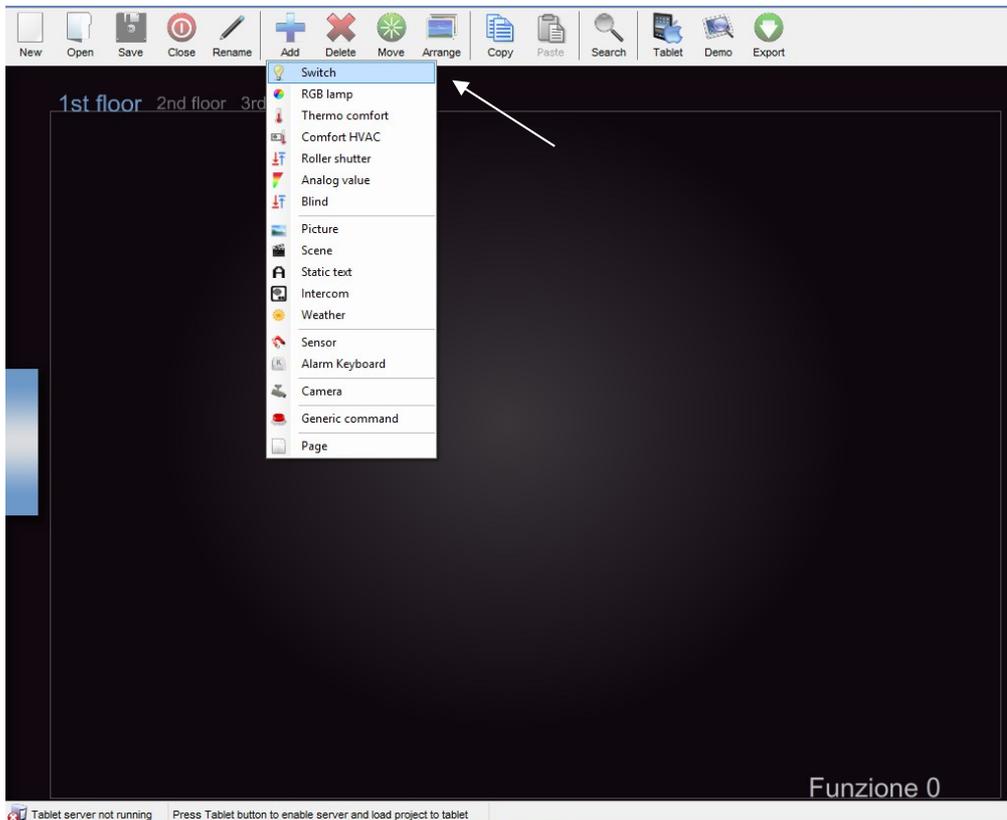


Equally distribute vertical space between the first and the last selected object

Object “Switch”

The object “Switch” is used for every kind of switching command: toggle, dimming, send 1, send 0, send 1 when pressed and 0 when released, send byte value, etc. It is a very flexible function and allows a big variety of controls. Connected to the system objects “Switch schedule” and “Calendar” this object can be used with a timer.

On the graphic interface press the “Add” button and select “Switch”. Every object created is automatically positioned in the upper left corner.



You can move the object activating the button “move”

Parameter window settings “Switch“

Label: Name of the object. This name is used in the vertical view on the iPad and on the webpage.

Switching type: select the desired command type

Graphic: select the desired graphic or select “personalized” to use your own icons (one for each state (ON, OFF, DIMMING)).

Visualization: Preview of the object for the states on and off.

Time schedule: activate the timer function and then select the schedule object type (chrono switch or calendar)

Calendar or time schedule object: According to your schedule object type selection you will see the list of the corresponding system objects you created.

Use pop-up: enable/disable pop up use for turning on/off the light

ON/OFF group: Select the group address of the imported ETS project or write it manually (1 bit). Example 1/1/5

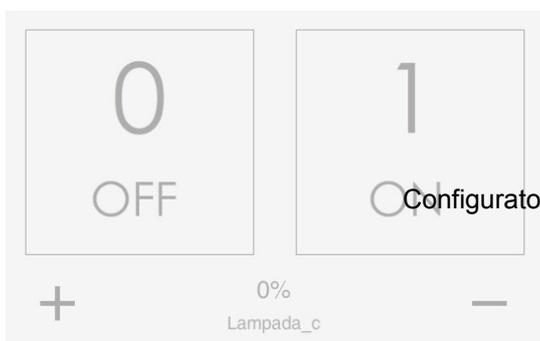
ON/OFF group feedback: Select the group address of the imported ETS project or write it manually (1 bit)

Restrictions: Define whether this object is visible for a specific user profile. By default all the objects are visible for all the user accounts

View in list: enable/disable this object to be seen on the vertical view of the iPad

View in web: enable/disable this object to be seen on the web page

Label	Wall spots
Switching type	ON/OFF norm. open
Bus type	KNX
Graphic	Bulb
Visualization	Turned off
Time schedule	Enabled
Schedule object type	Calendar
Calendar object	
Use pop-up	Garden lights
ON/OFF group	1/0/1
ON/OFF group feedback	1/1/1
Scale	100
Rotation	0
Position	135, 167
Restrictions	Not configured.
View in list	Enabled
View in web	Enabled



If you select “Dimmer” as type of command the KNX groups “value” and “value feedback” are added. Select the corresponding group addresses (1 byte) of the imported ETS project. On the client interface the dimming popup is automatically activated.

System object “Switch schedule”

The system object “Switch schedule” in connection with the graphic object “Switch” permits you to manage timers for a command (f.e. irrigation, timed exterior lights, etc.)

Go to the “system” folder and add (right click) the system object “Switch schedule”.

Label	Timer wall spots
Force state	Enabled
Send Interval	30

Label: enter a name for the schedule object

Force state: if enabled the on and off commands are sent cyclically

Send Interval: time in seconds for cyclical sending

Label	Wall spots
Switching type	ON/OFF norm. open
Bus type	KNX
Graphic	Bulb
Visualization	Turned off
Time schedule	Enabled
Schedule object type	Chrono Switch
Time schedule object	▼
Use pop-up	Timer wall spots
ON/OFF group	1/0/1
ON/OFF group feedback	1/1/1
Scale	100
Rotation	0
Position	135, 167
Restrictions	Not configured.
View in list	Enabled
View in web	Enabled

Enable time schedule in the Switch graphics object, select „Chrono Switch“ as Schedule object type and select the corresponding Time schedule system object.

Example of weekly timer

The screenshot shows a configuration window for a weekly timer. At the top left, the text 'Giardino Laghetto' is visible. The window contains a grid for selecting days of the week (L, M, M, G, V, S, D) and two columns of time slots. The first column has three slots with orange checkmarks: 07:00-07:20, 10:15-11:00, and 18:00-18:15. The second column has three empty slots: 00:00-00:00, 00:00-00:00, and 00:00-00:00. Below the grid are buttons for '+', '-', and 'SAVE'. The label 'Valvola sx' is centered at the bottom of the window. The background of the interface shows a garden scene with the word 'Irrigazione' at the bottom right.

selection of the day

manual control

activate timer

Buttons + and - for time setting

Save button transfers the timer settings to the server

System object “Calendar”

The system object “Calendar” in connection with the graphic object “Switch” permits you to manage a yearly timer for multiple commands (f.e. irrigation, timed exterior lights, etc.). It is possible to connect the same calendar system objects to more than one switch object. So you can f.e. manage your complete irrigation schedule in one calendar, which gives you a better overview of your schedule.

Go to the “system” folder and add (right click) the system object “Calendar”.

Label	Garden lights
Force state	Enabled
Send Interval	30
Show Saints	Enabled

Label: enter a name for the calendar object

Force state: if enabled the on and off commands are sent cyclically

Send Interval: time in seconds for cyclical sending

Show Saints: show the saints on the calendar

Label	Wall spots
Switching type	ON/OFF norm. open
Bus type	KNX
Graphic	Bulb
Visualization	Turned off
Time schedule	Enabled
Schedule object type	Calendar
Calendar object	Garden lights
Use pop-up	1/0/1
ON/OFF group	1/1/1
ON/OFF group feedback	100
Scale	0
Rotation	135, 167
Position	Not configured.
Restrictions	Enabled
View in list	Enabled
View in web	Enabled

Enable time schedule in the Switch graphics object, select „Calendar“ as Schedule object type and select the corresponding Calendar system object.

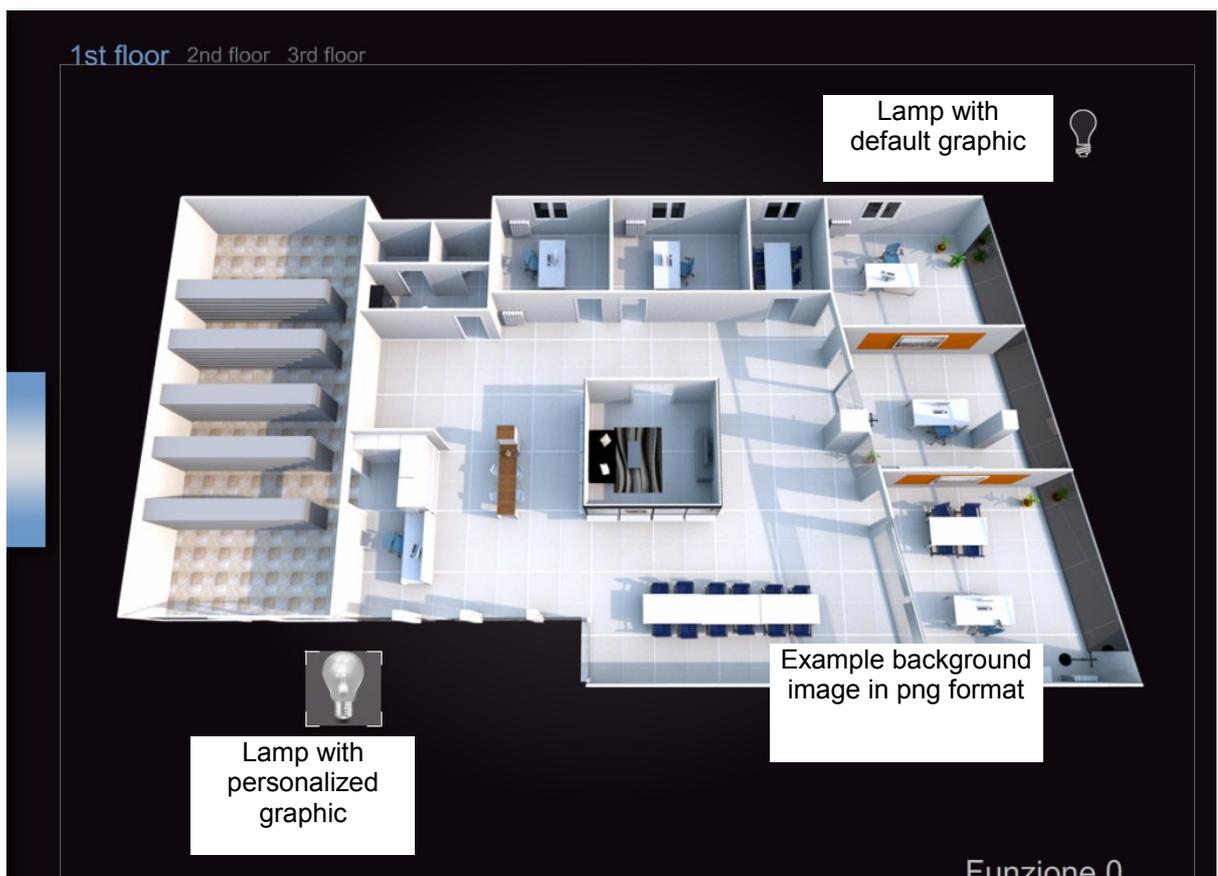
For detailed information about the calendar function please refer to the specific manual available on our website.

Inserting a background picture

Pictures can be inserted into the project in order to make it more beautiful and comprehensible for the end-user. You can use floor plans, photos, cad-drawings in various formats as png, jpg, bmp or gif. We recommend using png files, especially for floor plans, as they permit to have part of the image transparent and the visual effect is much better. You can use either 2D or 3D floor plans, it depends mostly on the software you are using to create them. The creation of 3D plans is usually very time consuming.

Press the “Add” button and select “Image”. Browse to the folder containing the image.

For positioning, arrangement and scaling see the chapter before.

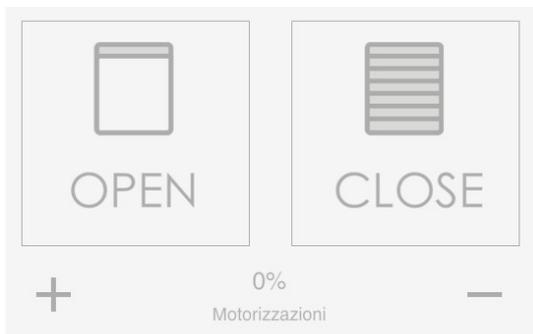


Object “Roller shutter” and “Blinds”

Press the “Add” button and select “Roller shutter” or “Blinds”.

Parameter window settings:

Insert the KNX group addresses stop, move, value and value feedback.



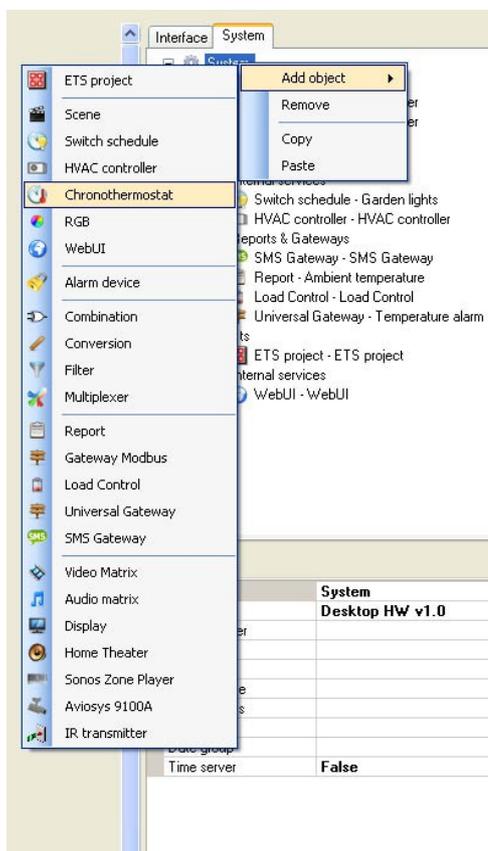
Roller shutter pop up on the graphic user interface

Object “Chronothermostat”

The object “Thermo comfort“ is used to interact with a KNX thermostat (it can not be used as „standalone“ thermostat) and gives you the possibility to create weekly timers for heating control. You can set the desired temperature for each hour of the day and for each day of the week. It gives you the actual room temperature, the actual setpoint and feedback of the heating/cooling valve.

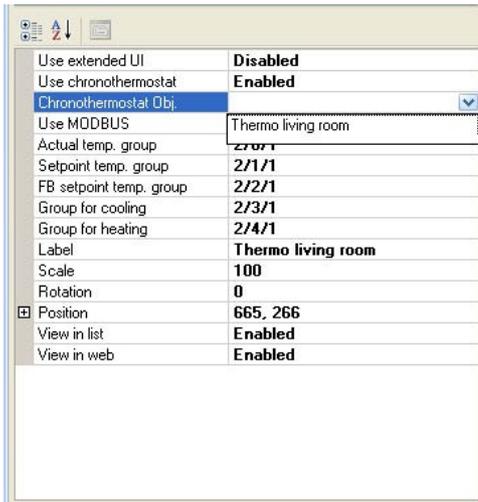
Press the “Add” button and select “Thermo comfort”.

Go to the “system” folder and add (right click) the system object “Chronothermostat” (see picture below)



In the parameter window enter the name for the thermostat object.

Select the object “Thermo comfort” on the graphic page.



Parameter window settings „Thermo comfort“

Use extended interface: If activated, the modes night, standby and comfort are added, they are controlled using 1 bit or 1 byte group addresses.

Use chronothermostat: activate/deactivate the use of “chrono” which permits to access the weekly timer

Object chronothermostat: select the corresponding chronothermostat system object

Actual temperature group: insert the 2 byte KNX address

Setpoint group: insert the 2 byte KNX address

Feedback setpoint group: insert the 2 byte KNX address

Cooling control group: insert the 1 bit KNX address to see the status of the cooling valve

Heating control group: insert the 1 bit KNX address to see the status of the heating valve

Name: Name of the chronothermostat

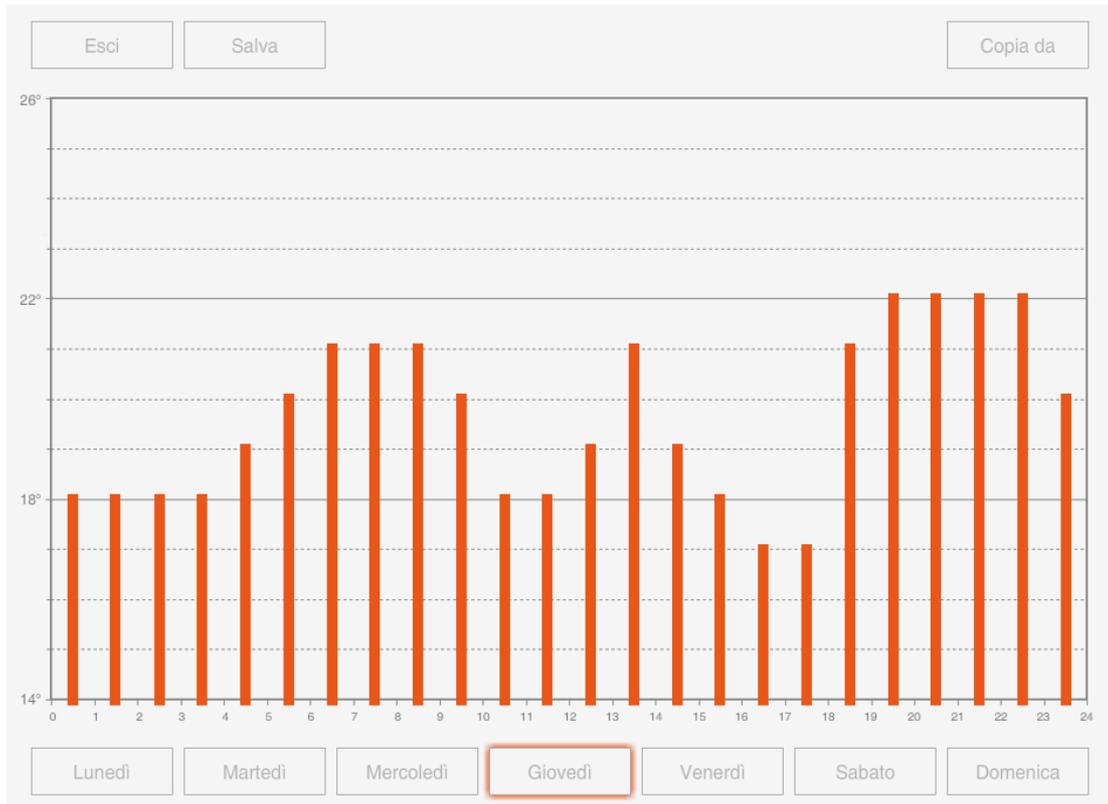
Pop up with simple interface



Pop up with extended interface



Example of weekly timer



Object “Comfort HVAC”

The object “Comfort HVAC” allows you to control a air conditioning device integrated in your KNX system.

Press the “Add” button and select “Comfort HVAC”.

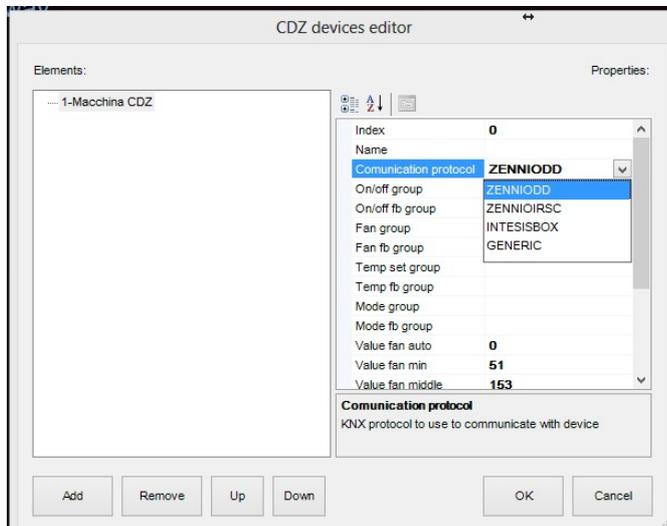
Go to the “system” folder and add (right click) the system object “HVAC controller” (see picture below)



In the parameters window you can select between 3 types of controller:

- Mitsubishi AG 150: If you use this controller you need to enter the IP address of the device in the proper field
- KNX interface simple: This controller permits you to set mode and speed using standard 1 byte objects
- KNX interface extended: This controller permits you to set mode and speed using 1 bit objects

Click the “...” button right to Devices to open the devices editor window



The first thing to do is to select the communication protocol. The different options are:

- ZENNIODD: select this option if you are controlling Daikin devices integrated with Zennio KLIC DD or KLIC DI.
- ZENNIOIRSC: select this option if you are controlling devices integrated with Zennio IRSC
- INTESISBOX: select this option if you are controlling devices integrated with Intesis Box
- GENERIC: select this option if you are using any other KNX HVAC controller. In this case you have to manually enter the byte values for Mode and Fan speed in the fields below. Each controller has its own values, ask the producer of the controller for the correct values to enter.

Now give the device a name and enter the correct group address for each function.

Example of Daikin Emura integration with Zennio KLIC DD

Index	0
Name	Emura Living room
Communication protocol	ZENNIODD
On/off group	3/0/1
On/off fb group	3/1/1
Fan group	3/2/1
Fan fb group	3/3/1
Temp set group	3/4/1
Temp fb group	3/5/1
Mode group	3/6/1
Mode fb group	3/7/1
Value fan auto	0
Value fan min	51
Value fan middle	153
Value fan max	255
Value Auto Mode	0
Value Cool Mode	3
Value Heat Mode	1
Value Dry Mode	14
Value Fan Mode	9

Go to your “Comfort HVAC” object in the graphics page and select the HVAC controller and the device you just created

Label	Comfort HVAC
HVAC controller	HVAC controller
HVAC device	
Scale	Emura Living room
Rotation	0
Position	0 0

Object “Analog value”

The object “Analog value” permits you to visualize a value received from the bus (f.e. weather data such as temperature or wind speed, energy data, etc.) and to send a specific value to a KNX address (f.e. edit a threshold value).

Press the “Add” button and select “Analog value”

Send value	Disabled
Value	25
Max value	40
Min value	10
Factor	1
Visualization	Triangle icon
KNX data type	2 Byte EIS5
Value group	3/0/1
Label	Watt
Scale	100
Rotation	0
⊕ Position	310, 178
View in list	Enabled
View in web	Enabled

Parameter window settings „Analog value“

Send value: if enabled it activates a pop up on the client interface which permits you to enter an analog value and to send it to the KNX address linked.

Value: preview the inserted value on the graphic page

Max value: Insert the maximum value for the object (f.e. temperature value 40)

Min value: Insert the minimum value for the object (f.e. temperature value -10)

Factor: Insert the multiplication factor for the displayed value

Visualization: Select the desired graphic

KNX data type: Select the type of KNX data value to visualize

Value group: Select the KNX group address to visualize from the imported ETS project

Example of analogue values graphics page



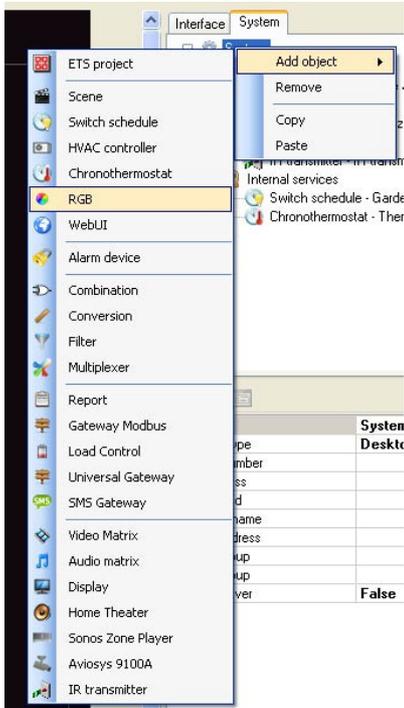
Example pop-up window to send an analog value



The scale of the selectable value is set by the Min and Max values entered in the parameters window.

Object “RGB lamp”

Press the “Add” button and select “RGB lamp” . Go to the “system” folder and add (right click) the system object “RGB” (see picture below)



Parameter window settings „RGB“

Name: Name of the RGB object

Connect the 1 byte KNX objects for red, green and blue from the imported ETS project.

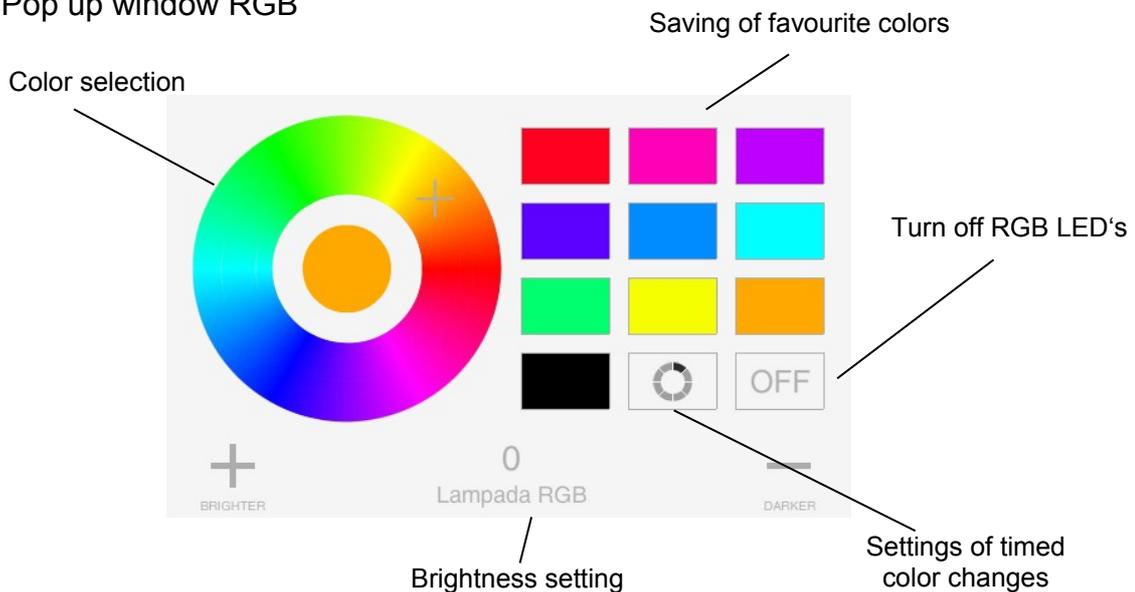
The feedback groups do not necessarily have to be connected

Select the object “RGB lamp” on the graphics page.

Parameter settings window graphics object:

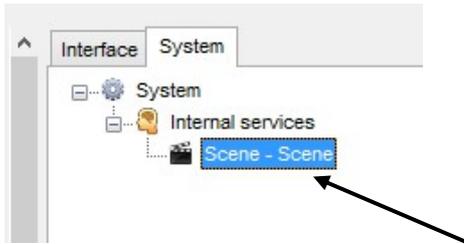
RGB object: select the corresponding system object

Pop up window RGB



Object “Scene”

Press the “Add” button and select “Scene”. Go to the “system” folder and add (right click) the system object “Scene”. (see picture below)



Parameter window settings „Scene“

Name: Name of the scenery object

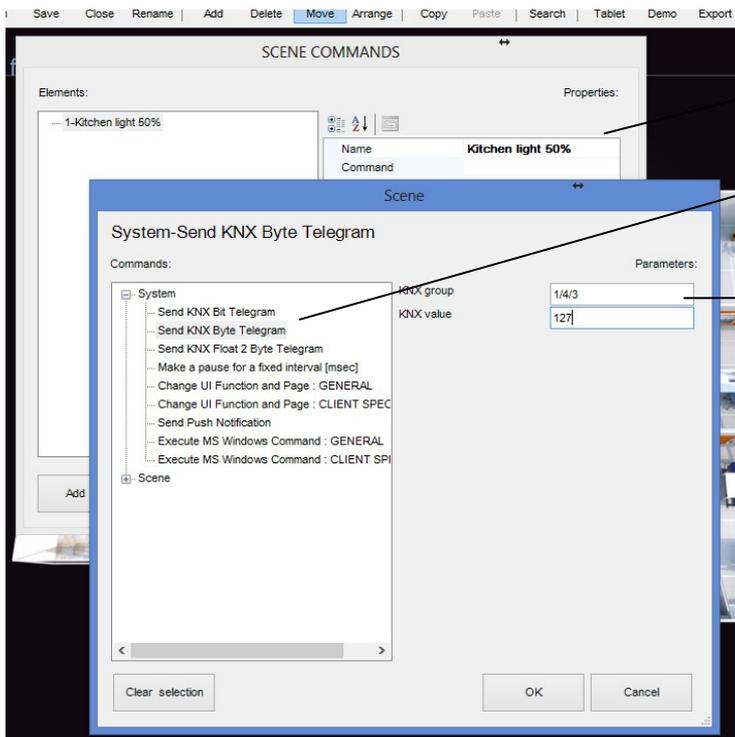
KNX group: permits to recall the scenery through a 1 bit KNX address (when „1“ is sent to the group).

Record: activate/deactivate the possibility to record/change the scenery commands from the pop up window on the client.

List of actions: if you deactivate recording you can create the scenery directly from the configurator.

Name	Scene
KNX group	0/2/3
Record	Enabled
List of actions	(Collection)

Example “List of actions”: light value brightness 50%

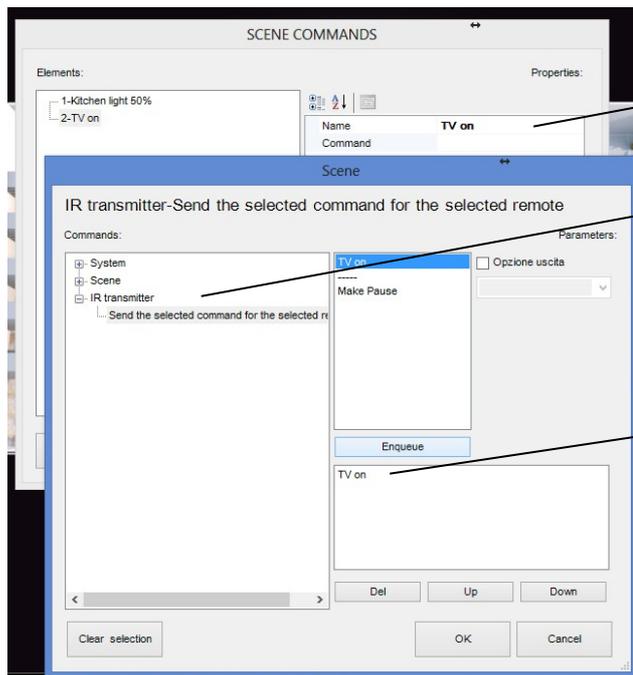


Name of the action

KNXcCommand type „send KNX Byte telegram“

KNX group address and value to send. To send a 50% value to a dimmer enter 127, as the byte values go from 0 to 255

Example "Action list": turn on TV with iRTrans

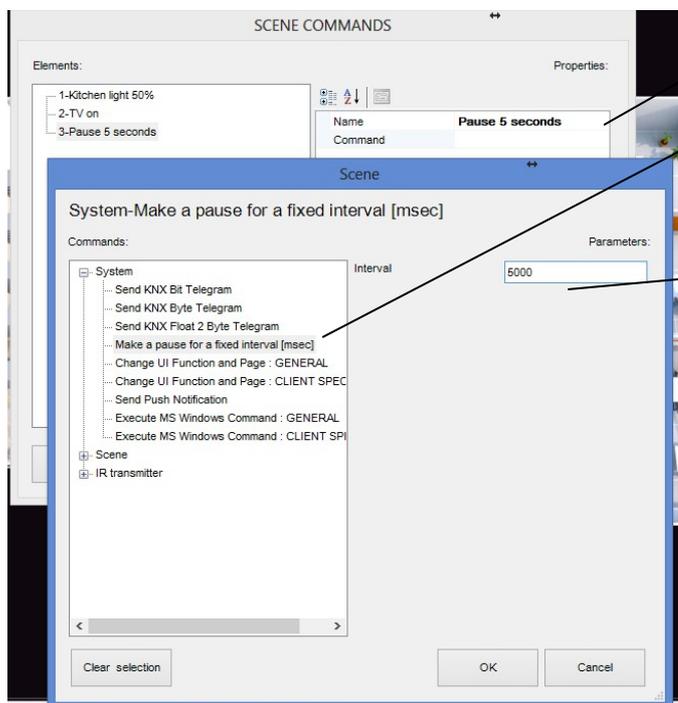


Name of the action

Command: Besides the KNX commands you can add to a scenery also all controls of the system objects you created. In this case we are using the object "IR transmitter"

IR command to send

Example "Action list": Pause between two actions

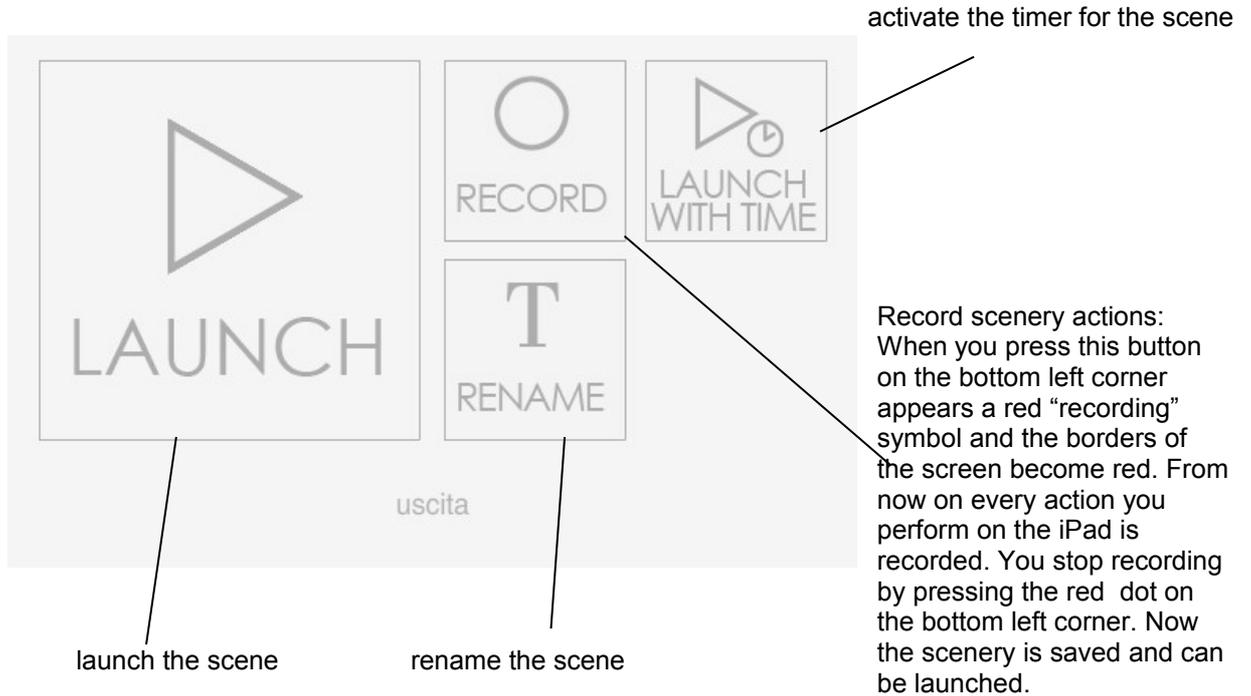


Name of the action

Select command „System-Make a pause for a fixed interval [msec]“

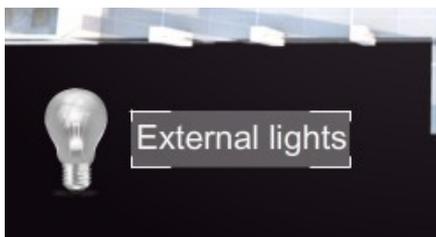
Set the pause time in milliseconds

Example of the scene pop up on the client



Object “Static text”

Press the “Add” button and select “Static text”



Example of static text on a graphics page

Label	Text
Text dimension	12
Text color	255,255,255
Rotation	0
Position	243, 34
Restrictions	Not configured.
View in list	Enabled
View in web	Enabled

Parameter window settings “Static text”

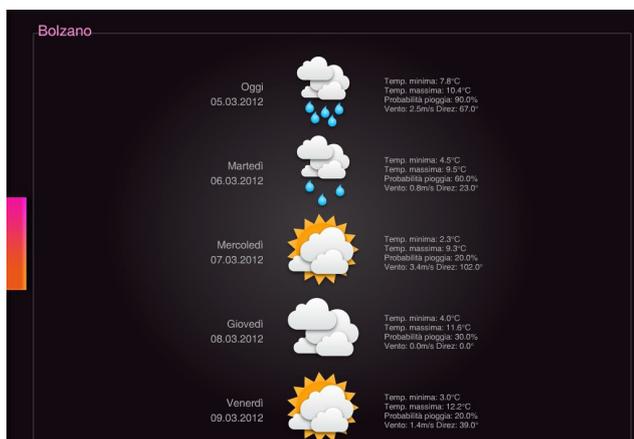
Dimension: Text size

Color: Select text color

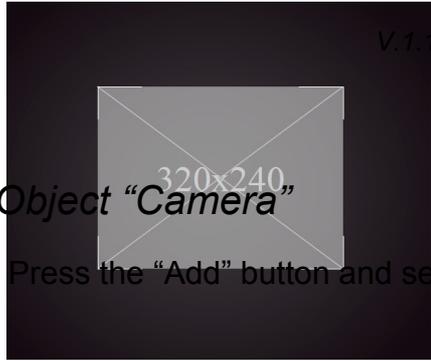
Name: Text to be visualized

Object “Weather”

Press the “Add” button and select “Weather”. On the settings page insert the name of the city or the city code. A list of city codes can be downloaded on our website. **ATTENTION: Do NOT insert more than one weather object per page.**



Example of weather forecasts page



V.1.7.0.8

Object "Camera"

Press the "Add" button and select "Camera"

Example of IP camera with resolution of 320x240 pixels

Parameter window settings "Camera"

External address: Public IP address or dyndns domain name for remote access

External port: Port used to remotely access the camera

Local address: local network camera IP address

Local port: Port used by the camera in local network

Type: select one of the already integrated cameras. If your camera is not listed select "Generic Camera"

Username: insert username for camera access (f.e. Username for Axis cameras is "root")

Password: insert the password for camera access. ATTENTION: there must be a password, do not leave the parameter blank.

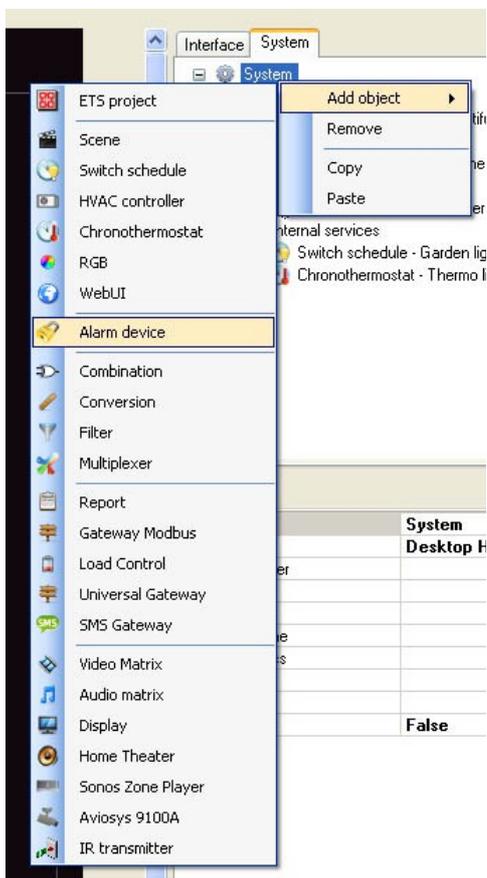
Image path: insert the path of the MJPEG image repository of the camera. If you select an integrated camera this path is shown automatically. Selecting "Generic Camera" you have to obtain this path from the manufacturer of the camera

Use local connection: if enabled, the clients start connecting to the camera using first the local IP address, if the camera is not reachable they automatically switch to the external IP address. If disabled, only external IP address is used to connect to the camera.

Label	Axis living room
External address	external.dyndns.org
External port	1001
Local address	192.168.0.1
Local port	80
Type	Axis Camera
Image dimension	320 x 240
Password	1234
Image path	axis-cgi/jpg/image.cgi
Use local connection	Enabled
Username	admin
Rotation	0
Position	249, 136
Restrictions	Not configured.
View in list	Enabled
View in web	Enabled

Object “Alarm device”

Go to the “system” folder and add (right click) the system object “Alarm device”



Parameter window settings “Alarm device”

Device type: select the correct system from the list

Communication: select the type of communication between the smartstation and the alarm system

Serial port: insert the number of the RS232 port you are using for communication. Default port is “0”.

Partitions: insert the partitions programmed in your alarm system (f.e. external perimeter, window sensors, etc.)

Partitions reading: Time of the status readings of the partitions in tenths of seconds.

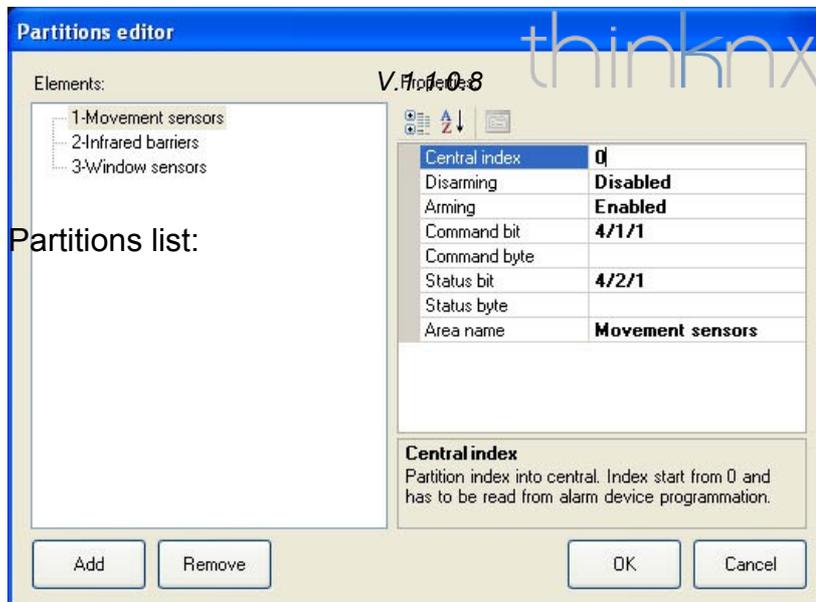
Sensors: insert the sensors programmed in your alarm system.

Sensors reading: Time of the status readings of the sensors in tenths of seconds.

KNX Gateway: activate/deactivate communication objects for KNX communication with the alarm system

Label: name of the alarm system

Device type	Bentel Kyo 320
Communication	RS232
Serial Port	0
Partitions	(Collection)
Max. partitions	32
Partitions reading	10
Sensors	(Collection)
Max. sensors	320
Sensors reading	10
KNX gateway	Disabled
Label	Bentel alarm system



Central index: insert the number of the partition you programmed in your security system.

Disarming: enable/disable the possibility to deactivate the alarm system through a KNX command

Arming: enable/disable the possibility to activate the alarm system through a KNX command

Command bit: 1 bit KNX group address to activate/deactivate the partition

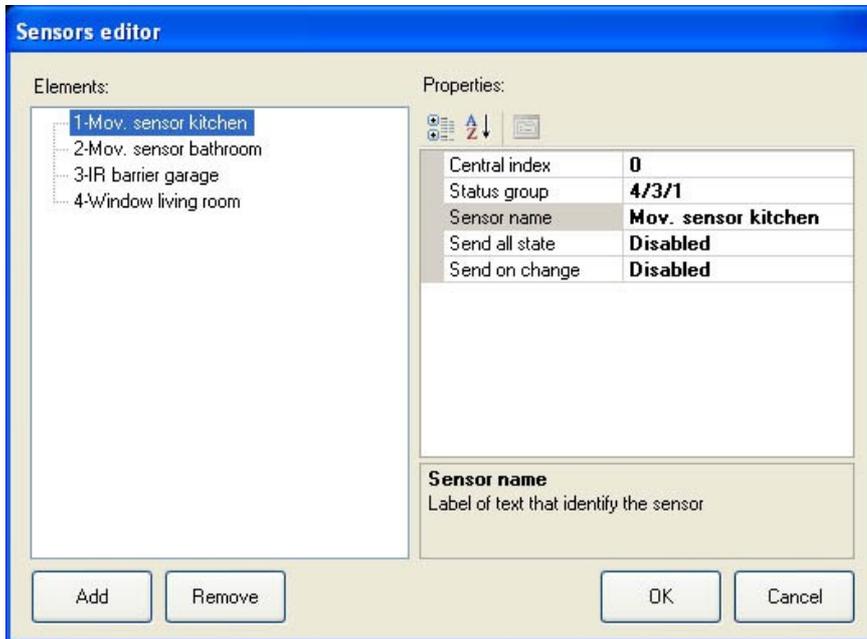
Command byte: 1 byte KNX group address to activate/deactivate the partition

Status bit: 1 bit KNX group address to receive the status of the partition (1=active, 0=not active).

Status byte: 1 byte KNX group address to receive the status of the partition.

Area name: insert the name of the partition

Sensors list:



Index number: insert the number of the sensor you programmed in your security system. ATTENTION: Numbering in configurator always starts with "0", if the first sensor in your security system has number 1 this corresponds to number 0 in configurator.

Group: insert a KNX group address to communicate with the sensor (f.e. to turn on a light using a motion sensor of the alarm system)

Name of the sensor: insert a name for the sensor

Send all states: if enabled the sensor sends all states, if deactivated the sensor sends only alarm state

Send on change: if enabled the sensor sends its state only on change

Alarm system graphics page

Press the “Add” button and select “Keypad”.



Parameter window settings “Keypad”

System: select the security system to which the keypad is connected

On a new page press the “Add” button and select “Sensor”.

Graphics example “Sensor”



Parameter window settings “Sensor”

Type of sensor: select the graphics of the sensor

Central: select the security system to which the sensor is connected.

Sensor device: select the sensor from the list

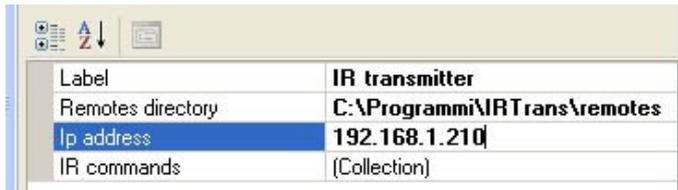
Exclusion: if enabled this sensor can be excluded by the end user by keeping the icon pressed for 3 seconds and inserting the security code.

Sensor type	Movement detector
Central	Bentel alarm system
Sensor device	<input type="text"/>
Visualization	Mov. sensor kitchen
Label	Mov. sensor bathroom
Scale	IR barrier garage
Rotation	Window living room
Position	504, 85
View in list	Enabled
View in web	Enabled

Object “IR Transmitter”

The object “IR transmitter” is bound to the “IR Trans” device and permits to send infrared commands do various appliances, such as TV’s, DVD’s, etc.

Go to the “system” folder and add (right click) the system object “IR Transmitter”.



Label	IR transmitter
Remotes directory	C:\Programmi\IRTrans\remotes
Ip address	192.168.1.210
IR commands	(Collection)

Parameter window settings “IR Transmitter”

Name: Name of the object

remotes directory: insert the path where the .txt files of IR remotes are stored. Usually you find them in C:\Program files\IRtrans\remotes

IP address: insert the static IP address of the IR Trans device

IR commands: define the single IR commands

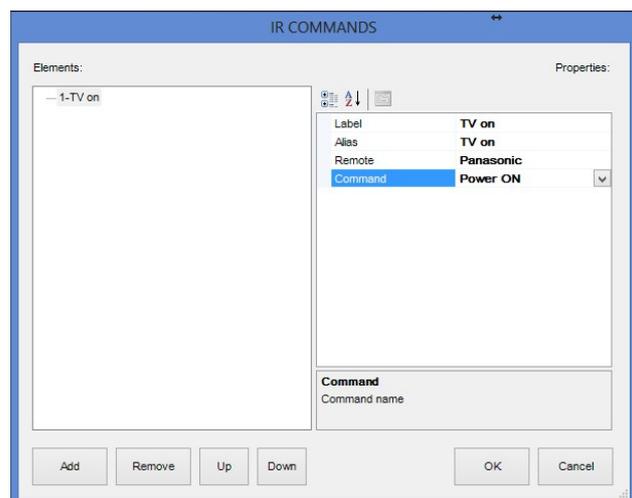
Settings “IR Commands”

Label: name of the IR command

Alias: identification of the command.

Remote: select the remote saved with the IR Trans software

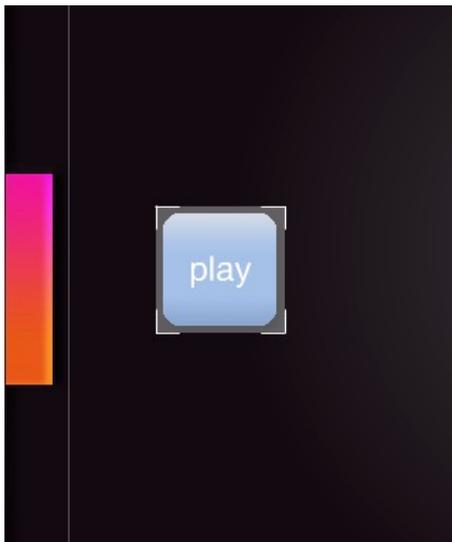
Command: select the command configured in the IR Trans software



Object “Generic command”

The object “Generic command” allows you to execute commands of the devices integrated in thinknx configurator, such as IR Trans, audio/video matrices, Sonos, etc.

Press the “Add” button and select “generic command”.



Parameter window settings “Generic command”

Command: select the command to be executed. **ATTENTION: the list contains only the commands related to the system objects already created.** In this example we select the IR command.

Parameters: Insert the value of the parameter associated to the selected command. f.e. “Alias” of the IR transmitter (see chapter “IR transmitter”)

Font type: select font type

Text dimension: select text dimension

Text color: select text color

Extra text: text to be visualized

Personalized graphic: select a personalized graphic for the button

Command	IR transmitter-Send the selected command
Parameters	play
Font	Normal text
Text dimension	20
Text color	255,255,255
Extra text	play
Custom graphic	Disabled
Label	play
Scale	100
Rotation	0
Position	252, 215
View in list	Enabled
View in web	Enabled



Examples of general buttons with personalized graphics



Logical functions

For instructions on how to use logical functions in thinknx please refer to the specific manual available on our website

Object "SMS Gateway"

Register on the website www.skebby.com. Buy the desired package of sms (we recommend the basic package).

The screenshot shows the Skebby website homepage. At the top left is the Skebby logo with the tagline "cloud sms solutions". To the right is a "Contact us" button with a phone icon and the number "+39 02 40707240". Further right are "FREE SIGN UP" and "LOGIN" buttons. Below the logo is a navigation menu with links: SMS Services, Prices, Clients, Mobile Marketing, About us, Developers, Resellers, Buy.

The main content area features several promotional boxes:

- CONTACT AND INTERACT WITH CUSTOMERS WITH A SIMPLE SMS!**
 - ✓ Reach whoever, wherever, in real time
 - ✓ Collect contacts and interact with anyone in an instant
 - ✓ Create themed communities relevant to your business
 - ✓ Quick, simple, cost-effective

Send 10/100/1000 in just seconds to advertise special offers and discounts or confirm appointments. Or gather info, requests or contributions from your customers via text message.
- TRY SKEBBY FOR FREE!**

Try the DEMO

Free sign up, no purchase commitment
- SEND SMS FROM WEB**

Send group text SMS from your website/application or from the web

Try now or read of SMS Mess enger
- RECEIVE SMS ONLINE**

Receive requests and info received online sent via SMS

Try now or read more SMS Gateway
- RECEIVE REPLY TO SMS**

Allow clients to instantly reply to your messages

Try now or read more Gateway API
- SEND SMS AT 0CENT**

With Skebby app installed on your mobiles... send texts for free

Try now or read more SMS Skebby
- SME, COMMERCE or PROFESSIONAL**

Send 10/100/1000 multiple texts easily from your PC's web browser

Try now or read of SMS Mess enger
- MEDIUM/LARGE COMPANIES**

Easily connect your application to the gateway and 10/100/1000 SMS

Try now or read more SMS Gateway
- PUBLIC SERVICES, SCHOOLS**

Send important notifications directly to citizens, teachers and members

Try now or read of SMS Mess enger
- DEVELOPERS**

Integrate apps for receiving / sending SMS for mobile marketing

Read the API documentation

Remember your account's username and password, you will need them to configure the sms service in the configurator.

Go to the “system” folder and add (right click) the system object “SMS Gateway”.

Label	SMS Gateway
Username	skebby_user
Password	skebby_password
Sender	thinknx Smartstation
Max SMS per day	30
Min. SMS for alert	5
Min. SMS alert text	
Tel number for min SMS	393477471497

Parameter window settings “SMS Gateway”

Label: name of the object

Username: username of the skebby account

Password: password of the skebby account

Sender: sender’s name shown on the SMS

Max SMS per day: the maximum number of SMS that can be sent in one day.

Min. SMS for alert: an alert SMS is sent when the number of SMS on the account reaches this value

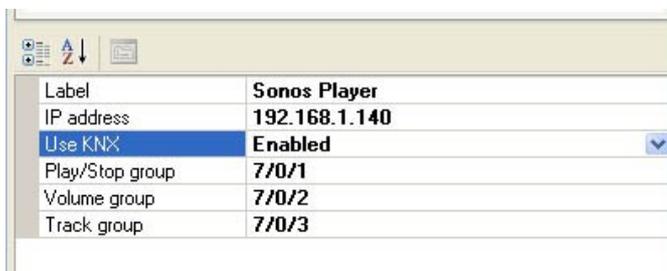
Min. SMS alert text: Text for the alert SMS

Tel. number for min. SMS: telephone number to which the alert SMS is sent (put the land code before the telephone number – f.e. 39 for Italy)

Object “Sonos zone player”

The object “Sonos zone player” is used to integrate the Sonos devices and allows you to connect the main commands such as play/stop, volume up/down and track +/- to KNX group addresses and to link them with KNX push buttons.

Go to the “system” folder and add (right click) the system object “Sonos zone player”.



Label	Sonos Player
IP address	192.168.1.140
Use KNX	Enabled <input type="checkbox"/>
Play/Stop group	7/0/1
Volume group	7/0/2
Track group	7/0/3

Parameter window settings “Sonos zone player”

Label: name of the object

IP address: IP address of the sonos zone player: **ATTENTION: Sonos zone players work only with DHCP, so you have to go to the settings of your DHCP server (usually the router) and assign a fixed IP address to the MAC address of the Sonos device**

Use KNX: enable/disable control of sonos device with KNX

Play/Stop group: KNX group address for play/stop

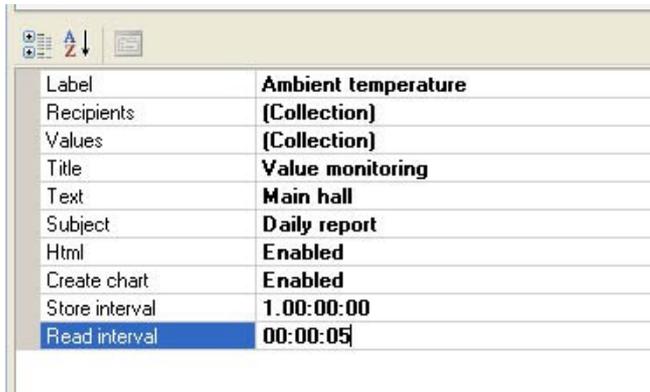
Volume group: KNX group address for volume up/down

Track group: KNX group address for track +/-

Object “Report”

The object “Report” permits you to collect data of one or more group addresses and to send a report by mail to a list of recipients. The report can be sent as a text file or html file.

Go to the “system” folder and add (right click) the system object “Report”.



Label	Ambient temperature
Recipients	(Collection)
Values	(Collection)
Title	Value monitoring
Text	Main hall
Subject	Daily report
Html	Enabled
Create chart	Enabled
Store interval	1.00:00:00
Read interval	00:00:05

Parameter window settings “Report”

Label: name of the object

Recipients: list of e-mail addresses to which the report is sent

Values: values to be recorded

Title: Title of the report

Text: Mail text

Subject: Mail subject

Html: if enabled the report is sent as html file, otherwise it is sent as text file.

Create chart: if enabled an additional graphic evaluation of the data is sent

Store interval: time period for values to be collected

format:

days.hours:minutes:seconds

Example values for one day:

1.00:00:00

Example values for one hour:

0.01:00:00

Read interval: time interval between the readings of the value

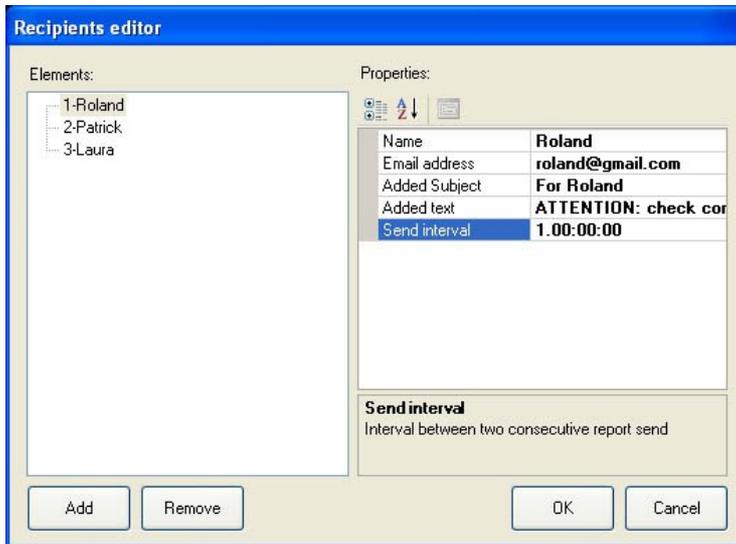
format:

hours:minutes:seconds

Example reading every 10 seconds:

00:00:10

Recipients editor



Name: name of the recipient

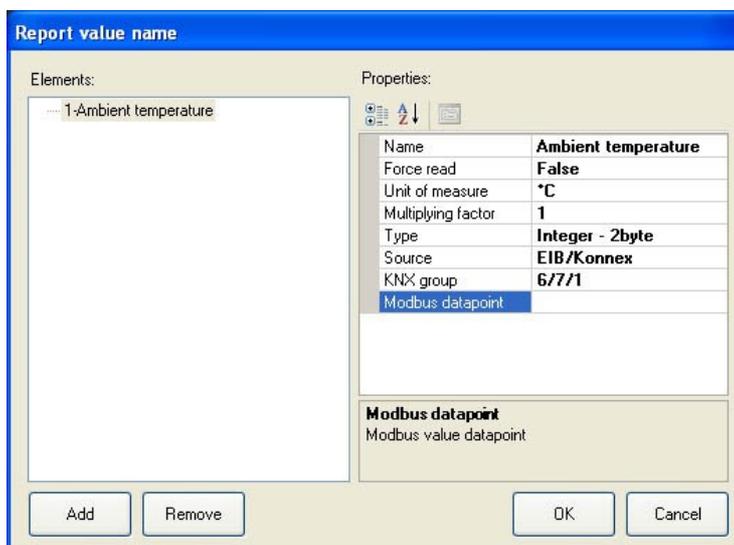
Email address: mail address of the recipient

Added Subject: specific subject added for the recipient

Added Text: specific text added to the mail for the recipient

Send interval: sending interval for this recipient

Report values



Name: name of the value

Force read: if enabled the value is read on a regular time basis (reading interval is editable), otherwise the program waits passively for the data

Unit of measure: measuring unit associated to the value

Multiplying factor: factor to multiply with the read values

Type: type of KNX value to be read

Source: KNX or Modbus

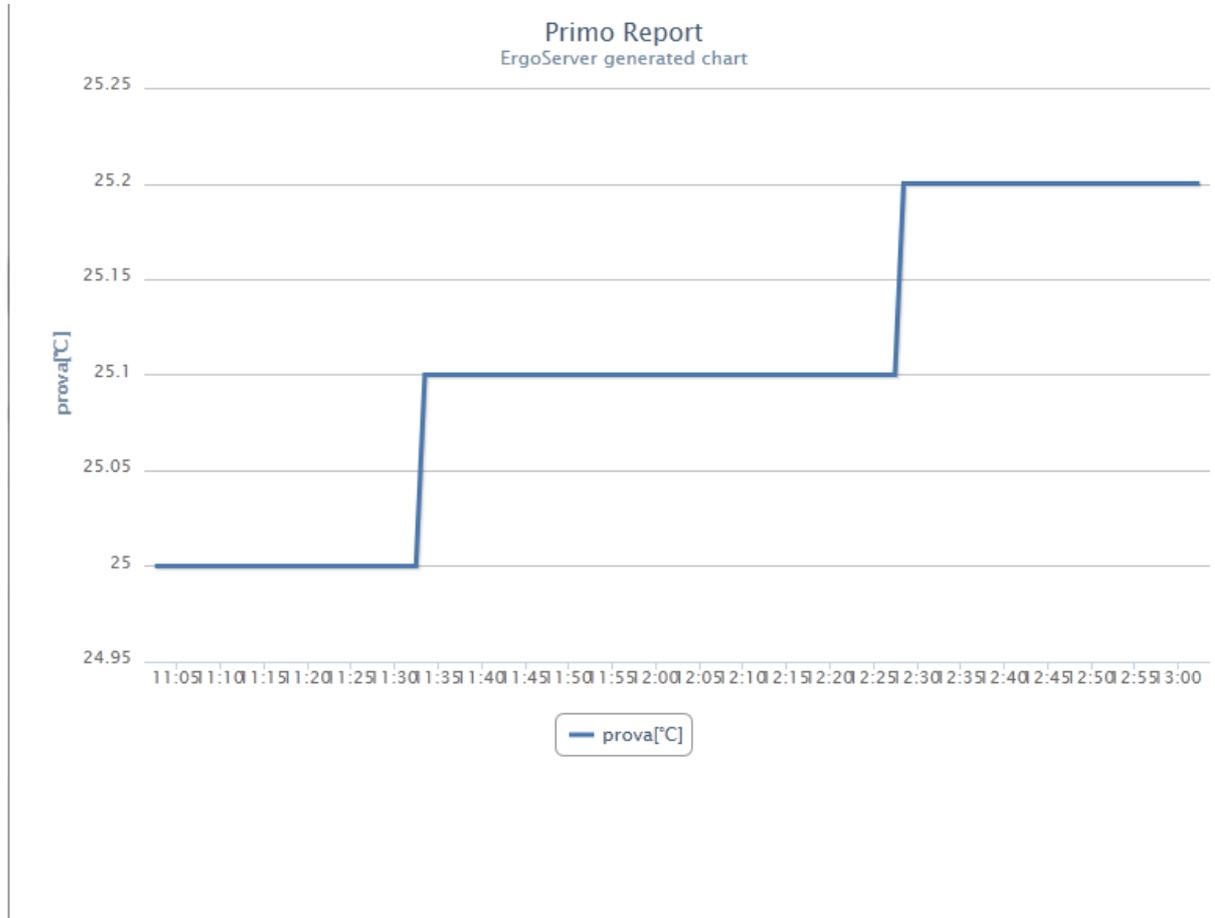
KNX group: KNX group address of the value to be read

Example of html report attached to the mail sent from the server

Ergoserver Report Engine
Valori capannone

<u>Date</u>	<u>Time</u>	<u>Temperatura stazione meteo[°C]</u>	<u>Potenza attuale[Watt]</u>	<u>Vento[m/s]</u>
03/26/2012	14:46:33	23.3	168	1.5
03/26/2012	14:50:51	24	167	2.7
03/26/2012	14:54:15	24	168	1
03/26/2012	14:56:17	24.1	167	0.9
03/26/2012	14:59:42	24.1	169	1.4
03/26/2012	15:02:28	23.6	168	2.6
03/26/2012	15:06:08	23.8	169	1.3
03/26/2012	15:08:46	24.4	170	1.3
03/26/2012	15:12:23	24.2	168	2.2
03/26/2012	15:16:01	24.1	178	0.9
03/26/2012	15:19:51	24.5	178	0.9
03/26/2012	15:23:28	24.6	179	2.4
03/26/2012	15:25:47	24.6	168	0.9
03/26/2012	15:29:22	24.6	168	1.2
03/26/2012	15:32:21	24.4	167	0.7
03/26/2012	15:35:48	24.8	169	2.1
03/26/2012	15:38:42	24.3	167	1.3
03/26/2012	15:42:19	23.9	260	1.7

Example of graphical evaluation added to the mail



Object “Load Control”

The object “Load Control” allows an automatic shutdown of the major loads such as washing machines, dryers, etc. when the total consumption of the building reaches a specified limit and turns the loads back on when the consumption goes back down.

Go to the “system” folder and add (right click) the system object “Load Control”.

Label	Load Control
Type	Floating point - 4byte
Maximum power [W]	3000
Warning threshold [W]	2700
Power value group	6/4/1
Warning group	6/4/2
Reconnection time	00:05:00
Disconnection time	00:00:30
Time between loads disconn	00:00:15
Loads	(Collection)

Parameter window settings object “Load Control”

Label: name of the object

Type: type of the instant power reading object, usually 2Bytes if power is read in kW, 4Bytes if power is read in W

Maximum power: maximum power consumption in W or kW for the building. When this value is exceeded the automatic shutdown begins.

Warning threshold: when consumption reaches this value a warning signal is sent to the warning group

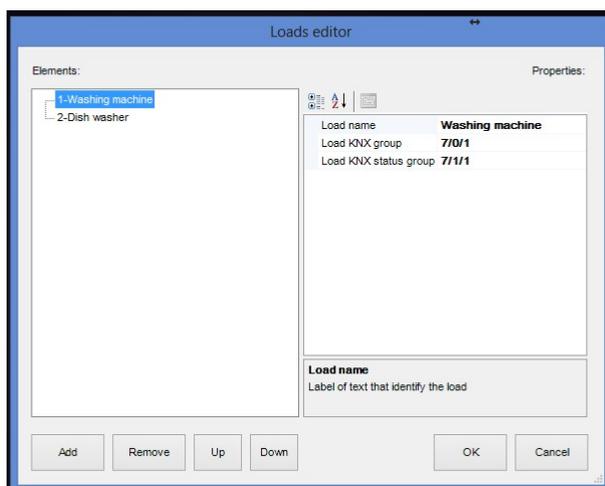
Power value group: group address where the KNX energy meter sends the consumption value

Warning group: group address to which the warning signal is sent (1 bit)

Reconnection time: Time (in seconds) after which a turned off load is re-activated

Disconnection time: When the maximum power is overrun the system waits for a specified time before starting to turn off the loads.

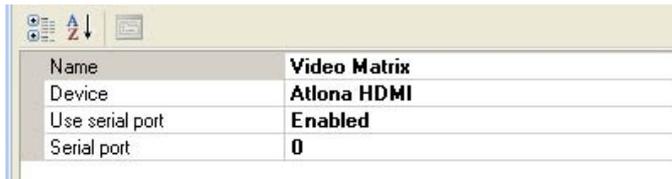
Loads: opens the loads editor window



Loads editor window: load number 1 is the first load to be disconnected

Objects “Audio and Video Matrix”

Go to the “system” folder and add (right click) the system object “Audio matrix” or “Video matrix”.



Name	Video Matrix
Device	Atlona HDMI
Use serial port	Enabled
Serial port	0

Parameter window settings object
“Audio/Video matrix”

Name: name of the device

Device: select the device you want to control

Use serial port: enable serial port communication

Serial port: enter the number of the serial port to which the matrix is connected (RS232 port is number 0)

The single commands of the audio/video matrix can be associated to generic commands (see chapter “Generic command”)

Object “Universal Gateway”

The object “Universal Gateway” allows you to activate actions depending on a command or specific value sent from the KNX bus. You can use it f.e. to create temperature alarms.

Go to the “system” folder and add (right click) the system object “Universal Gateway”.



Example 1: the server sends a 1 bit KNX alarm telegram if the temperature is higher than 35 degrees

Name: name of the event

KNX group: group address in which the value for the event breakout is read

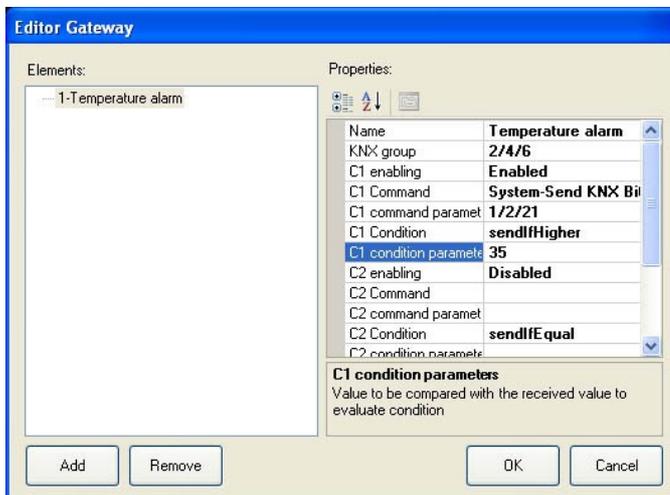
C1 enabling: enables condition 1

C1 command: select the desired action to be executed. The list contains the commands of the devices added as system objects

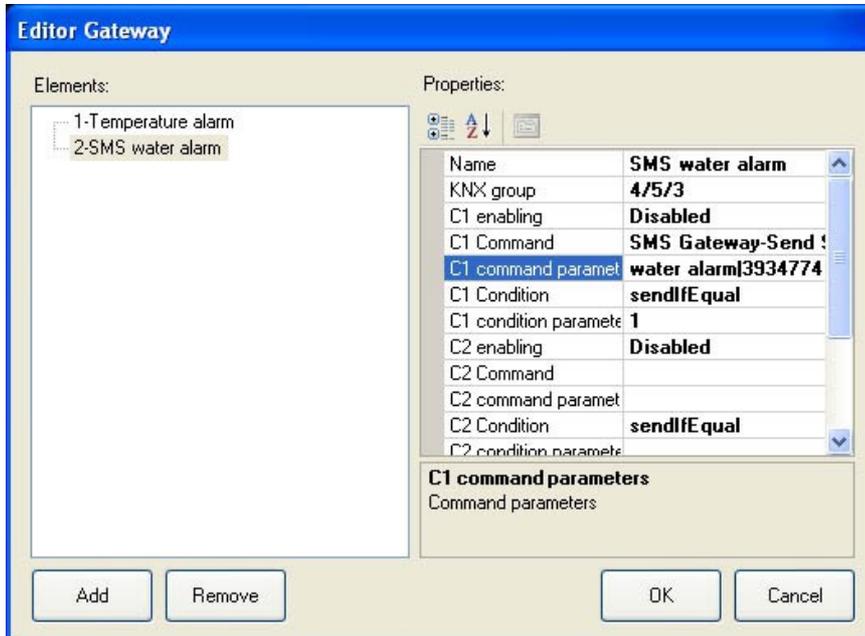
C1 command parameters: insert the value of the command (see command parameter list at the end of the handbook).

C1 condition: active condition for the action to be executed

C1 condition parameters: select the value for the condition.

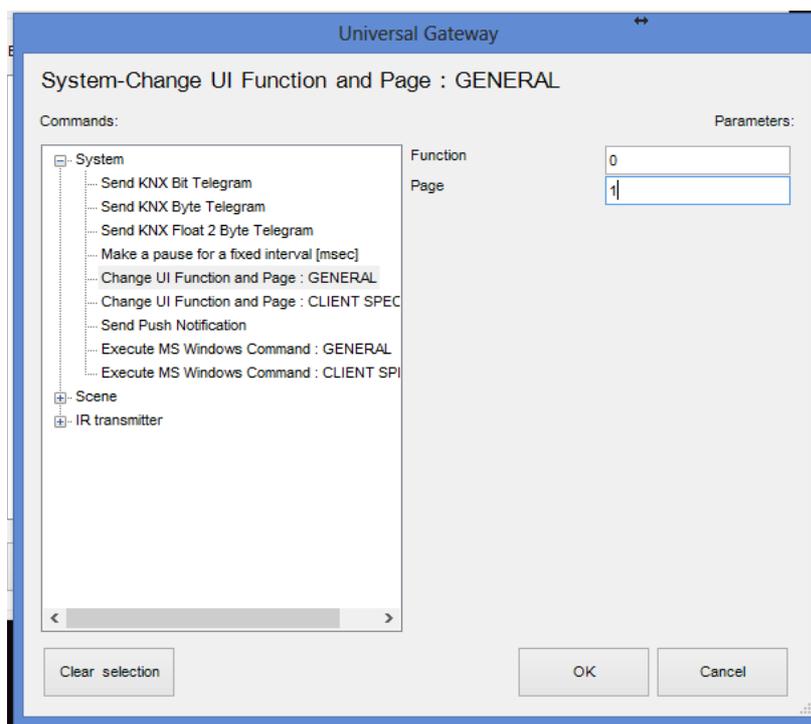


Example 2: the server sends an SMS message with text “water alarm” if a 1 bit telegram with value 1 is sent to the KNX group address 4/5/3



Push notification and automatic page change

With the system object “Universal Gateway” it is possible to manage technical alarms. The functions available for that are the automatic page change and the “push notification” messages, which appear on the screen also when the iPad is in standby and the Ergo application is closed. To activate the push notification just configure the Universal Gateway as described in the chapter above and select the command “System-Send Push Notification”, entering in the parameters field the text to be sent as alarm message. To configure the automatic page change select the command “System-Change UI Function and Page – GENERAL” and insert in the parameters field the number of the function and then the number of the page, f.e. function 0 and page 1 to jump to page number two in function number 1. **ATTENTION: the numbering of functions and pages starts with 0. In the parameters window of every function and page you can find its number.** These two functions can be used also with the object “Generic command”.



Difference between GENERAL and CLIENT SPECIFIC page change:

If you use GENERAL page change, all the clients connected to the server will change page. This function is used mainly for alarm purposes.

If you use CLIENT SPECIFIC page change only the client recalling the function will change page. Use this function for page navigation purposes in connection with generic command.

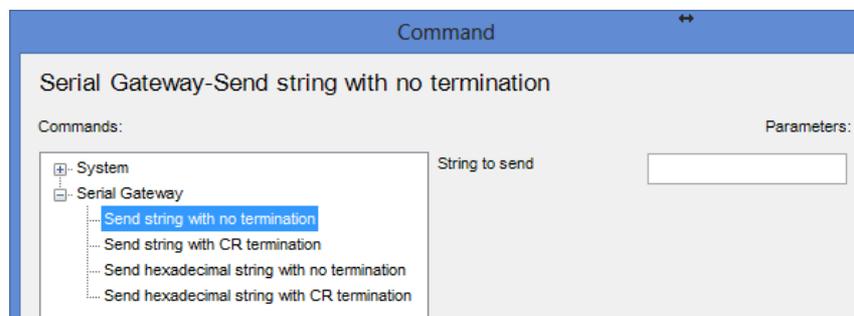
Object “Serial Gateway”

The serial gateway permits you to control a device attached to the RS232 port of the Thinknx device (only Alveo Compact and Rack, Alveo Micro has no RS232 port).

Label	Serial Gateway
Port Number	1
Baud Rate	57600
Data Length	8
Parity	None
Stop Bits	One

In the properties window of the serial gateway you can enter the communication parameters of the RS232 port. These parameters have to match the settings of the RS232 port of the device you are going to control. You will find these informations on the user manual of the device.

Commands can be sent either in alphanumeric or hexadecimal format. Next step is to create one button for each serial command you have to send. To do this add a generic command to the page (see chapter “Generic Command” for details) and select one of the following commands:



Send string with no termination: Sends the string in alphanumeric format without “carriage return” at the end of the command.

Send string with CR termination: Sends the string in alphanumeric format with “carriage return” at the end of the command.

Send hexadecimal string with no termination: Sends the string in hexadecimal format without “carriage return” at the end of the command.

Send hexadecimal string with CR termination: Sends the string in hexadecimal format with “carriage return” at the end of the command.

Object webpage “WebUI”

With the object “WebUI” you can define the users which will have access to the html pages. At this point only the usernames are created, the passwords will be inserted later in the server.

Go to the “system” folder and add (right click) the system object “WebUI”.

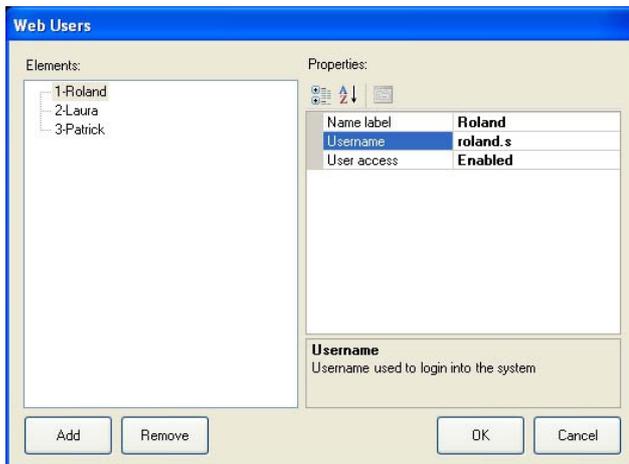


Label: name of the object

Users: insert the list of users allowed to access the html pages

Web access: enable/disable web access

Users list



Name label: name of the user

Username: username that will be used to access the webpage. The password for the first access is “password”. Every user can change its own password on the first page of the web interface.

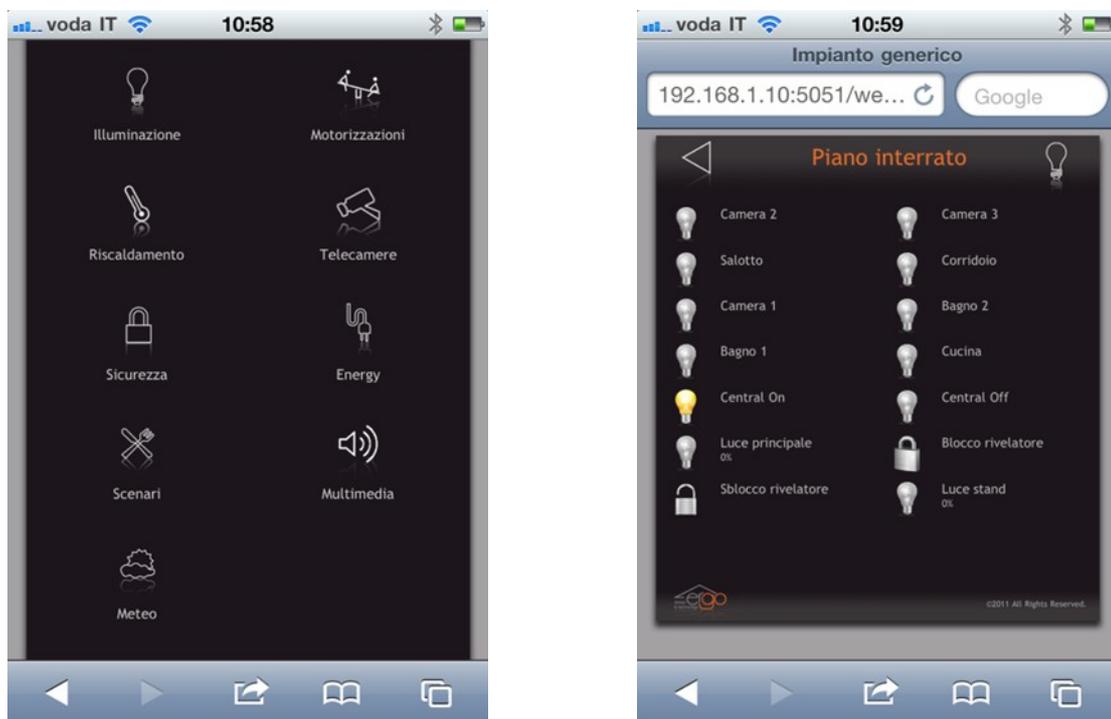
User access: grant/deny this user the access to the web page

The graphic of the web page is generated automatically with the creation of the project in thinknx configurator. You can define for every function/page/object whether it will be visible on the web page or not.

When you upload your project to the thinknx smartstation also all the information to create the web page is transferred.

ATTENTION: the WebUI function needs a software license in order to work. See chapter “License management”.

Example of web graphics page on iPhone



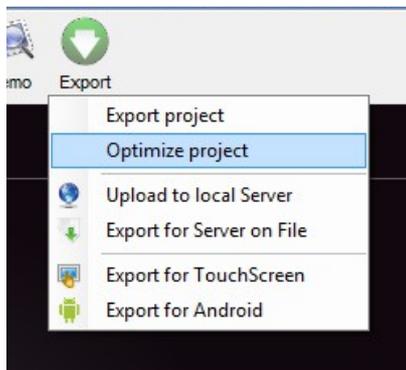
After having uploaded the project file to the server you can access the pages using a web browser entering the IP-address of the server followed by port 5051 (f.e. 192.168.1.2:5051). You will be prompted to enter username and password.

How to make your project run

In this chapter we show you how to upload the project you create on thinknx configurator to the server and the clients (iPad/iPhone, touch screen, Android). To optimize the speed of the commands and feedbacks we have decided to store all the graphics directly on the clients, the server contains only command and logic information. This requires you to update both server and clients after each modification of the project.

Optimizing the project

Before you export your project it is recommended that you optimize its graphics, reducing its size and increasing its speed on the clients. This can be done using the automatic optimization function, which “cleans” the project deleting all unnecessary parts. You can find this function pressing the “Export” button.



Exporting the project for thinknx server

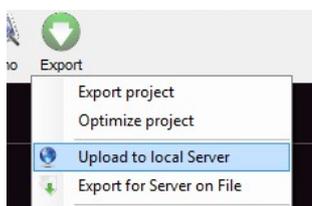
Once you have run the optimization process you can upload the project to the server. As already mentioned the server contains no graphics, only command information. It is very important to update the server after each change of the project, even if the modifications are small (like changing a graphic or adding a text).

Direct file upload to the server

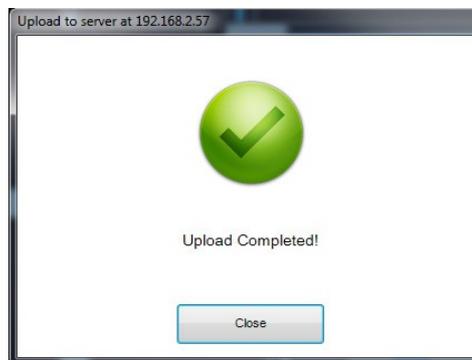
In order to be able to use the direct server upload please verify that you have entered local server IP address and server password in the system settings of your project.

Label	System
Server type	Compact
Serial number	
Password	password
External IP address	example.dyndns.org
Server client port	7550
Local IP address	192.168.0.100
System name	

Press the “Export button” on the main menu and select “Upload to local server”.



You will see the following screens:



Once the upload is finished the server will automatically restart.

Server upload with file

Press the “Export button” on the main menu and select “Export for Server on file”.

Save the file and remember its location. The exported file has a .srv extension and contains all the logical functions of the project like KNX group addresses, timers, scenes, etc. and a very reduced part of the icon graphics regarding the web page. In the next chapter we explain you how to upload the file you just exported to the server.

Accessing thinknx Alveo

ATTENTION: we recommend using the browsers “Mozilla Firefox” or “Google Chrome”, we can not guarantee complete functionality with Internet Explorer.

To access the server’s login page enter its IP address followed by :5051 (f.e. <http://192.168.1.2:5051>)

The first time you access the server insert username “**service**” and password “**password**”. You will then be prompted to enter a new password.



Main page

Navigation buttons

The screenshot shows the ThinkKnx main page. At the top right is the 'thinknx' logo. Below it is a navigation bar with icons and labels for HOME, UPLOAD, SERVER, MAINTENANCE, MONITOR, and LOGOUT. Lines from the text 'Navigation buttons' point to these icons. On the left, a user profile for 'Administrator' is shown with a login time of '19/09/2012 - 15:11' and buttons for 'PASSWORD' and 'LOGOUT'. The main content area has a 'WELCOME!' section with the text 'Welcome on ThinkKnx server!' and a note: 'These pages are intended for configuration and maintenance of your ThinkKnx server'. Below this is an 'Attention:' section with a warning about configuration changes and a link to 'technical support'. On the right, there are three expandable sections: 'FAST LINKS' with links for 'Configuration upload', 'Network configuration', and 'Bus Monitor'; 'MAINTENANCE' with options for 'Soft restart', 'Full restart', and 'Shutdown'; and 'SERVER INFO' displaying license and hardware details.

Administrator
Login time: 19/09/2012 - 15:11
PASSWORD LOGOUT

HOME UPLOAD SERVER MAINTENANCE MONITOR LOGOUT

WELCOME!

Welcome on ThinkKnx server!

These pages are intended for configuration and maintenance of your ThinkKnx server

Attention:
Any unaware modification of configurations and settings contained on these pages can lead to unpredictable and severe damages to server and connected devices.
If you believe you are not skilled enough to use these pages please close this browser page.
For any necessary technical support please refer to manual pages or contact [technical support](#).

FAST LINKS

- [Configuration upload](#)
Permits to upload the configuration file
- [Network configuration](#)
Permits to setup network connection
- [Bus Monitor](#)
Show KNX bus monitor page

MAINTENANCE

- [Soft restart](#)
Perform a server software restart
- [Full restart](#)
Perform a full reboot of the server
- [Shutdown](#)
Perform a clean shutdown of the server

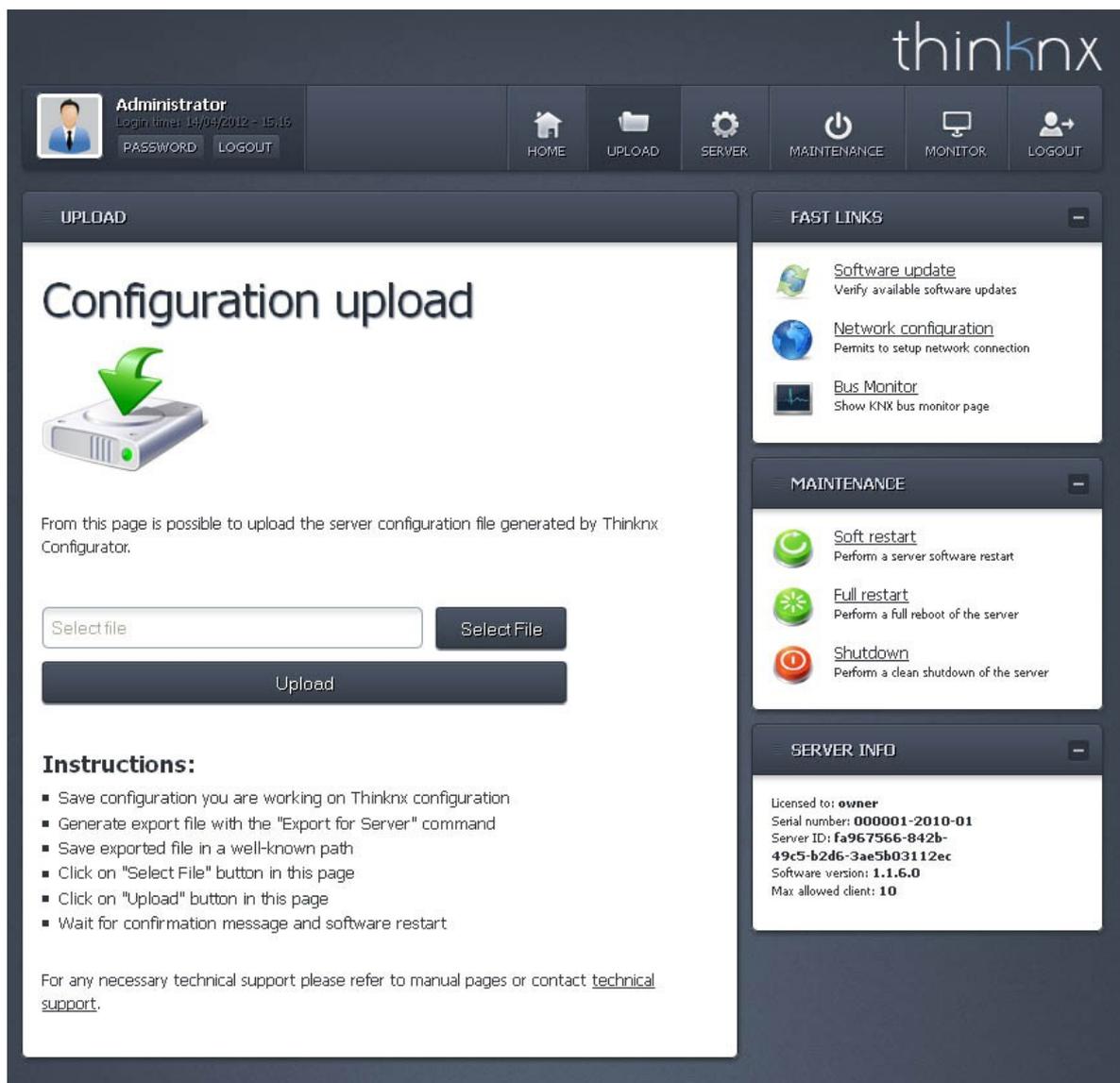
SERVER INFO

Licensed to: **owner**
Serial number: **000001-2010-01**
Server ID: **fa967566-842b-49c5-b2d6-3ae5b03112ec**
Software version: **1.1.6.0**
Max allowed client: **10**

Uploading a project to the server

On the main page (Home) click the link “Configuration upload” or the “Upload” button in the upper menu.

Click the button “Select file” , browse to the folder where you exported the .srv file, select it and press “open”. Press the “Upload” button. When the server has finished uploading the file it performs a quick restart and goes back to the login page.



The screenshot displays the Thinknx web interface. At the top right is the 'thinknx' logo. Below it is a navigation bar with icons for HOME, UPLOAD, SERVER, MAINTENANCE, MONITOR, and LOGOUT. On the left, a user profile for 'Administrator' is shown with a login time of 19/04/2012 - 15:16 and buttons for PASSWORD and LOGOUT. The main content area is titled 'UPLOAD' and features a large heading 'Configuration upload' with a server icon and a green arrow. Below this, text explains that users can upload server configuration files generated by Thinknx Configurator. There is a 'Select file' input field, a 'Select File' button, and a large 'Upload' button. An 'Instructions:' section lists steps: save configuration, generate export file, save file, click 'Select File', click 'Upload', and wait for confirmation. A footer note refers to manual pages or technical support. The right sidebar has three sections: 'FAST LINKS' with links for Software update, Network configuration, and Bus Monitor; 'MAINTENANCE' with options for Soft restart, Full restart, and Shutdown; and 'SERVER INFO' showing license details, serial number, server ID, software version, and max allowed clients.

Server settings

Click the navigation button “Server”. On the “Server management” page you can see the active licenses, the serial number of the server and the version of the actually running firmware. From this page you can access the licensing page, the users page (password management for web access users – see chapter “WebUI), the network configuration page, you can update the firmware and change date and time.

Administrator
Login time: 14/04/2012 - 15:16
PASSWORD LOGOUT

HOME UPLOAD SERVER MAINTENANCE MONITOR LOGOUT

SERVER

Server Management

From server menu you can manage all setting of your server.

Server status information:

- Licensed to : **owner**
- Serial number : **000001-2010-01**
- Server ID : **fa967566-842b-49c5-b2d6-3ae5b03112ec**
- Software version : **1.1.6.0**
- Max number of allowed clients : **10**
- Present number of connected clients : **0**
- Last connected client code :
- Last connected client IP :
- Uptime : **1 days 20 hours 15 mins**
- Enabled licenses:
 - EIB Konnex**
 - Web full**
 - Multimedia**
 - Sicurezza**
 - Termoregolazione**

For any necessary technical support please refer to manual pages or contact [technical support](#).

SUBFUNCTIONS

- Licenses & Codes**
Permits to manage license codes
- Users**
Reset web users password
- Network configuration**
Permits to setup network connection
- Software update**
Verify available software updates
- Date & Time**
Permits to adjust system clock
- Language**
Permits to change pages language

MAINTENANCE

- Soft restart**
Perform a server software restart
- Full restart**
Perform a full reboot of the server
- Shutdown**
Perform a clean shutdown of the server

SERVER INFO

Licensed to: **owner**
Serial number: **000001-2010-01**
Server ID: **fa967566-842b-49c5-b2d6-3ae5b03112ec**
Software version: **1.1.6.0**
Max allowed client: **10**

License management

On this page you can activate licenses and grant access to clients such as iPad, touch screen or Android.

On the “Server management” page click “Licenses & Codes”

Licenses & codes



From these pages you can manage license codes and enabled clients.

License codes:

Any license code enables functionality of Thinknx server and maximum number of allowed clients.

Inserted codes:

**06d59m609amd478mtubtu66bd1m9utue-
FOSBMXo+iWp5kOxSWmePtWWVL1HR0t1YBCF0bhD58E=**

Codes has to be required to [Thinknx](#). Request has to contain server serial number and server ID.

Clients codes:

A unique code is associated to any running client (Ipad, Touch Screen, PC). This code must be inserted into the list of server known codes and has to be enabled. Server ensure connection just to enabled clients.

Maximum allowed client: **10**

Last connected client code:

Last connected client IP:

N.	ENABLED	CODE	DESCRIPTION	REMOVE
0	<input checked="" type="checkbox"/>	7b5e5789491c5ca9ecdc8466604e317c46b49656	<input type="text"/>	<input type="button" value="Delete"/>

Activating licenses

To activate a license (additional clients, multimedia, security, etc.) copy and paste the license code into the “insert license code” field and press “Add License Code”.

Granting access to a client

As access to the server is reserved to a limited number of clients (corresponding to the number of activated client licenses) these have to be enabled on the server. This can be done on the “Licenses & codes” page under the “Clients codes” section. First thing you have to do is make a first connection attempt with your client (see specific chapters to see how to do this) in order to tell the server its client code. Once the client has tried to connect you will see its code right of “Last connected client code:”. Select the code with the left mouse button, right click it and select “copy”, then right click the “insert client code” field and select paste. Press the “Add Client Code” button and a new line appears on the clients list above. Now you have to check its “Enabled” field and enter a brief description of the client.

Clients codes:

A unique code is associated to any running client (Ipad, Touch Screen, PC). This code must be inserted into the list of server known codes and has to be enabled. Server ensure connection just to enabled clients.

Maximum allowed client: **10**

Last connected client code: **2378e1ecbdf33a04e39ff5182e12073f010cf252**

Last connected client IP:

Client code to activate

N.	ENABLED	CODE	DESCRIPTION	REMOVE
0	<input checked="" type="checkbox"/>	7b5e5789491c5ca9ecdc8466604e317c46b49656	<input type="text"/>	Delete

insert client code

Add Client Code

Network settings

On the “Server management” page click “Network configuration”. On this page you can see the actual network settings and you can change them.

Network Configuration



From these page is possible to modify network connection parameters.

Current settings :

- IP address : **192.168.2.80**
- Subnet Mask : **255.255.255.0**
- Gateway address : **192.168.2.1**
- Primary DNS address : **192.168.2.1**
- Secondary DNS address : **8.8.8.8**
- Client DHCP : **Disabled**

New settings :

Client DHCP	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
IP Address	<input type="text" value="192.168.2.80"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
Gateway Address	<input type="text" value="192.168.2.1"/>
Primary DNS Address	<input type="text" value="192.168.2.1"/>
Secondary DNS Address	<input type="text" value="8.8.8.8"/>

Save changes

After server ip address modification you need to type the new address on the browser address bar.

For any necessary technical support please refer to manual pages or contact [technical support](#).

KNX bus monitor

The bus monitor allows you to control KNX traffic and to send values to specific group addresses. Click the navigation button “Monitor” and select KNX bus monitor.

MONITOR

Knx bus monitor

From this page is possible to interact with KNX/EIB bus. Right menu contains all the options needed to send messages over the bus.

Bus messages:

TIME	SENDER	DESTINATION	DATA
16:00:42.878	1/0/2	4/0/1	18.5
16:00:43.246	1/0/222	4/0/11	13.78
16:00:46.044	1/0/201	9/0/0	0.49

SEND TELEGRAM

Send messages on bus

KNX group:

Length:

Data type:

Option:

Value:

Send

Read Group

MAINTENANCE

- Soft restart**
Perform a server software restart
- Full restart**
Perform a full reboot of the server
- Shutdown**
Perform a clean shutdown of the server

Bus messages:

sender: physical address of the device sending the telegram

destination: destination group address of the telegram

data: value of the telegram

Logs monitor

The logs monitor allows you to check system log messages. Click the navigation button “Monitor” and select Logs monitor.

MONITOR

Server Logs Monitor

These page reports log messages from server. It is possible to trace server functioning and debug problems with other connected devices.

Log messages:

TIME	SOURCE	DESCRIPTION
11/18/2013-15:55:46	KNX	New value received for group : 9/0/0 - 0.51
11/18/2013-15:55:51	Calendar	Check Calendar: 31
11/18/2013-15:55:52	KNX	New value received for group : 4/1/1 - 21
11/18/2013-15:55:56	KNX	New value received for group : 9/0/0 - 0.5

FILTERS

Filter messages basing on its source

Messages Source:

- Every source
- KNX
- Calendar

MAINTENANCE

- Soft restart**
Perform a server software restart
- Full restart**
Perform a full reboot of the server
- Shutdown**
Perform a clean shutdown of the server

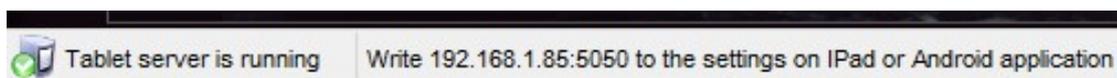
SERVER INFO

Licensed to: owner
 Serial number: 000466-2013-06D
 Server ID: 05ec0316-6e6f-4ab5-8e14-a82085adfcab
 Software version: 1.1.8.0
 Max allowed client: 3

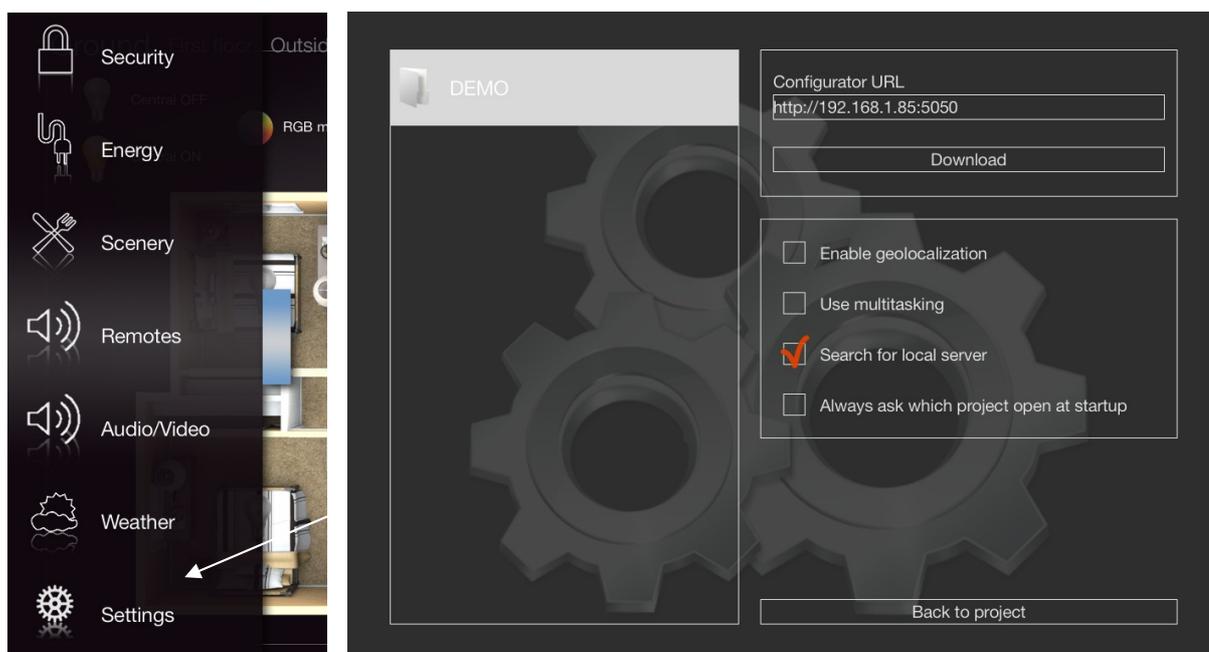
In “Message source” you can filter the log messages by selecting the desired option.

Uploading the project to the iPad/iPhone

As already said, the graphical data is stored on the iPad/iPhone, not on the server, this is why your iPad/iPhone needs to connect to the computer running thinknx configurator in order to upload the graphics. Of course the iPad/iPhone and the computer have to be on the same network. First thing you have to do is buying the app on apple store (search for “thinknx”). You will find two apps for iPad: thinknx tester (free app for testing purposes with no connection to the server) and the full thinknx app, and two apps for iPhone: Thinknx pocket tester (free app for testing purposes with no connection to the server) and the full thinknx pocket app. You will have to buy the full app. It is very important that you check that no firewall is running on your computer (neither windows firewall nor any antivirus software with firewall), as it would not allow your iPad/iPhone to access the computer and the uploading of the project would not work. Open thinknx configurator, open your project and press the “Tablet” button. Nothing seems to happen, but in the background a temporary file is created and on the left bottom corner of the screen appears “Tablet server is running”.



You will also see a writing “Write http://<IP_Address>:5050 to the settings...”. This address has to be entered in the field “Configurator URL” on the thinknx settings page on the iPad/iPhone. To access the settings page open the Thinknx app, open the functions menu on the left (on the iPhone this menu is only available if you hold the iPhone horizontally) and you will find the settings button as last entry of the functions list. Press “Download” to download the project from your computer.



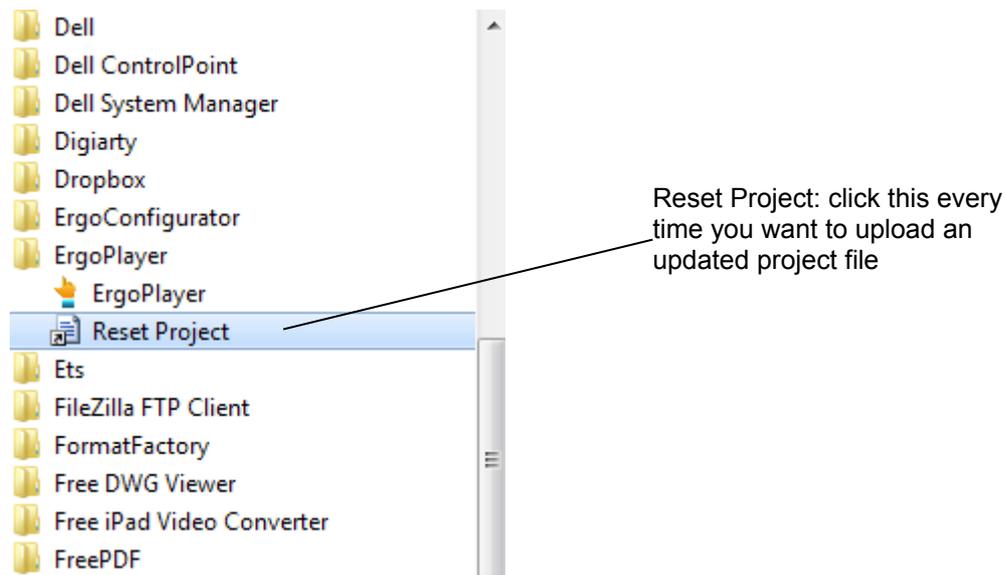
Every time you change your project and want to update your iPad press the “Tablet” button in thinknx configurator (an updated temporary file is created), enter the settings page and press the “Download” button.

To delete a project from the project list in your app, just swipe it to the left with your finger.

The first time you try to connect to the thinknx smartstation with your iPad the app will hang on the window “Authentication in progress”, this is because you don’t have enabled yet this iPad on the server. See chapter “Granting access to a client”.

Exporting a project for the windows client

thinknx player is the name of the windows client application. You can download it from our website and install it on the computers which you want to connect to the thinknx smartstation. Once installed the client software needs a dedicated project file, this can be exported, of course, from the configurator. To do this press the “Export” button and select “Export for TouchScreen”. A file with .tou extension is created, which needs to be copied to every computer running the client software (you can do this f.e. using a USB stick). When you launch thinknx player a window appears where you have to browse to the folder containing the .tou file and select it. The client software will not ask you for this file any more. Shoul you need to upload an updated file go to START – programs – thinknx player – Reset Project. The next time you start thinknx player you will be prompted again for the file.



Same as for the iPad also the windows client needs to be enabled on the thinknx smartstation. See chapter “Granting access to a client”.

Accessing the system from the Internet with the iPad/Android

To be able to visualize and manage your system from the internet using your iPad/Android device the following two conditions must be fulfilled:

- the customer must have a ADSL line either with static IP address or with dynamic IP address and a dyndns account
- on the router/firewall port 7550 must be forwarded to the IP address of the thinknx smartstation (if you are not familiar with this kind of configuration please ask the system administrator of the network)

Once the conditions mentioned above are given, you just need to type in the public IP address or the dyndns domain name as “External IP address” in the system setting of your project and update the clients.

Label	System
Server type	Compact
Serial number	
Password	password
External IP address	example.dyndns.org
Server client port	7550
Local IP address	192.168.0.100
System name	
Location	
Latitude	0
Longitude	0
KNX address	
Time server	Disabled