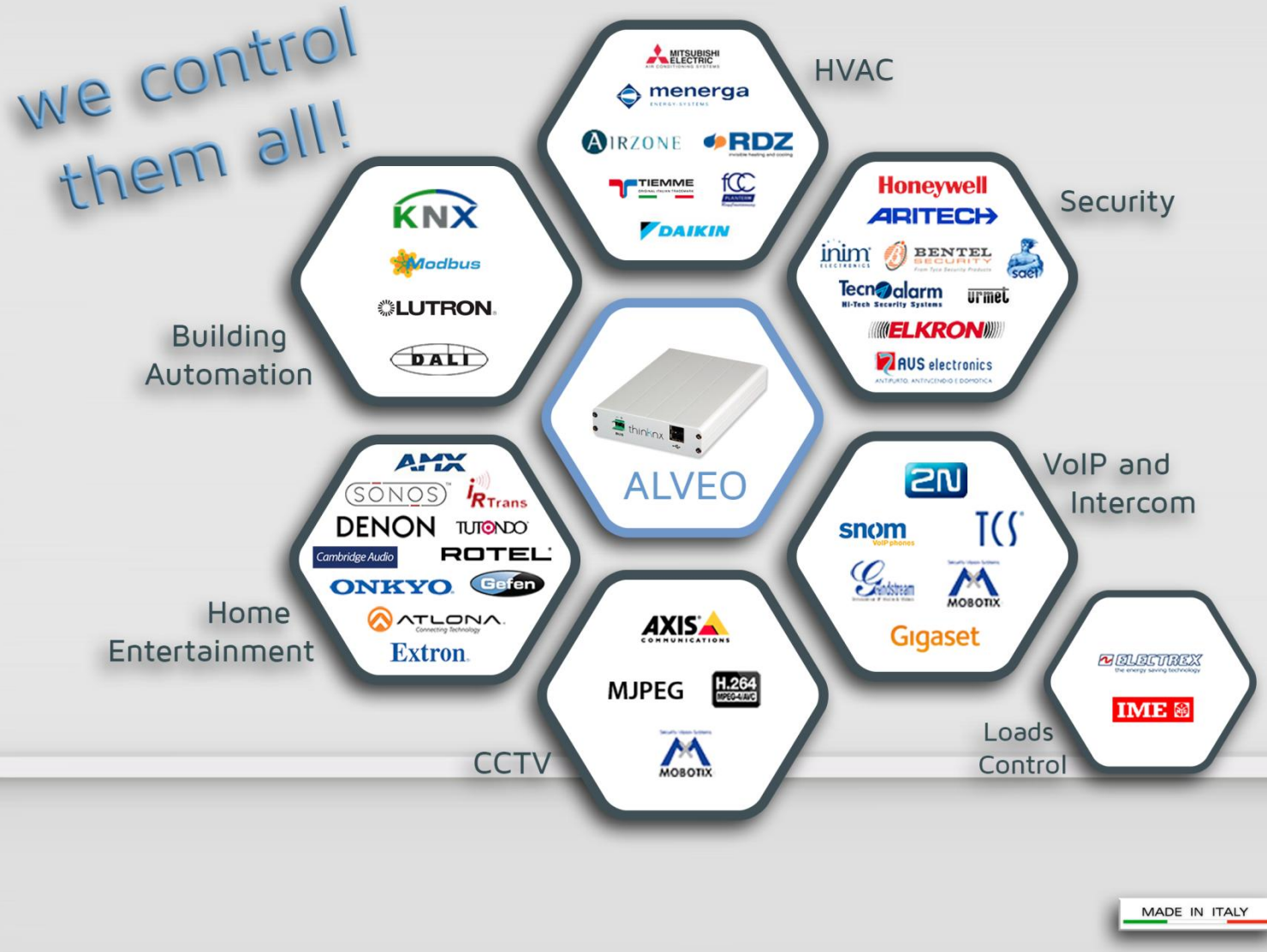

Ground First floor Outside
Central OFF
Central ON
RGB management
Sensor ON
Sensor OFF
Lights
brickbox
thinknx
thinknx
BUS
thinknx
SAMSUNG
Ground First floor Outside
Lounge
Guardrobe
Badroom
Terrace
Stairs
Living room
Central ON
RGB management
Kitchen
Entrance
Corridor
Living room
Sensor ON
Central OFF
Sensor OFF
Ground First floor Outside
Lights

A Complete Solution



All the thinKnx servers are designed and optimized to manage the home automation system. They are built for continuous operation with fanless processing device.
The use of Linux operating system and industrial solid state memory grants enhanced system reliability.
Further appealing characteristics are the direct KNX connection driven by proprietary stack, very low power consumption and additional ports to integrate third party devices.
The Micro server empowers all these features using less than 1W!

Compact

Standard automation
Unlimited KNX groups
Unlimited clients
Multimedia control
Security (optional)
VoIP (optional)
Reports (optional)

Power: 12-18 VDC - 1A Max
Nr. 1 EIB/KNX port
Nr. 1 network port
Nr. 1 standard RS232
Nr. 1 USB port
KNX telegrams led

Micro

Standard automation
Unlimited KNX groups
Unlimited clients
VoIP (optional)

Power: 12-24 VDC - 1A Max
Nr. 1 EIB/KNX port
Nr. 1 network port
KNX telegrams led
Consumption 1 Watt

Rack

Standard automation
Unlimited KNX groups
Unlimited clients
Multimedia control
Security
VoIP
Reports

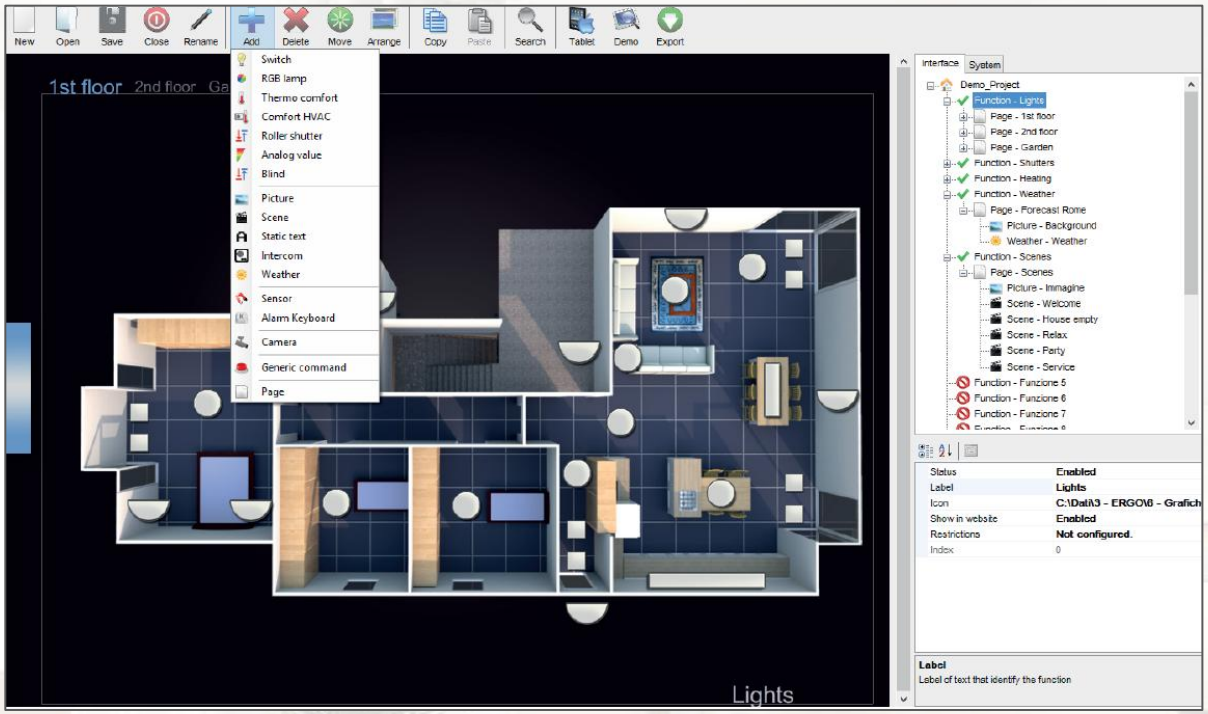
Nr. 1 EIB/KNX port
Nr. 2 serial ports for RS232 or RS485
Nr. 1 standard RS232
Nr. 4 USB ports
Nr. 2 Ethernet ports

Clients

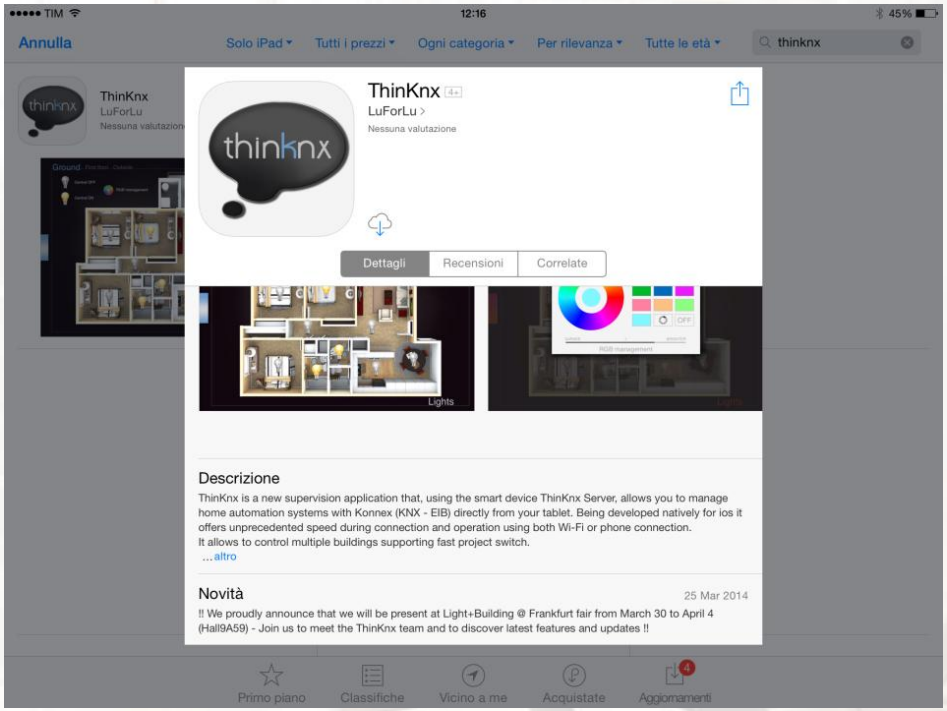
Thinknx offers a range of **native** applications to allow interfacing of iPad, iPhone, Android tablets and smartphones, Windows touch screen and PC with the supervision system. The decision to create native applications arises from the need to obtain **the best possible performance** during Wi-Fi or 3G connection to Alveo server, thus ensuring uncomparable user experience.

thinknx

Configurator



Thinknx Configurator is the tool for the creation and development of the supervision project. It allows to create all the connections needed between the GUI and the actual devices that are part of the system. With simple steps and intuitive parameters, graphical interfaces can be compiled with deep customizations and used with all clients and all devices.
Just as easily, you can create logics and configure system elements in order to achieve integration between all devices. Finally, the tool allows to load the project on client devices and thinKnx servers with differentiated exports according to the specific user.
The configuration tool is compatible with systems running Windows.



Apps **„Thinknx“** and **„Thinknx tester“** for the iPad & iPhone are available on the Apple App store
Once installed the app, you can upload the project created with the configurator via WiFi connection, directly from your pc to the iPad

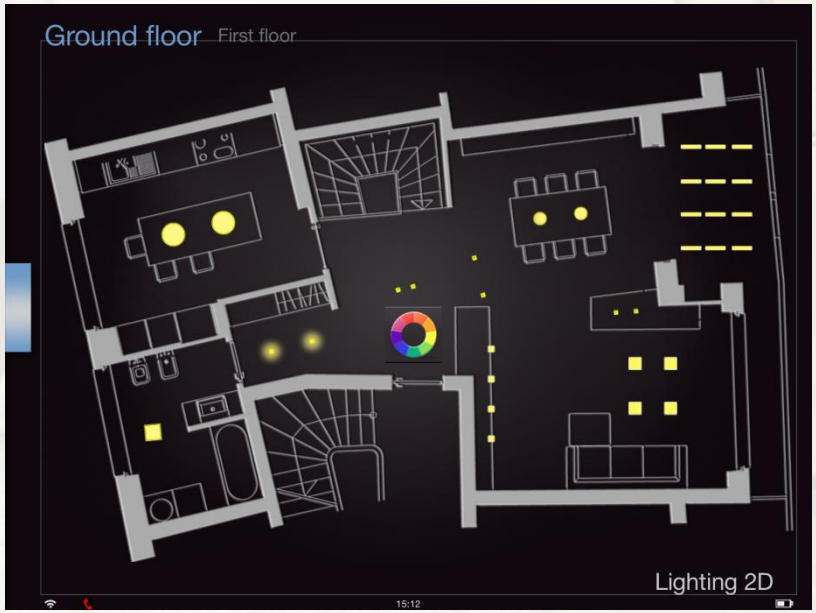
App **„Thinknx“** for Android is available on Google Play.
After having exported the project with the configurator, you have just to copy the file to a „thinknx“ folder onto the tablet the have it running.

Navigation menu

A retractable main menu with the a colored tab will allow a comfortable navigation through the various functions simply scrolling them.
Selecting the desired function will lead directly to the sub-pages.
Labels and icons are **completely customizable**.

Customized pages

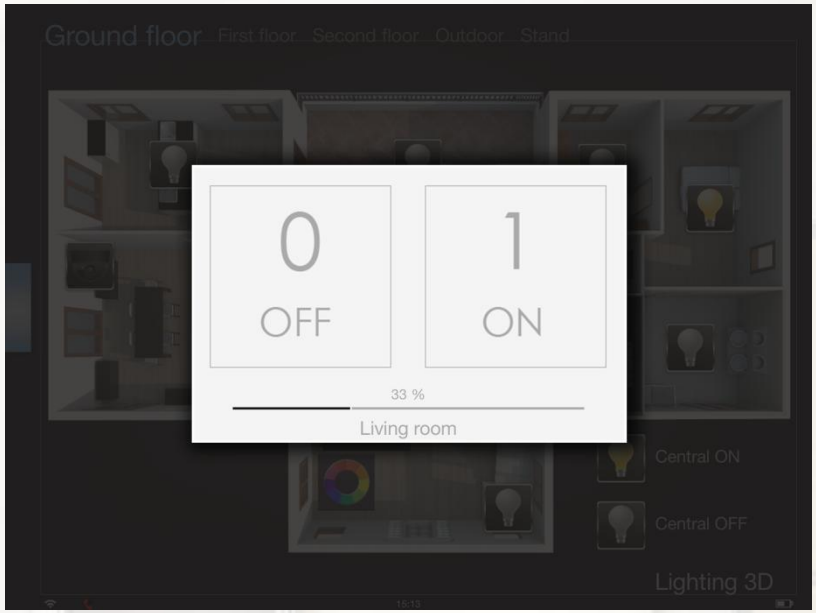
On the various sub-pages you can add a personalized background (floor plan or photo) and freely position the icons (lights, motorizations, thermostats, ecc.). You can use our predefined icons or the ones you created on your own.



The single icons will become active simply connecting to the KNX group addresses of the imported ETS project.

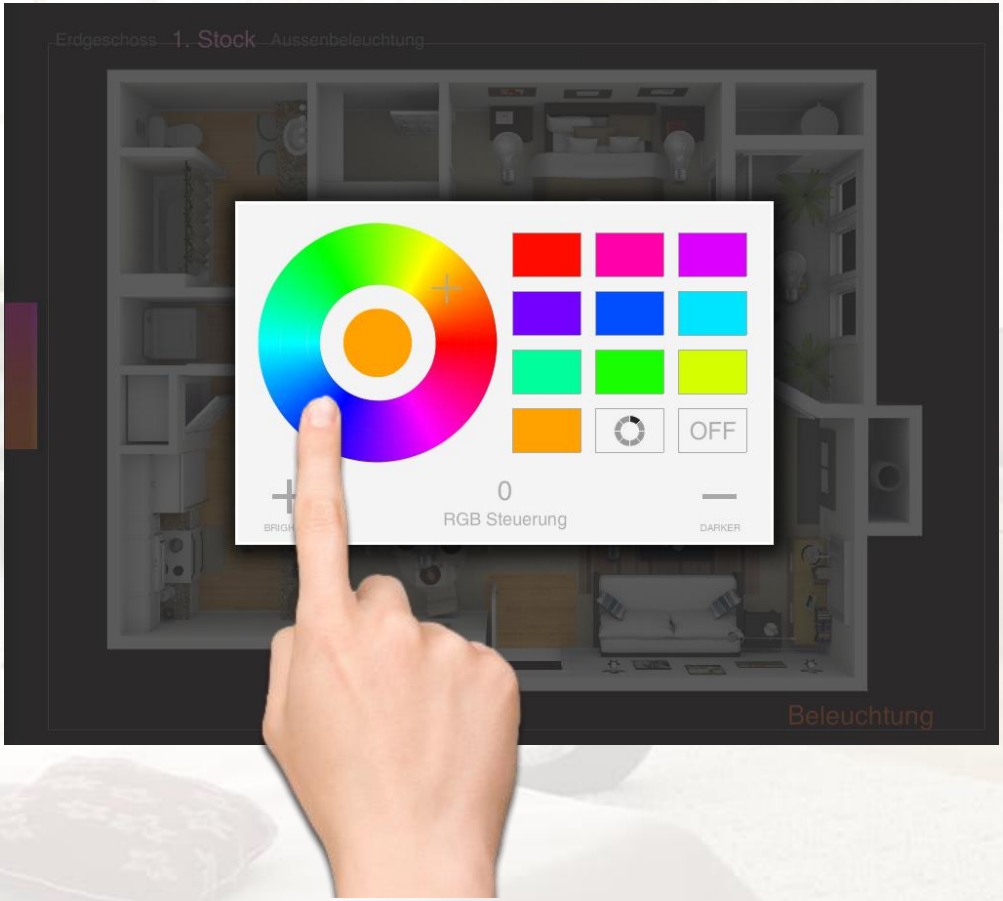
Pop-up functions

For the more complex objects such as dimmers, motorizations, RGB and chronothermostat the system automatically opens pop-ups. So you can choose for example to turn the light on/off or to send a percentage value.



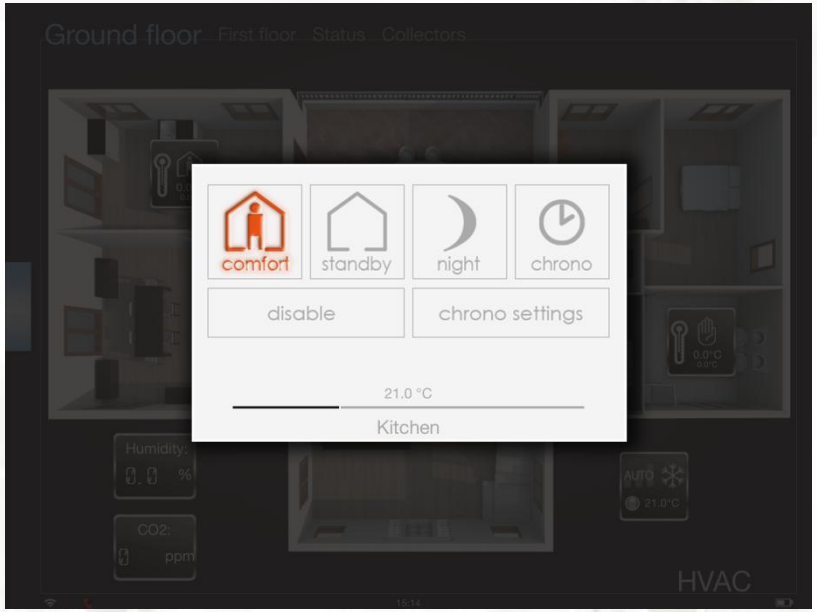
The whole graphic and logic for the pop-up windows is already done, so programming times are considerabely decreased.

RGB control



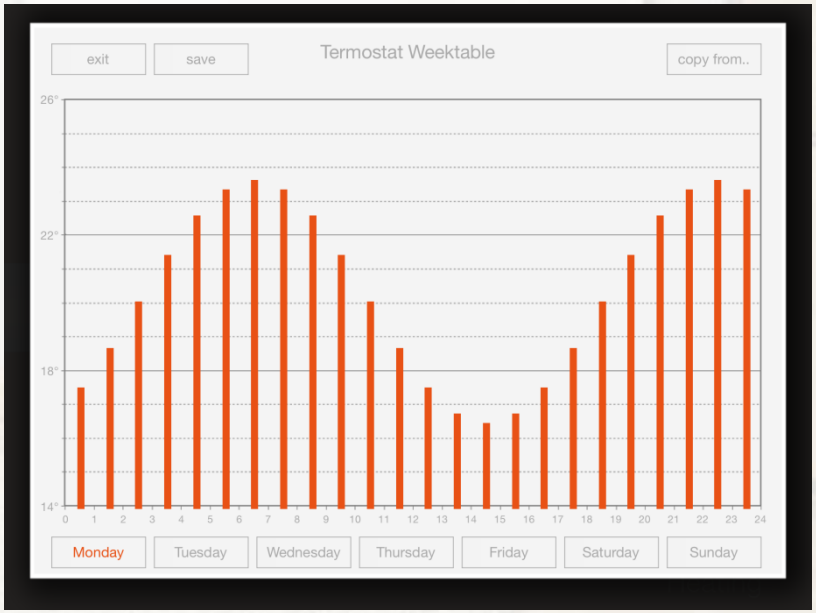
RGB LED control:
You only have to connect the 3 KNX 1-byte group addresses in the configurator and a pop-up is available with the following functions: color selections through jog-wheel, saving of 10 preferred colors and setup of timed sequences.

Heating & Cooling



Activating the „chrono“ function the customer can easily and intuitively setup a weekly timer program for each zone.

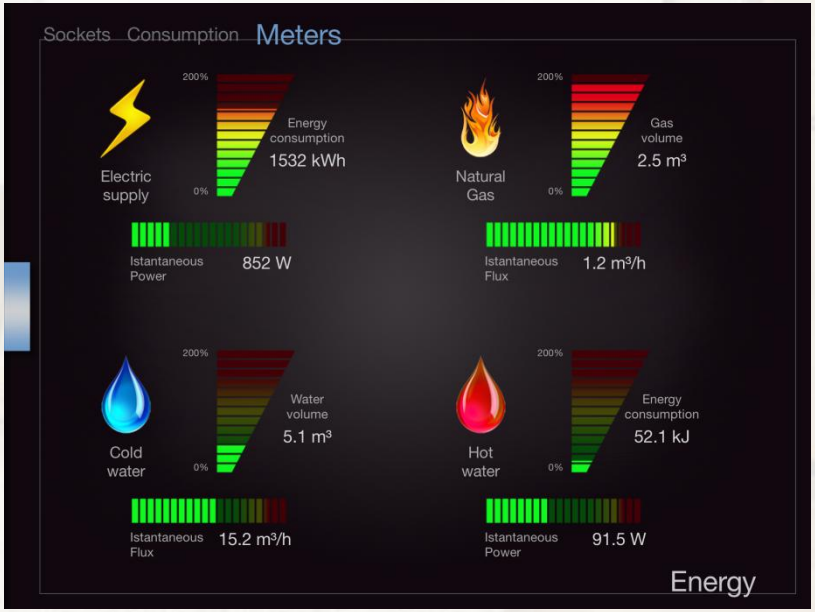
Through the pop-up „chronothermostat“ you can send the setpoint to the heating/cooling system and choose the desired functioning modality.

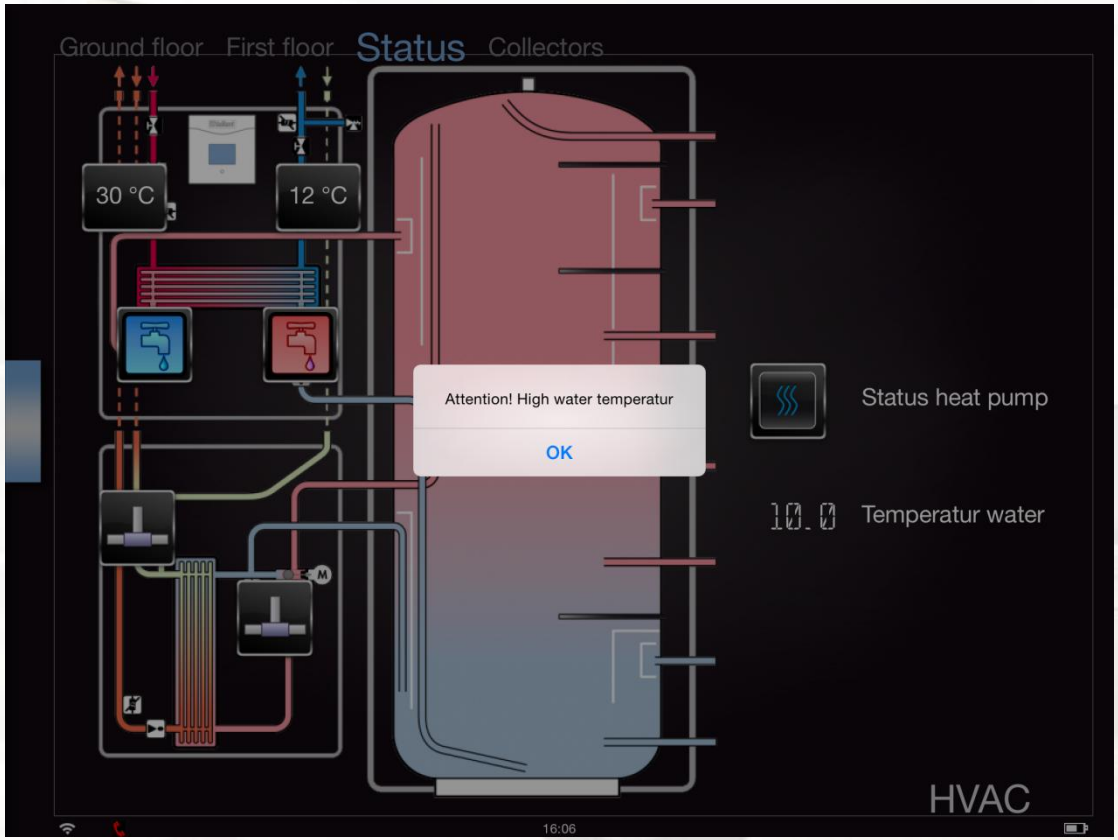


Smart metering

You can display the status of every single load and control it manually. The load control automatically switches off up to 6 loads with different priorities and permits to be warned when a given threshold is overshooted.

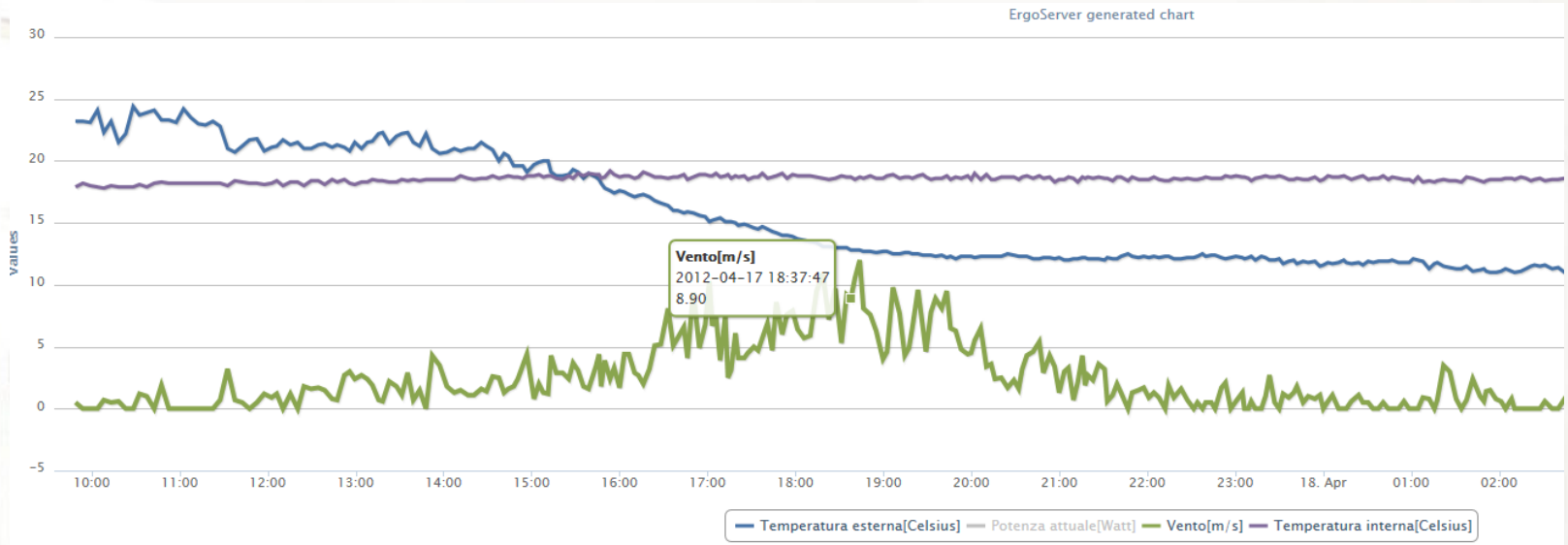
All the analog values (energy meters, weather data, etc.) can be visualized through a graphical indicator or a numeric value.





With the system function “universal gateway“ you can recall the system functions to send Apple Push Notifications, send SMS or email or even change to a defined page after a defined KNX event.
This permits that in case of alarm the visualization automatically changes to the desired graphic page and on the iPad you receive an alarm message, also when the device is on standby or an SMS/email.

Charts & Reports

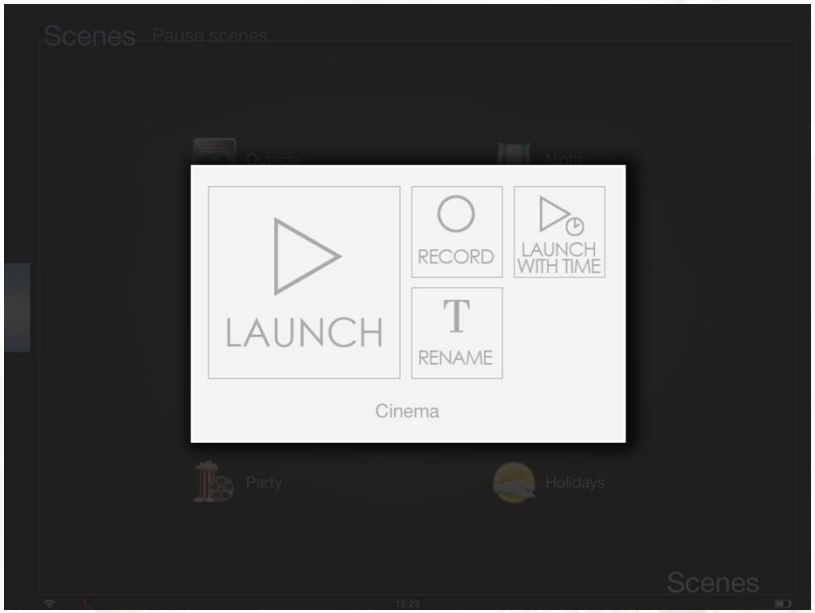


This plugin permits you to monitor and record analog any KNX values, like consumptions, temperatures, meteorological data, etc. and to send them to a list of specified mail addresses. You can freely set the reading interval of the values and the sending times of the mails. In addition to the values list you can also send a graphic version with the values shown as curves.

Scenes control

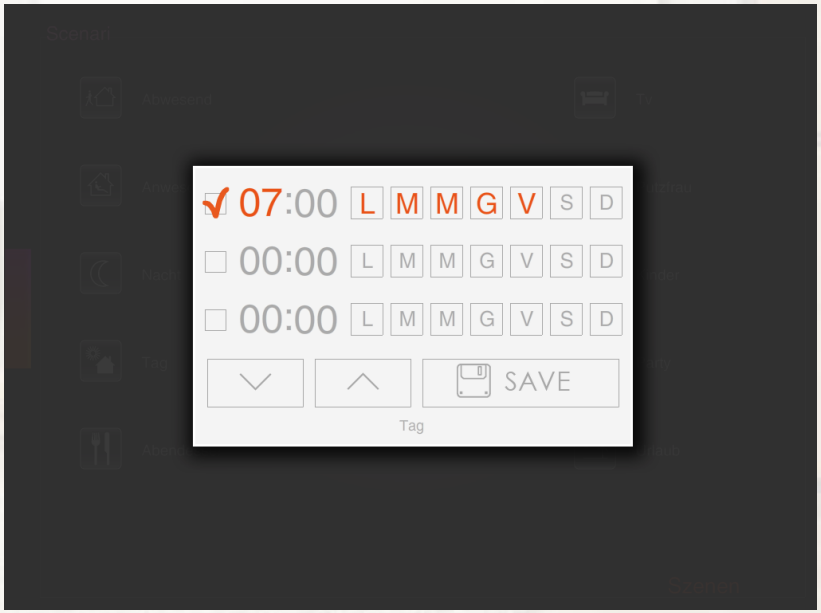
The scenery object can be freely positioned on the pages as any other icon. With the function „record“ the final customer can easily record his own sequence of commands. Once recorded it can be simply activated using the pop-up or you can assign it a KNX group address and recall it using a KNX push-button. Furthermore you can create scenes with timed functions, for example for audio/video control where you need to add pauses between one command and the other.

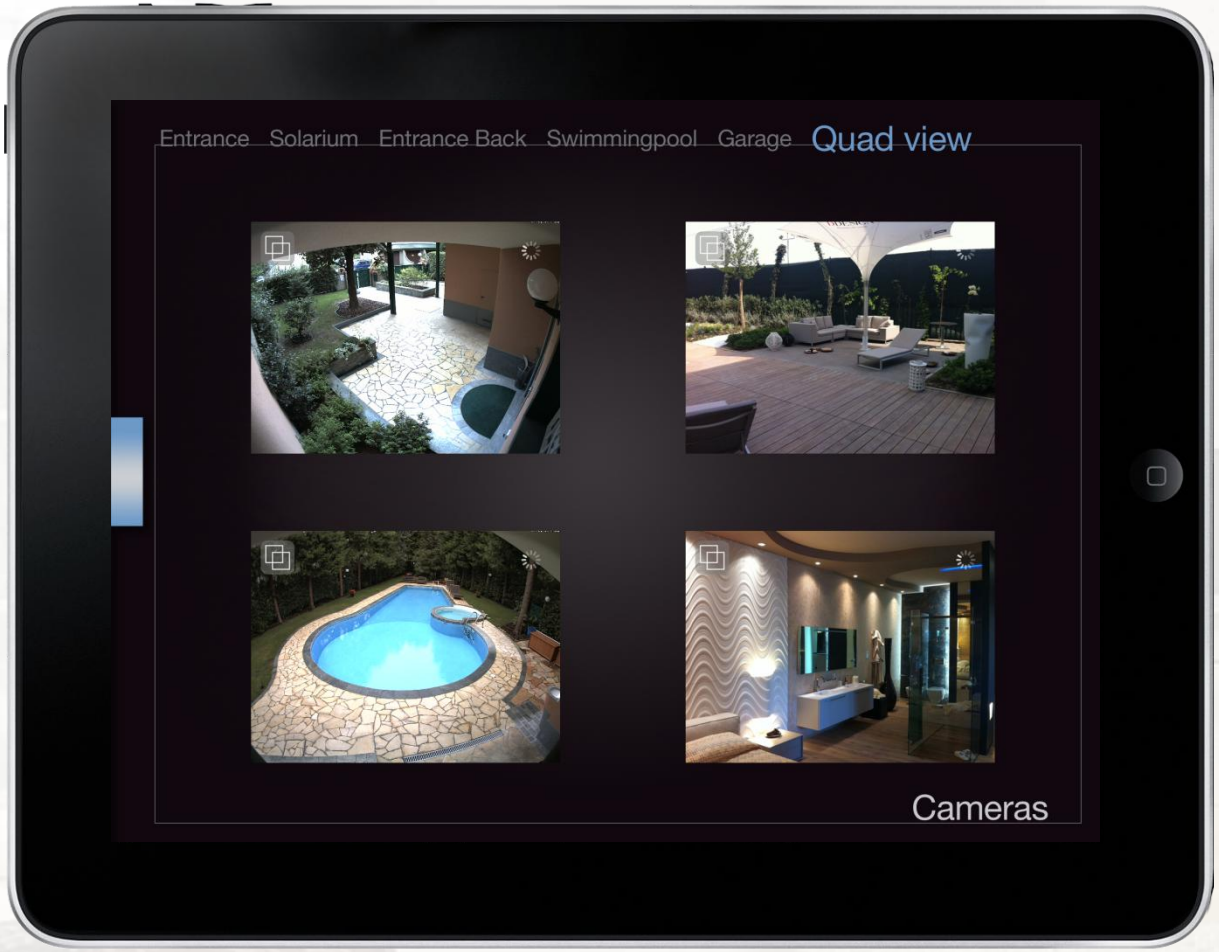
Scenes control



Through the scenes pop-up the customer can record and rename its own scenes.

It is possible to schedule up to three timers for each scene object. For example „morning scene“, presence simulation or irrigation can be started at a precise time.





It is possible to visualize every IP-camera which supports motion-jpeg or RTSP H264 stream.
Multiple cameras per page are supported.
You can compose your own page choosing between resolutions of 320x240, 640x480 or fullscreen.
Also the visualization of analog cameras is possible using IP-videoserver or DVR with motion-jpeg output.

Door comunication

Example graphics page

VoIP based door comunication is supported by all our native apps. on iOS devices, Android and Windows touchscreens. Capabilities of the system are enhanced integrating a VoIP server directly into Alveo. This permits to make group calls. Alveo will also directly configure devices from TCS, 2N and Mobotix

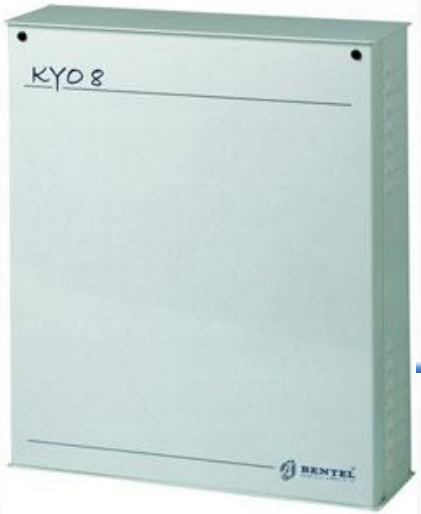
Alveo Compact / Micro

LAN network/ Wi-fi

Door stations

Indoor stations

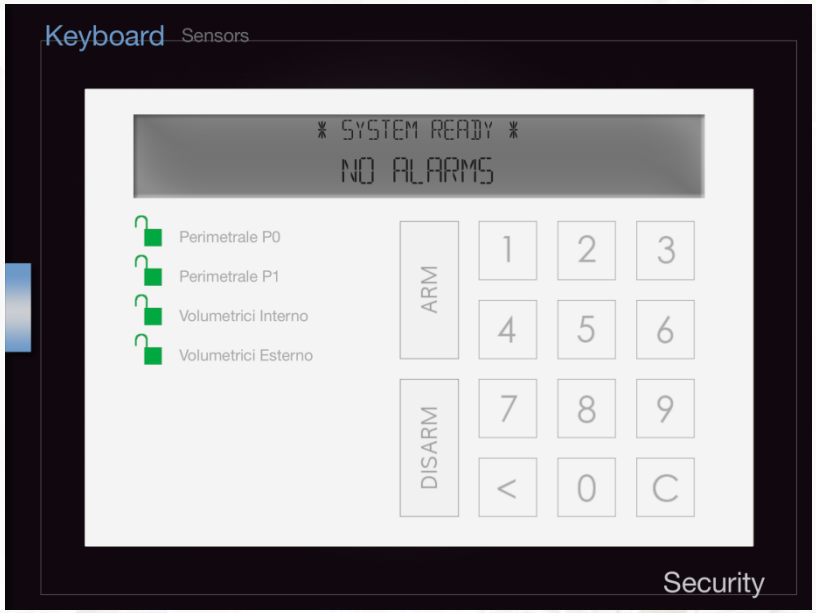
Alarm control unit



RS232/TCIP

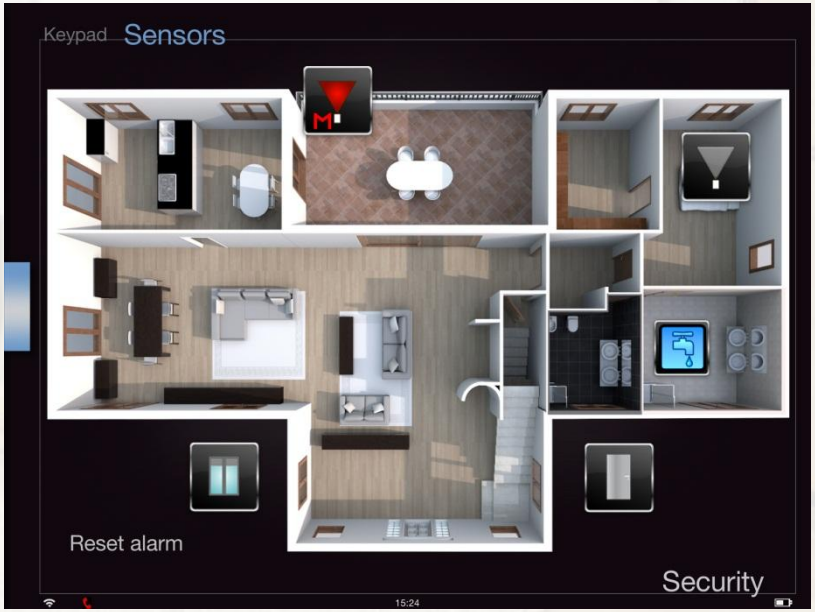
Thanks to the integration of numerous alarm systems the customer can view the status and operate his system using the supervision software.
You can associate a KNX group address to every alarm sensor, so you can for example turn on a light through a movement sensor of the alarm system.

Alarm devices



Keypad for remote control

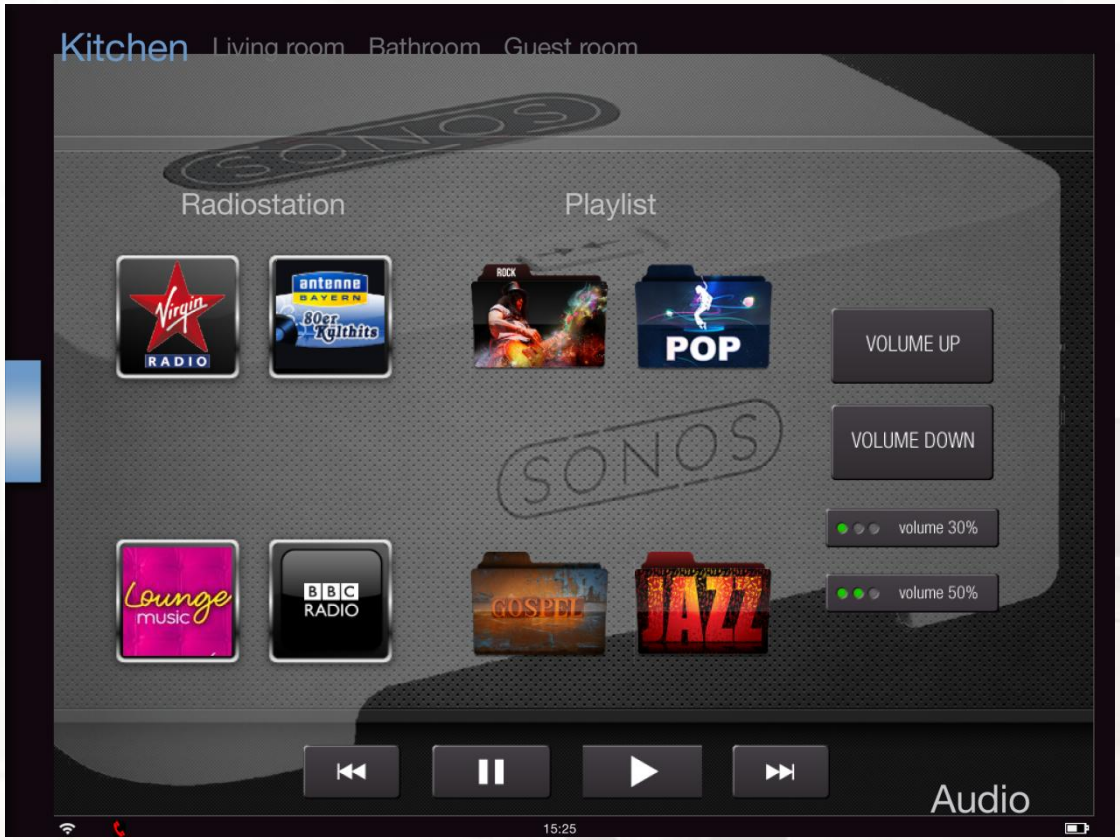
Sensors state/exclusion/memory



Audio multiroom

ThinKnx is compatible with a large set of most common audio and video equipments. This allows the complete control of home entertainment by means of customized and user-friendly graphical interfaces, centralizing and eliminating the needs of multiple separate remotes. Multimedia systems con also be operated from sceneries even in automated way. It will be instantaneous to enjoy desired music anywhere in the house.

Audio multiroom



All the audio multiroom commands are available also as KNX group addresses.
You can activate the following commands with every push button, room controller or binary input:

- Play/Pause
- Track + -
- Volume + -
- Percentage value volume
- Line In selection
- Reproduction of radio station or playlist

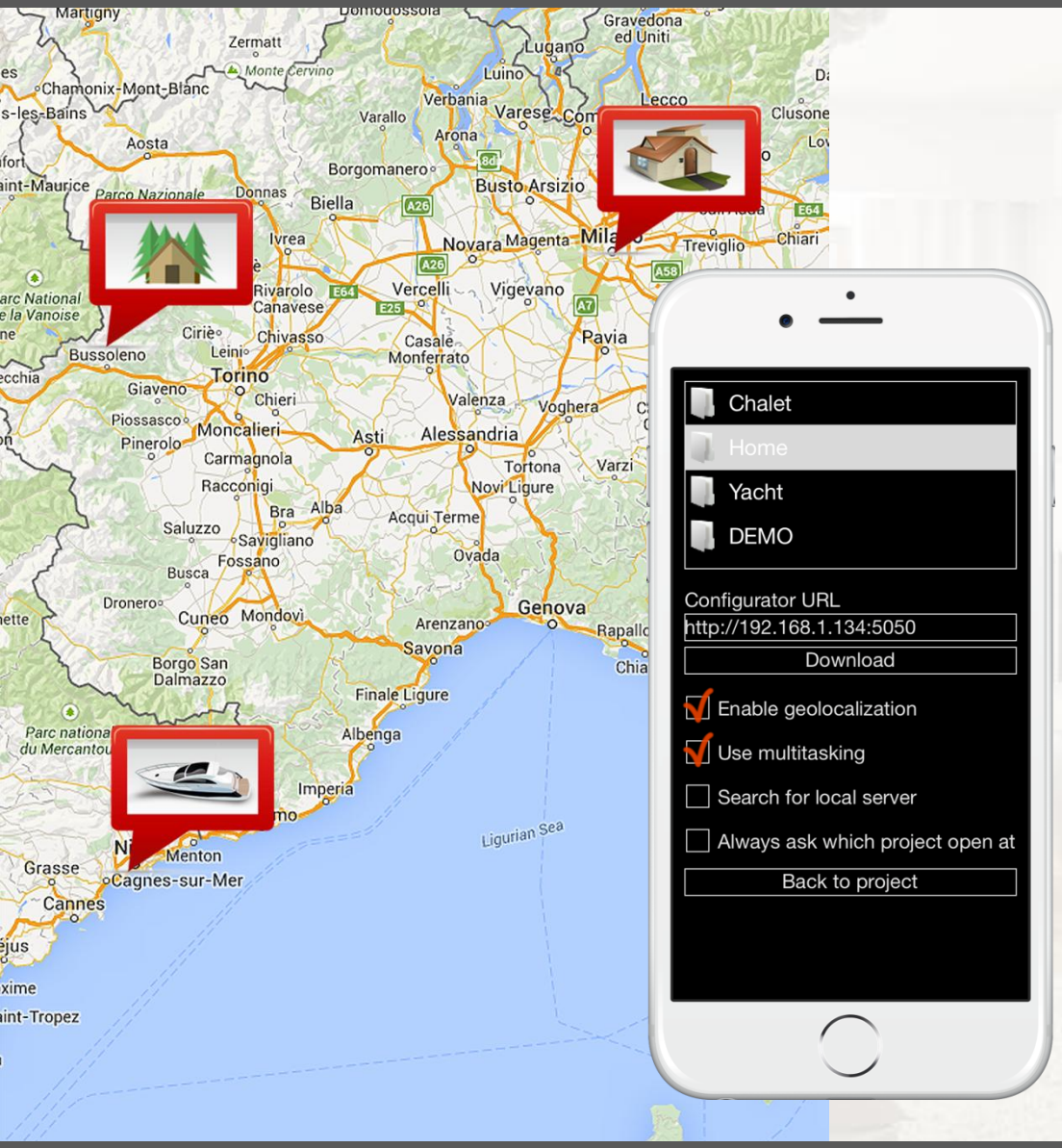
Audio/Video controller

Through the integration of numerous audio/video matrices and the IR-trans device the customer can manage his multimedia-system directly from inside a single app.

Audio/Video Control

Thanks to the integration of the IR-trans device you can command every multimedia appliance. So your iPad can easily turn into a universal remote control.

Multiproject



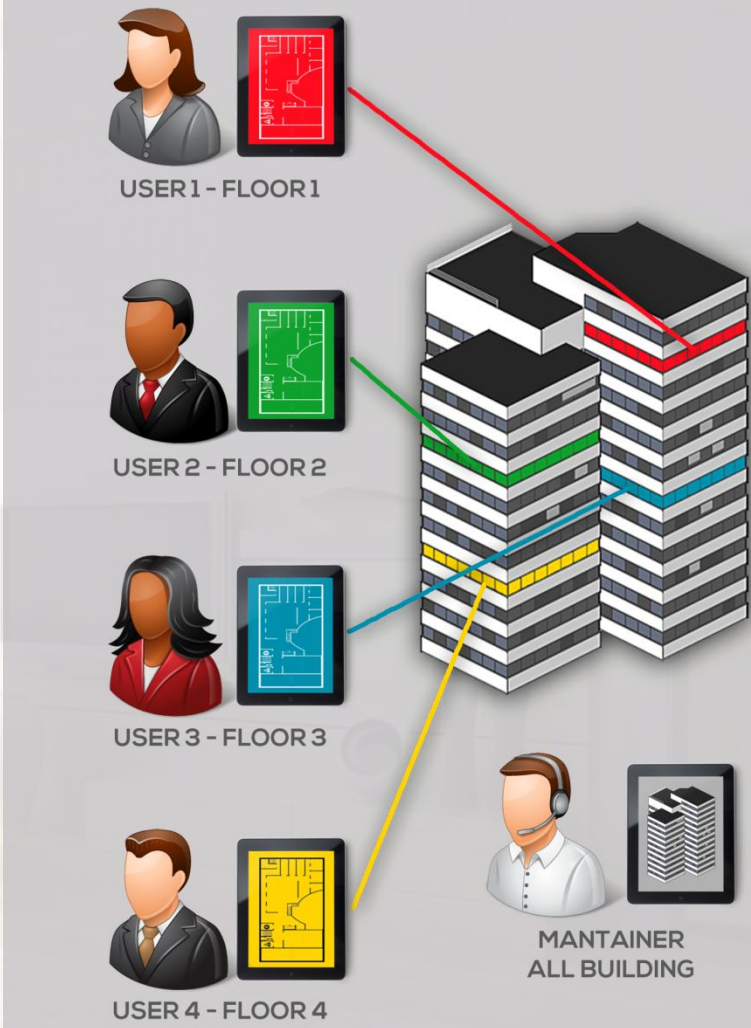
It is really common that a single user needs to control more than a plant, like main house, mountain chalet and maybe a yacht or the office. Thanks to multiproject feature it can be done easily from the some app. With just a touch, in fact, it is possible to switch from a plant to another in a while.

The app additionaly help to choose the right plant. Using geolocalization services, distance from every plant is computed and the nearest one is suggested.

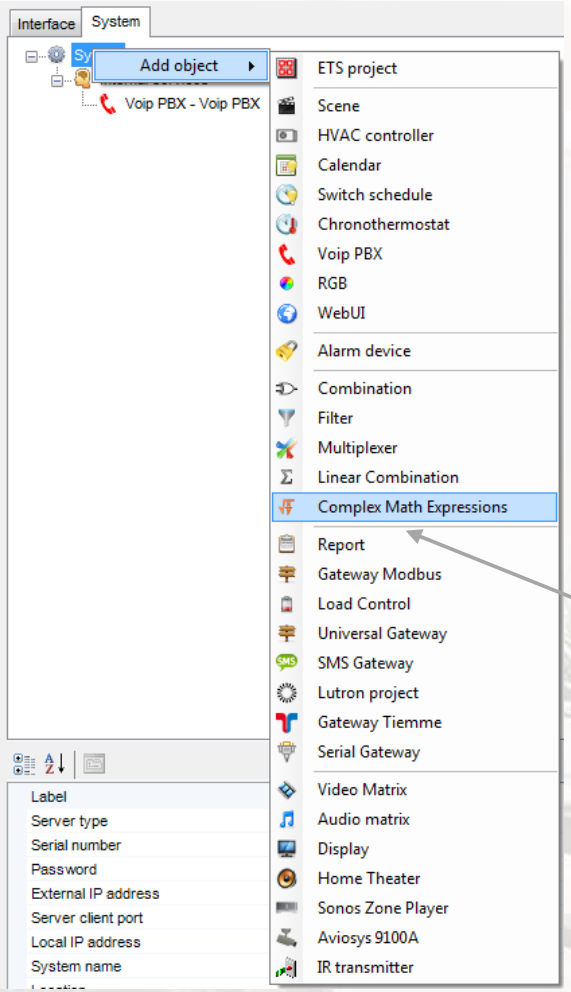
User restrictions

Interfaces can also be taylored and adapted to the single user within the same plant. Every single functional object can be restricted to a particular user or a group of them. In such a way it is possible to create interfaces that respect hierarchy or the privacy of every single user.

The PIN protection feature, instead, fulfills the need to protect objects displayed in the interface which can't be excluded using the restrictions feature. Indeed, in some cases customers require that the object is displayed on the interface but only a few people can control it.
PIN codes combined with user restrictions are the most powerful way to protect and customize client application.



Background services



ThinKnx server is capable of performing an impressive quantity of additional background services. Among these, for instance, logical operations, message filtering, gateway towards Modbus, etc.

Also complex mathematical functions can be performed for instance to compute:

- average temperature
- boiler power modulation
- loads consumption sum
- ventilation control

Practical examples and a more detailed explanation can be found on our website www.thinknx.com in the download / software area.

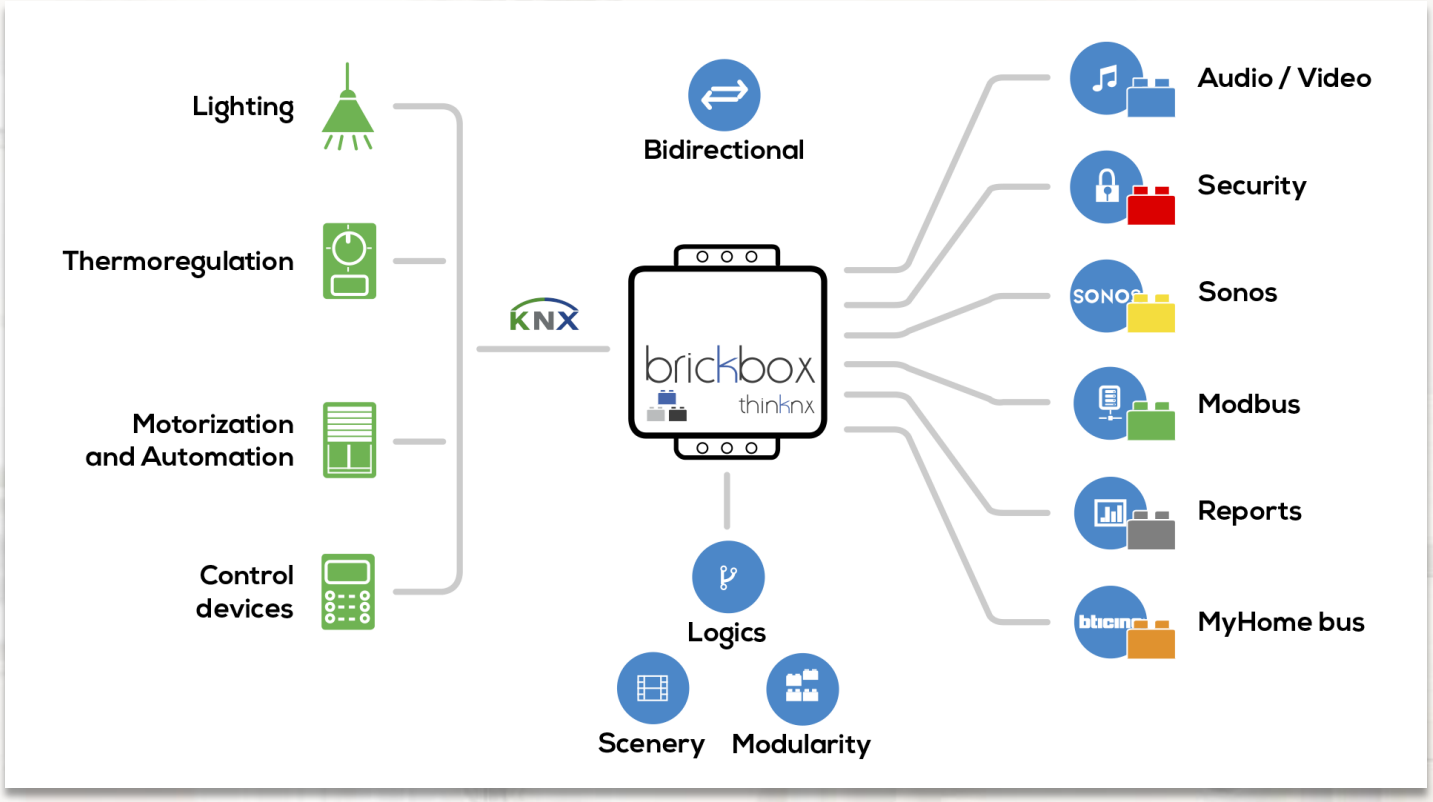
Server webpage

Thinknx Server integrates also an internal web server that permits to perform remote maintenance on the system.
A KNX realtime groupmonitor is available to control KNX traffic and to read or write a particular group.
The server displays also log messages regarding operations carried out in order to facilitate researches and troubleshooting.
Logs can be filtered on a per topic base and can be exported to a csv file

Brickbox : let’s start building

Brickbox is the new ThinKnx product line that allows the connection to KNX plant of systems that don't natively support this protocol. Taking advantage of all the functions already integrated in ThinKnx products.

Brickbox : let's start building



Through Brickbox it is possible to control, in a bidirectional and fully configurable way, audio sources like Sonos and Nuvo, multimedia systems, alarm devices and systems based on other buses like Modbus, SCS (MyHome), etc. It is also possible to collect data (reporting, KNX logger) or to check in real-time the service continuity of the plant (ping of KNX devices or network). In addition, the internal services available on ThinKnx servers are also present on Brickbox, like preprogrammable sceneries, generic gateways, alert messaging, logical functions, etc.

Brickbox Blue: Audio video

This brick allows to control all the audio video devices already integrated in ThinKnx system from KNX bus.

Multi-room systems, A/V matrices, audio amplifiers, infrared transmitters and so on will send their status to KNX and can be commanded from there. Connection to the devices can be made through a RS232 port or RS485 port.

- Tutondo
- Audio/Video multi room matrices AMX, Autopatch, Kramer, Atlona, Gefen
- Amplifiers Denon, Onkyo, Cambridge Audio
- Serial gateway
- IR Trans for infrared control

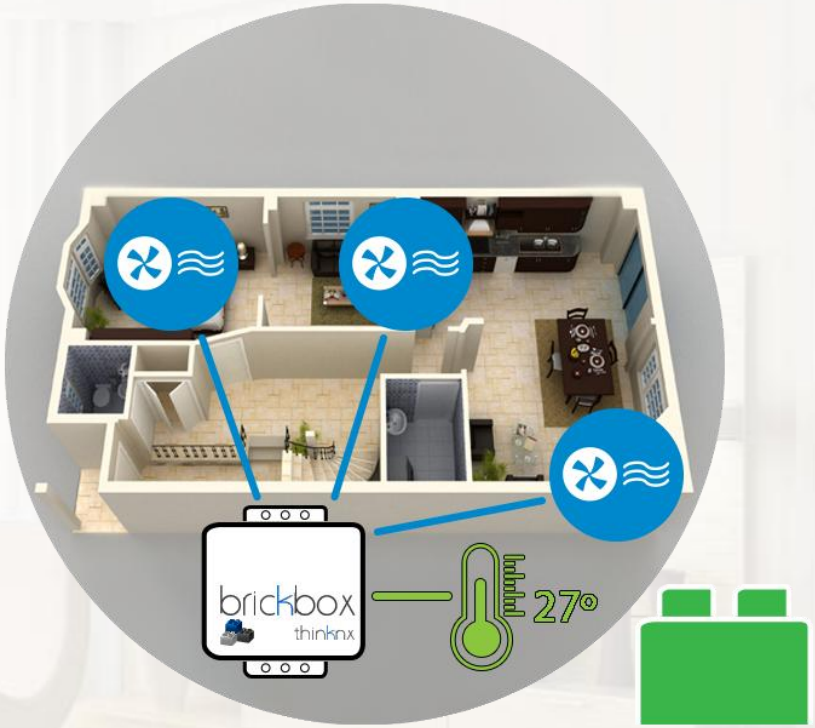
Brickbox Red: Security

This brick allows the bidirectional control from KNX of all the alarm devices integrated in ThinKnx system. All the sensors feedbacks are available on KNX. In addition, telegrams can be sent in case of emergency or other programmable events. It is also possible to control arming and disarming of the alarm device through 14 byte strings. Connections to the security panels can be made through a RS232 port or RS485 port.

- Bentel, KyoUnit, Kyo320, Absoluta
- Brahms: B4-CMP
- Paradox
- Elkron: MP508TG
- Aritech: Master Advisor
- Honeywell Galaxy
- Inim
- Urmet
- Siemens SPC

Brickbox Green: Modbus

It allows the bidirectional connection of Modbus bus (RTU or TCP) to KNX bus. A RS232 and a RS485 ports are available to connect directly to Modbus.
It supports all the standard communication functions and all the datapoint types. It also implements advanced modes of data grouping to optimize reading on Modbus. There are no limitations in the number of usable datapoints.



Brickbox Grey: Report and integrity

It allows to collect data from KNX plants (both locally and on the cloud), to generate reports and to continuously store KNX telegrams (logger modality). All the data can be sent via e-mail to multiple recipients and organize in tables or charts. It allows also to set periodic tests about the correct functioning of KNX devices in the plant (through their physical address) or of devices in the network (ping or test connection through TCP/UDP ports). In case of malfunctioning alarms via SMS or e-mail can be sent.

Brickbox Orange: SCS MyHome

It allows the bidirectional connection of MyHome Bticino plants to KNX plants.
Through easy-to-fill tables it is possible to set matching among the messages coming from the two worlds.
The device makes possible the control of KNX devices from MyHome buttons and vice versa.