



## *Home & Building*



# Best Quality and service

## Service

The punctuality of delivery originates from a suitable management of suppliers and their qualitative performance. On line assistance is integrated in a modern CRM (Customer Relationship Management) system that allows for rapid consultations of any information regarding the client

## Product technology

The product is developed and kept up to date by an R&D department attentive to innovation. A clear demonstration is the continuous collaboration with Universities. The robustness and constructive simplicity are the basics from which we start realising each new product. Product certifications like CE –UL, ALTEX, DNV, RINA etc. are readied fully respecting the standards.



## Collaboration

Listening to and collecting clients' requirements is of fundamental importance for company growth and client loyalty. The client has the opportunity to write any complaints, suggestions or opinions for any reason directly to the ESA site, certain of receiving a reply in a short time.

## Quality/Price Ratio

The good Quality/Price ratio comes from continuous research on various markets into the best solutions and most reliable suppliers. The suppliers, whom operate according to precise specifications, are visited, periodically evaluated and urged to improve continuously.

# Make your job easier

Everything have been studied to simplify installation process, using **standard and world-wide available wall boxes**

Plate frames with **magnetic hooking**



**Standard wall box**  
world-wide available

**All-in-one Touch Screen Panel**  
highly resistant and stress-proof



**Interchangeable plate frames**  
available in four different families



# A new generation of intelligent buildings



**Web-server support,**  
allowing you to retrieve  
data directly from a  
remote web server



## Field buses

We support up to  
100 protocols:

-  **Konnex**

-  **Lon**

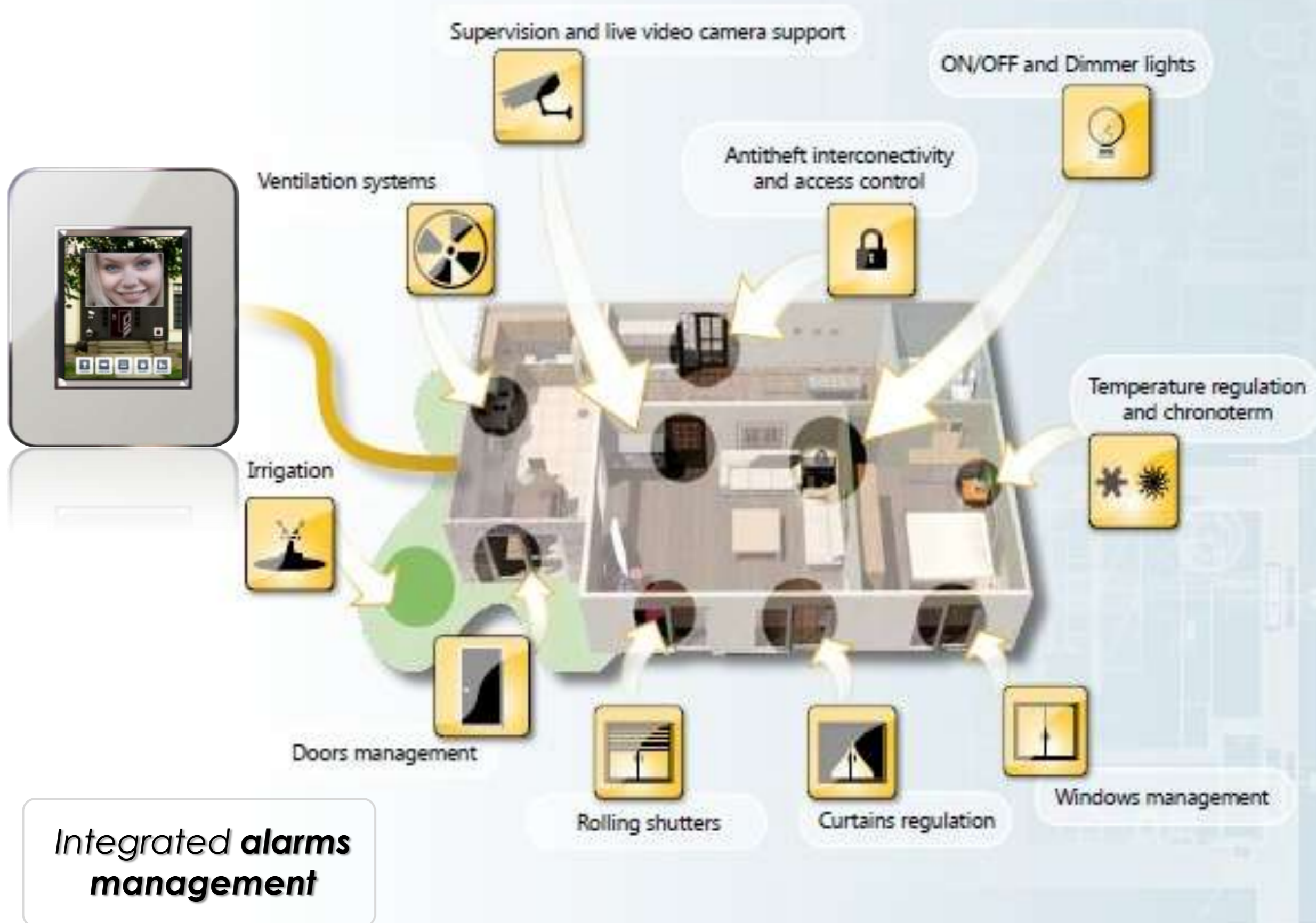
-  **B-Ticino**

- **DMX**

- **Modbus<sup>®</sup>**

..and many more!

# A new generation of intelligent buildings



# A new generation of intelligent buildings

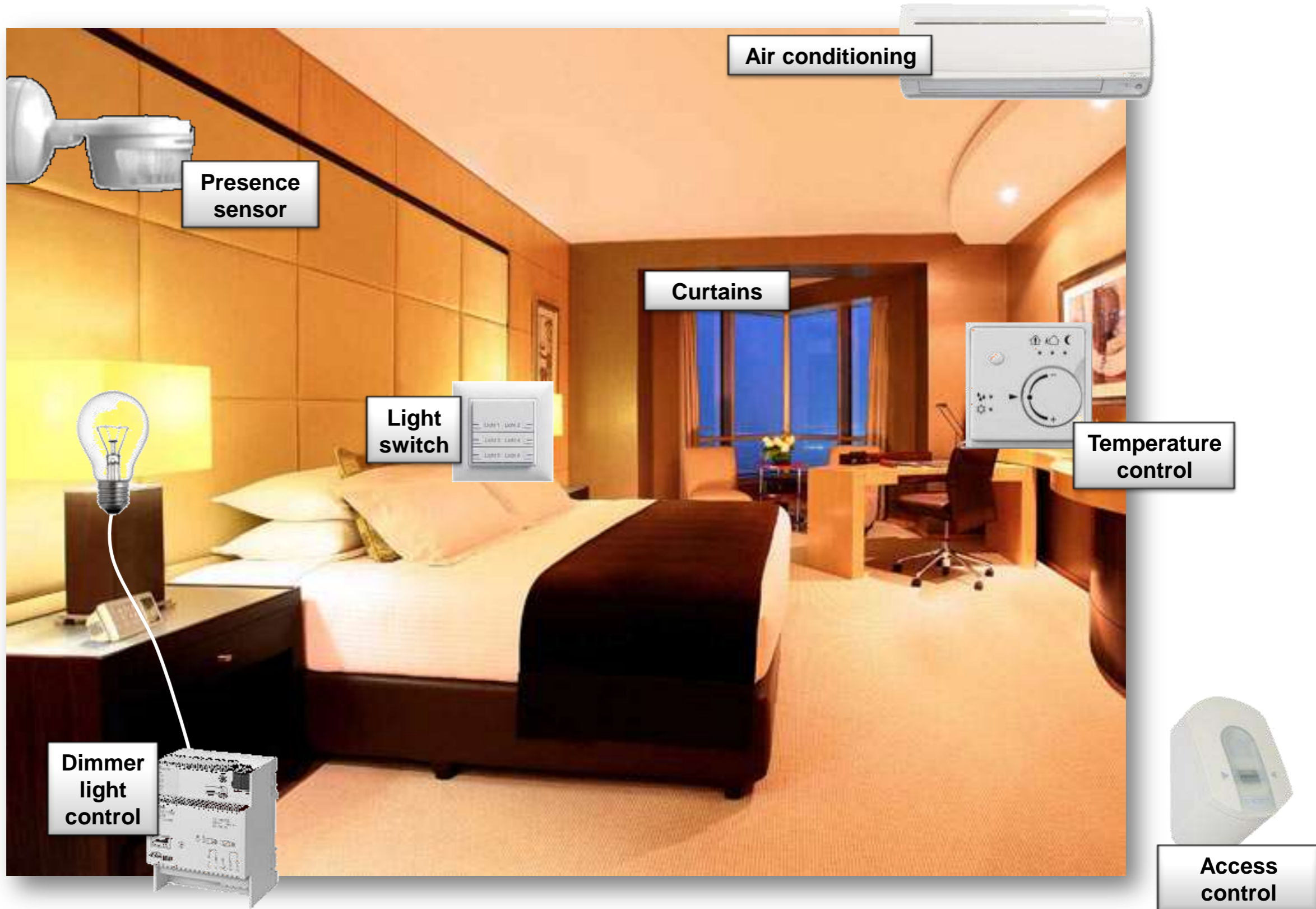


**200 members in 29 countries**

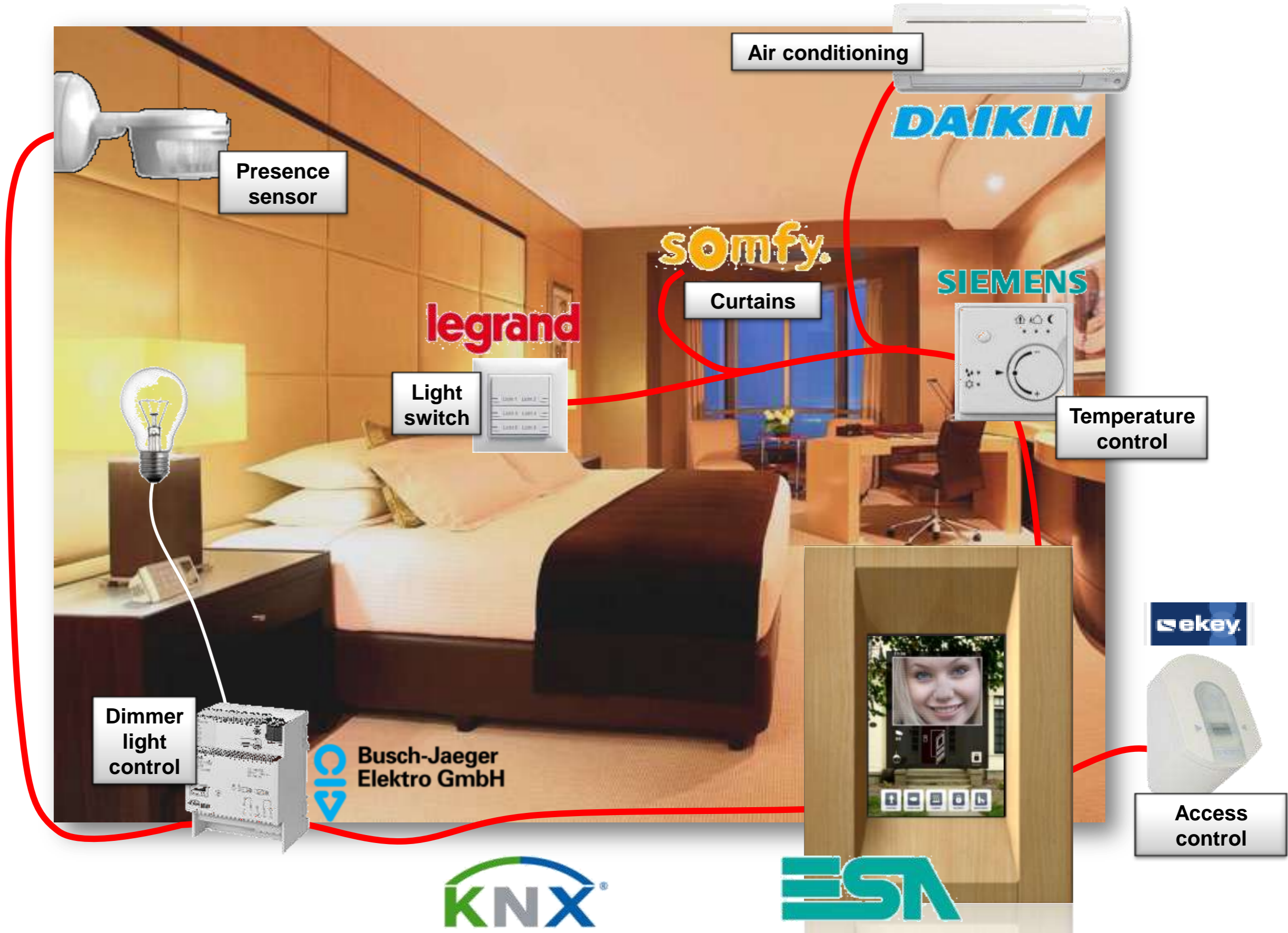


***futurasmus-knxgroup.com*: catalogue of 2713 Konnex products**

# A new generation of intelligent buildings

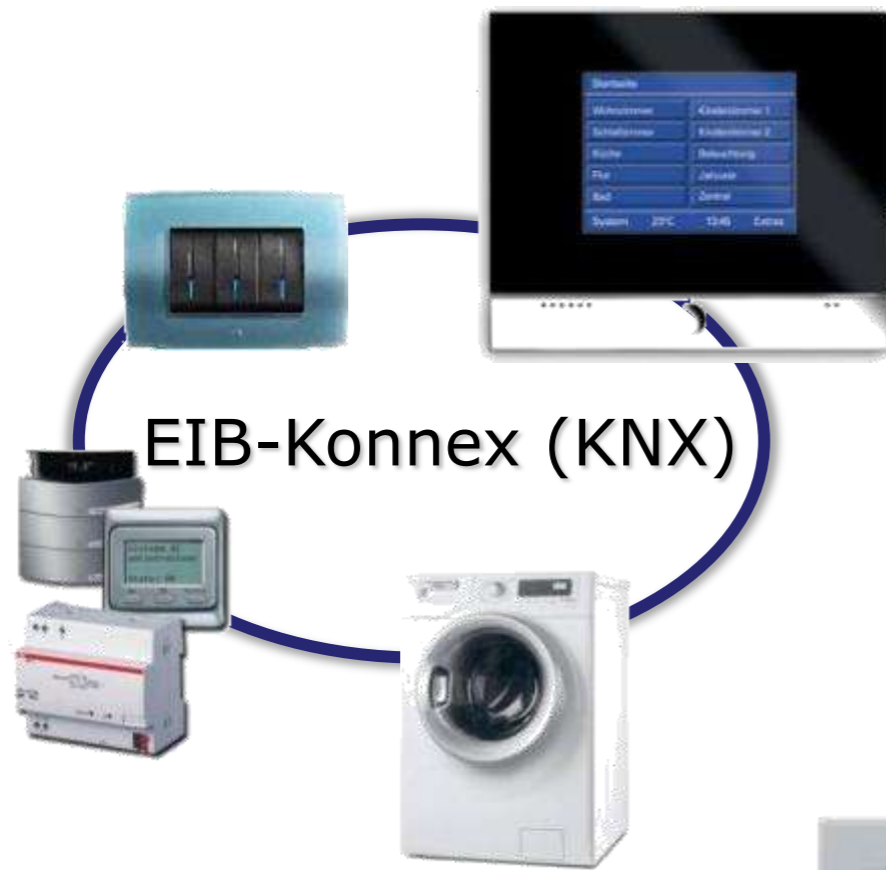


# A new generation of intelligent buildings

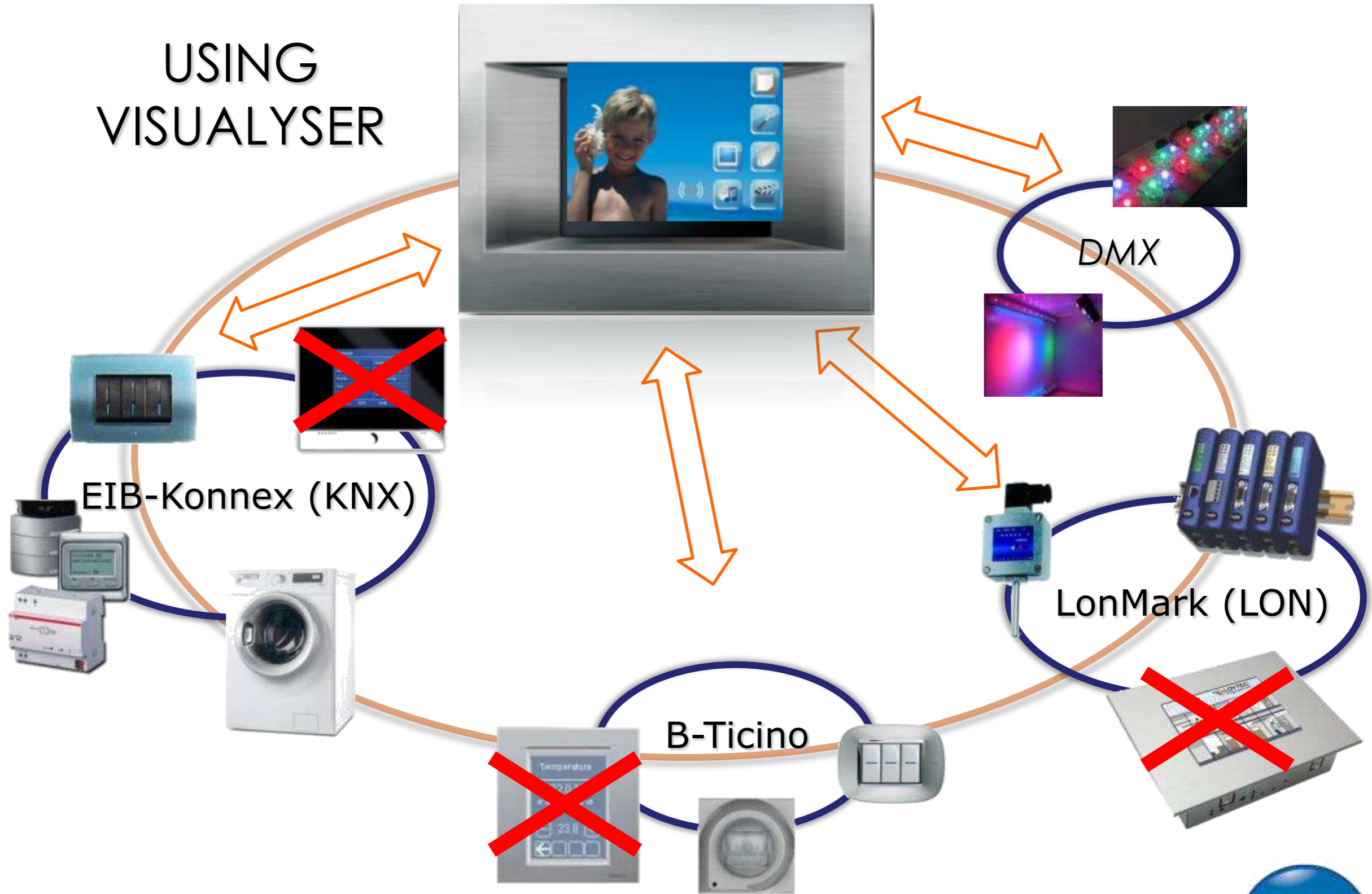




## WITHOUT VISUALYSER



## USING VISUALYSER



# A new generation of intelligent buildings



**Reliability** beyond compare, **user-friendliness** and **extreme mechanical strength**.

- **4.3"** 32 gray levels TFT (480X272)
- **4.3"** 65.000 colors TFT (480X272)
- **5.7"** 65.000 colors TFT (320x240)
- **7.5"** 65.000 colors TFT (640x480)
- **10.4"** 65.000 colors TFT (640x480)



# Visualyser YT



Visualyser touch screen panels offer **high performances**, excellent graphical quality and incomparable connectivity in a **totally-safe Fanless and Diskless environment**.

- **CPU:** Intel PXA 520 MHz
- **RAM:** 64 MB
- **Flash:** 32 MB

# Visualyser YP Open

Run your embedded applications in a safe environment, having all the power of the **Windows CE® 5.0** operating system.

- **4.3"** 65.000 colors TFT (480X272)
- **5.7"** 65.000 colors TFT (320x240)
- **7.5"** 65.000 colors TFT (640x480)
- **10.4"** 65.000 colors TFT (640x480)



# Visualyser YP Open



Visualyser Open touch screen panels are able to support **web-based solutions**, thanks to the **Internet Explorer** on-board, as well as **proprietary applications** or dedicated systems for data acquisition.

- **CPU:** Intel PXA 520 MHz
- **RAM:** 64 MB
- **Flash:** 32 MB

# Visualyser PC based

Display: **15" TFT (1024x768)**  
touch screen

RAM: **1 GB or 2 GB**

CPU: **Atom N270 1,60 GHz**  
**FANLESS**

Storage drive:

- **Compact Flash (2, 4, 8 or 16 GB)**
- **Solid State Disk (SSD) 8 GB SATA**
- **Hard Disk 160 GB SATA**





# Visualyser PC based



**All the power  
you want in a  
Fanless solution**

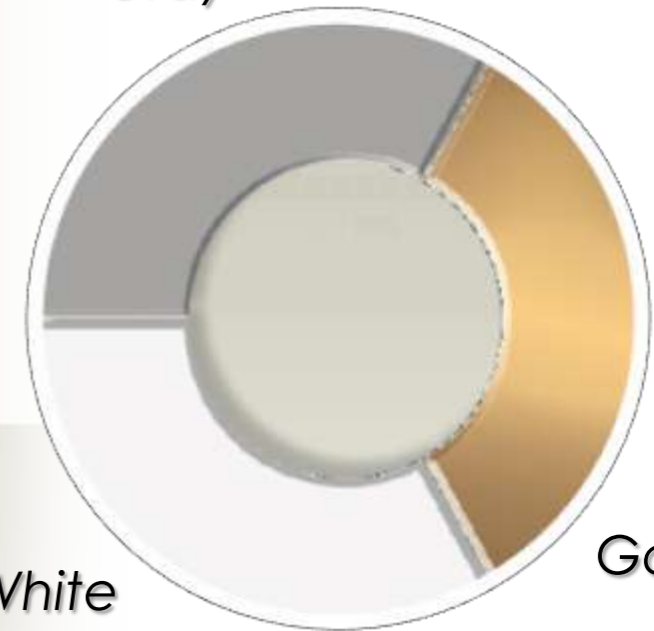
Available with  
**Windows XP  
Professional or  
Windows XP  
Embedded**

# Visualyser Cover Plates

**Classic**



Gray



White

Gold

4,3"

5,7"

15"

# Visualyser Cover Plates

## Vogue



Mandarin & Opal White

Glacier Ice &  
Opal White

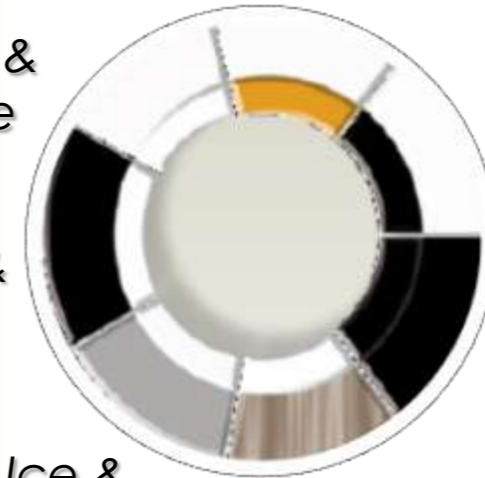
Nocturne &  
Opal White

Glacier Ice &  
Opal Black

Nocturne &  
Opal Black

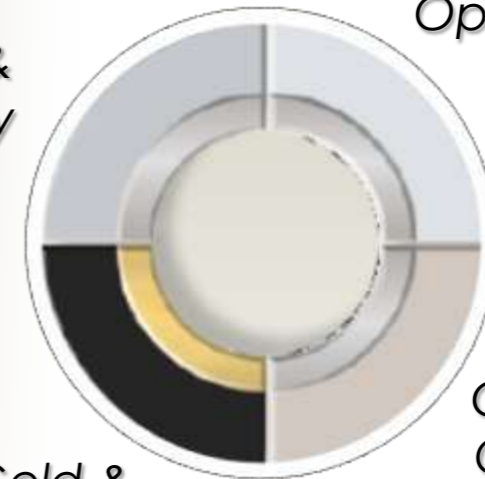
Glacier Ice &  
Metal Gray

Glacier Ice  
& Ash



Chrome &  
Opal White

Chrome &  
Opal Gray



Chrome &  
Opal Shell

Gold &  
Opal Black



Corian

Chrome



# MY VISION

***Simplicity never seen before!***

***“Absolute control”*** inside MyVision means ***“Total simplicity”***  
a powerful **easy-to-use** interface will guide you configuring your  
project **just with the mouse** by means of **innumerable wizards**.



**Do all your projects  
in few minutes**



## Lights control

Number of ON-OFF lights:

Number of dimmer lights:

Advanced settings



Ramp time to OFF

Instantly

Specify time  Seconds

Ramp time to ON

Instantly

Specify time

**Easy manage everything  
just with the mouse !!**



# MyVision Software - Project settings

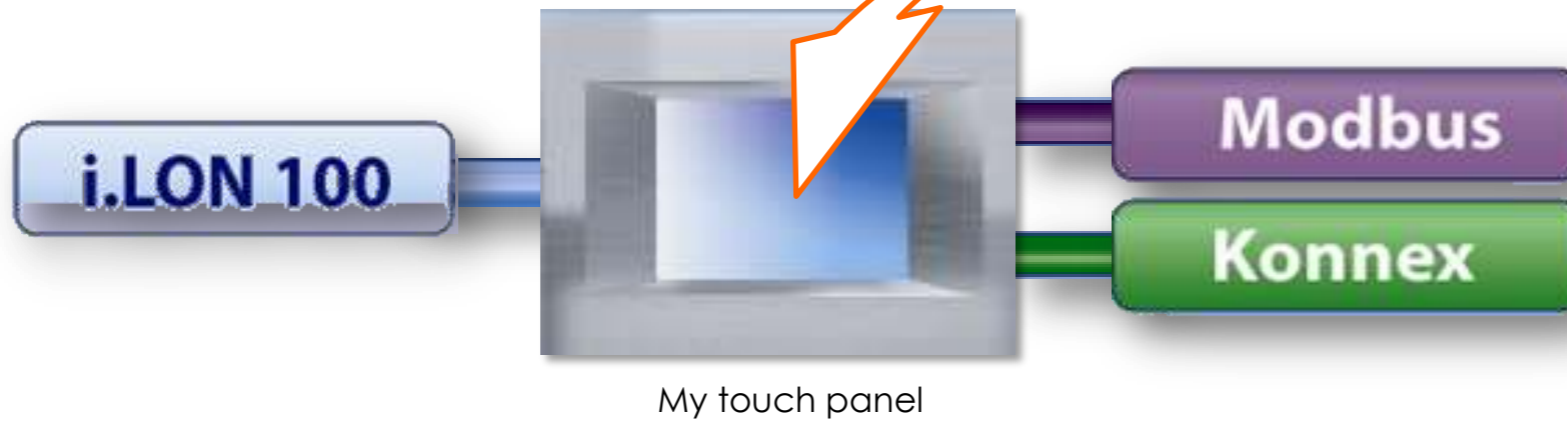
**Simple project:** single touch panel

Define the **project complexity**



# MyVision Software - Project settings

**Simple project:** single touch panel



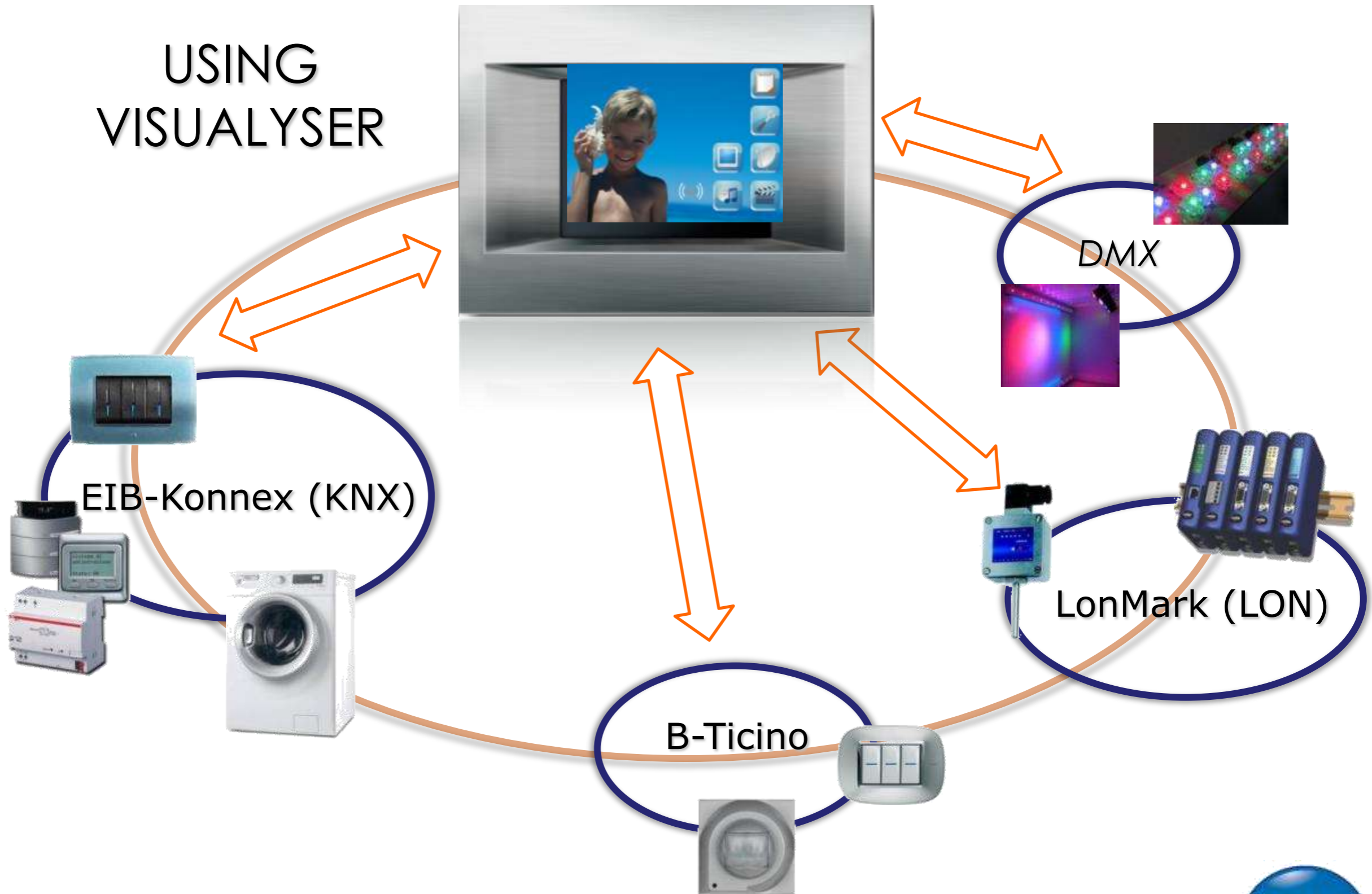
List of all supported protocols (devideds by serial, ethernet, etc.)



You just have to **drag the protocols** you want to use in order to create the solution you need



## USING VISUALYSER

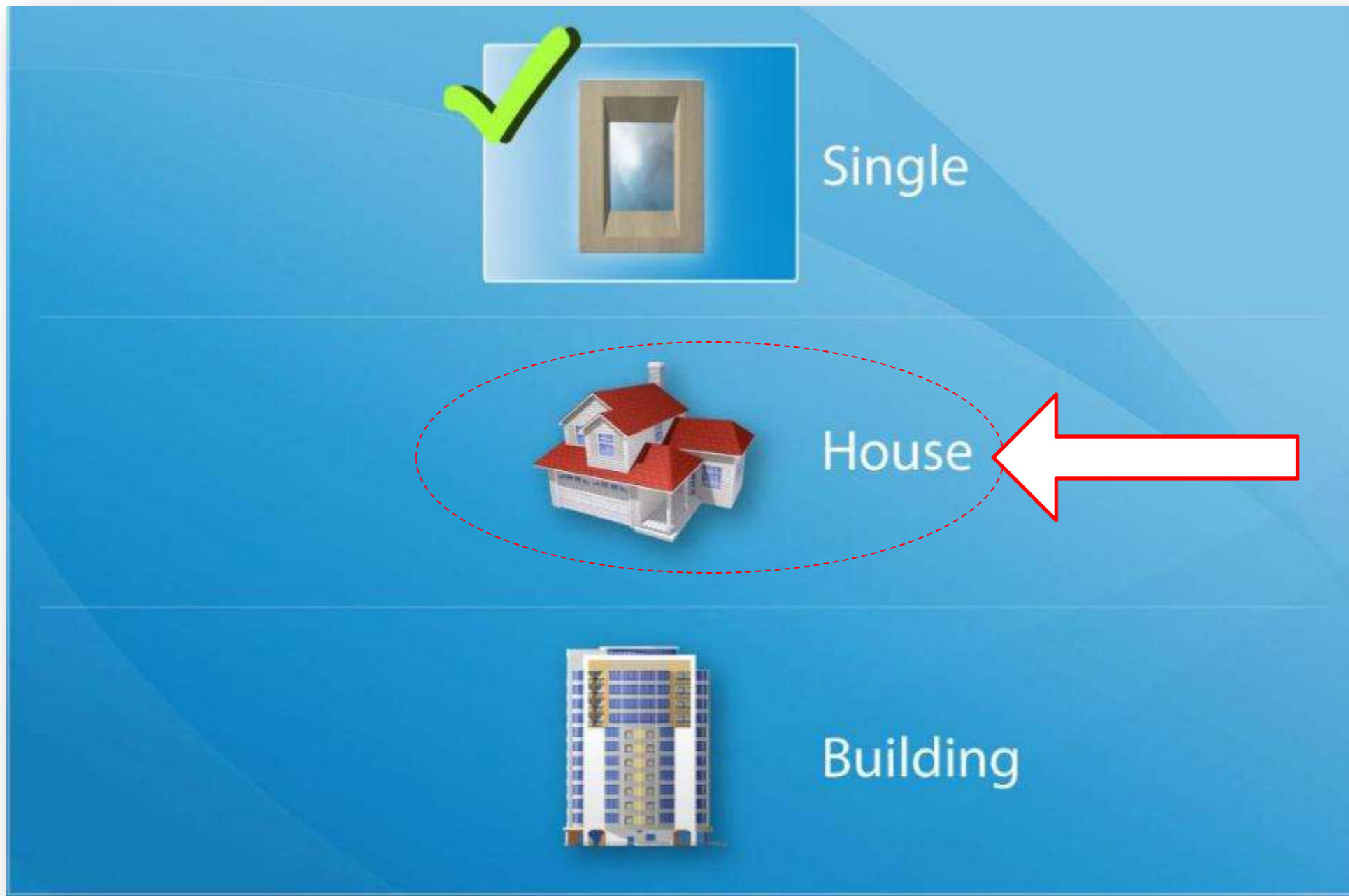




# MyVision Software - Project settings

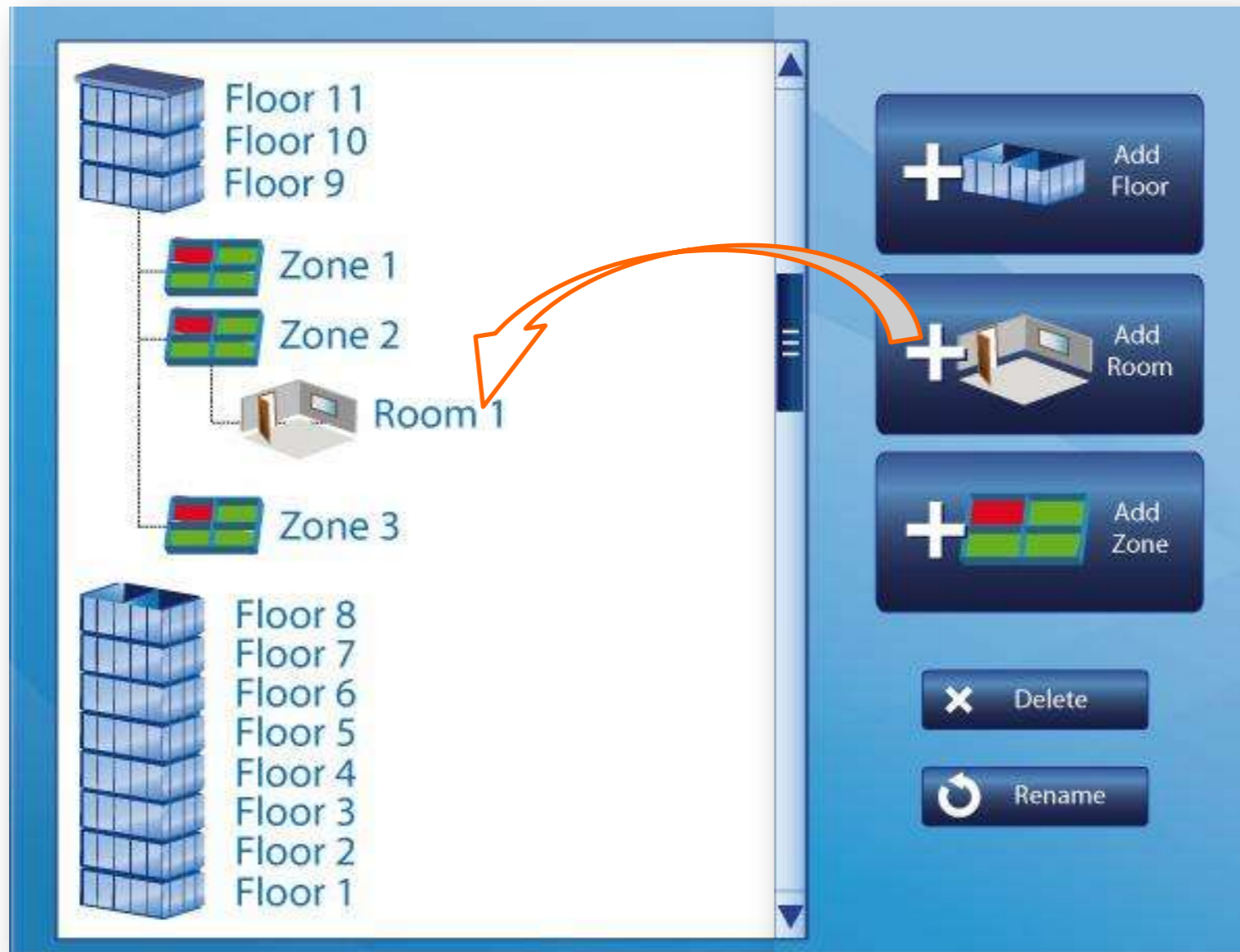
**Advanced project:** network of panels

Define the **project complexity**



# MyVision Software - Project settings

**Advanced project:** network of panels



Control a complex edifice or a small house by means of a **“Floors”, “Zones” and “Rooms” organization**, allowing you to have always under your eyes the **exact building overview**.

Optionally define the **building structure**



# MyVision Software - Project settings



ETS3 - Topology in plugin test

Parent	Group Address	Sending	Main Group Na...	Middle Group Name	ACK (PL)	C
0: Object 1 -	0/3/11 B	S	main group	LAB03		N
1: Object 2 -	0/3/14 E	S	main group	LAB03		N

ETS Connection Manager

Configured Connections

- OCI700
- Serial PE110 - COM1
- Serial PE110 - COM4

Properties

Name: OCI700

Type: USB

Communication: IP (EIB/IP)

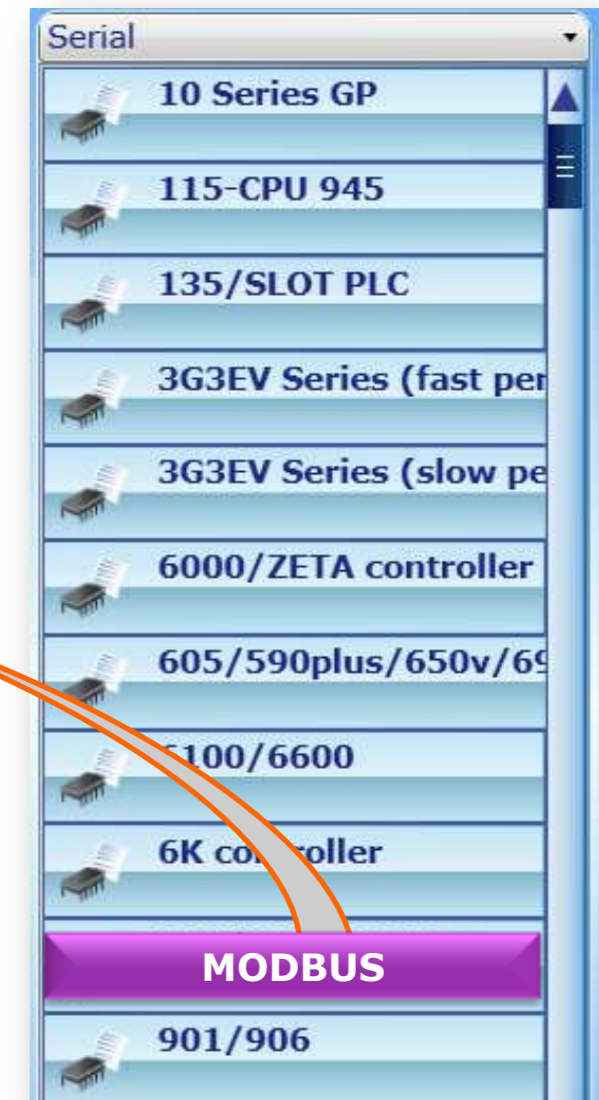
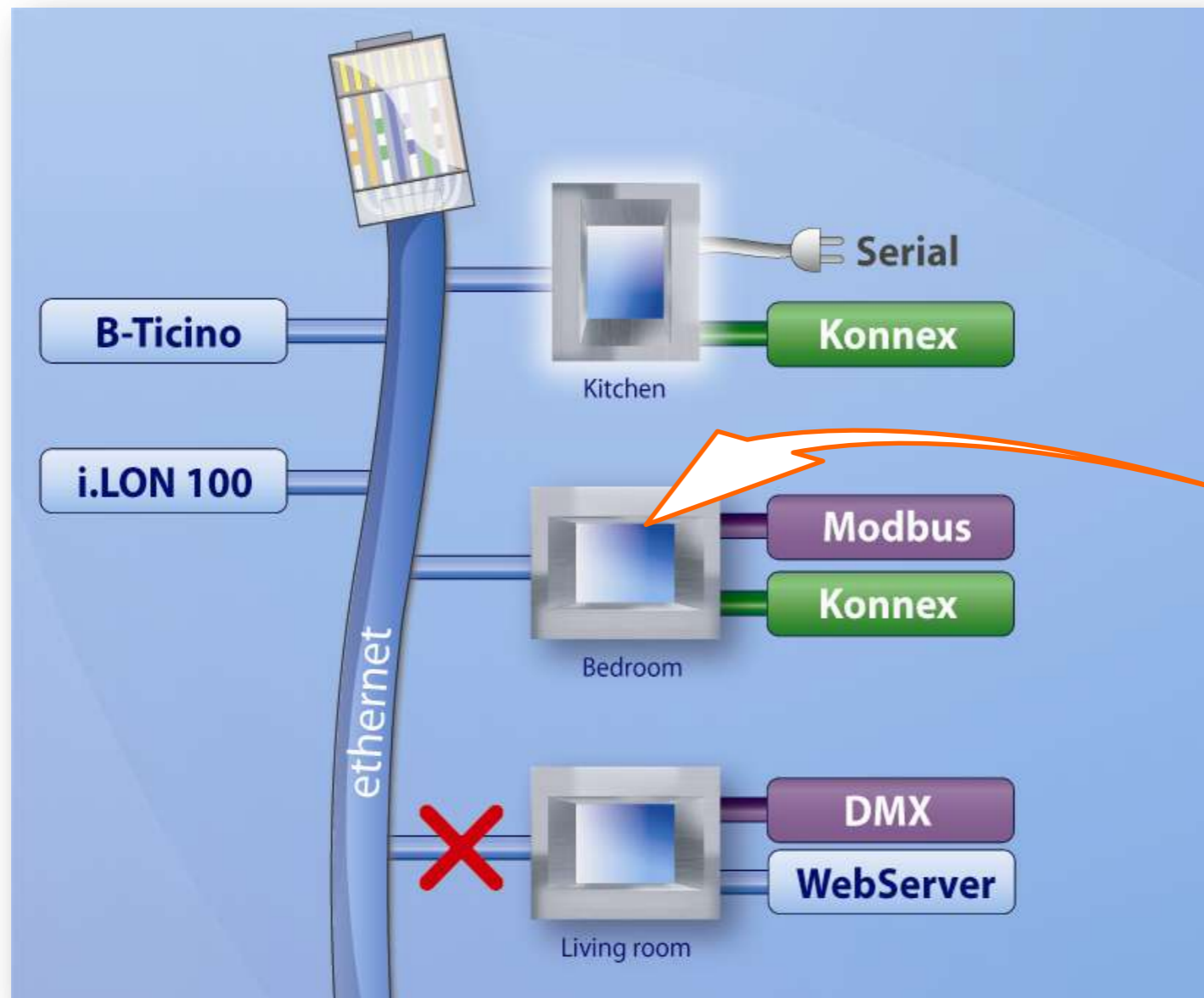
USB Device:

**Import from Konnex ETS 4**



# MyVision Software - Project settings

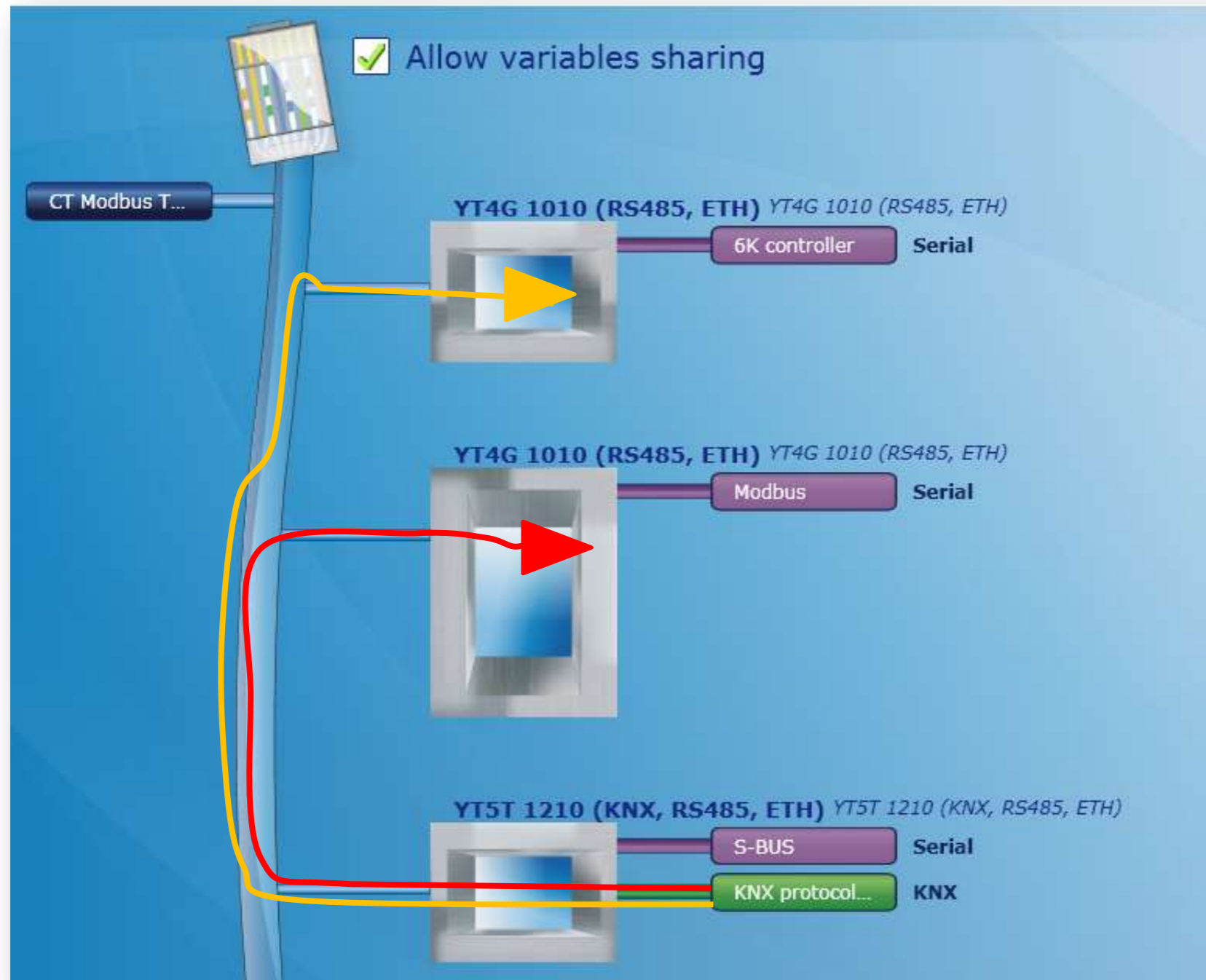
**Advanced project:** network of panels



You just have to **drag the protocols** you want to use in order to create a **winning graphical representation of the building structure.**












## Automatic Tag Sharing



Touch panels are able to **share variables each other**

All the job is **done by MyVision!**



-  Alarms
-  Lights (ON/OFF and Dimmer) 
-  Air-conditioning and heating system
-  Irrigations
-  Scenarios
-  Curtains and rolling shutters
-  Doors and windows automation
-  Video surveillance
-  Events and scenarios scheduling
-  Antitheft and access control

**Easy create  
your pages  
with lot of  
wizards !!**

 *Dedicated wizard for hotel rooms*



Step 1

Define the **number of lights** and the behavior

Number of ON-OFF lights: 4

Number of dimmer lights: 3

Advanced settings

**Ramp time to ON**  
 Instantly  
 Specify time 54 Seconds

**Ramp time to OFF**  
 Instantly  
 Specify time 54 Seconds

**Sleep time**  
 Instantly  
 Specify time 1 Minutes

Cancel ? Next




# MyVision Software – Pages creation

Step 2

Choose if you want a **grid of button** or a **background image**

## Page settings

Show elements as a simple grid of buttons

Background color 

Show elements over a background picture

Background image Villa.jpg






Step 3

**Define button skin and properties**

**Buttons**

Skyn  
 Images




**Behaviour**



Buttons will be read-only  
 Buttons will be read and write


**Texts**

Show button description

Color 

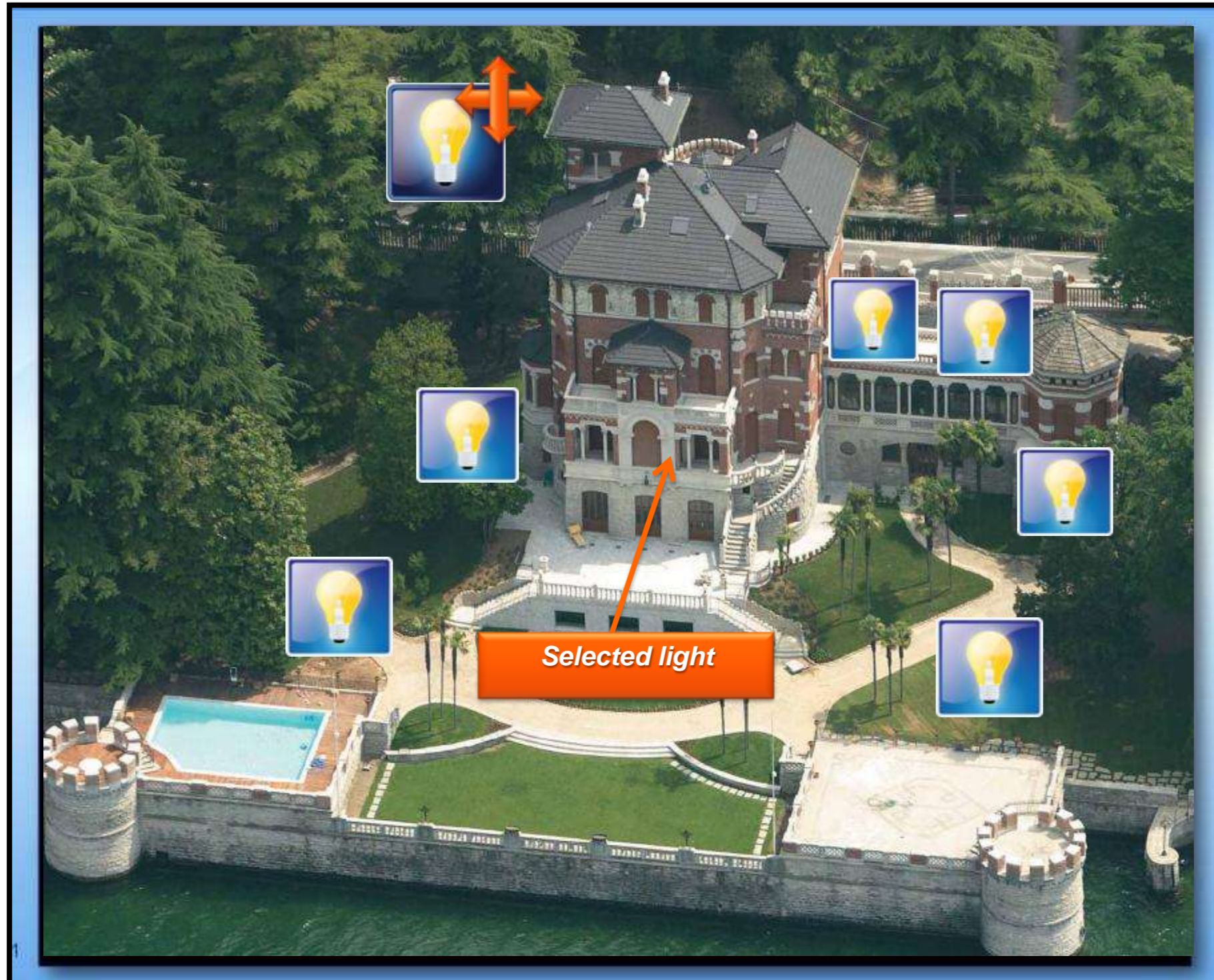
Dimension

Alignment   



Step 4

**Define lights position** moving the icons around the screen



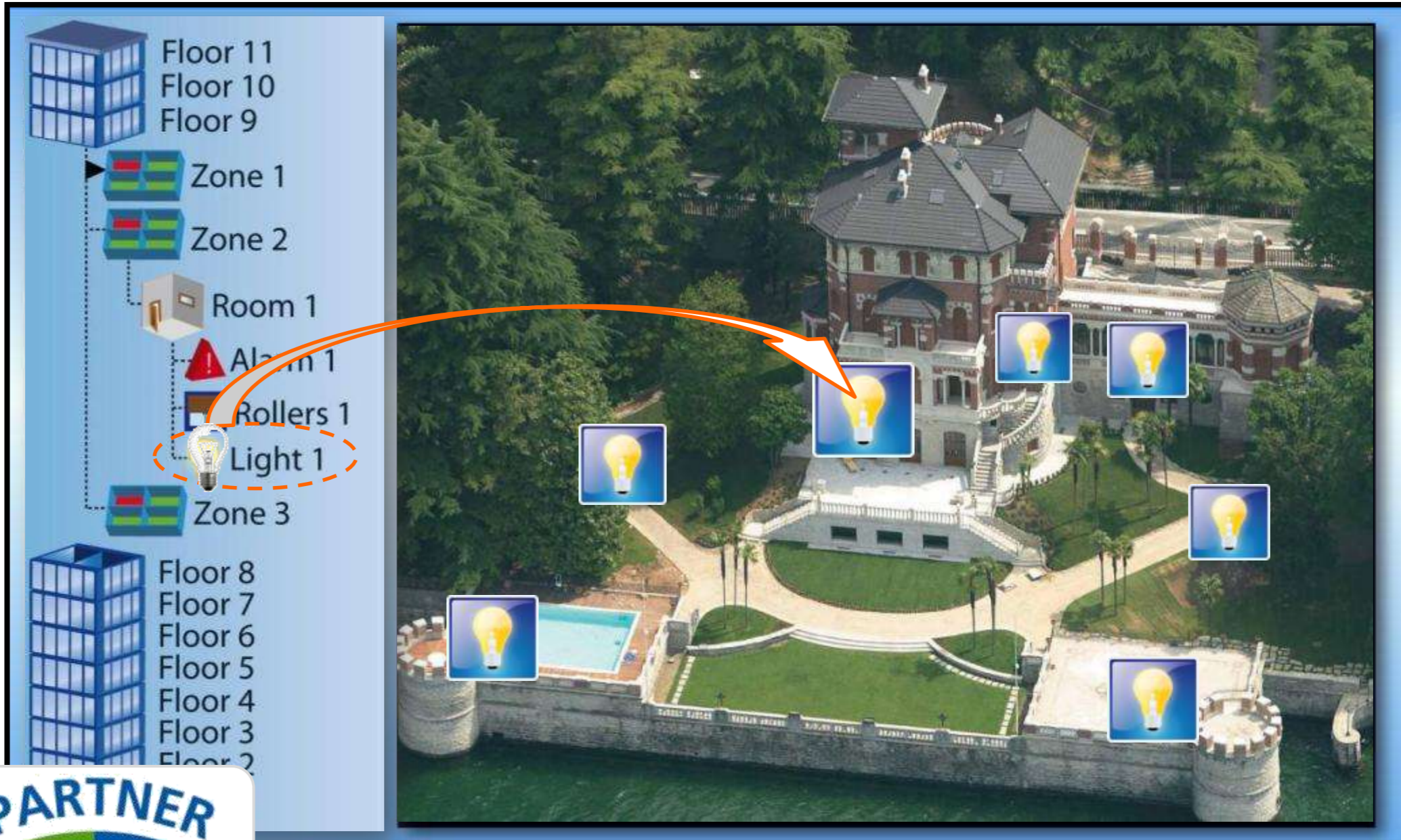
Double click  
to edit  
button  
properties in  
advanced  
mode



# MyVision Software – Pages creation

Step 5

**Drag and drop variables** from the building tree



**Manage more protocols and tags at once**



# MyVision Software – Pages creation

Step 5

**Directly drag and drop variables**

**Selected protocol**

**Konnex**

- Light 1
- Light 2
- Light 3
- Light 4
- Light 5**

**List of declared or imported tags**

**Import** zoom: 1









**Import tags directly from any supported database**



## CREATE POWERFUL SCENARIOS IN A FEW CLICKS

Using an icons-based user interface you can **manage, at once, the intensity of the lights, decide the temperature of many rooms, automatize doors, windows and much more.**

Description: My sample scenario

DataPoint	
Light	
DimmerLight	
RGBLight	
Fan	
Heater/Cooler	
Irrigation	

**ON**



**OFF**



**Scenario management**



## Scenario management

The screenshot displays the MyVision configuration software interface. On the left, a 'Project Scenarios' list includes 'Scenario 1', 'Hotel room', 'Garden on', 'Garden off', 'Dinning room', 'Bedroom 1', 'Bedroom 2', and 'Party'. The 'Hotel room' scenario is selected. The main area shows configuration options for 'Curtain', 'Door', 'Roller', 'Window', and 'HVAC'. Each option has three circular icons: a grey one for 'Unset', a red one for 'Switch OFF', and a green one for 'Switch ON'. The 'HVAC' section includes a 'Temperature' slider set to 23 and a 'Speed' slider set to 2. On the right, a 'Project data' tree shows a building structure with floors 1-11, zones 1-3, and various room and alarm components. A 'Light 1' component is highlighted with a dashed orange circle. Several orange callout boxes with arrows point to specific elements: 'List of scenarios' points to the scenario list; 'Things to be done for the selected scenario' points to the main configuration area; 'Set temperature' points to the HVAC temperature slider; 'Unset' points to the grey HVAC icon; 'Switch OFF' points to the red HVAC icon; 'Switch ON' points to the green HVAC icon.

MyVision configuration software

Just drag and configure



## Easy manage scenario at runtime



*Automatic  
synchronization  
of the scenario*

*Possibility to  
save the  
scenario settings  
at runtime*

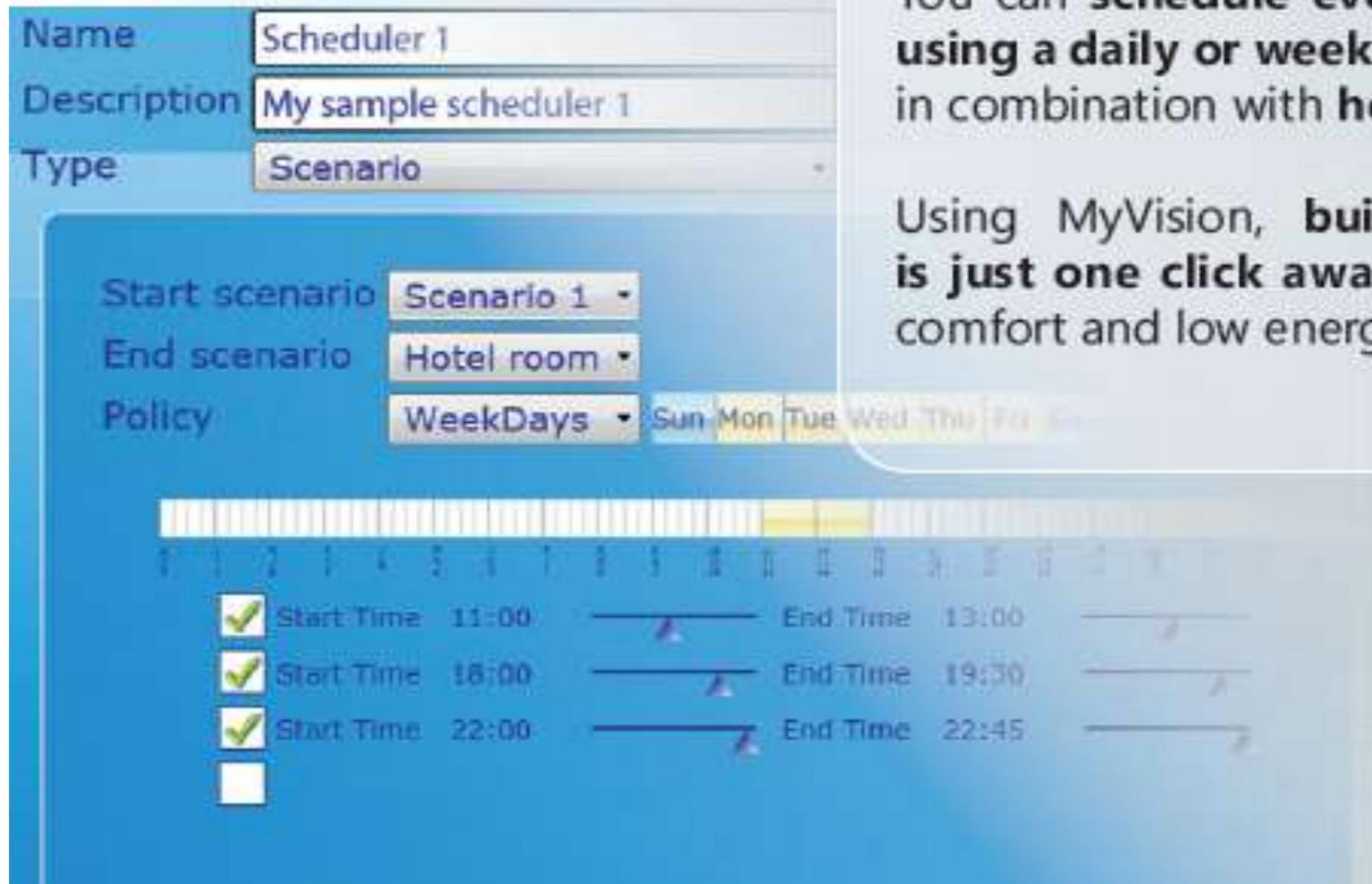
**Touch panel interface**



## HOME AUTOMATION IN YOUR HAND

You can **schedule events and scenarios using a daily or weekly time frame**, even in combination with **holiday calendars**.

Using MyVision, **building automation is just one click away**, providing a total comfort and low energy consumption.



The screenshot shows the MyVision Scheduler interface. It includes the following fields and controls:

- Name:** Scheduler 1
- Description:** My sample scheduler 1
- Type:** Scenario
- Start scenario:** Scenario 1
- End scenario:** Hotel room
- Policy:** WeekDays

Below these fields is a weekly calendar grid with days of the week (Sun, Mon, Tue, Wed, Thu, Fri, Sat) and a corresponding bar chart. Underneath the calendar, there are three rows of event scheduling controls, each with a checkbox, a start time, a horizontal timeline with a triangle marker, and an end time:

Event	Start Time	End Time
<input checked="" type="checkbox"/>	11:00	13:00
<input checked="" type="checkbox"/>	18:00	19:30
<input checked="" type="checkbox"/>	22:00	22:45
<input type="checkbox"/>		

**Schedulers**

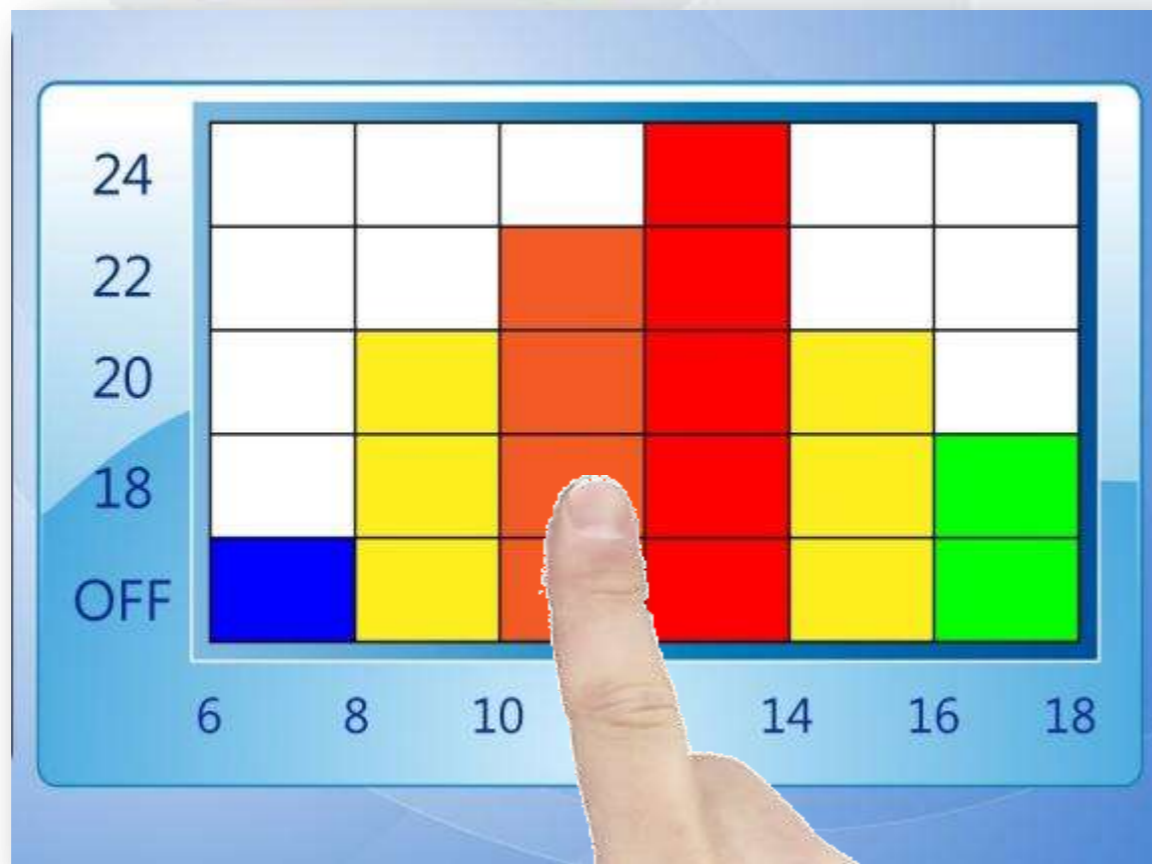






## CHRONOTERM AND TERMOREGOLATION

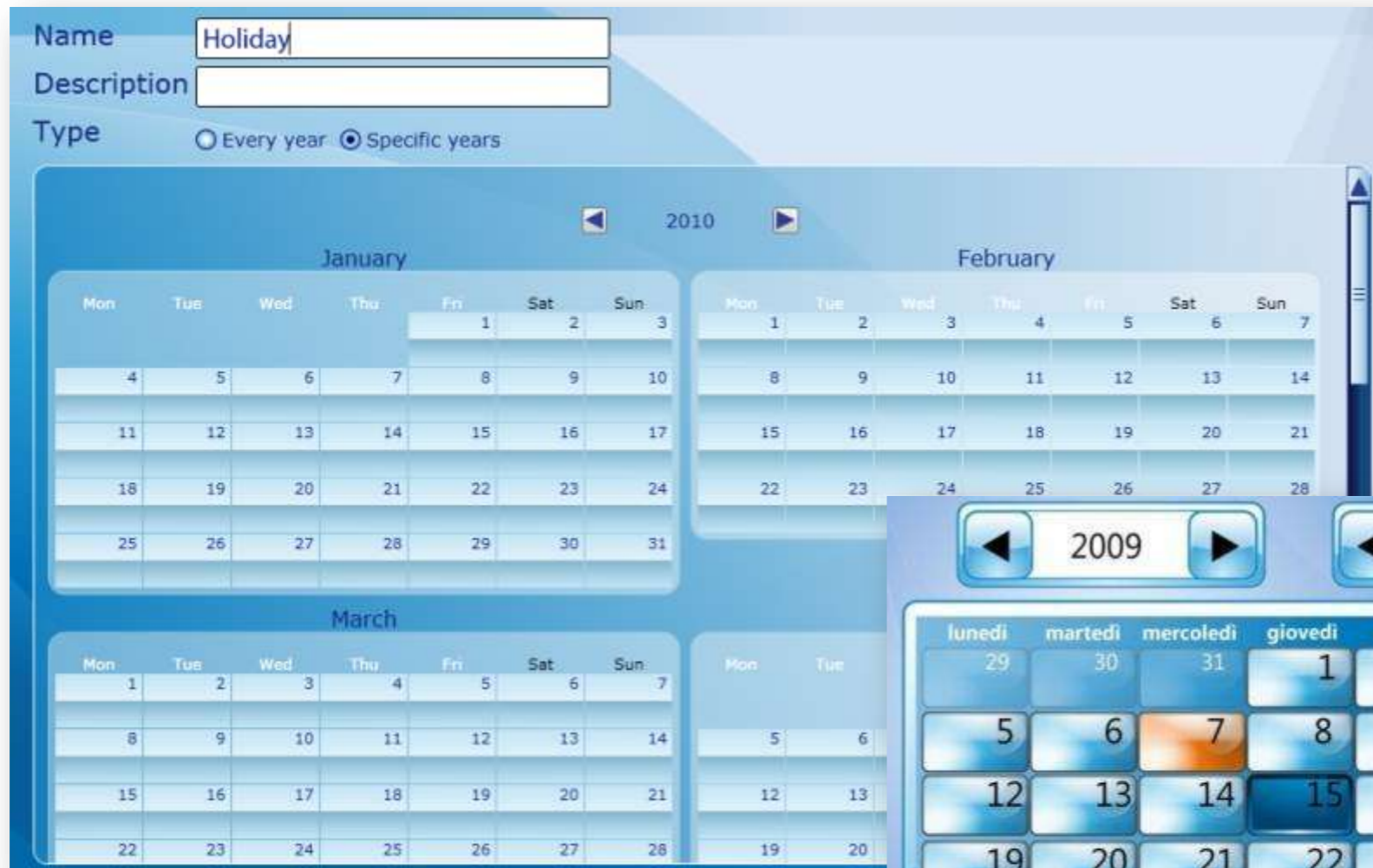
Nonmatter you have to manage the temperature of a small apartment or regulate the clima of a whole building: do it always in the best way using **nice looking and intuitive widgets or practical weekly chronoterms.**



**Chronoterm**



Set holidays for scheduled tasks



*You can choose between specific years or every years*

**MyVision configuration software**



**Touch panel interface**

**Holiday management**





**Big screens**

← **Landscape** →



**Small screens**



← **Portrait** →



**Automatic interface configuration**



## Intuitive user interface

The Scheduler interface features a vertical toolbar on the left with icons for a water drop, a lightbulb, a key, a keypad (A/B, C/D), and a checkmark. The main area contains two time selection sections: 'START TIME' and 'END TIME', both set to 11:30. Each section has up and down arrow buttons for adjustment. Below the time sections is a 'Holidays' section with buttons for 'SABATO' and 'DOMENICA'. The word 'SCHEDULER' is displayed in a large font at the bottom left, and a circular 'M' logo is at the bottom right.

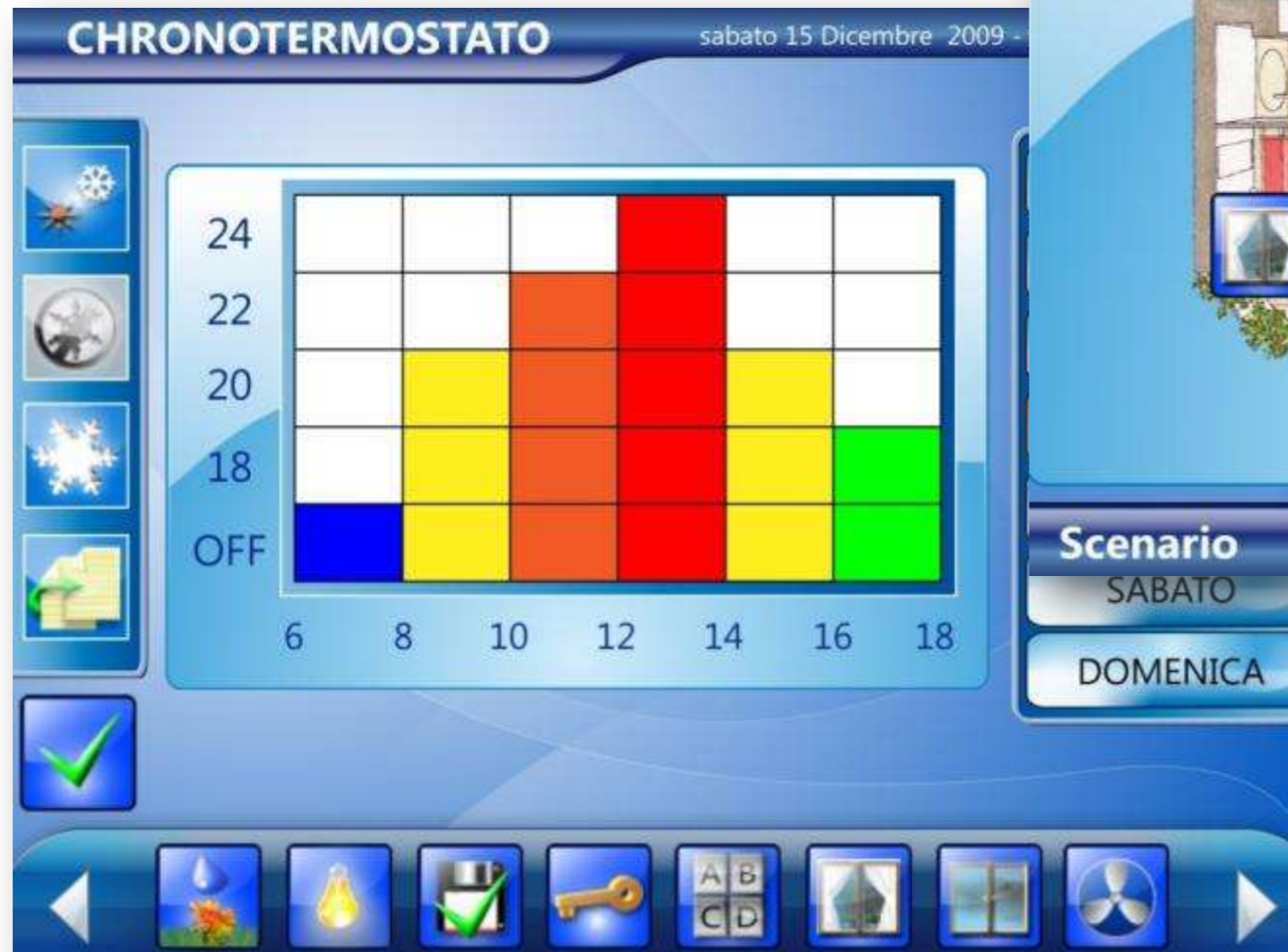
Scheduler

The Holidays interface shows a calendar for the year 2009, with the month of April selected. The calendar grid has columns for the days of the week: lunedì, martedì, mercoledì, giovedì, venerdì, sabato, and domenica. The date 7th is highlighted in orange, and the date 15th is highlighted in dark blue. Navigation buttons for the year and month are at the top. The text 'Holidays' is displayed in a large font at the bottom center. At the bottom right, it shows 'sabato 15 Dicembre 2009 - ore 19:30' and a circular 'M' logo.

Holidays



## Intuitive user interface



**Chronoterm**



## Intuitive user interface



**Video surveillance**



**Alarms**





***Easy to use advanced controls***



# MyVision Software



***7 icons' families to choose from***





## Navigation and Title bar

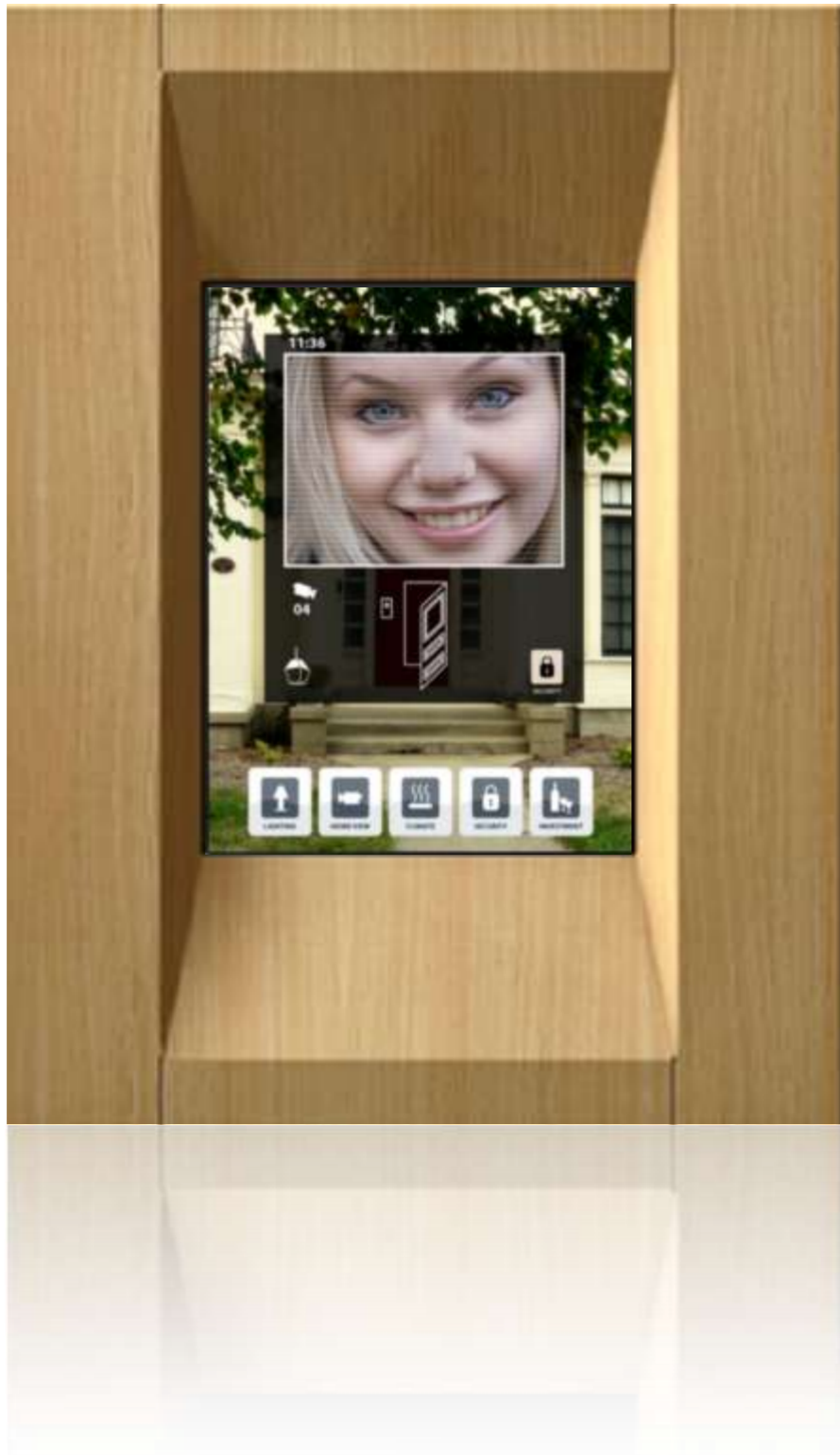
The screenshot displays the 'ALARMS' section of the MyVision software. At the top, a title bar shows 'ALARMS' on the left, the date and time 'Saturday 3 April 2010 - Time 19:30' in the center, and a circular 'M' logo on the right. Below the title bar is a table of alarm data:

Name	Description	Group	State	Value
Alarm 1	Refrigerator	Warning	Active	ON
Alarm 2	Garden	Warning	Active	ON
Alarm 3	Water loss	Warning	Active	ON
Alarm 4	Kitchen	Warning	Active	ON
Alarm 5	Kitchen	Alarm	Active	ON

Below the table is a navigation bar containing several icons: a left arrow, a water drop, a lightbulb, a green checkmark, a key, a 2x2 grid with letters A, B, C, D, a window, another window, a fan, and a right arrow. A circular 'M' logo is also present in the bottom right corner of the interface.

*Navigation bar and Title bar are automatically created and resized to perfectly fit the display size*

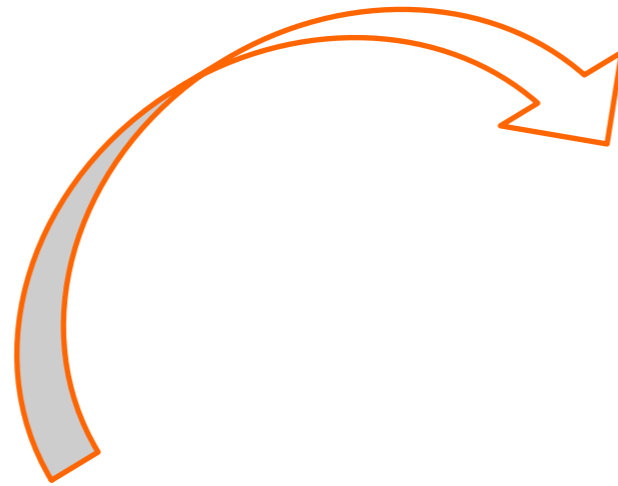




**Video streaming**  
(using an IP camera)



*Landscape*



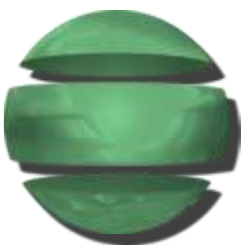
*Portrait*



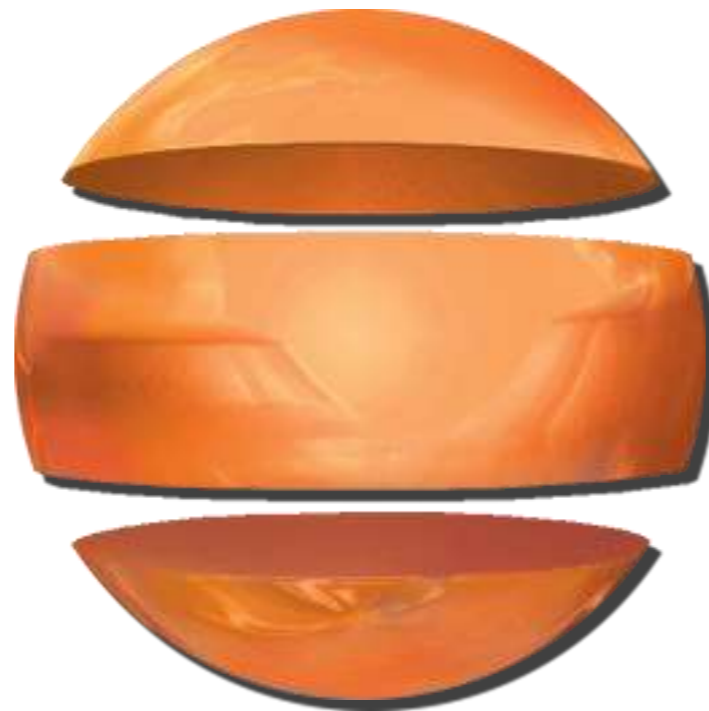
# Remote Access



**Remote control** every touch panel using a standard **internet** connection, a **VPN** (Virtual Private Network) or a **LAN**



**Advanced  
programming tool  
for Visualyser  
panels and PCs**



**Polymath Advanced**  
with EZbuilder

# Polymath Advanced

The screenshot shows the Polymath Advanced software interface. At the top is the **Main Menu** with options: File, Edit, Script, Fields, Layout, Image, View, Tools. Below it is the **Icon Bar** containing various tool icons. On the left is the **Project Explorer** showing a tree view of the project structure: Project > IT107T (SP1, DP, ETH1) > Start. The central **Workspace** displays a 3D rendering of a large building with five blue gear icons overlaid on it. On the right is the **Library** with categories: Buttons and Switch, Flags and Icons, Keyboards, Image lists, Light, Machinery, Motors, Pipes and Valves, Tank, Various, User objects, Temporary objects. The bottom status bar includes Errors Viewer, Warnings Viewer, and Compiler Output.

**Main Menu**

**Icon Bar**

**Project Explorer**

**Workspace**

**Library**



## Trends



**Trends** allow the user to monitor the variable progress by having graphics displayed and updated in real time.



### Preset functions:

- ✓ Zoom
- ✓ Cursor
- ✓ Pen Selection, etc.



## Alarms



- ✓ **Priority Management**
- ✓ **Group Management**
- ✓ **User defined filtering**

The alarms that are available correspond to the **ISA standards**.

In addition, **alarm recognition** can be configured in accordance with personalized approaches directed at groups of alarms or individual alarms.





## Pop-up and Frames



Popup pages make possible to manage information and messages on more than one level.

Frames are objects which offer the advantage of being **able to create individual portions of pages to be inserted more than once** in different project pages (e.g., menus or navigation bars)



## ***Import and Export***



At any moment, all **data can be exported onto removable supports**, like pen drives and memory cards (Secure Digital), and onto local or network disks.

- ✓ Recipes
- ✓ Alarm History
- ✓ User Logs



## Reports



Reports are useful for **printing data related to the state or to the history of an application** (e.g., Weekly production).

They can contain all the graphic objects that can be added to the pages and project data.

In addition, they can be saved and archived.





## **Users management**

*Each project can be configured allowing up to **10 different user levels***

*Any element or function can be protected by a password.*

*It is also possible to trace users in a log file.*





## **Real-time validation**

Validation is a debugging tool that gives a **real time display of the list of anomalies in the project** (subdivided into errors and warnings): just by clicking on the corresponding line, the application will place itself at the point the correction must be made.





## VB Script

Polymath offers a **further level of personalization using VBScript with Intellisense.**

*VBScript is a standard language which allows users to create their own routines for managing the various elements of the project.*





## Fonts and Languages

**All Fonts** that are usable in a Windows environment can be inserted into projects, making it possible to personalize and to make the graphics of the projects more comprehensible.

The projects can be displayed as runtime in **different languages**.

The **texts in each language can be exported and saved** in standard CSV format to be more easily edited.





## Reports

### Runtime Printing

- ✓ Report
- ✓ Alarm history
- ✓ Hardcopy of the project.

**Project reports containing key data of the application or the entire displayed page can be printed at any given moment by connecting a local (USB, LPT) or network printer to the terminal**



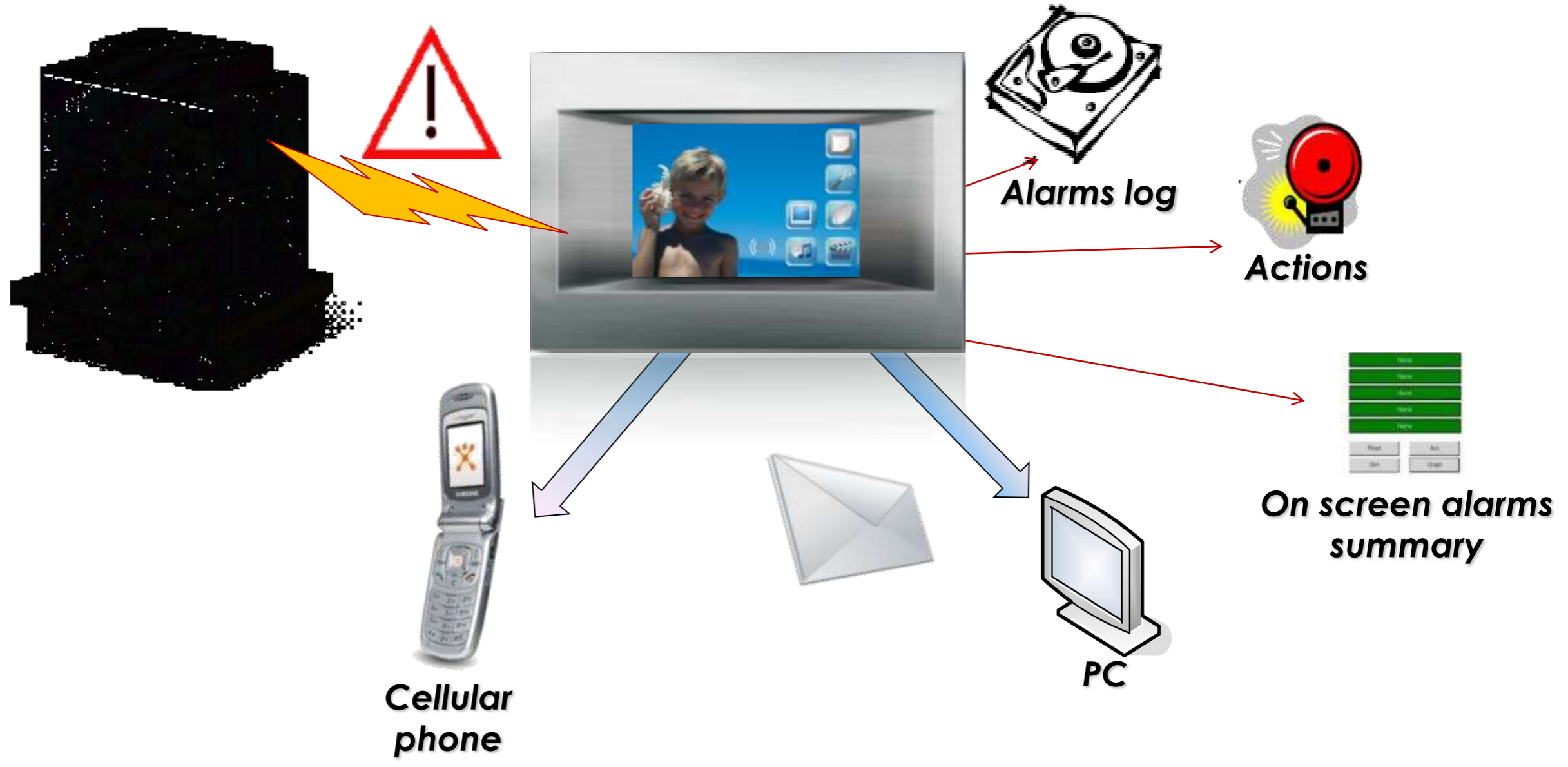




## ***Image editing DWG and DXF support***

*It is possible to import designs from **AUTOCAD®** or any other software that exports **DWG or DXF formats**.*





 **Alarms** dispatched by **Email and SMS**  
Automatic dispatching of **daily reports**



# Supported drivers

## PLC Serial Drivers

- ❖ Allen Bradley SLC500 5/03 - 5/04 DF1
- ❖ ABB Modbus
- ❖ Beckhoff BC7300 / BK7300 / BX3100
- ❖ Beckhoff KL6001 / KL6021
- ❖ GE Fanuc Series 90-30, Versamax
- ❖ Hitachi EH150/H250/H252B-C/H302/H702/H1002/H2002/H4002
- ❖ Klockner Moeller PS306-PS316-PS416 CPU223
- ❖ Klockner Moeller PS416 CPU400
- ❖ Klockner Moeller PS4-201-MM1
- ❖ Klockner Moeller PS4-341-MM1
- ❖ Mitsubishi FP series
- ❖ Modbus RTU Master
- ❖ Omron CS1-CJ1 series
- ❖ Omron H series/Host link
- ❖ Saia Profi-S-Bus
- ❖ Saia S-Bus
- ❖ Siemens S7 200 PPI Network 9600, 19200, 187500 bit/s
- ❖ Siemens S7 300/400
- ❖ Telemecanique Twido (Modbus port)
- ❖ Telemecanique Unitelway TSX07/37/47/57 (Premium)
- ❖ Telemecanique Unitelway TSX17
- ❖ ...many more

## Ethernet Drivers

- ❖ Berthel ModuCon-S7, ComCon-S7 Eth.
- ❖ CTNET Ethernet
- ❖ Ethernet IP (Allen Bradley)
- ❖ Galil DMC 2x00 series Ethernet
- ❖ Modbus TCP/IP
- ❖ Omron Ethernet FINS
- ❖ SAIA Ether-S-Bus
- ❖ Siemens Industrial Ethernet
- ❖ Telemecanique TSX Premium (Modbus TCP/IP)
- ❖ ... many more

## Other Serial Drivers

- ❖ Control Techniques CT Modbus RTU
- ❖ Eurotherm 605/590plus/650v/690plus
- ❖ Hengstler 901/906
- ❖ Keb F0-F4C-FAF-F4S-S4 Series
- ❖ Keb Combivert F5 Series
- ❖ Omron 3GEV Series (Modbus RTU)
- ❖ Parker 6K controller
- ❖ Parker 6000 / Zeta controller
- ❖ Parker GT6 / GV6 controller
- ❖ Siemens Simovert VC Series
- ❖ Telemecanique Altivar (Modbus RTU)
- ❖ Trio Motion (Modbus RTU)
- ❖ West 6100/6600
- ❖ ... many more

# Polymath Machine Edition

Any project developed with the Polymath Advanced development room can even be carried out on any **PC with Windows XP Professional or Windows XP embedded** operating systems and on ESA XS terminals



+

