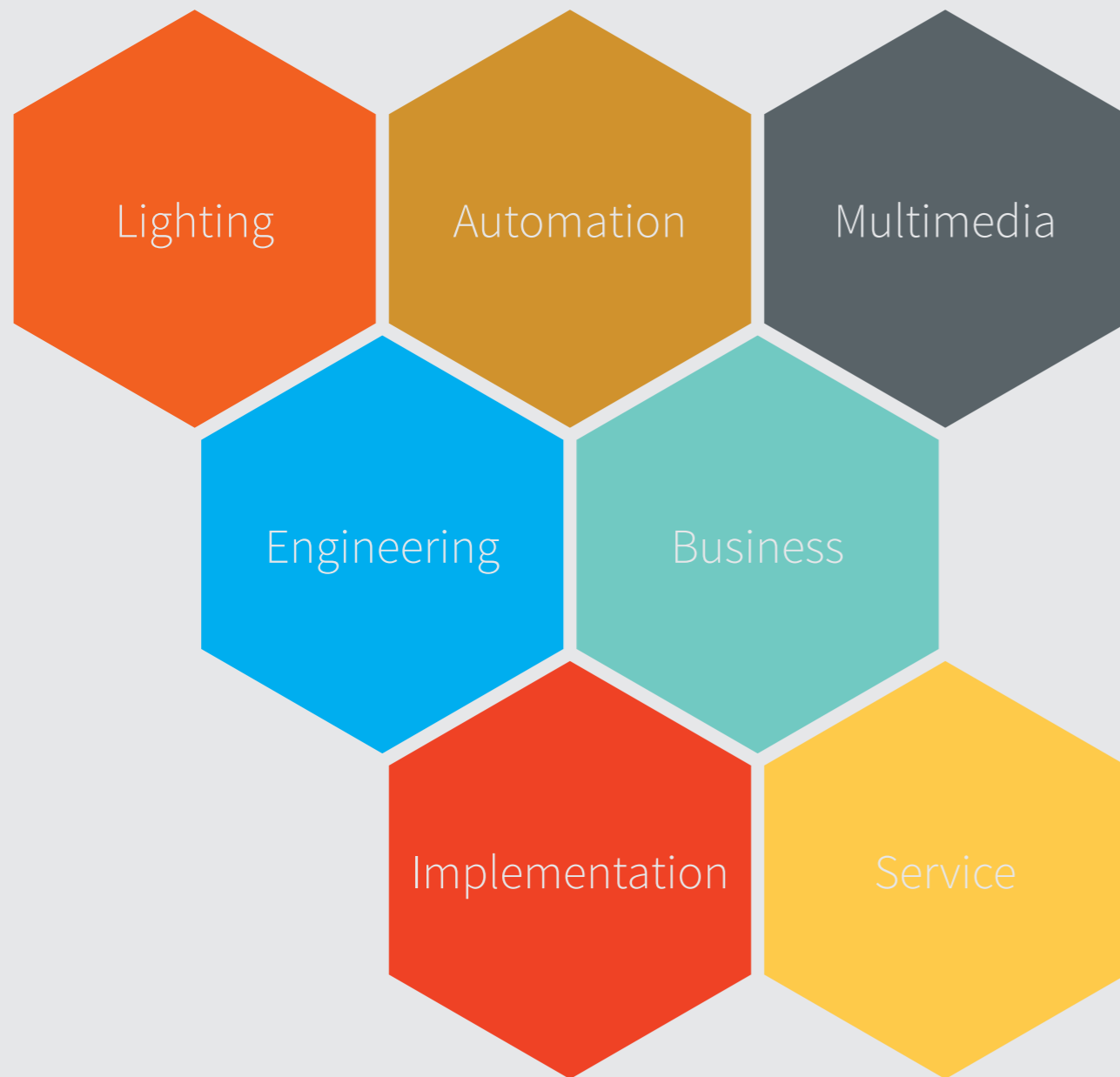




EXPERTISE  
INTEGRATED

WE ARE PROFICIENT  
IN VARIOUS FIELDS



THEIR INTEGRATION  
IS OUR ASSET



REALISATION OF COMPLEX  
AND CHALLENGING PROJECTS  
IS OUR MISSION



WE ENGINEER WITH PASSION



AND WORK WITH FULL COMMITMENT





## LIGHTING DESIGN PROCES ALWAYS STARTS WITH A CONCEPT

CHOOSE THE BEST OPTION WITH OUR  
PRESENTATION TOOLS:



Floor plans with luminaire positioning and photos,  
along with lighting calculations (dialux / relux software)



Proper location of luminaires, in coordination with other  
installations and amenities (cad software)



Photorealistic visualisations, which help the architects  
to see how our design compliments their vision  
(3d software)



View a computer generated scene, with lifelike lighting,  
through vr goggles.

Next generation tool for accurate  
design evaluation.

Lighting



## LIGHTING

Light is an important factor which greatly influences the way we perceive the world. It gives us power to unobtrusively shape the surrounding reality.

With our knowledge and experience we are able to implement every concept.

All that using modern and energy-efficient light sources.

Our offer consists of complete solutions: design, valuation, completion of deliveries, supervision and coordination, illuminance measurement, documentation and service.

We design technical, office, commercial and decorative lighting along with outdoor and indoor illuminations.

Working in cooperation with architects enables us to approach every project individually and use custom-designed luminaires.

<b>OSRAM</b>	<b>siteco</b>	<b>traxone:cue</b> <small>AN OSRAM BUSINESS</small>	<b>DELTA LIGHT</b>
<b>BEGA</b>	<b>GLASHÜTTE LIMBURG</b>	<b>ERCO</b>	<b>BOOM</b>
<b>HALLA</b>	<b>BELUX</b>	<b>kreon</b>	<b>RZB</b>
<b>ares</b>	<b>VIBIA</b>	<b>FLOS</b>	<b>Artemide</b>
<b>FOSCARINI</b>	<b>SPECTRA</b> <small>lighting</small>	<b>NORTHCLIFFE</b> <small>MAKING LIFE BRIGHTER</small>	<b>ES-SYSTEM</b>
<b>Oty</b> <small>light</small>	<b>m o o o i</b>	<b>MODULAR</b> <small>LIGHTING INSTRUMENTS</small>	<b>LUMINA</b>

SYSTEM INTEGRATION REQUIRES CONSTANT  
EVALUATION OF OUR SOLUTIONS  
AND SEARCH FOR NEW POSSIBILITIES



Automation

Working with beckhoff helps  
us to achieve our goal

**BECKHOFF**

WE ARE QUALIFIED IN INTEGRATION  
AND MANAGEMENT OF HOME AND BUILDING  
AUTOMATION SYSTEMS.

CONNECTING A WIDE SELECTION  
OF TECHNOLOGIES MAKES US PROFFESIONAL  
IN EVERY OF THEM.

<b>BECKHOFF</b>			

SUPPORTED OPERATING SYSTEMS



WE USE PROVEN,  
RELIABLE SOLUTIONS



## ALL-IN-ONE

### ONE SYSTEM FOR ALL BUILDING FUNCTIONALITIES, REGARDLESS OF SCALE

Popo is our original software, crafted for maximum simplicity and flexibility. It does not matter how complex a building is or how many systems are to be connected – popo will integrate all important elements and create unified control interface.

Popo is our original software, crafted for maximum simplicity and flexibility. It does not matter how complex a building is or how many systems are planned to be connected – popo will integrate all important elements and create unified control interface.



#### Remote

Manage your home with a smartphone or other device with internet access.



#### Simple configuration

Easy creation of user-defined scenarios.



#### Improved safety

Integrated systems provide a next generation home security.



#### Energy saving

Popo optimizes power consumption through various usage scenarios.



#### Supervision

Stay in touch with your home wherever you are.



#### 24/7

Automatic notifications sent to your phone or e-mail.



#### Comfort

Popo dynamically adapts to suit your current needs.



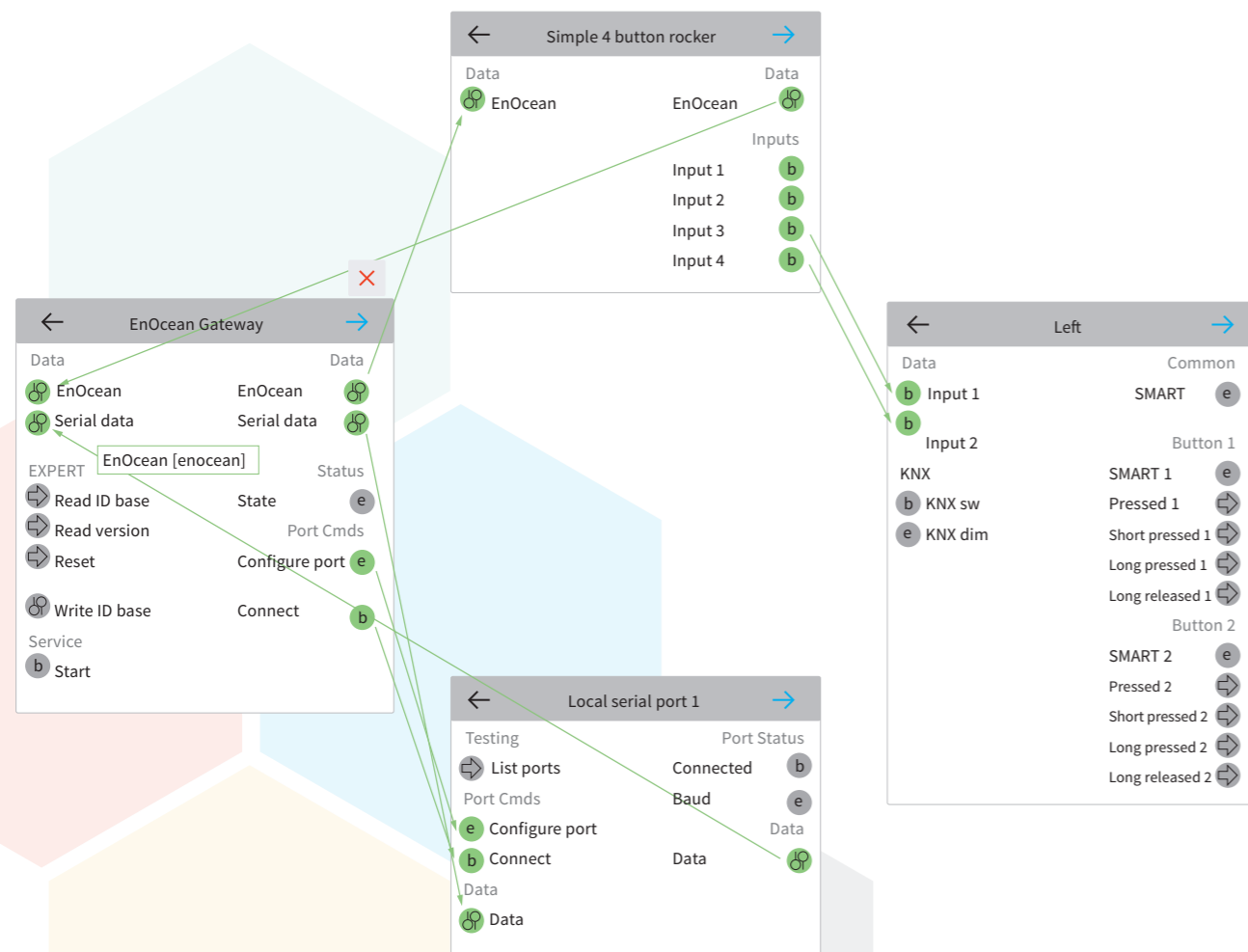
#### Peace of mind

Popo monitors all events inside your home and informs you if something happens when you're away.

# PROGRAMMING MADE SIMPLE

LOGICAL STRUCTURE OF THE SYSTEM IS CREATED WITH OUR SOFTWARE TOOL – CONFIGURATOR – WHICH ENABLES SIMULTANEOUS WORK OF OUR TEAM IN REAL-TIME.

REAL-TIME CONFIGURATION MEANS THAT THE SYSTEM IS FUNCTIONAL EVEN WHEN WE ARE STILL WORKING ON IT OR APPLYING CHANGES.





## ONE SYSTEM – MULTIPLE APPLICATIONS

### HMS AUTOMATION

Home management system is often called „smart home”, because it integrates all devices within your home (or office, hotel room and much more) enabling remote control and automatic management.

Play music, close the curtains, turn on the lights or adjust temperature with one touch on your smartphone.

You can also combine multiple actions into one functionality called „scene”.

With scenes it is possible to automatically turn on the light and play your favourite song when you come back from work.

You can set the scenes to work the way you want – imagination is the only limit.

Main controller collects data from multiple devices and sensors to manage the building. Notifications are automatically sent through sms, e-mail or rss.

Important feature of popo system is its scalability. Its size is always proportional to the number of integrated elements, such as: lighting, blinds and curtains, windows, screens, electrical outlets, doors and heating valves. Number of the modules is almost unlimited.





## MODULAR STRUCTURE FOR FULL SCALABILITY

### BMS AUTOMATION

Building management system is widely used in hotels and offices, as well as industrial and commercial applications.

Integration of all installations is a very effective way of efficient building management.

Our system is equipped with tools for integrated control, supervision, optimization and reporting.

Bms controls work of all devices, collects usage data and notifies in case of any issues or malfunctions.

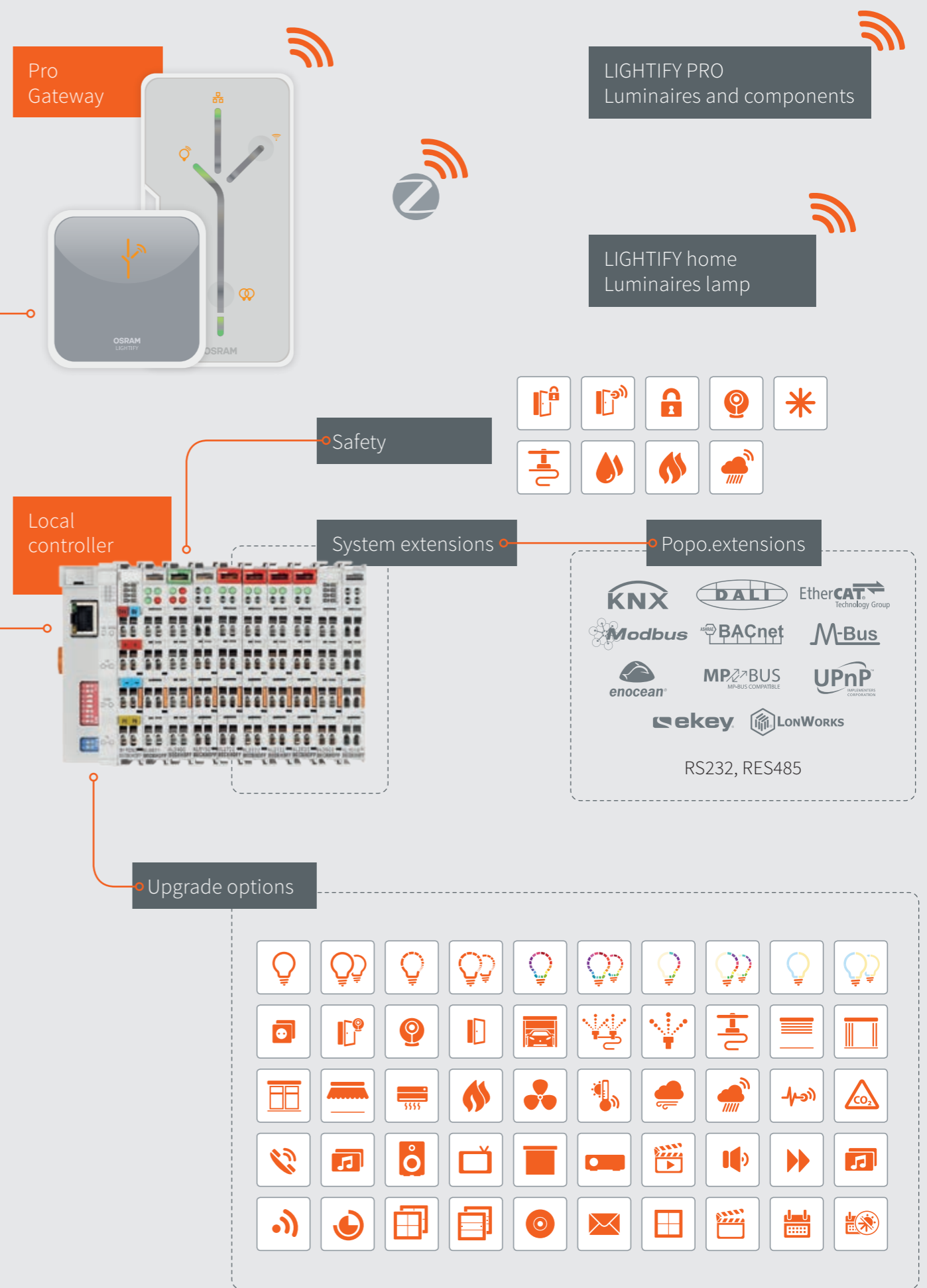
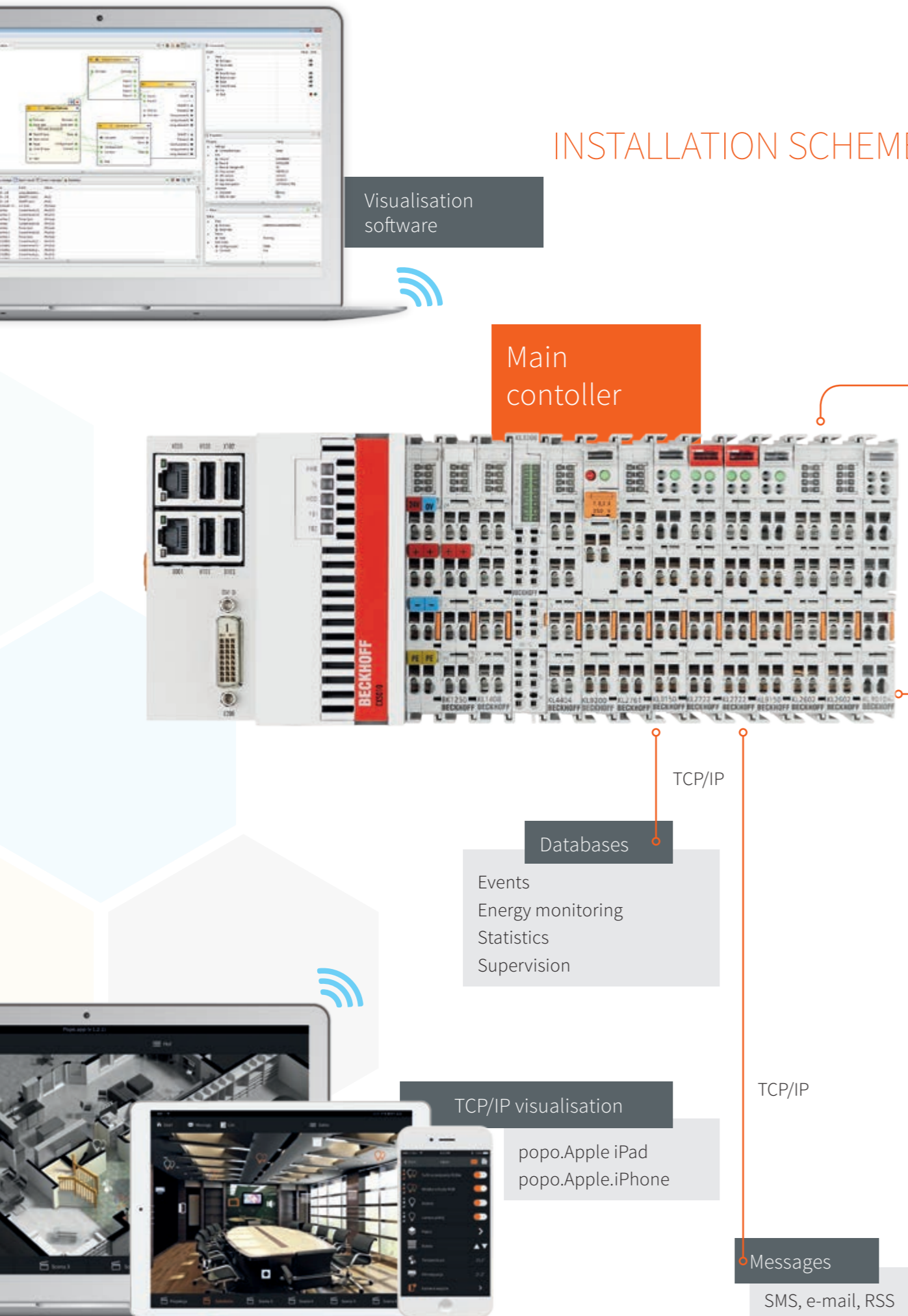
System interface enables transparent view of all parameters and intuitive management.

### COMPONENTS OF BUILDING AUTOMATION

- ✓ ICT network
- ✓ indoor and outdoor lighting management, based on presence, motion sensors and illuminance.
- ✓ heating, air conditioning and ventilation management for individual zones. Temperature sensors and air quality measurement.
- ✓ protection of people and property
- ✓ alarm system and monitoring
- ✓ fire protection system
- ✓ access protection
- ✓ energy management and usage monitoring, ups
- ✓ renewable energy storage and production management
- ✓ integration with av and other devices
- ✓ various customization options












# INSTALLATION SCHEME







# FEATURES





## Comfort

### Lighting









-  On / off lights
-  Fluent dimlight and dim-to-warm control
-  Tunable white luminaires
-  Rgb colorlights
-  Rgbw colorlights
-  Luminaires grouping and light zones
-  Control with switches, smartphone app or touchpanel
-  Lighting scenes creation and management
-  Schedule based operation

### Shutters / roller blinds / windows / awnings control









-  Shutter closing / opening / rotation
-  Left / right curtains control
-  Electrical windows closing / opening
-  Awnings closing / opening

-  Creating groups and zones of shutters / roller blinds / awnings
-  Control with switches, smartphone app or touchpanel
-  Scenes creation and management
-  Schedule based operation







### Integrated heating and air conditioning control

-  Air conditioning
-  Ventilation and air improvement
-  Conventional, electric and floor heating
-  Smart regulation with temperature setpoint and sensors (temperature, humidity, CO<sup>2</sup>)
-  Control with switches, smartphone app or touchpanel
-  Scenes creation and management
-  Schedule based operation
-  User defined management scenarios





## Multimedia

-  Audio and video multiroom
-  Connection with audio devices
-  Connection with video devices
-  Communication with multimedia projector
-  Projector screen control
-  Home theater connection - up to 9.2 speaker configuration and Dolby Atmos® Technology
-  Connection with Hi-Fi devices
-  Control with smart switches, smartphone app or touchpanel




## Home

-  Mailbox monitoring
-  Video intercom and concierge
-  Automatic door closing / opening
-  Video camera view for every monitored room
-  Automatic garage door closing / opening
-  Garden water sprinklers control

## Switches

-  Creating water sprinkler groups and zones
-  Control with switches, smartphone app or touchpanel
-  Scenes creation and management
-  Schedule based operation





## Switches

-  Classic
-  Touch
-  Display






# FEATURES

## Security










### Monitoring system

-  Monitoring system
-  Video intercom
-  Automatically activated camera view, based on user defined rules
-  Remote control using sms, e-mail, rss or web browser

### Burglary protection





-  Alarm central station support
-  Door and window opening detection
-  Motion sensors
-  Remote door and window control
-  Automatic notifications

## Safety


-  Fire and smoke detection
-  Flood detection
-  Gas leakage detection
-  Carbon monoxide detection
-  Overheating and frost protection
-  Rain and windalarm – automatic control of windows and blinds
-  Alarms and notifications
-  Automatic safety procedures
-  Gutters, drain outlets and driveways heating

## Energy saving




### Usage optimization

-  Automatic shutdown and dimming of luminaires, based on presence detection
-  Lighting and air conditioning control with user defined scenarios
-  Illuminance based operation
-  Smart sockets

-  Remote device management



-  Connection with energy recovery ventilation systems, heat pumps, fireplaces with water jacket and water recovery systems

### Consumption data analysis




-  Communication with water and electricity meters
-  Real-time data about resources consumption for every connected device
-  Detection of unusual energy consumption


## Health

### Health monitoring

-  Health data acquisition and presentation
-  Database storage and automatical analysis
-  Accident detection

### Support for caregivers

-  Alarms and reminders
-  Detection of presence and suspicious behaviours
-  Remote live view

-  Automatic notifications for caregivers

-  Emergency button



APARTMENT



CONFERENCE ROOM

SYSTEM SIZE

1-3 INTEGRATED PROTOCOLS

Popo is a suitable solution for both medium-sized apartments and conference rooms.

Even small installation, which integrates lighting, blinds and heating, can be improved by using popo.

One of the main benefits is reduced number of visible light switches. With popo even simple, classic switch can become smart.

Attach any function to each button or button combination. The system also detects short and long button press.

Use those features to turn the lights on/off with short press and dim while holding the button.

Create scenes to control several lighting circuits and blinds at once.

Popo app can also be used for multimedia management.

Connect system controller to Apple TV, SONOS speakers and music streaming services.

In conference room „presentation” scene can dim the lights, unwind the screen and turn on the video player or videoconference system.

Wall switches can be used to change volume.

All functionalities can be accessed with iPhone, iPad, iPhone or any Android smartphone. Our software provides almost unlimited configuration possibilities and intuitive graphical interface.





## HOUSE OR RESIDENCE



## ONE FLOOR OR SEVERAL FLOORS IN MEDIUM SIZE OFFICE BUILDING

### 3-5 INTEGRATED PROTOCOLS

Popo is equipped with efficient tools for building automation management. The system will perform superbly in houses and residences, as well as in small offices.

System offers smart solutions which integrate electrical devices and control them basing on user-defined logic.

Automation and monitoring of processes that take place in smart building include: lighting, blinds and awnings, heating, air conditioning, ventilation, 230V power outlets control, water installation, gates, central alarm systems, monitoring, multimedia.

All features can be integrated and controlled through one central system with configurable schedules, remote control and visualisation; Security is guaranteed by event detection, automatic notifications and presence simulation.

All settings can be easlily reconfigured by authorized users.

Easily programmable scenes and configurable device interactions can save your time and money.

The system will not only make bath but also detect flooding, automatically turn off the water and send an e-mail or sms notification.

You can choose any action (e.g. window opening or temperature change) to trigger e-mail, sms, voice alert or mobile app notification.

Audio and video mulitroom support is another brilliant feature of the popo system.

Popo is a powerful entertainment system that allows music, image, video and website sharing.

Multimedia devices can be freely configured to work independently (every user wants to listen different music or watch different TV show), or in any number of groups (same music playing synchronized in two or more rooms).

Use popo app to access all features or change basic settings through smart touch panels.





RESIDENCE, PALACE



## SMALL OFFICE BUILDINGS

MORE THAN 5 PROTOCOLS  
AND MANY DEVICES

Smart office system ensures comfort, improves working conditions, and guarantees power efficiency.

Popo enables creation of separately controlled zones that integrate heating, air conditioning and ventilation.

Every zone has separate temperature settings and corresponding room controller switch.

Modular and compact system structure provides easy way of system extension without any significant changes inside distribution board.

System can simultaneously support many different communication protocols (e.g. DALI, KNX, BACnet, ModBUS, RS232, RS485, ADS, Beckhoff) and wireless communication (e.g. EnOcean, infra-red or bluetooth).

Wide range of supported protocols allows integration of unlimited number of devices.

Implementation of TCP/IP Ethernet technology allows connection of fingerprint scanners, IP cameras, AV systems, motion and presence detectors, illuminance sensors, gas leakage detectors and wather station.

Integration of all protocols is a cost effective and uncomparably flexible solution.





## HOUSING DEVELOPMENT OR APARTMENT BUILDING

## LARGE OFFICE BUILDING, COMMERCIAL OR OFFICE COMPLEX

### INTEGRATION OF SEVERAL POPO CONTROLLERS

Large office building or commercial complex requires monitoring of all systems, data acquisition and storage, energy consumption analysis along with control and optimization of automation processes.

Popo Supervision and Management Center for integrated building installations is an intuitive graphical interface with access to all settings, subsystems and databases.

Central management of all functions is efficient and cost-effective.

Popo is based on real-time processes and can be managed and configured by many people at once.

System configuration is safely stored as a file with recovery option.

Configuration software allows copying and moving files that contain fragments or whole configuration.

Efficient programming tools greatly reduce time required for configuring your new installation and allow further changes without unnecessary effort.

### SYSTEM INTEGRATION



#### Centralization

Connect main controller to gain access to central building management system.



#### Database

System records and safely stores data from all building installations. Automatic backups can be shared between controllers.



#### Update system

System updates done quick, easily and imperceptibly.



#### Notification system

Integrated alarm system sends automatic notifications to you or other selected recipients.

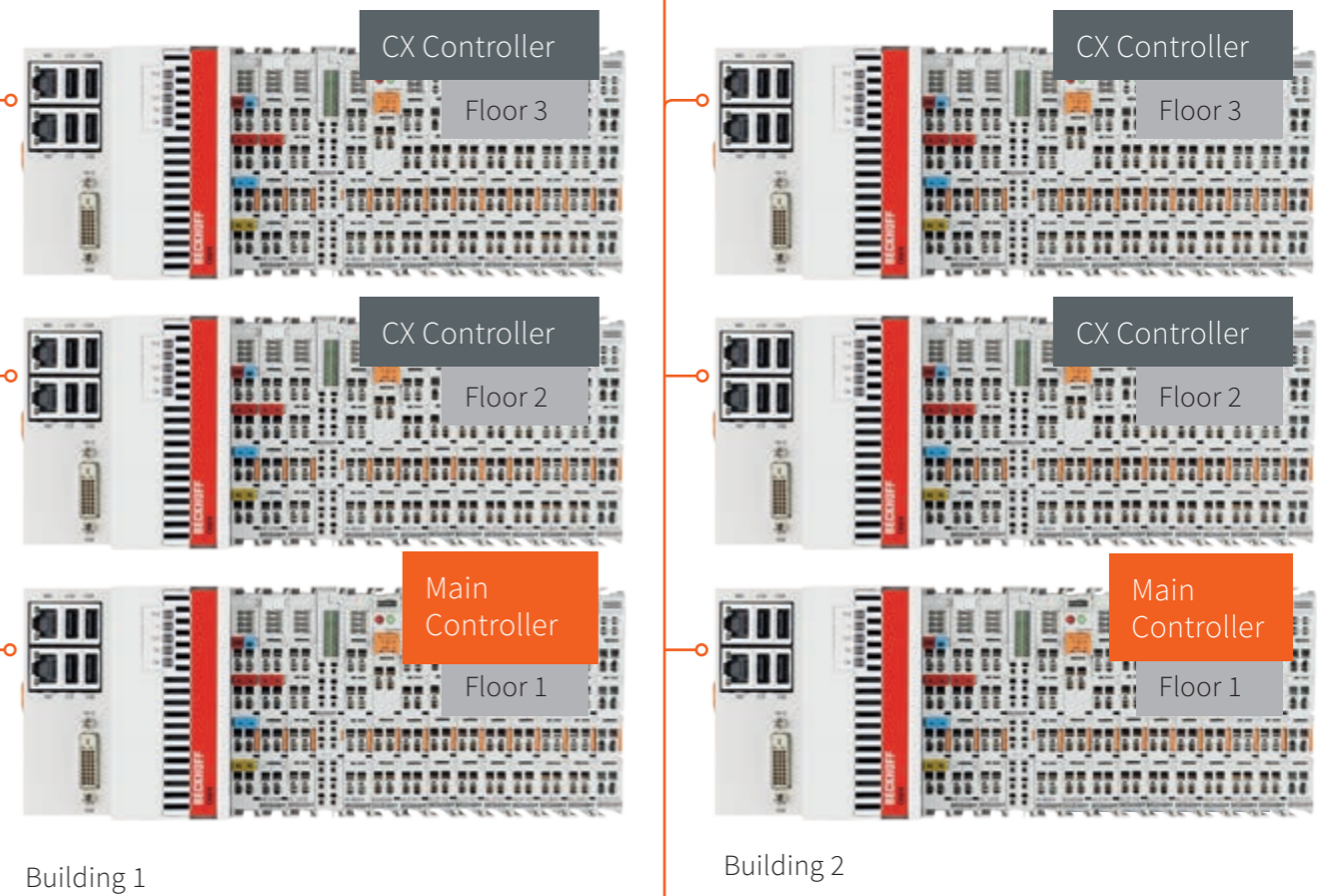
# CHOOSE SYSTEM COMPONENTS AND ARCHITECTURE, - WE WILL ADJUST IT TO THE BUILDING SIZE AND CHARACTER

Main controller-  
BECKHOFF or POPO



## DECENTRALISED AUTOMATION

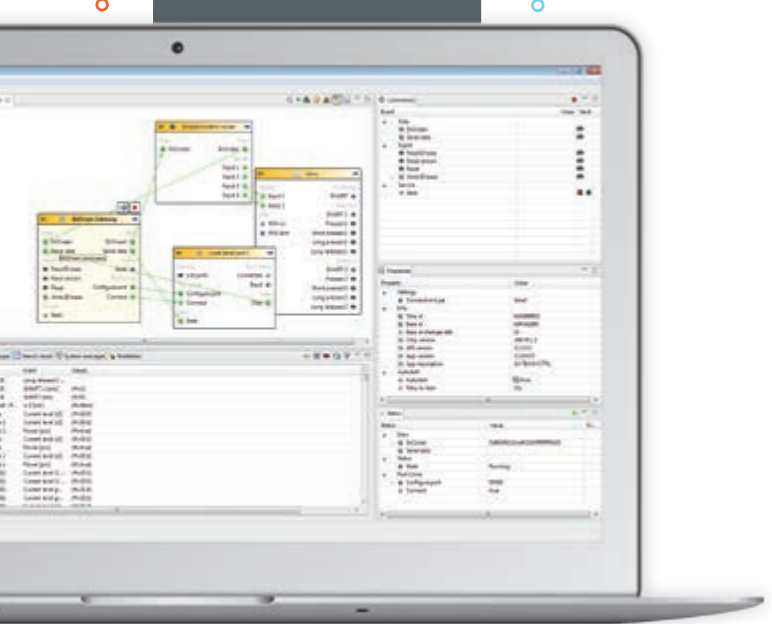
When a large number of separate systems is required. Local controller is placed in each zone. Every controller works independently, and communicates with main BECKHOFF or POPO controller.



TCP/IP

TCP/IP

Configuration software



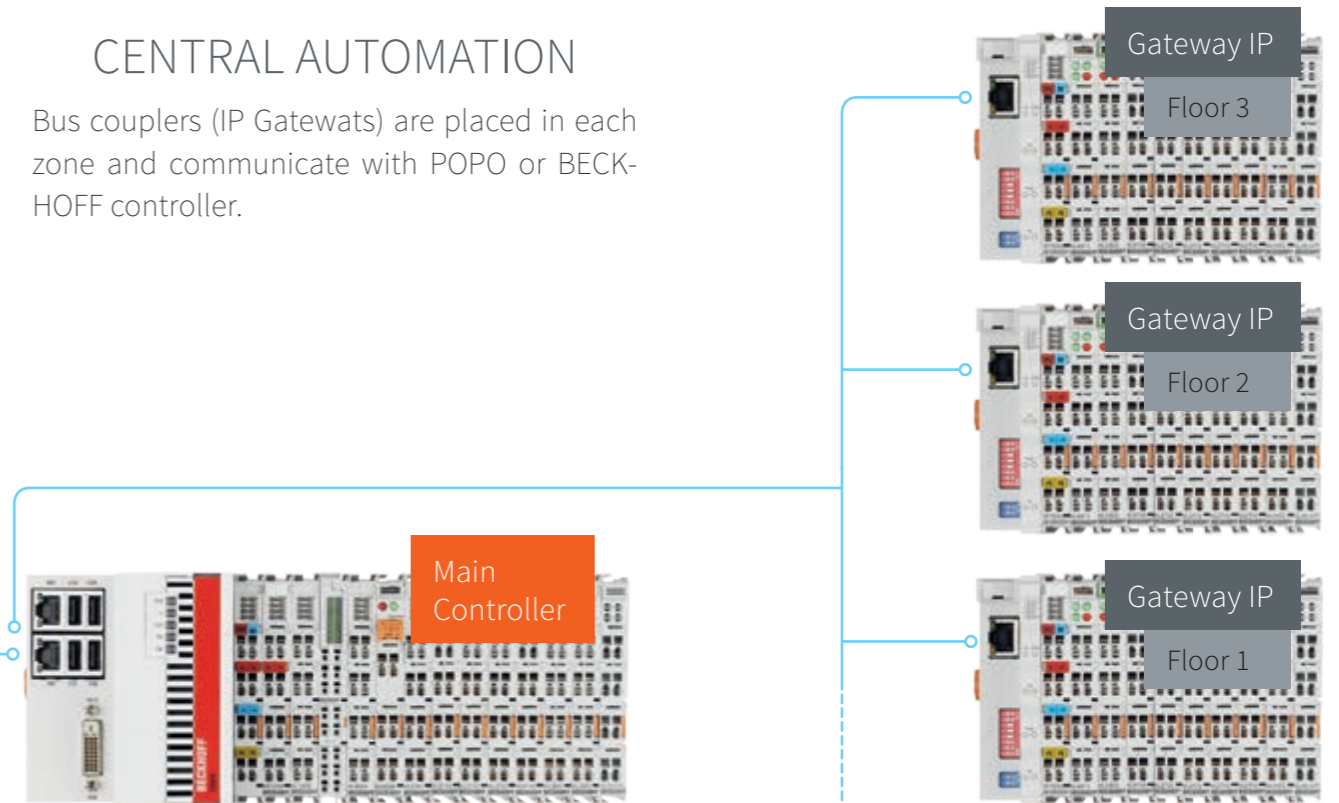
## FLEXIBILITY OF CHOICE CENTRAL OR DECENTRALISED AUTOMATION

Building automation design process can be approached in multiple ways, depending on current or future building structure.

Both central and decentralised automation allow unlimited configuration possibilities. Regardless of chosen topology our solutions consist of main Popo controller, which analyzes and processes data, subsequently presenting them through user-friendly software.

## CENTRAL AUTOMATION

Bus couplers (IP Gateways) are placed in each zone and communicate with POPO or BECKHOFF controller.





MAKES YOUR LIFE EASIER

**POPO** APP ALLOWS SIMPLE CONTROL OF COMPLEX PROCESSES IN HOME AND OFFICE

BEARING IN MIND THAT EVERYONE HAS A MOBILE DEVICE TODAY, WE DESIGNED OUR APPLICATION TO BE SIMPLE AND TRANSPARENT.

VISUALIZATION ALLOWS SUPERVISION AND CONTROL OF ALL FUNCTIONS IN EACH ROOM INDIVIDUALLY. CREATE SCHEDULES AND CALENDARS, MANAGE SCENES. ALL OF THIS SIMPLIFIES CUSTOMIZATION OF LIGHT, BLINDS AND TEMPERATURE SETTINGS.

ARM AND DISARM THE ALARM SYSTEM, ACCESS THE INDOOR AND OUTDOOR CAMERA STREAMS, ALL WITHIN OUR VISUALIZATION.

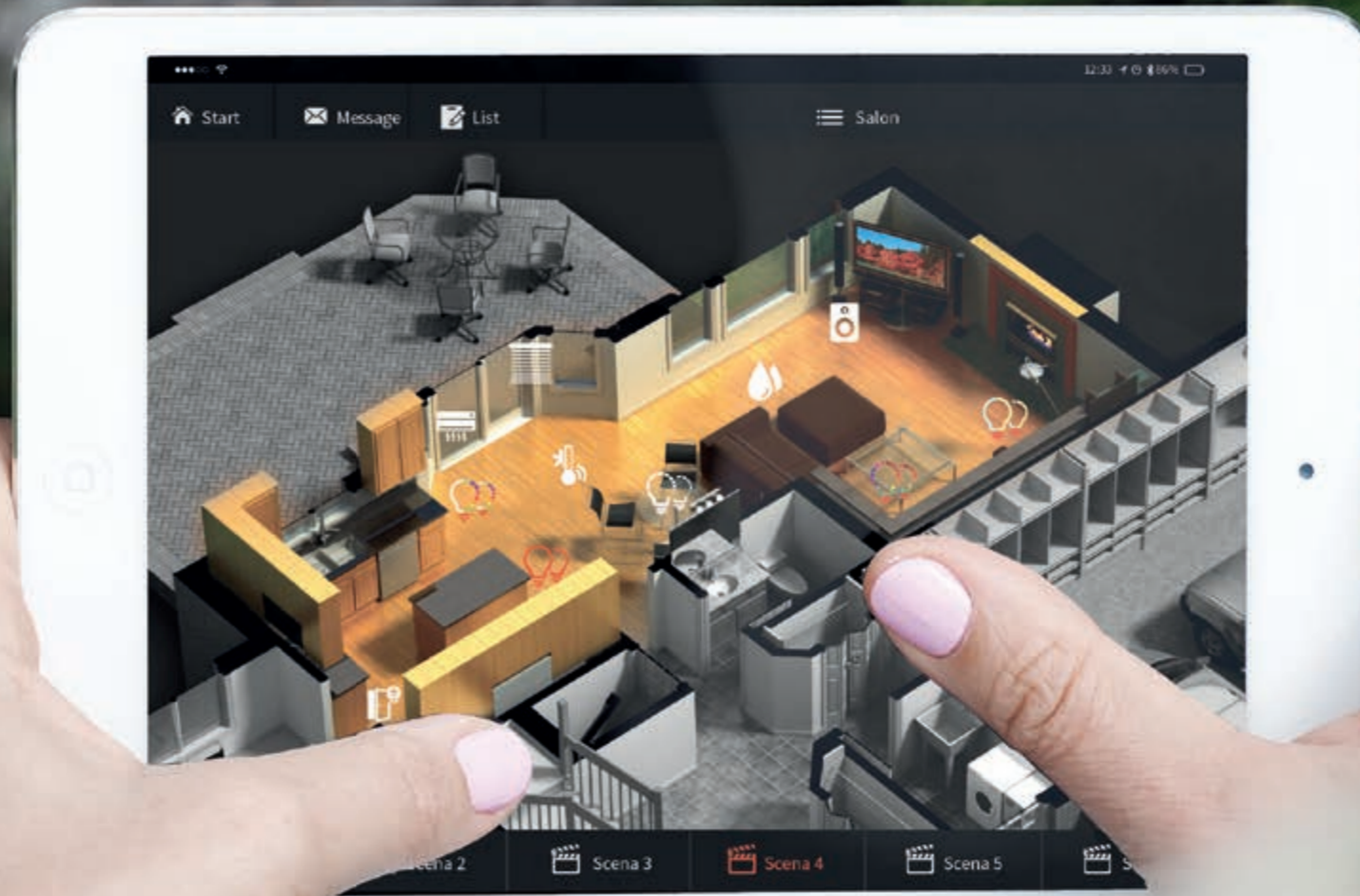
MAKE THE IMAGE AND SOUND PART OF YOUR SYSTEM, ACCESS ALL CONTENT OF YOUR MOVIES AND MUSIC LIBRARY, CONTROL AUDIO-VIDEO MULTIROOM WITH ONE APP

SAY NO TO LIMITS WITH  
**POPO APP**



ALL YOU NEED IS AN  
INTERNET CONNECTION

APPLICATION AVAILABLE  
ON MOBILE DEVICES  
AND COMPUTERS





## MOBLIE DEVICES IPAD, IPHONE

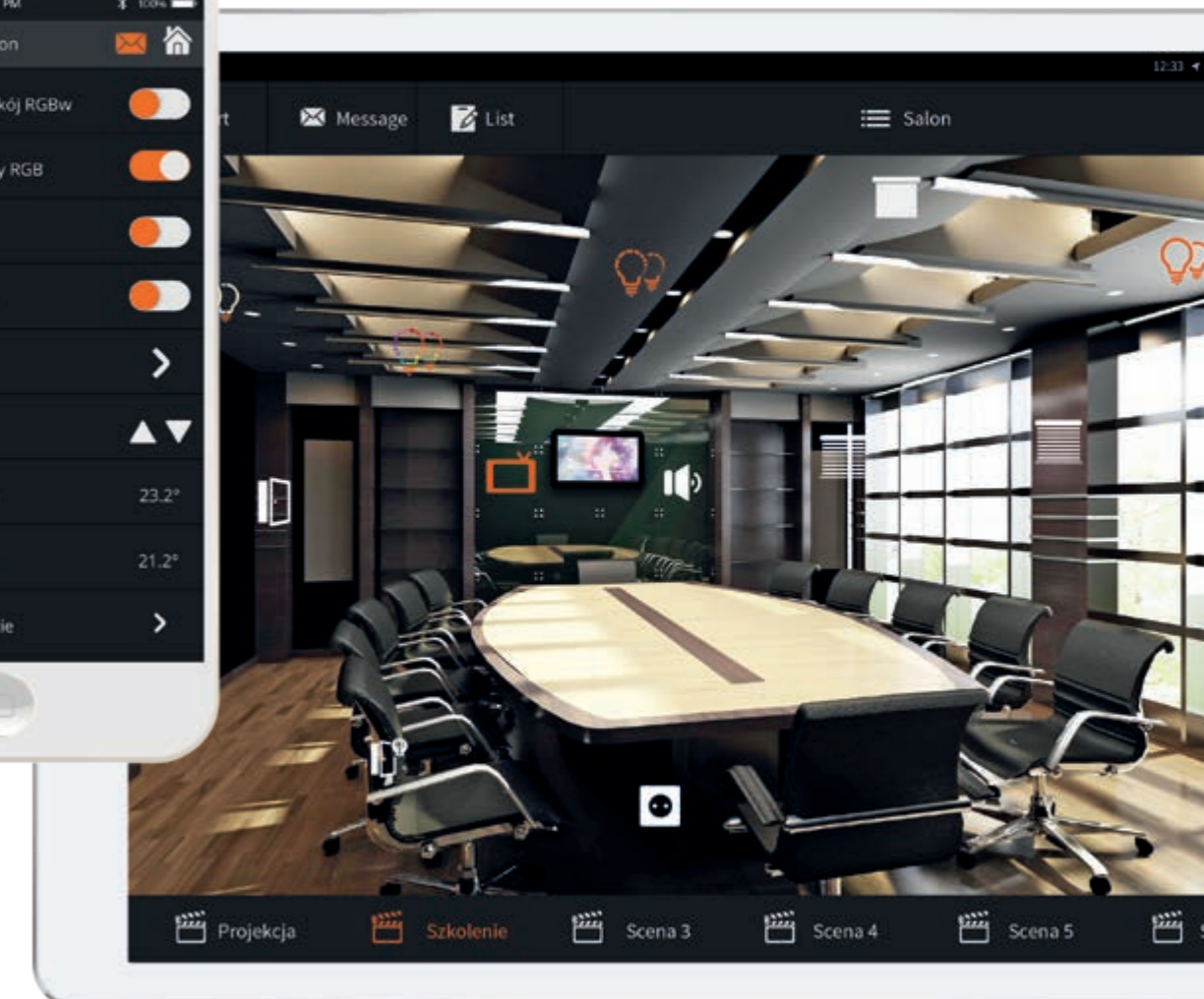
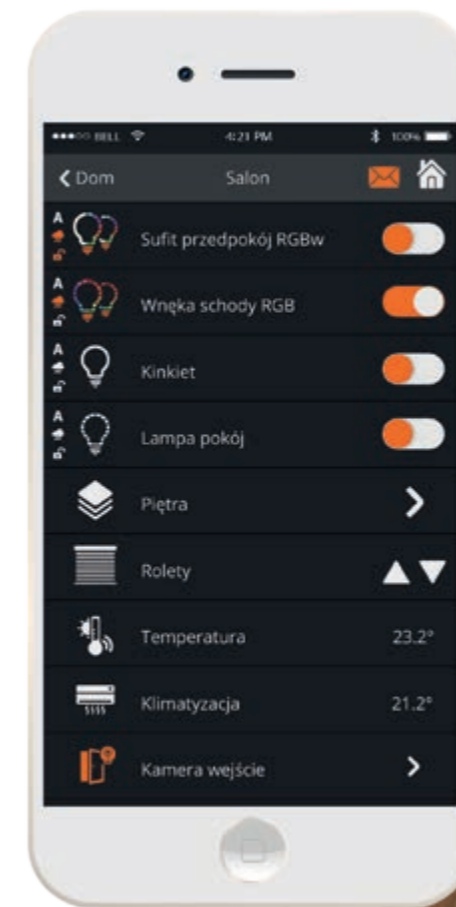
WE DEVELOP AND SUPPORT NEW TECHNOLOGIES, PROVIDING READY TO USE SOFTWARE FOR MANAGEMENT OF OUR AUTOMATION SYSTEM.

Supported by Apple ipad

Displaying maximum number of devices as icons on graphic of building or floor makes it easier to control

Access all functions via Apple iPhone

Smartphone is even more handy in constant monitoring of actual system status.





Multimedia

## MUTLIMEDIA

### MULTIROOM AUDIO-VIDEO

Audio-Video Multiroom is a unique system, which allows distribution of content from one source to many places. With this solution, it is possible to watch an image from selected sources independently in each room.

In short - audiovisual multiroom systems allow independent distribution of video and audio content to any room in home or office.

It can be integrated with automation system, which should give users complete freedom and convenience.

If you would like to watch a movie in the living room and finish it in the bedroom - multiroom system allows you such comfort.

### MULTIROOM AUDIO

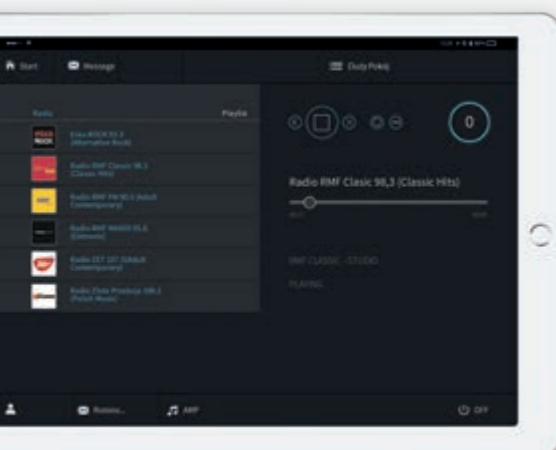
Comprehensive sound system for multiple rooms. You can listen to music from selected audio source in each room, for example : radio, TV sound, CD/DVD records or online stream. This is the way to keep your favourite music wherever you want.

Energetic sounds during morning wake up, Mozart in the living room, and relaxing music in the bedroom - all thanks to intelligent controll via smarthphone, tablet or special touch pannels.

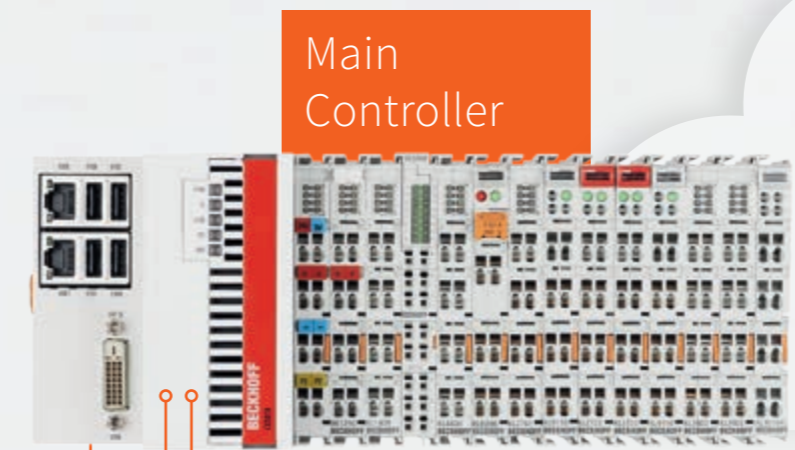
It is very simple and intuitive in use. You can also group rooms to make them play the same music, seamlessly synchronised.

<b>SONY</b>	<b>ONKYO</b>	<b>DENON</b>	<b>marantz</b>
<b>SONOS</b> THE WIRELESS HI-FI SYSTEM	<i>Sonus faber</i>	STEINWAY LYNGDORF	<b>KEF</b>
 ORIGINAL SPEAKERS	<i>Camasse</i>	AUDIOVECTOR	<b>T+A</b>
<b>Klipsch</b> KEEPERS OF THE SOUND	<b>TANNOY</b>	<i>amina</i> TECHNOLOGIES LTD	<b>ad notam</b>
 PRIMARE	<i>M</i> Middle Atlantic Products	future automation	AUTONOMIC

# AUDIO MULTIROOM ONE IDEA - MANY SOLUTIONS



Wireless  
visualization



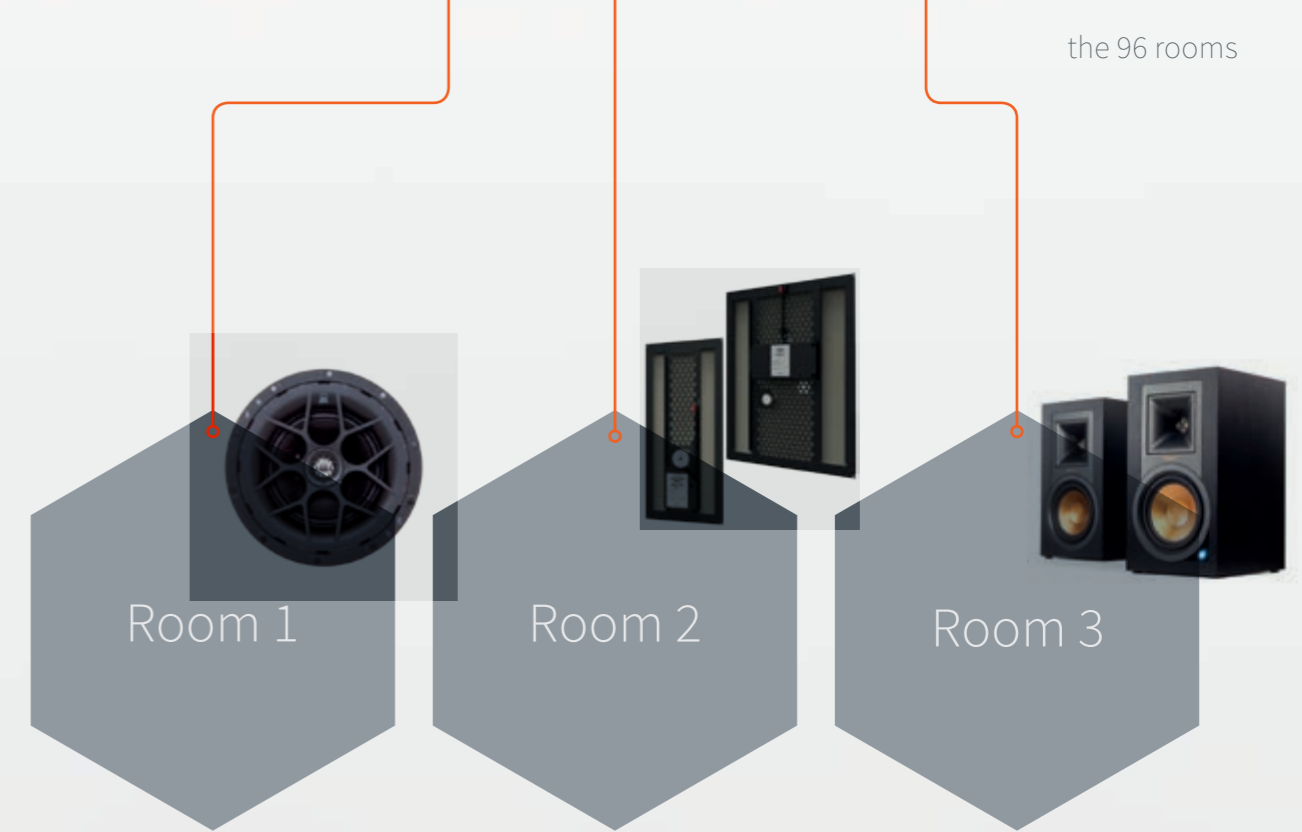
Main  
Controller

TCP/IP

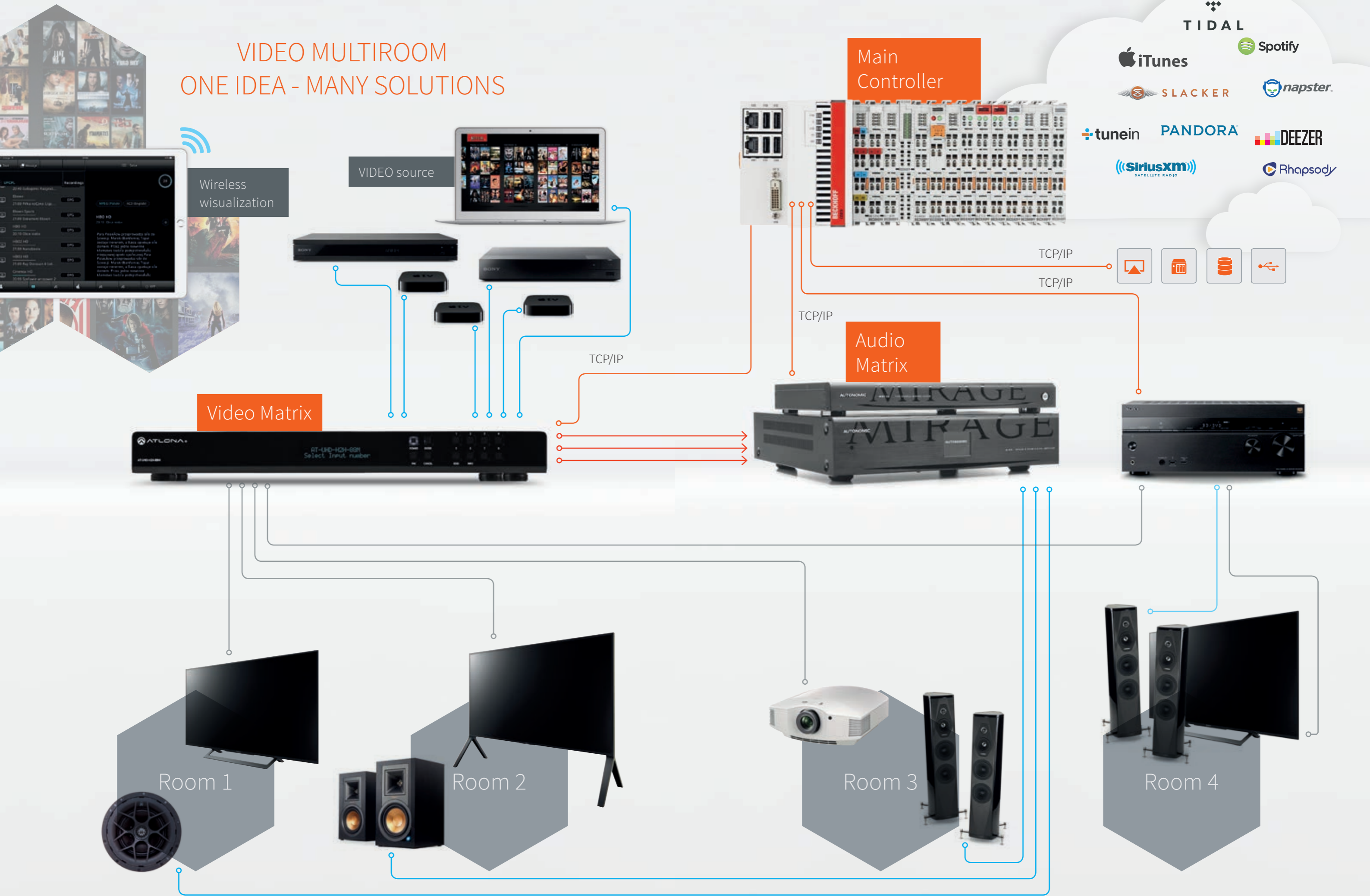
TCP/IP



Audio  
Matrix



# VIDEO MULTIROOM ONE IDEA - MANY SOLUTIONS



## O WSZYSTKO ZADBA APLIKACJA



## VIDEO INTERCOM

Automation system touchanel can work as a high class intercom. When someone rings your doorbell the camera view will be automatically activated. Touching call button will enable two-way voice communication.

### AUTOMATIC CAMERA VIEW ACTIVATION

Live view can be automatically activated on selected screen(s) when the security system detects a visitor or potentially unwanted/dangerous activity.

Detected events can automatically trigger alarm or other selected system operation

### MONITORING AND LIVE-VIEW SYSTEM

Access live view of your home remotely with indoor and outdoor cameras, view video stream on your smartphone and use night-vision cameras to see in the dark.

Popo can automatically store video clips of alarm-related events.

### REMOTE CONTROL

Manage your home automation system from wherever you want. Get remote access through app, sms, e-mail, rss and web browser.



# COMPREHENSIVE IMPLEMENTATION OF BUILDING INSTALLATIONS

(DESIGN, INSTALATION,  
START UP, SERVICE)

WE REALIZE PROJECTS IN COOPERATION  
WITH DESIGN OFFICES.



## SOURCE INT S.A.

SMART TECHNOLOGIES, SYSTEM  
AND DEVICES INTEGRATION BASED ON IT TOOLS,  
SUCH AS MOBILE APPLICATIONS,  
INTERNET OF THINGS (IOT)  
AND CLOUD SECURITY.

### MODERN BUISNESS SERVICES



Buisness  
process outsourcing  
(BPO)



Information technology  
outsourcing  
(ITD)



Reaserch & Developement  
(R&D)



Design and development  
of home management  
systems

### EXPANSION OF MOBILE SOLUTIONS



Websites



Online marketing



Search Engine Optimization  
(SEO)



Search Engine Marketing  
(SEM)



Social media



