



 **ELTEX SMART CONTROL**



# ADVANTAGES OF USING Z-WAVE TECHNOLOGY IN A SMART HOME

Ability not only to monitor but also to control the equipment

Providing with a complex solution for potential binding a subscriber and service monetizing

Wireless technology

The lifetime of battery in the sensor is 1-3 years

Standardized protocol

Device status monitoring

Large pool of sensors producers

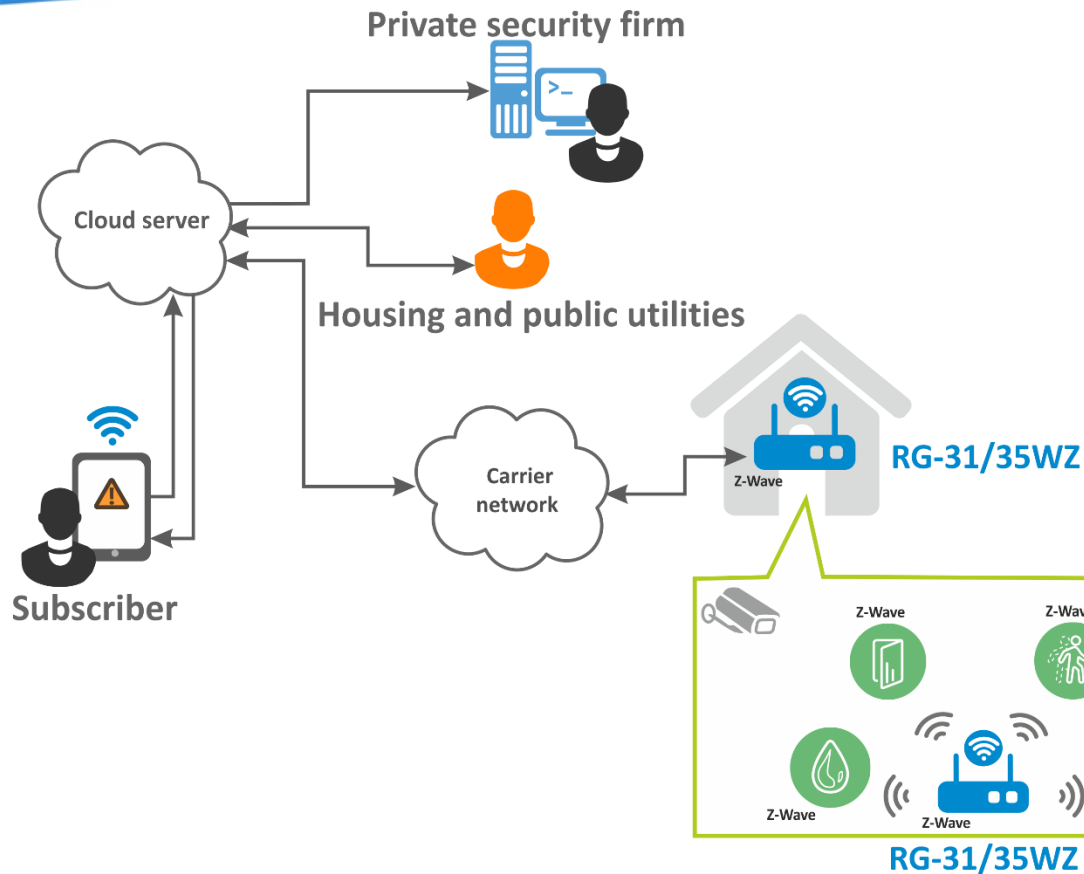
Price





# ELTEX-SC SOLUTION

## Principle solution diagram



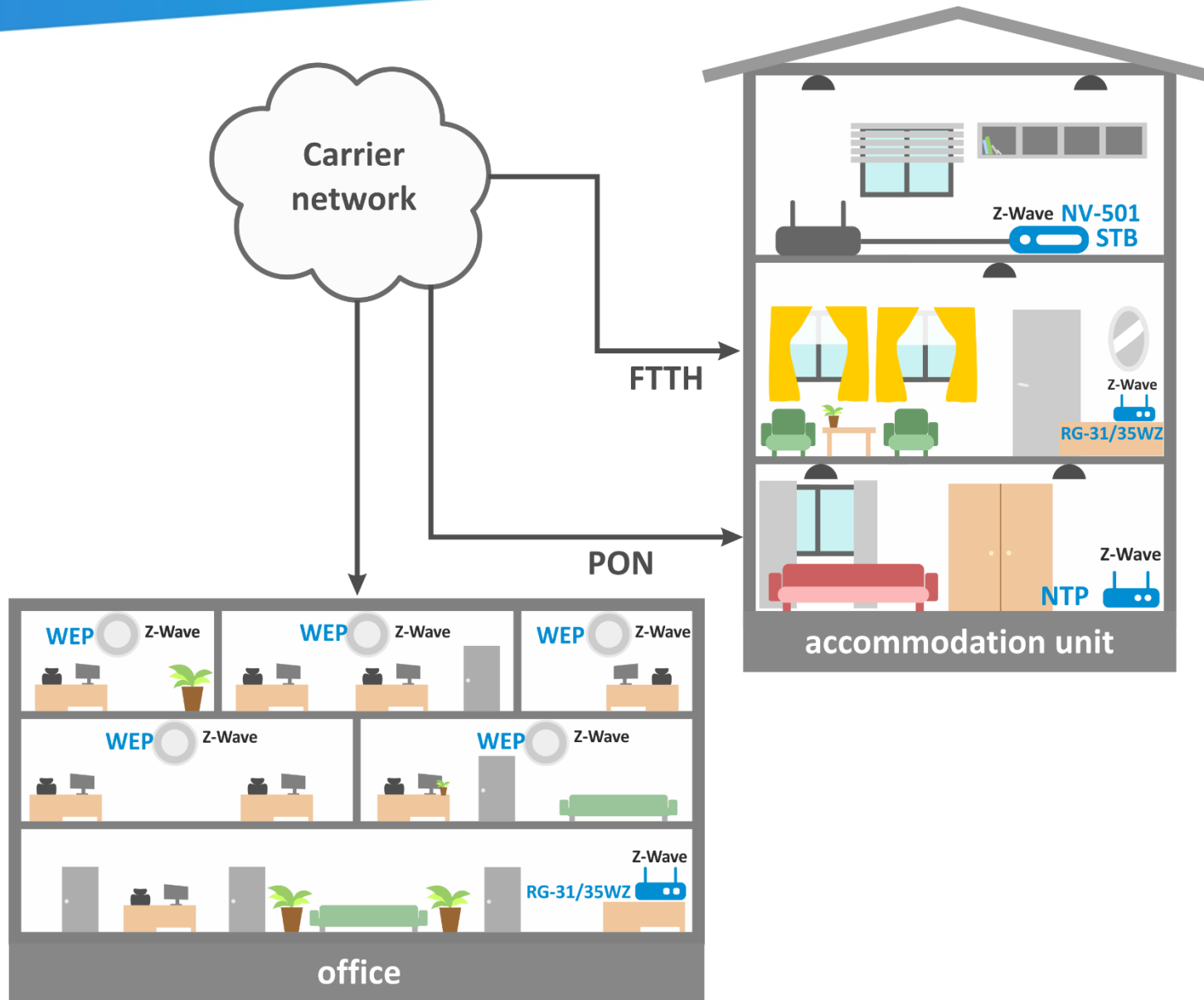
The diagram is implemented on **ELTEX** equipment with the use of **Z-Wave controller**, various **sensors** (motion sensors, smart switches, window/door opening detectors, temperature sensors, leak sensors, gas sensors, etc) and security cameras.

**CONTROL SYSTEM**, is a *cloud solution* which reflects:

- event logging;
- personal account;
- system of notification to both **PSF** and **Housing and public utilities**;
- push notifications in the smartphone app.



# REFIT OF ACCESS POINTS, HOME ROUTERS AND SET-TOP BOXES WITH Z-WAVE CONTROLLER





# SOLUTION FOR APARTMENTS

## EXECUTIVE DEVICES



Locks  
Z-wave



Smart sockets  
Z-wave



Light dimmers  
Z-wave



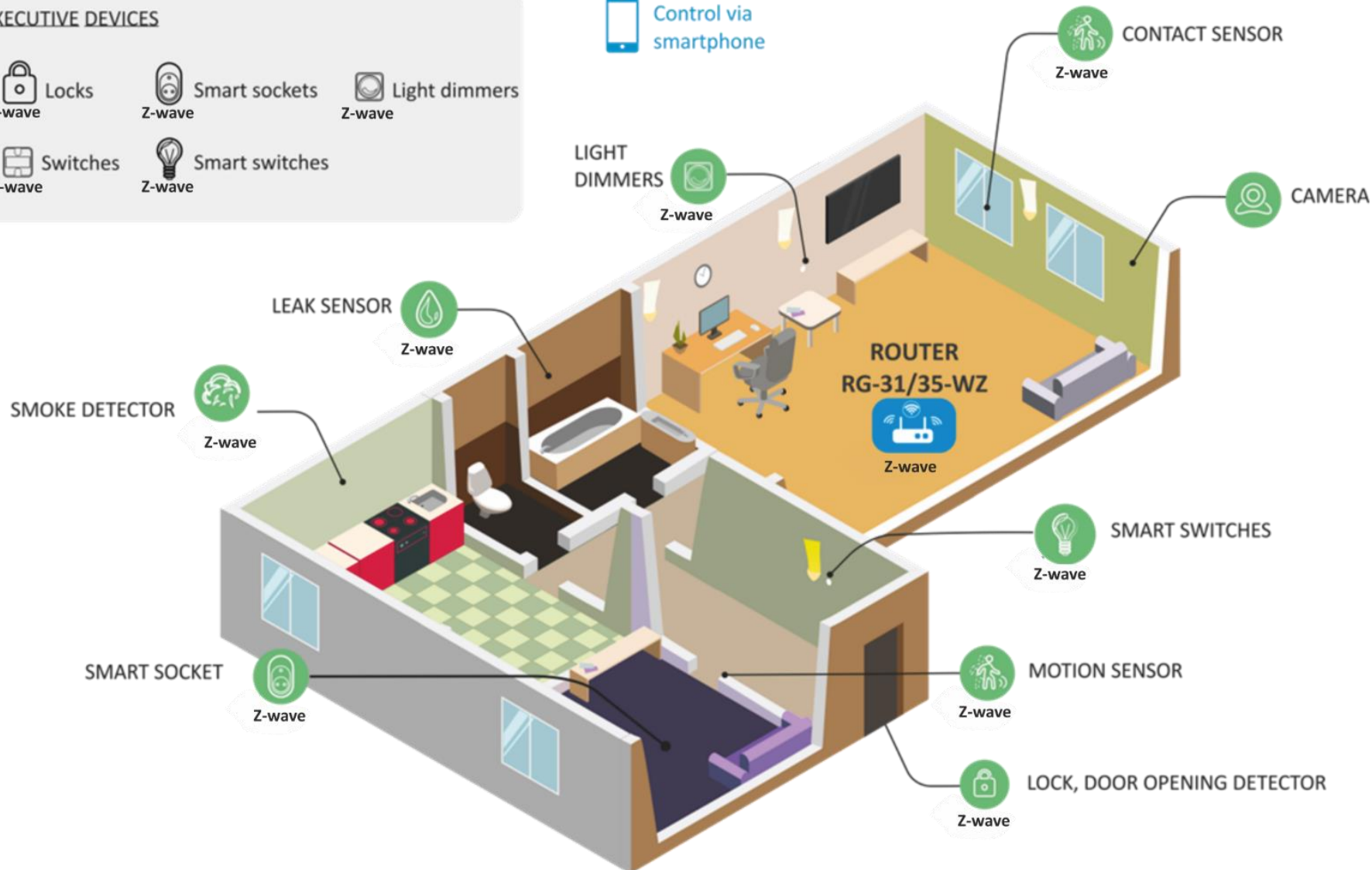
Switches  
Z-wave



Smart switches  
Z-wave

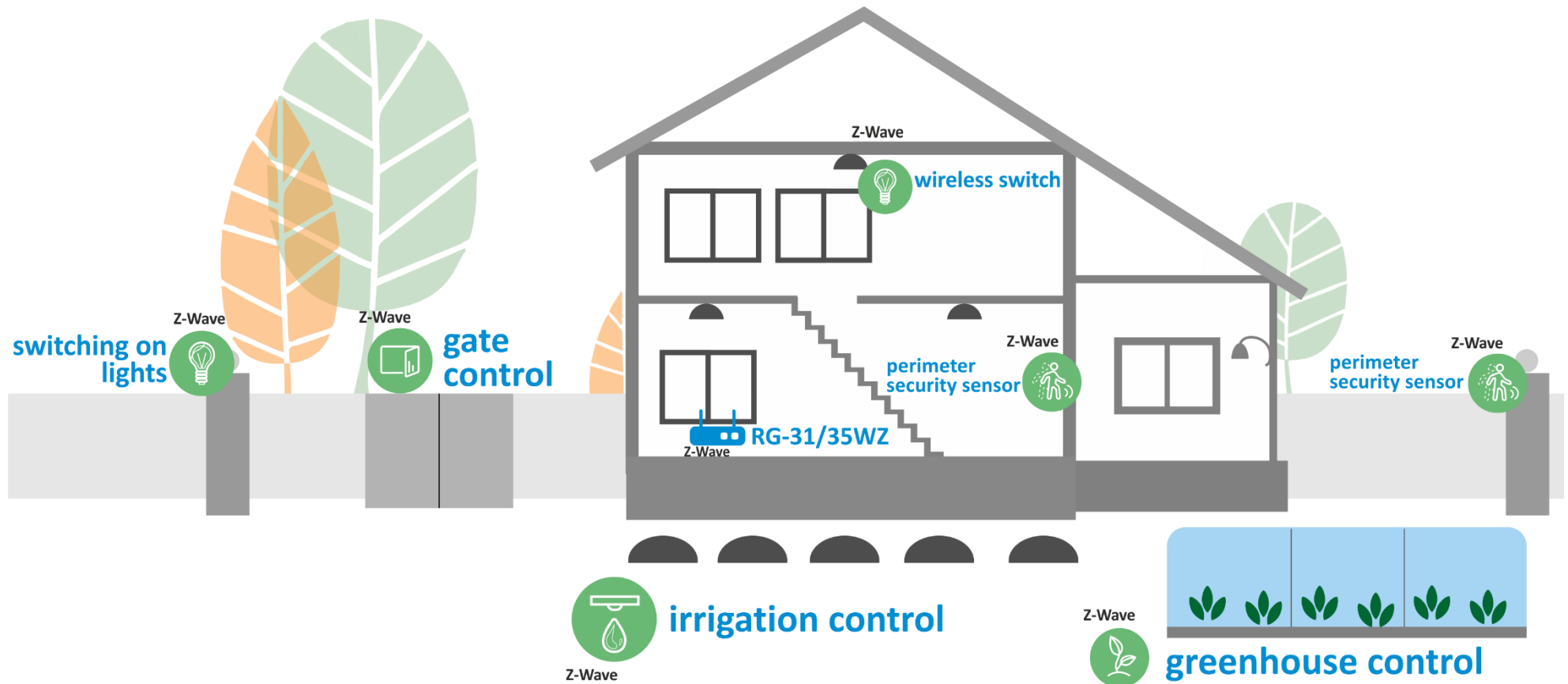


Control via  
smartphone



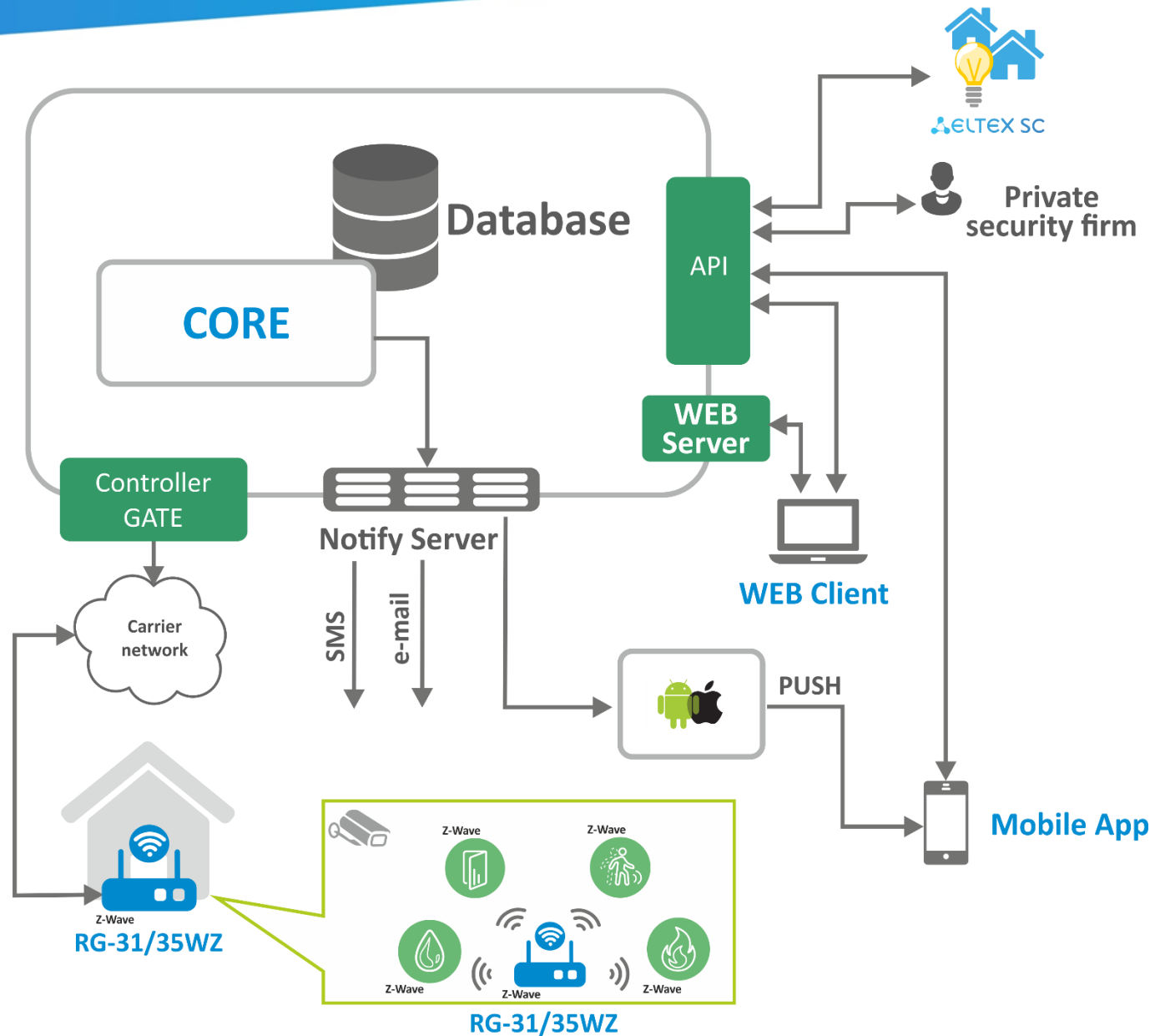


# SOLUTION FOR A DETACHED HOUSE



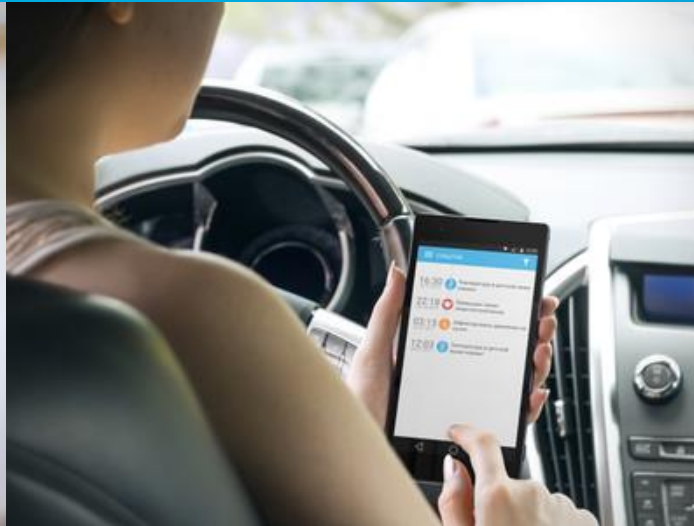


# STRUCTURAL DIAGRAM





## MOBILE APPLICATION



Mobile applications for  
main platforms  
(Android, iOS)



Receiving information about  
home condition through  
**PUSH** notifications



**User-friendly**  
interface



Ability to check the  
system status  
**whenever** it is  
convenient



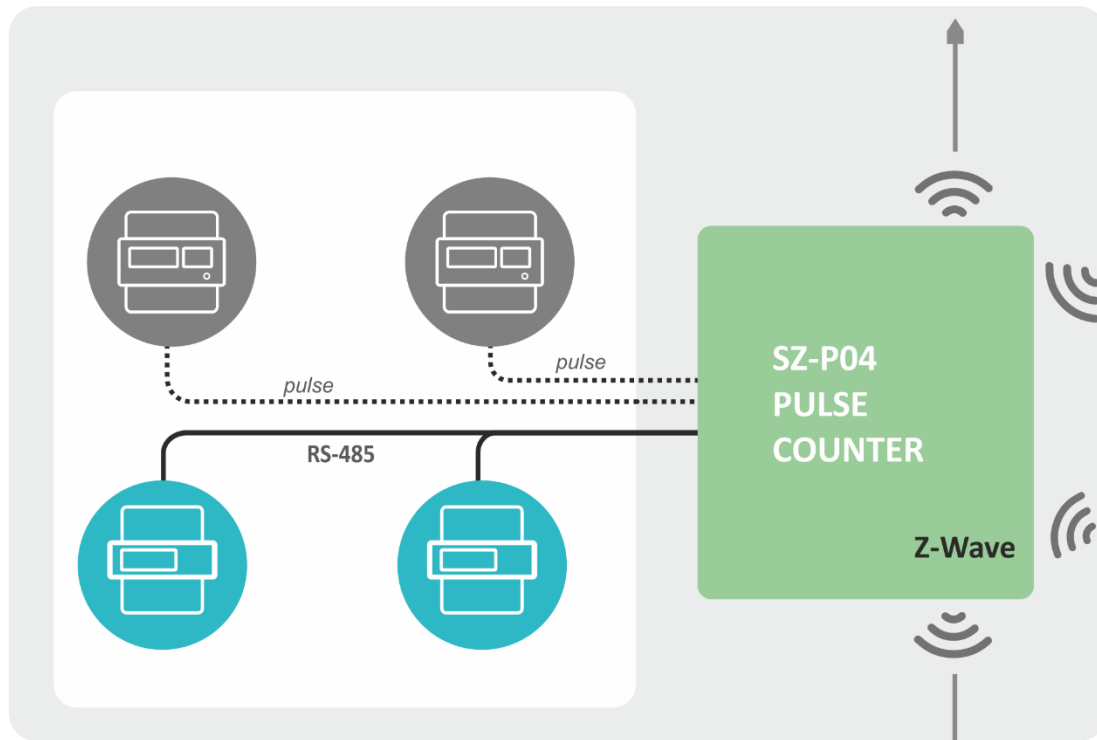
Ability to develop  
**customized**  
applications





# DIAGRAM OF COUNTERS CONNECTION ON A FLOOR

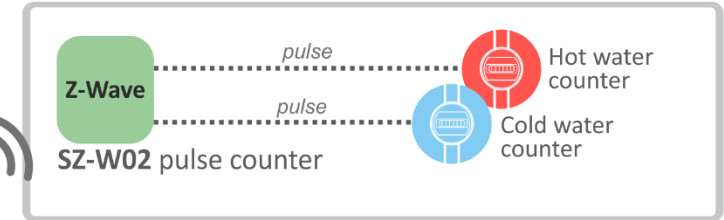
## Switchboard in an entrance hall



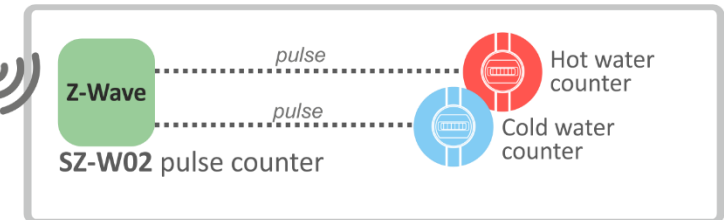
Energy meter with pulse output

Energy meter with digital RS-485 output and in-built relay for load shedding — Mercury 206 PRNO

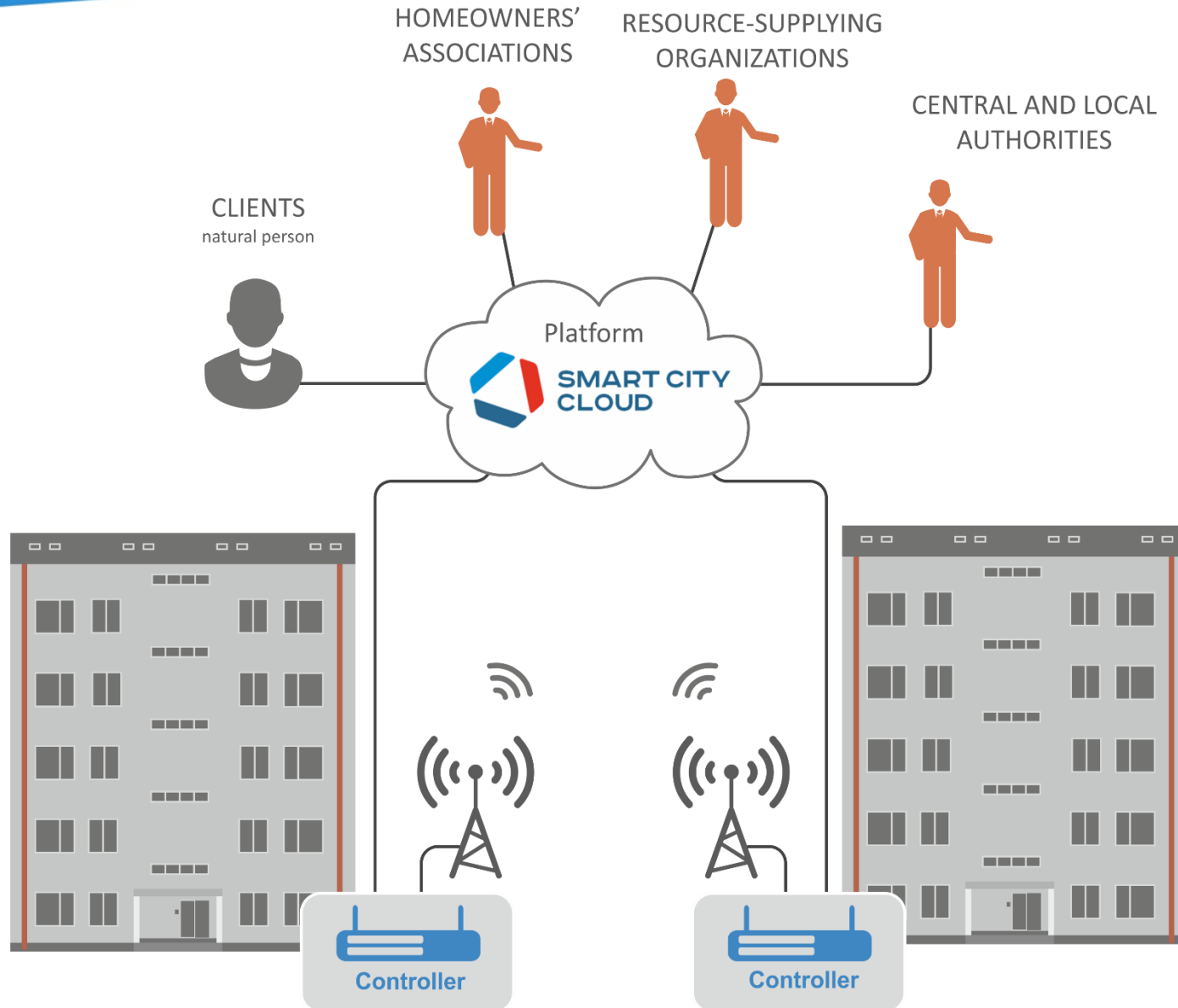
## Apartment 1



## Apartment X

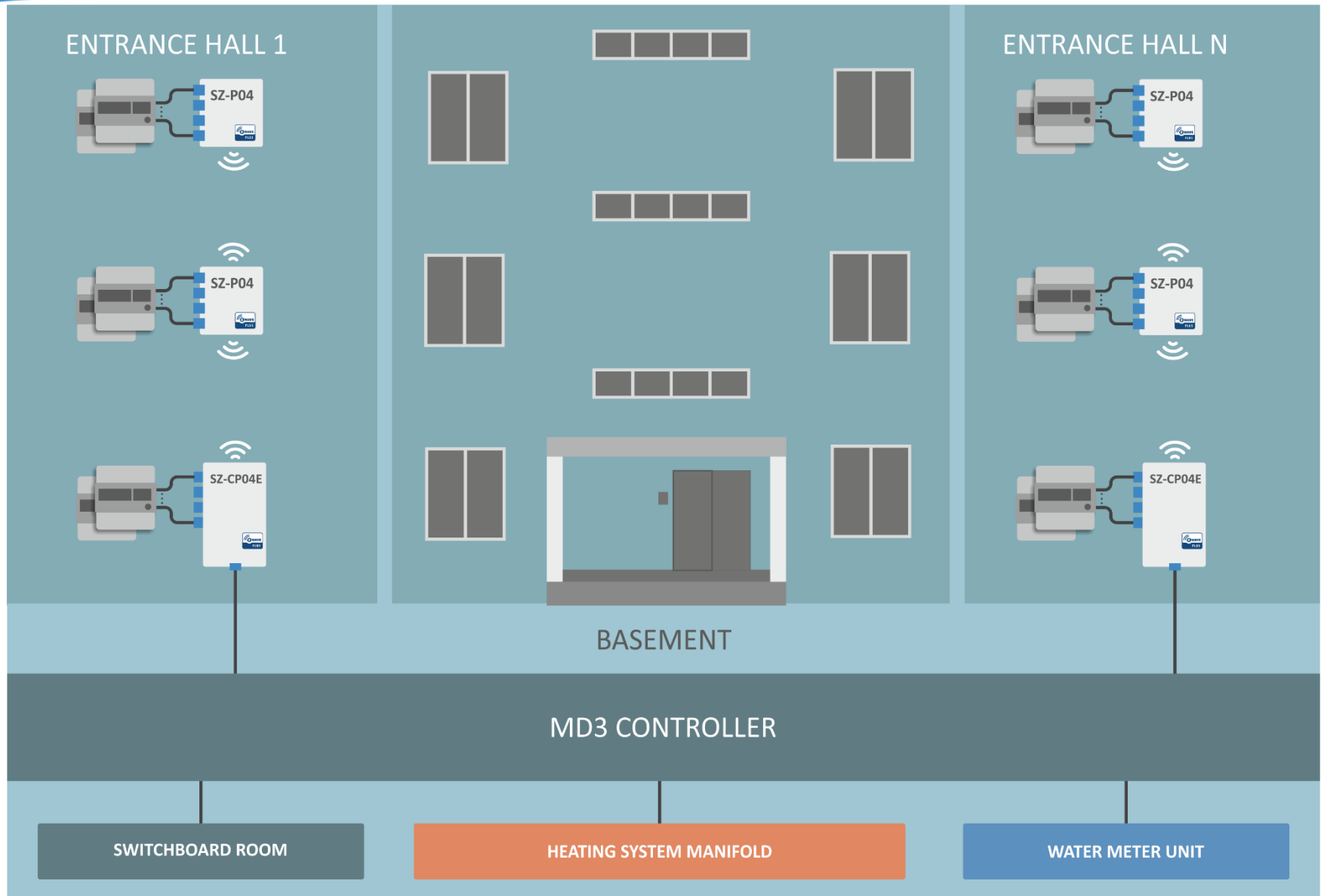


# COMMON SCHEME OF DATA COLLECTION



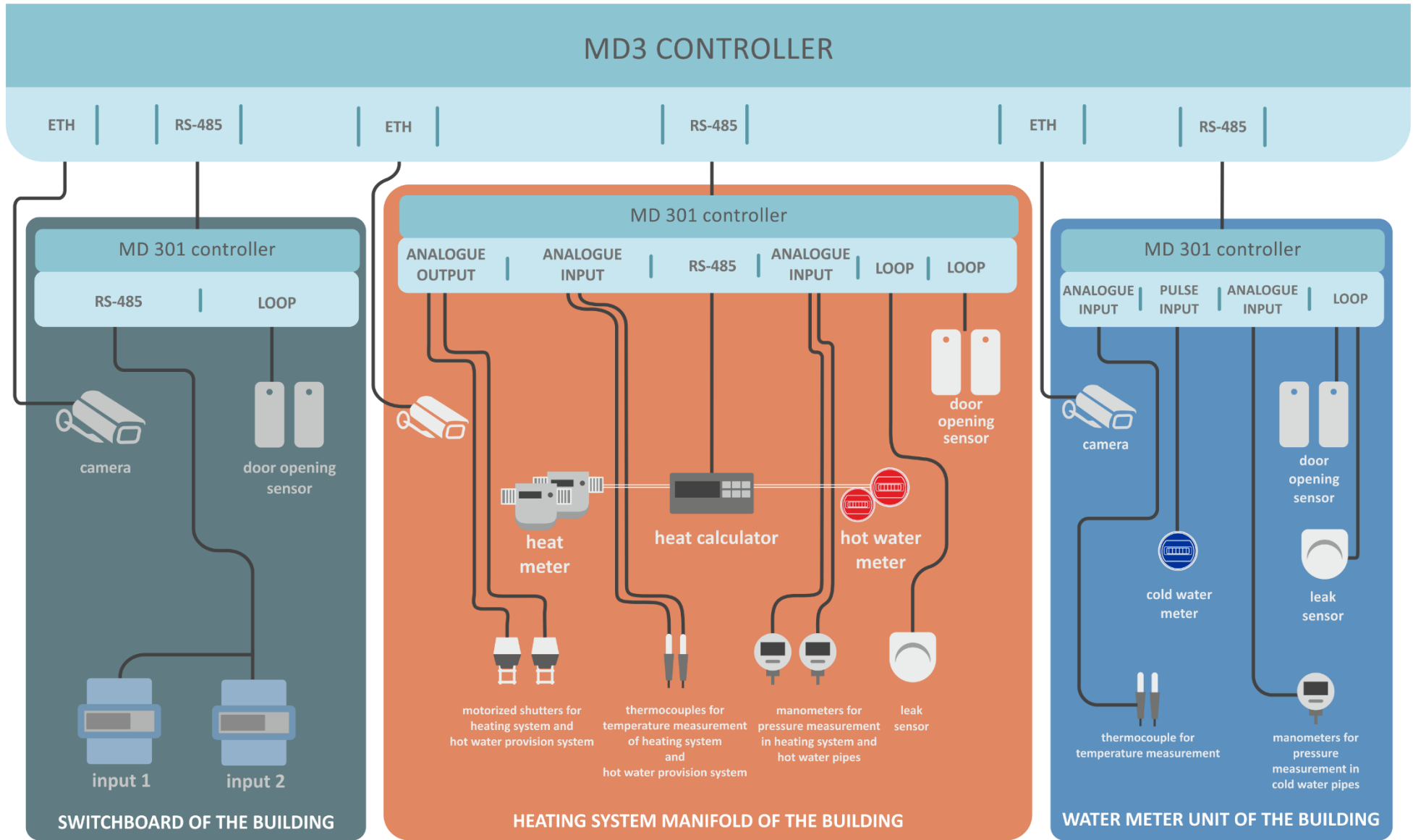


# COMMUNICATION DIAGRAM FOR AN APARTMENT HOUSE






# DIAGRAM OF BUILDING-LEVEL COUNTERS CONNECTION

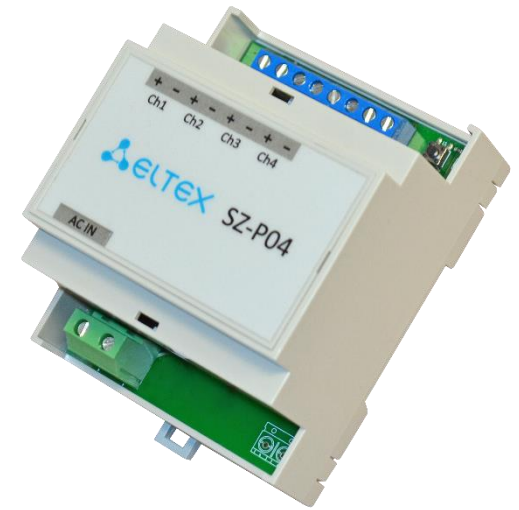




## SZ-CP04E AND SZ-P04 PULSE COUNTERS WITH Z-WAVE SUPPORT

### SZ-CP04E AND SZ-P04 PULSE COUNTERS PERFORM THE FOLLOWING FUNCTIONS:

- 
1. Counting of impulses received from the connected counters via pulse outputs or RS-485.
  2. Received data recording.




### OTHER FUNCTIONS OF SZ-CP04E:

1. Z-Wave network organization for SZ-P04 and SZ-W02 pulse counters.
2. Redundancy of Z-Wave network controllers.
3. Interaction with MD3 central controller via Ethernet or RS-485.

## SZ-W02 PULSE COUNTER PERFORMS THE FOLLOWING FUNCTIONS:



- 
1. Counting of the impulses received from water meters via pulse outputs.
  2. Received data recording.
  3. Data transmission to SZ-CP04E by schedule, as the device is battery-powered.



## KEY BENEFITS

# SERVICES (PROPERTY MANAGEMENT COMPANIES/HOUSING CO-OPS/RESOURCE-SUPPLYING ORGANIZATIONS/CENTRAL AND LOCAL AUTHORITIES)

### The equipment usage will provide:

1. Commercial accounting of resource consumption (door-to-door, house-to-house);
2. Interconnection of different accounting systems in a common interface;
3. Supervisory control of operating and status parameters of executive devices;
4. Report making;
5. Monitoring emergencies with automatic notification.

### Advantages of using the system:

1. Online control over the process conditions of objects;
2. Ability to instantly detect an emergency;
3. Reducing labor costs by eliminating human factor;
4. Support for various types of executive and metering devices having standard communication interfaces;
5. Simplified control over resource consumption in property management companies and housing co-ops;
6. Energy loss saving;
7. Validity of the meters reading;
8. Effectiveness of mutual exchanges between resource suppliers and consumers;
9. Brigade and dispatch labor saving.

## CARRIER

### The equipment usage will provide:



Expanded range of services



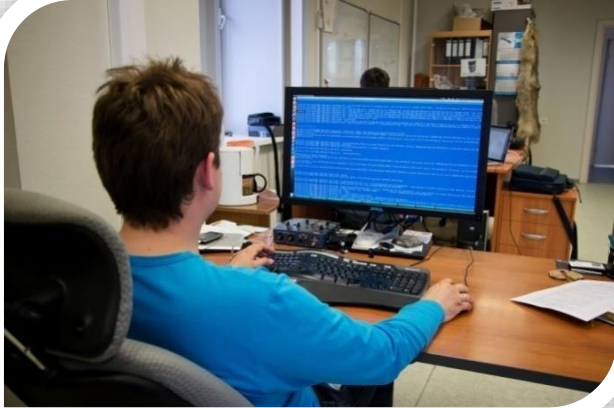
Increased competitiveness



Increased revenue



## KEY BENEFITS OF WORKING WITH ELTEX



### FREE TESTING



### EXPERT ASSISTANCE

- when testing, implementation of the project and exploitation
- ability to develop the required functionality for individual needs








# THANK YOU FOR YOUR ATTENTION!

Our contacts:

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