RUBICON

BMS

Presents

Smart Building Solutions

Company Solutions

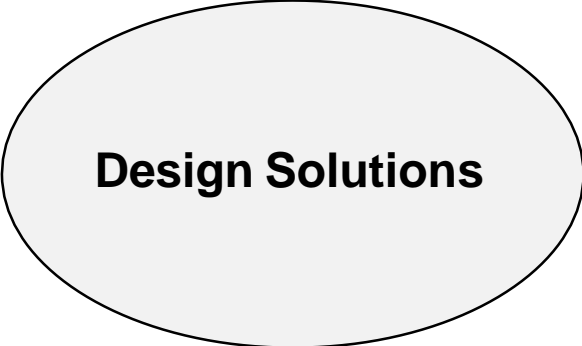## Smart Solutions

- Smart Buildings
- Audio Visual
- Smart Hotels
- Resource Management
- Smart Homes
- Sensors

Lighting

- Architectural
- Commercial
- Retail
- LED

Switches

- Berker
- Gewiss
- Hager
- Teleco
- Legrand

Design Solutions

BMS System & Services

Hardware & Software:

System Software

System OS

System manager

System database

System visualisation

System Hardware

Beckhoff

Zennio

Services:

24Hr standby teams

Training

Custom driver development

Installation/commissioning/termination

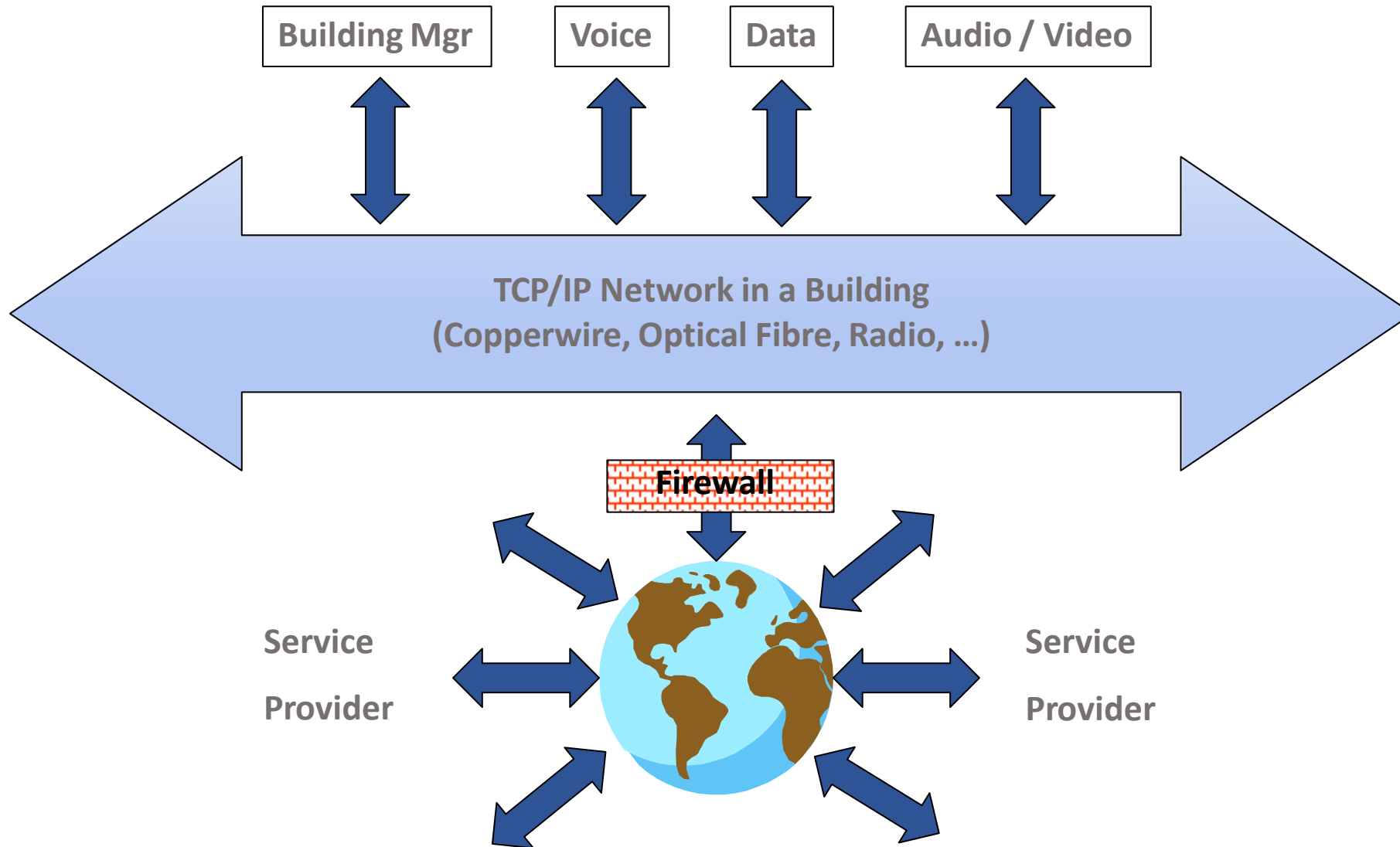**Service Contracts**

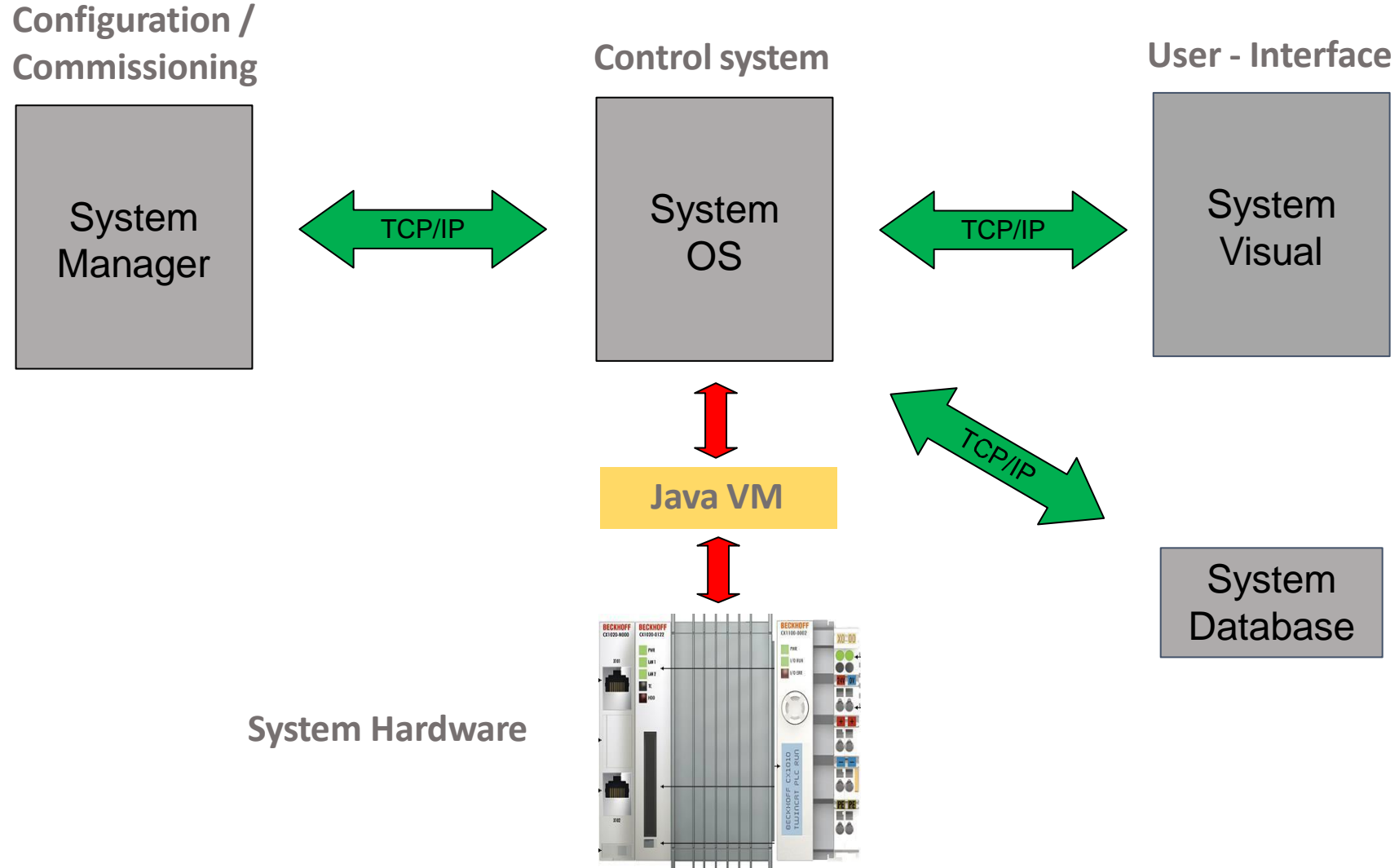System integrators 12

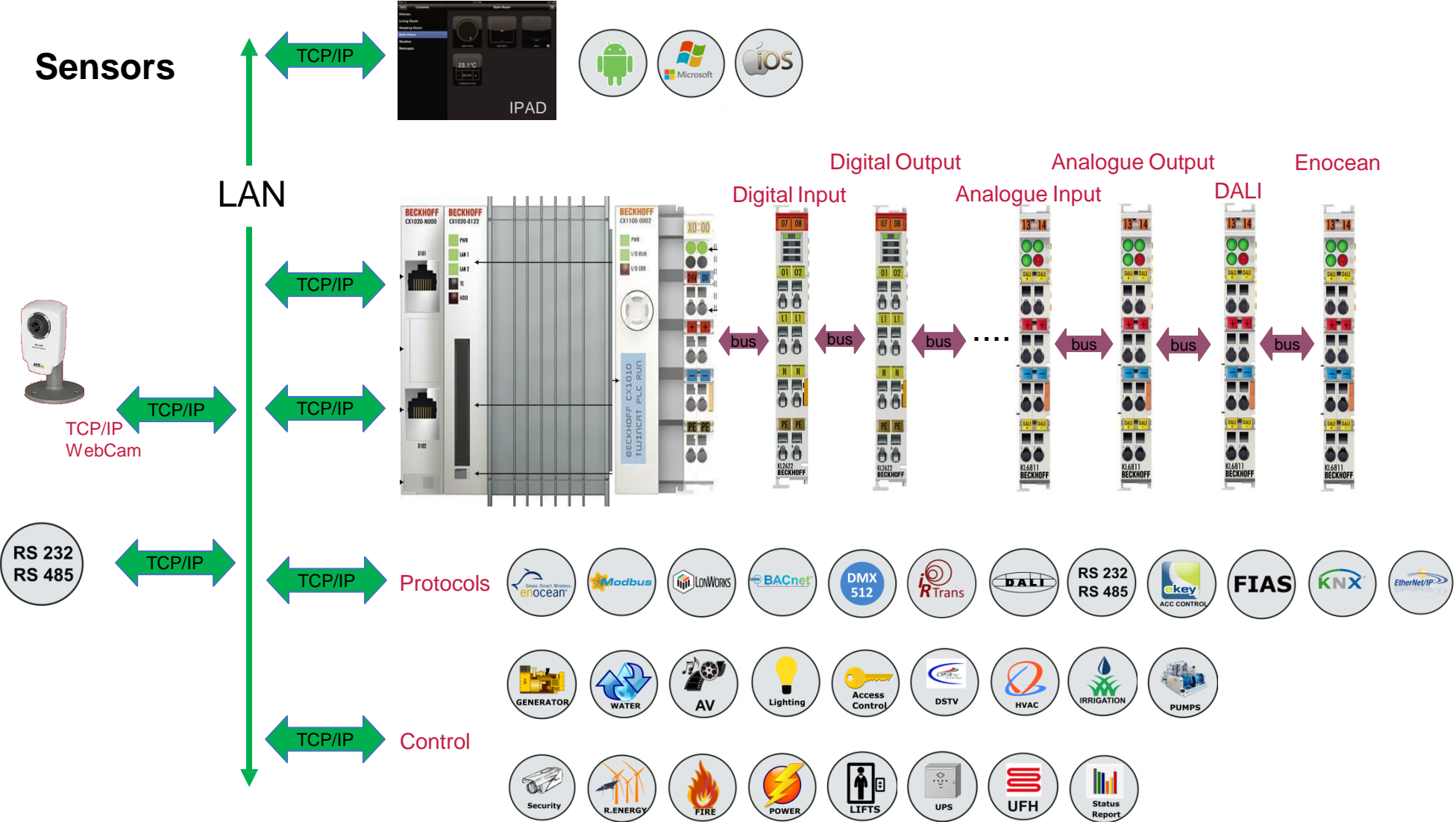| Customers | Customers | Customers | Customers |

Networking over TCP/IP

The „Operating System" for intelligent buildings

Configuration / Commissioning

Control system

User - Interface

System Manager ⟷ *TCP/IP* ⟷ System OS ⟷ *TCP/IP* ⟷ System Visual

Java VM

⟷ *TCP/IP* ⟷ System Database

System Hardware

System Topology

Sensors

LAN

TCP/IP

IPAD

Digital Output
Digital Input

Analogue Output
Analogue Input

DALI

Enocean

TCP/IP

TCP/IP

TCP/IP
WebCam

TCP/IP

bus   bus   bus ····   bus   bus   bus

RS 232
RS 485

TCP/IP

TCP/IP   Protocols

enocean   Modbus   LonWorks   BACnet   DMX 512   IR Trans   DALI   RS 232 RS 485   ekey ACC CONTROL   FIAS   KNX   EtherNet/IP

GENERATOR   WATER   AV   Lighting   Access Control   DSTV   HVAC   IRRIGATION   PUMPS

TCP/IP   Control

Security   R.ENERGY   FIRE   POWER   LIFTS   UPS   UFH   Status Report

Topology Continued

Managing Server

**To Main Controller** ← TCP/IP

LAN
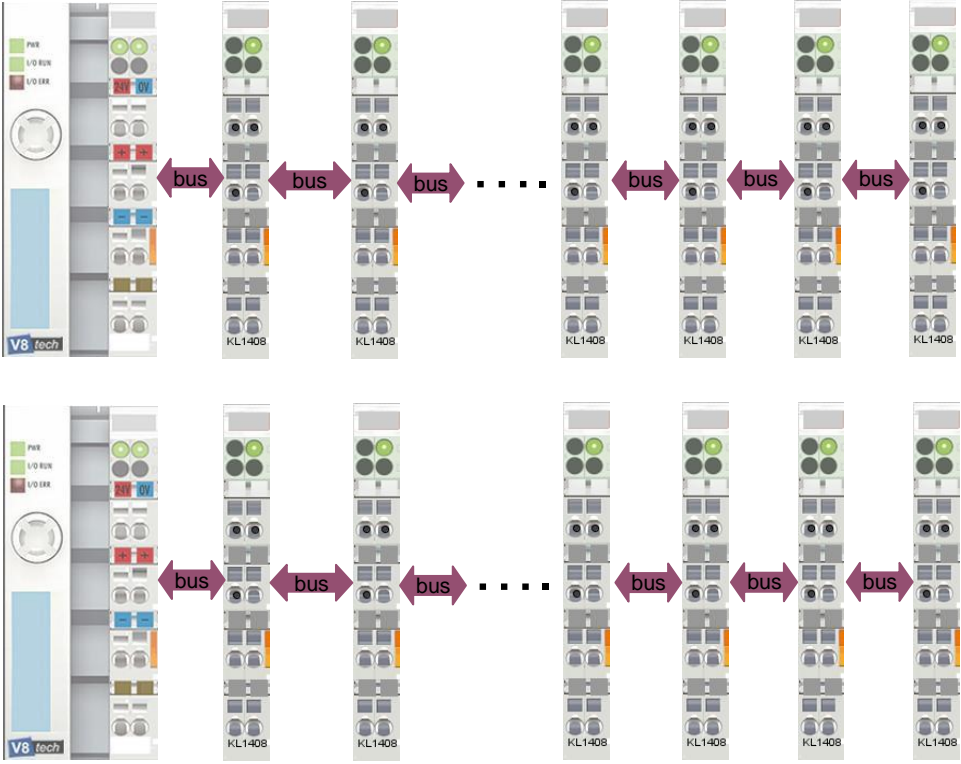
TCP/IP

TCP/IP

System Manager - Advantages

- Based on IT – Standards (Java, XML, TCP/IP)

- Performant and resource saving code

- Device independent

- Scalable (adaptable to each building size)

- Connects different worlds (housing technology, consumer electronics, informatics, telecommunication, …)

- Updatable and remote adaptable

- All important functions (timer, logic blocks, sequences, visualisations) integrated by default

- Open interfaces to connect 3rd party products/protocols

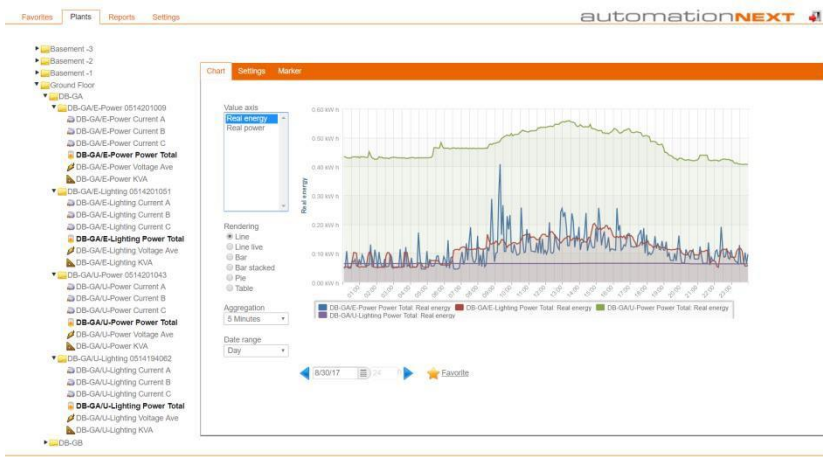- Multiple System Integrators can commission simultaneously

Building Maintenance and Reporting

- Via our software we can provide you with the ultimate solution

- Power consumption

- Status reports

- Reports can be made automatically via email to the administrator

- Assignment of new requirements, remote or local

- Other devices monitoring

- Other Systems reports and monitoring

- Staff monitoring

- Access control

- Lamp failures

- Lamp life monitoring

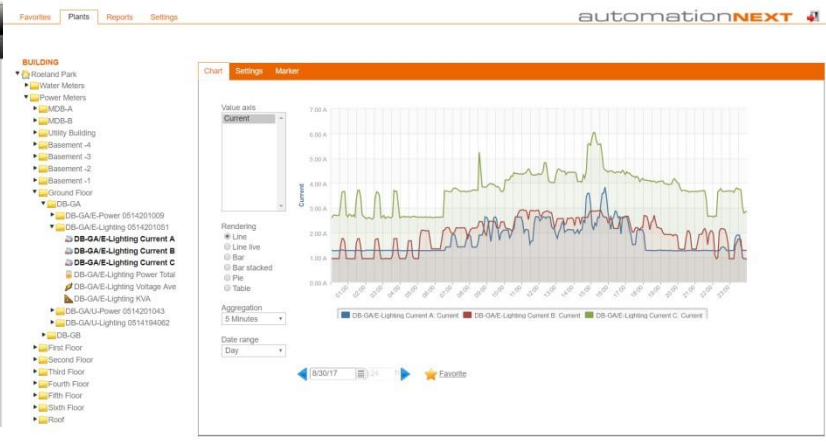- Ethernet real time monitoring of events
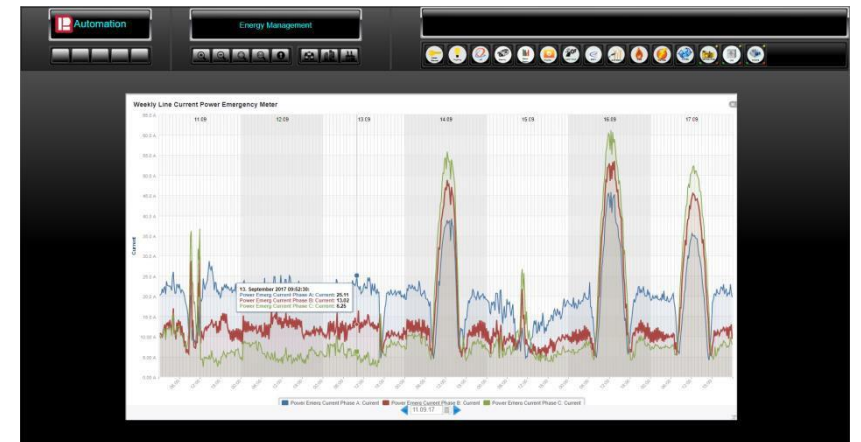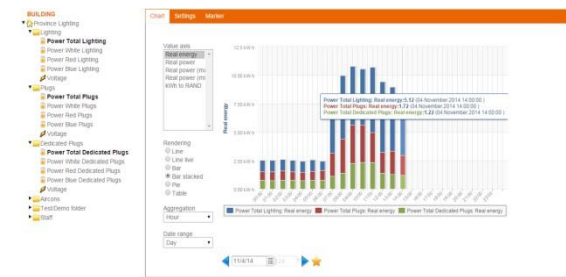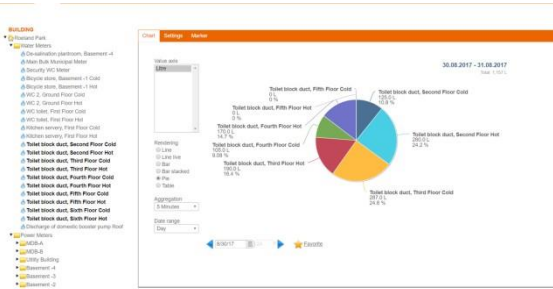
Now you can....

- Effectively monitor

- Orchestrate

- Automate and optimise the operation of all the systems in your building to reduce energy use and costs.

- Analyze and aggregate loads

- Benchmark facilities and determine how building characteristics such as size, equipment type, schedules and climate correlate with energy.

Real Time Control

- Unfavourable peaks are avoided with alarming and automated load shedding activities.

- With day-ahead or real-time pricing signals introduced, you can make strategic production decisions based on economic conditions.

Complete BMS

Configuration software
System manager

System Visualization
- Cell phone
- PC Screens
- Tablets
- Touch-Panel

Hardware Bus systems
- UPS
- Fire Panel
- Blinds
- Lighting
- Weather station
- Modbus
- BACnet
- DALI
- Motion sensors
- EtherCAT
- KNX
- Switches
- FIAS
- EnOcean
- DMX
- Solar & Wind Turbines
- Samsung DMS
- Wago
- Access Control
- HVAC
- Power & Water Consumption

System OS

Local Network Or internet

TCP/IP RS 232/485

TCP/IP RS 232/485

Messaging
- SMS
- E-mail
- RSS

Devices
- Alarm system
- TCP/IP camera
- Biometric access
- RFID access
- Media devices
- Multi room
- Temp

System Database
- Events
- Energy Consumption
- Statistics evaluation
- Device supervision