SYXTHSENSE

FDX Home Automation System
Case Study: Domux

SyxthSense Ltd
3 Topsham Units
Exeter EX3 0QH

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Home Automation

”Home Automation Systems elevate the effectiveness of the heating-, lighting-, control-, alarm- and ventilation-systems in residential buildings with automated steering mechanisms and programmable settings.

In most cases, Home Automation Systems seek to combine all of these processes into one, easily managable and controllable system.”

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Home Automation targets and features

- Monitor, analyse and improve energy-efficiency
  - Electricity consumption
  - Water consumption
  - Room controlled temperature settings
  - Ventilation
  - Status outputs (at home / away)
- Augment personal comfort
  - Ventilation and temperature control
- Elevate the safety-level
  - (De)activate wall sockets according to the defined statuses (at home / away)
  - Intrusion-detection systems
  - Smoke detection systems

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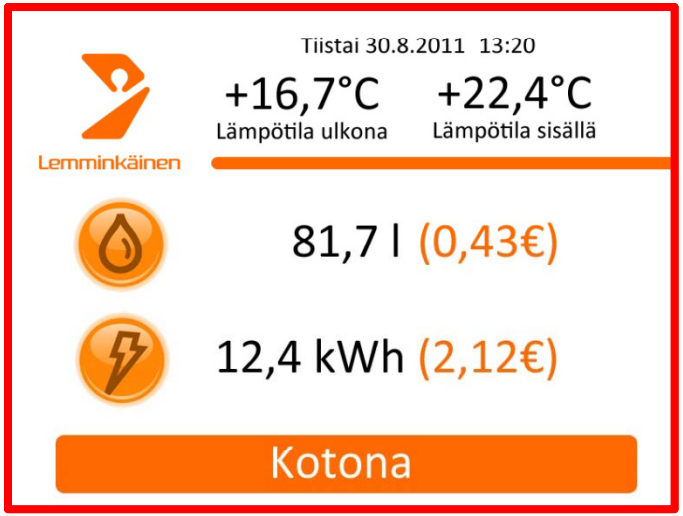
Fidelix Domux

- Versatile, scalable and personalisable features and functionalities in a modern Home Automation System
- Built on the foundations of several years of experience and thousands of projects in the professional and domestic building automation industry
- A completely open architecture and a system built on common technical standards, allow you the freedom to create a system that is perfectly in tune with the desires of your clients and the specific needs of each project



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End-user features

- Residents can consult water- and energy-consumption data locally
- Residents can adjust temperature and ventilation settings to the desired setpoints
- The system contains built-in time-schedules (day-night, weekday-weekend…)
- Residents can create personal time-schedules (at home, away, sunday, holiday, …)
- The system can be controlled and consulted through a mobile phone

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Apartment setup

Sensors and measurements

Programs

Cold water

Hot water

Radiator network

Electricity

Temperature

Burglar alarms

Smoke detection

Ventilation

Lighting

Wall Sockets

Controller

Processing Unit

Central Controlling Unit
(at the building's maintenance-,
security- and/or management firm(s))

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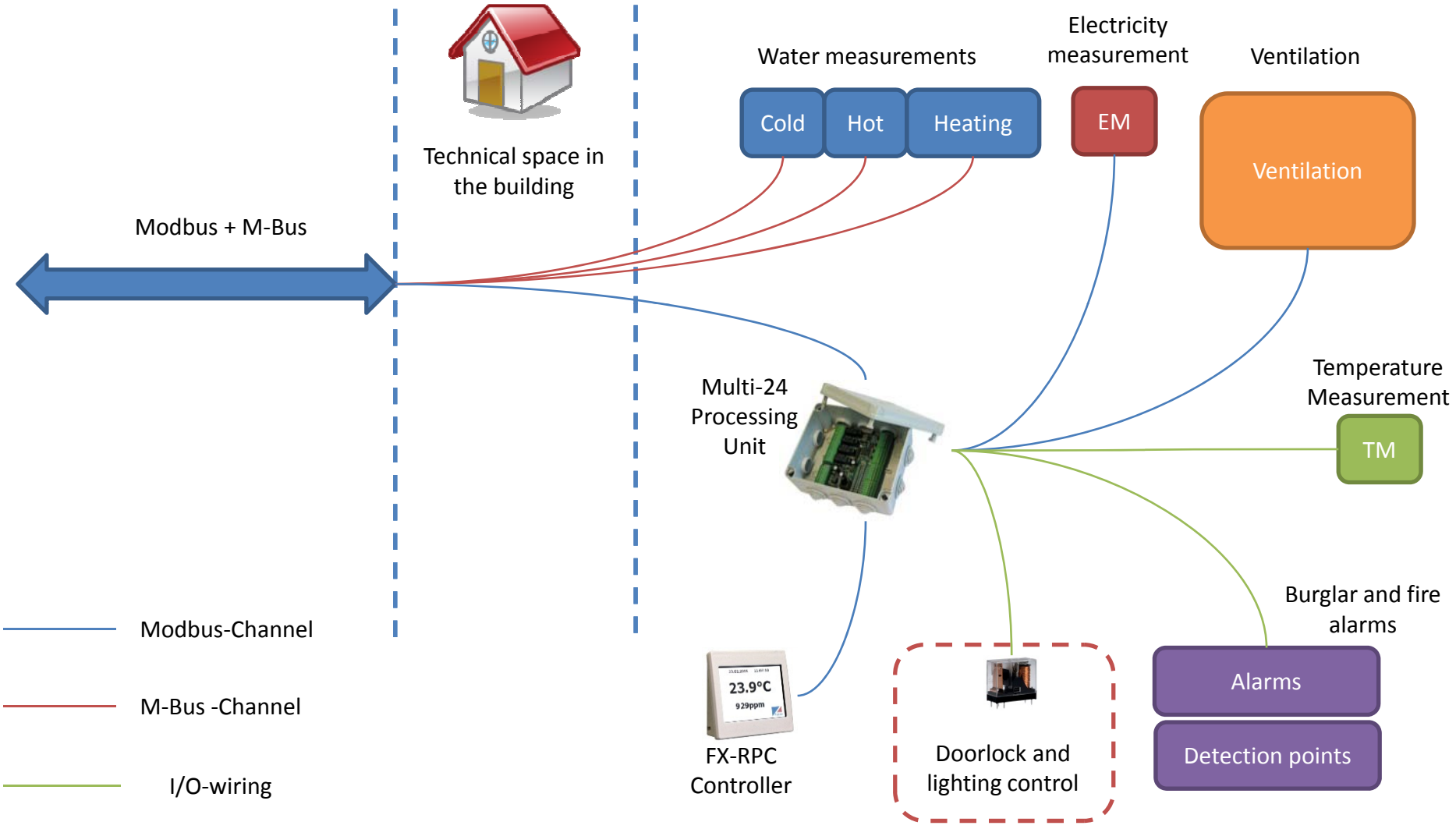
Apartment setup



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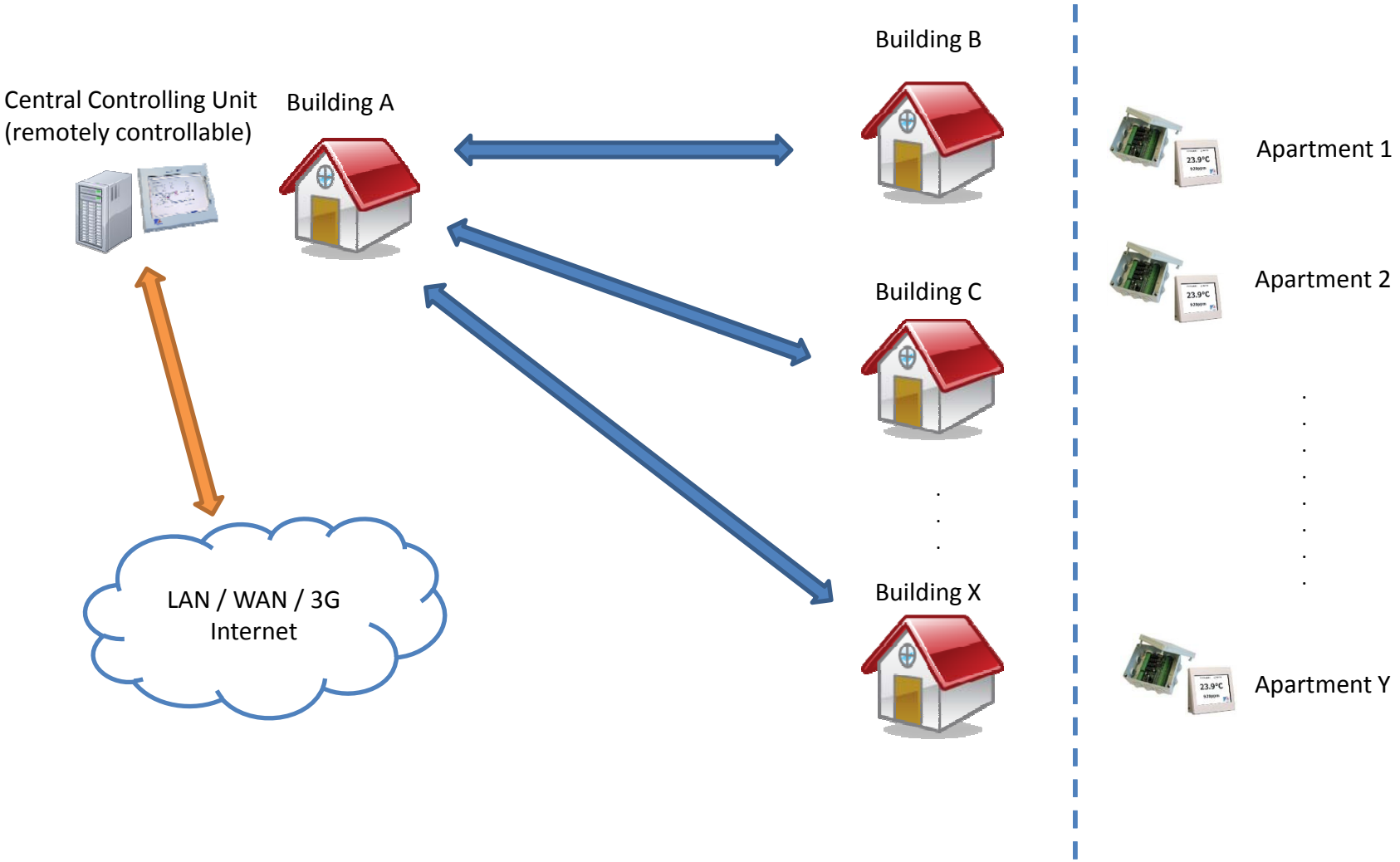
Building setup



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Houseowner features

- The owner can consult the electricity- and water-consumption of the whole building or apartment by apartment
- The owner can choose apartment-specific temperature settings, set up outside-temperature dependent time-tables, and define depending energy-consumption correllated schedules
- The owner can compare energy-consumption of apartments withing the same building, or between different buildings

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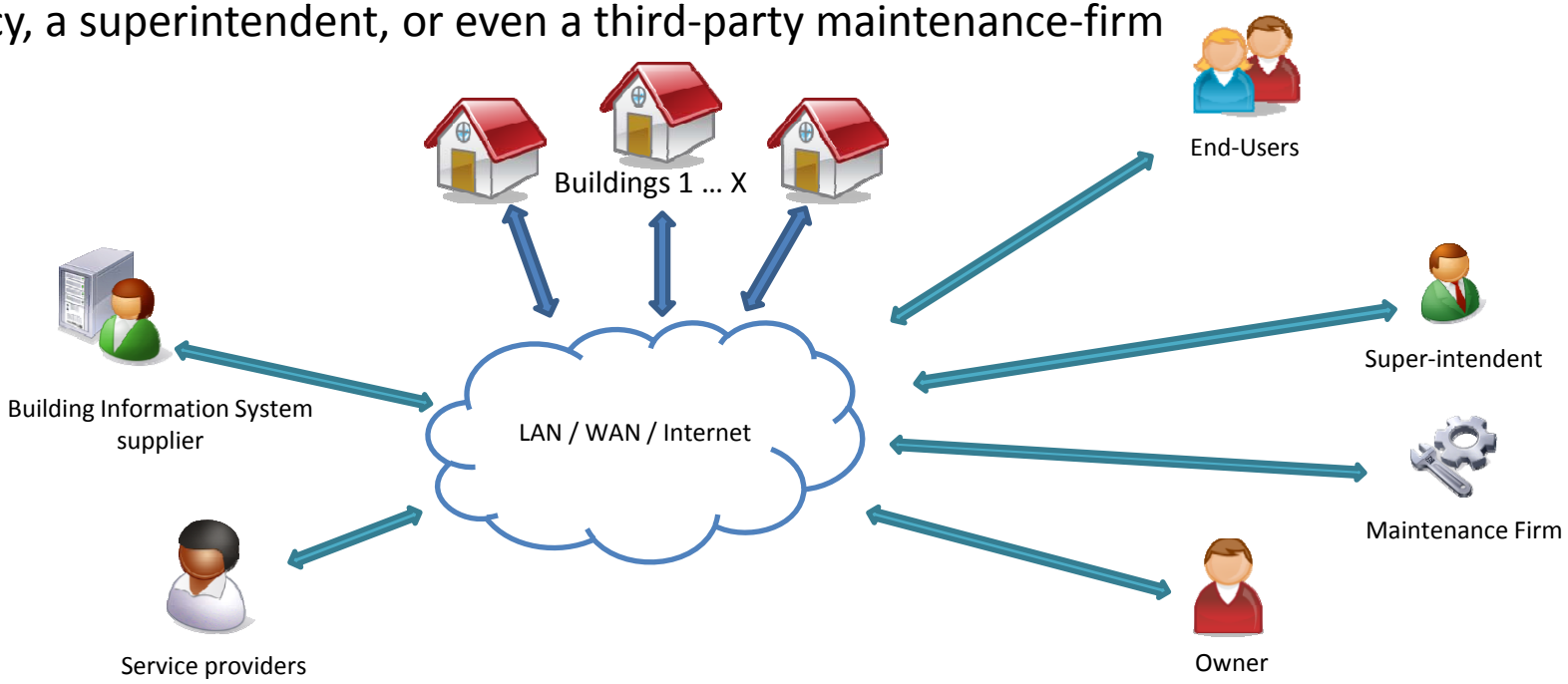
Building Information System

- The Housing Company manages one integrated, centralised information system
- The Building Information System directs the various user-groups to their specific dedicated control-environment with the appropriate personal user-interface, features and functionalities
- The Building Information System can be managed by the property-owner, a real-estate agency, a superintendent, or even a third-party maintenance-firm



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User Groups

End-Users

- Electricity- and water-consumption, comparing long- and short-term
- Maintenance and error-reporting
- Consult electronic bulletin-board
- House-log
- Common administrative documents
- Sauna or car-parking reservation
- …

Super-intendent

- Consult, compare and download reports of operating hours, temperature settings, electricity- and water-comsumption, …
- Sauna reservation schedule
- Car parkingspace rental-scheme
- Controll the time-schedules for sauna's, doorlocks, lighting, …

Maintenance Firm

- Maintenance and error-reports delivered by e-mail
- Maintenance action alerts
- …

Owner

- Energy-consumption reports
- Edit electronic bulletin-board
- …

Building Information System supplier

A few examples:

- Taloyhtiö.info
- Tampuuri
- Realia majakka
- BaseN
- …

Service providers

- Cleaning
- Renovation
- Telecom and IT-installation
- …

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