# OmniVision

## Visualization
## and Monitoring Systems

From the control of your private residence
to the management of large industrial plants.

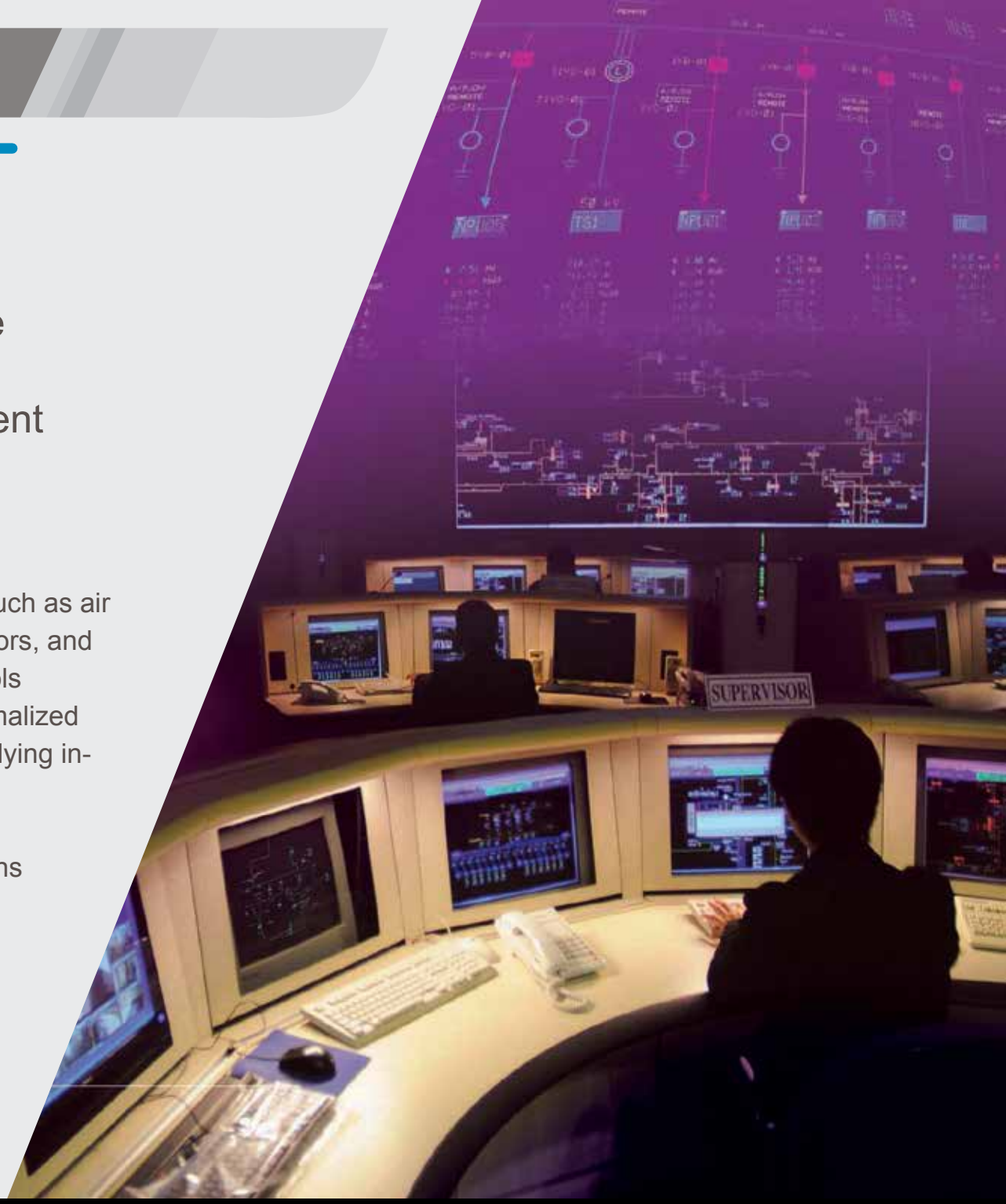
Engineering OmniBus

Intelligent Building

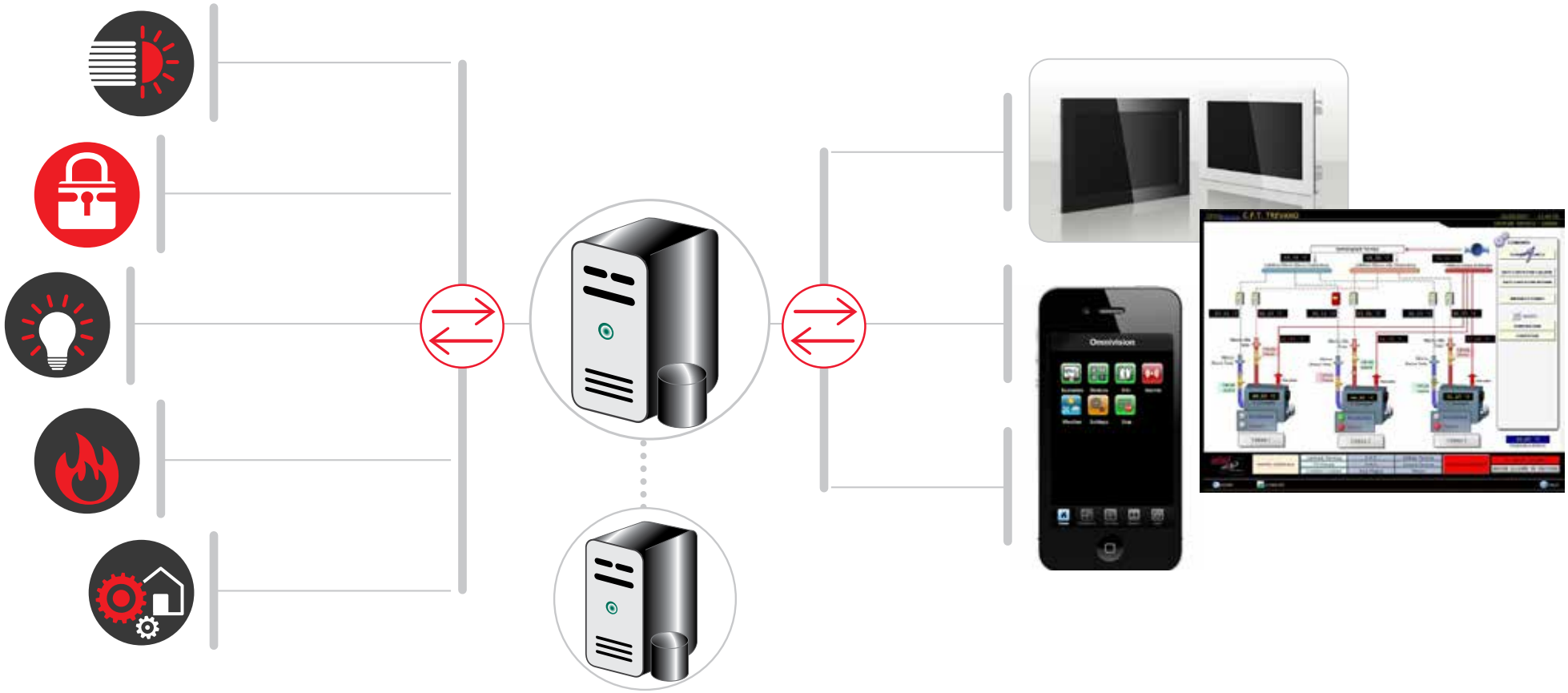
## OmniVision represents a software solution to effectively solve the problem of centralized management of intelligent systems installed in buildings.

OmniVision integrates heterogeneous systems such as air conditioning and heating, lighting, fire alarm, motors, and PLC. It manages multiple communication protocols simultaneously and presents to the operator normalized commands and data independent from the underlying installations.

OmniVision perfectly complements the installations using OmniBAS building automation.



# Architecture



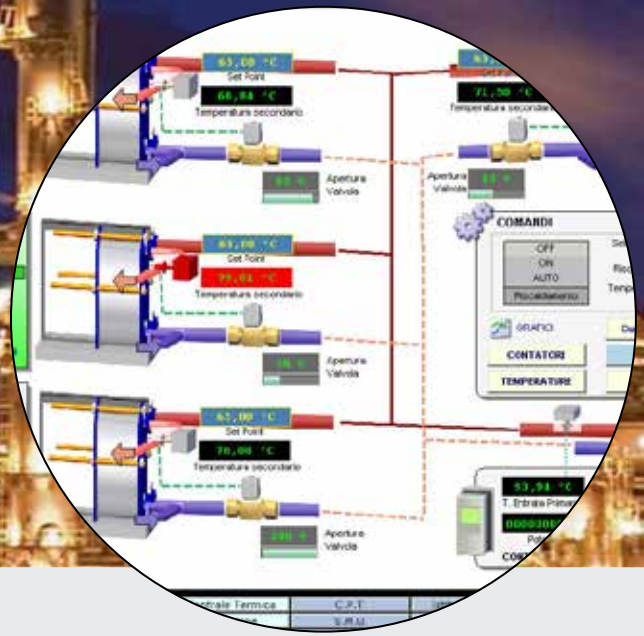
**Heterogeneous technological systems**

**Main supervision system.**
Management of protocols.
Storage and analysis of data.
Normalization of the data for display.

+ **Remote acquisition system.**
  Remote workstation.
  Mirroring of the main system.

**Peripheral control devices for users and operators**

# Our Solutions



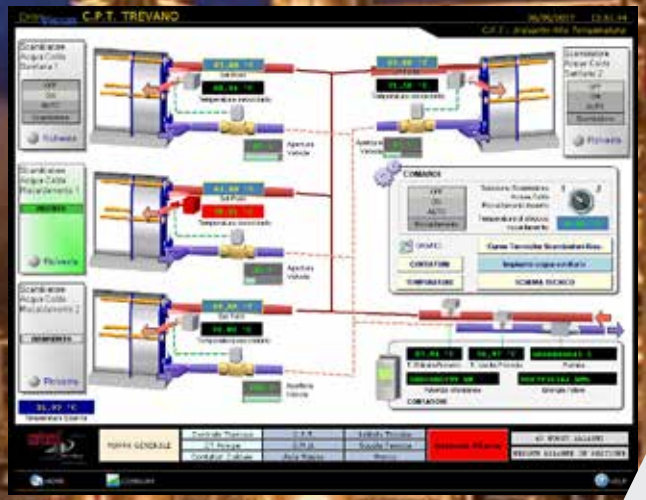
## OmniVision SCADA

**A professional SCADA engine certified for the industry**

## OmniVision NAV

**An easy-to-use solution for residential homes**

# OmniVision SCADA for the industry




## OmniVision SCADA represents the solution for industrial and commercial environments, as well as the supervision of large residential complexes.

The solution is compliant with FDA CFR21/11 and uses data encryption at 128 bits.

Total management of operators including authentication, profiling and login.

Support of hundreds of industrial and home automation protocols.

Integration with various technologies for data sharing and data exchange.

Support for redundant systems and remote data capture.

# OmniVision NAV is the solution for the management of your residential home automation system.

A simple touch interface allows the user from the touch panel installed in the house, or using smartphones and tablets even in remote mode, to control lights, curtains, blinds, thermostats, or to send commands and run scenarios.

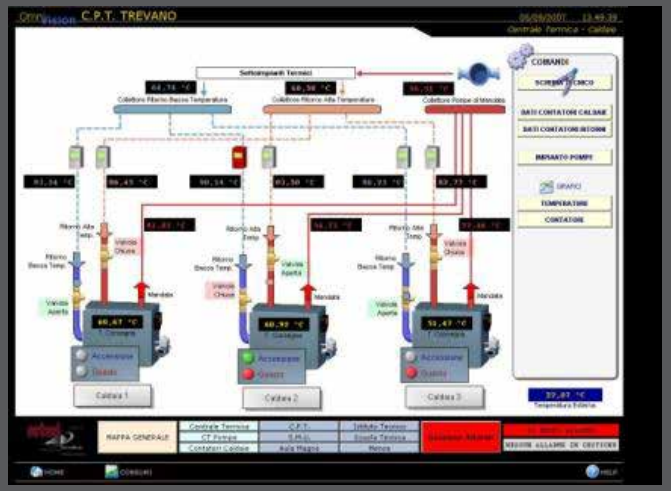
OmniVision NAV controls all systems managed by OmniBAS devices and installed on the LonWorks ® bus, but it can also integrate with different protocols such as KNX.

The solution integrates with multimedia and multi-room systems such as Tutondo, Sonos, Control4 and Bang & Olufsen.

The system can handle complex scenarios associated with a scheduler and calendars.

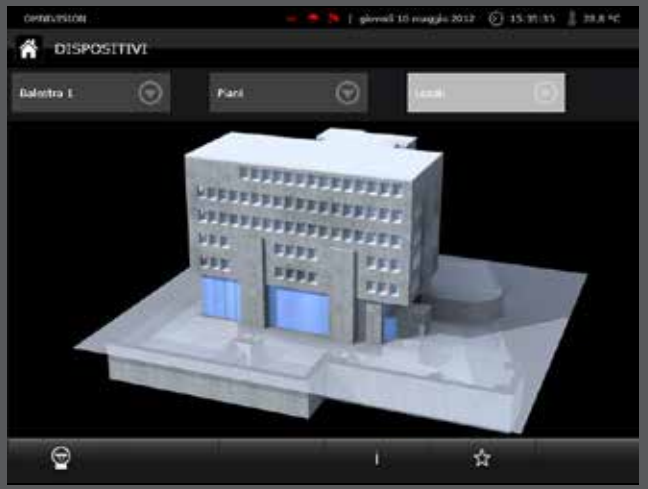
Displays IP cameras and manages alarms.

# Screenshots OmniVision SCADA



# Screenshots OmniVision SCADA

# Screenshots OmniVision NAV

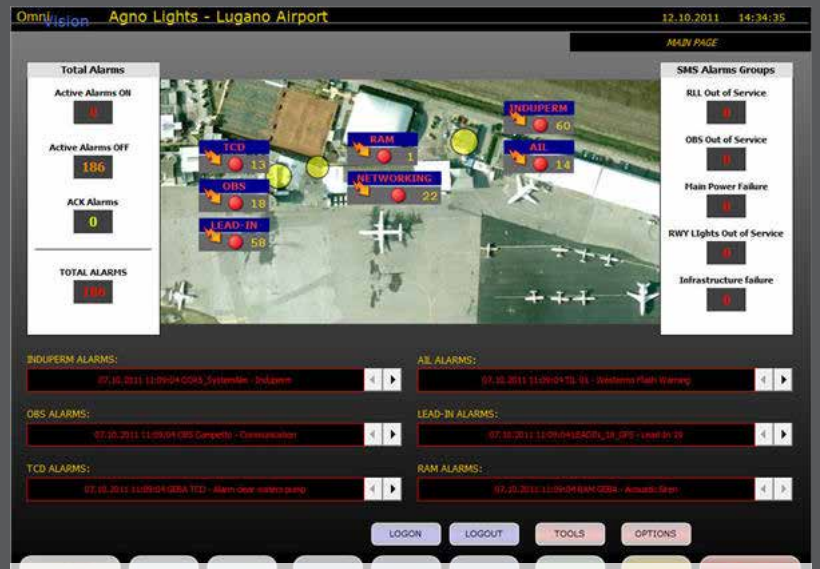


# Screenshots OmniVision NAV

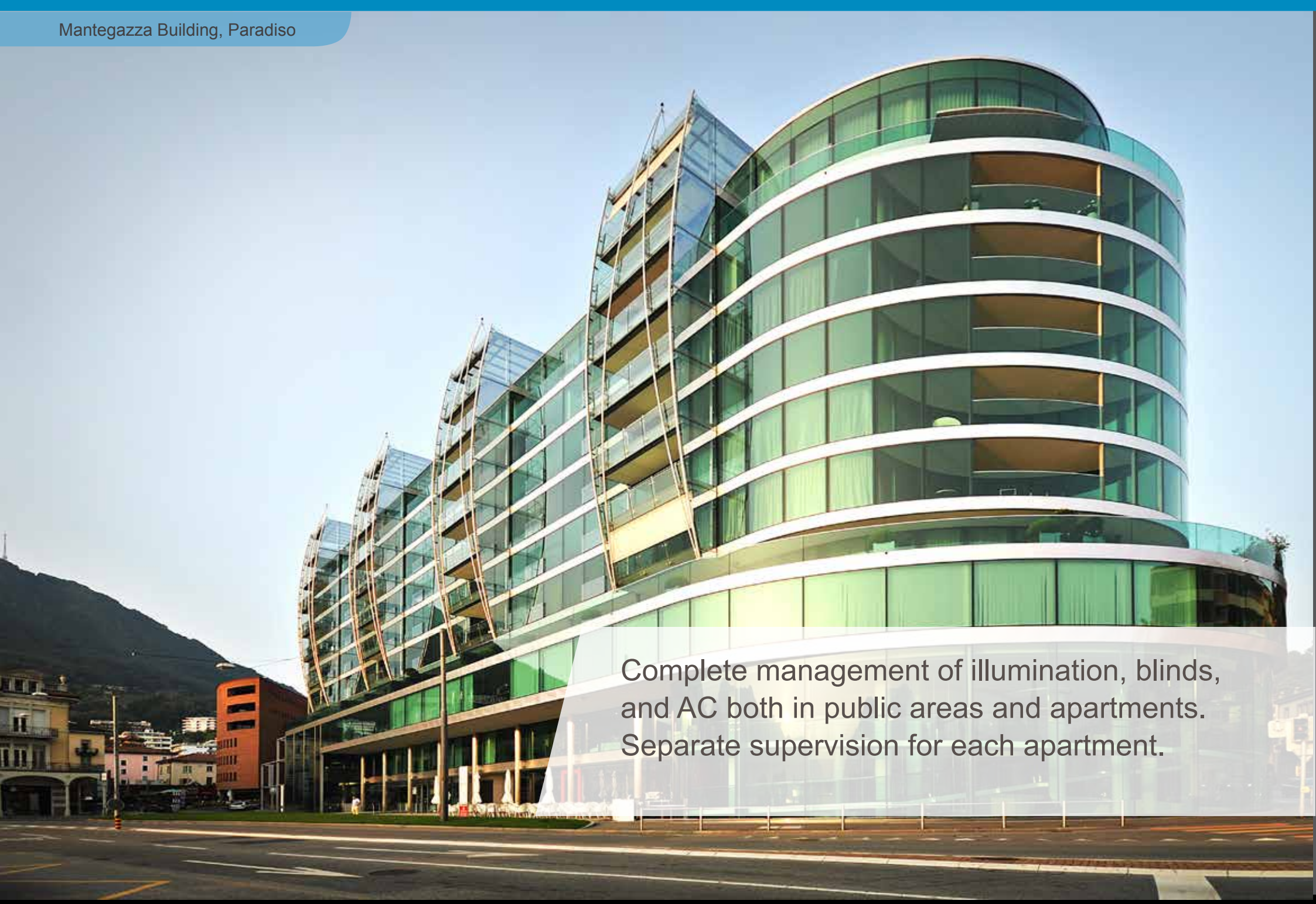
# Projects

Mantegazza Building

Professional Center, Trevano




Lugano Airport, Agno



Complete management of illumination, blinds, and AC both in public areas and apartments. Separate supervision for each apartment.

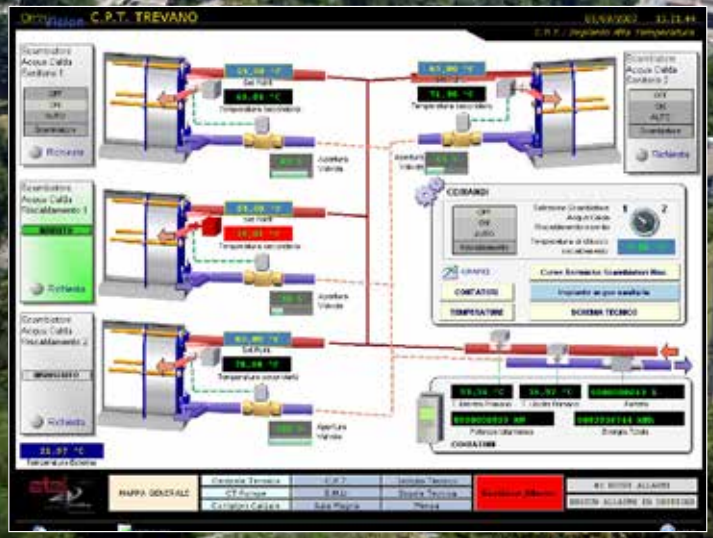
## Mantegazza Building, Paradiso

- *40 apartments*
- *Commercial areas, event spaces, business center, ...*
- *2380 LON modules (I/O modules, routers, BCU, sensors, ..)*
- *Integration of DALI and DMX512 lighting management for apartments and commercial areas*
- *Integrated motor controls Warema (Building facades)*
- *Integration with Siemens AC systems*
- *Management alarms and weather information*

Professional Center, Trevano

The seven thermal power plants for the entire school are supervised remotely via web.
Over 500,000 data are processed daily to provide analysis of consumption, performance, and leakage of power plants.

- *7 power stations*
- *400 measurement points*
- *70 types of alarm*
- *576000 data processed daily*
- *Remote management and web alert by email*
- *Historical data analysis*
- *Management of consumption, yields, losses*
- *Optical fiber backbone BACNet*
- *Integration Honeywell web plc*



Lugano Airport, Agno

## Control of all runway lights and management of all airport systems is entrusted to a redundant infrastructure implemented using OmniVision SCADA.

- *Total control of runway lighting*
- *Management of technological airport systems*
- *2 independent redundant workstations for the control tower*
- *2 redundant servers for the management of the installation and data analysis*
- *Interface with redundant SPS Modbus Schneider Electric*
- *Interface with PLC Siemens Profibus*
- *Redundant Fiber Optic Backbone*
- *Certification system FOCA - SkyGuide*

Engineering OmniBus
Intelligent Building

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