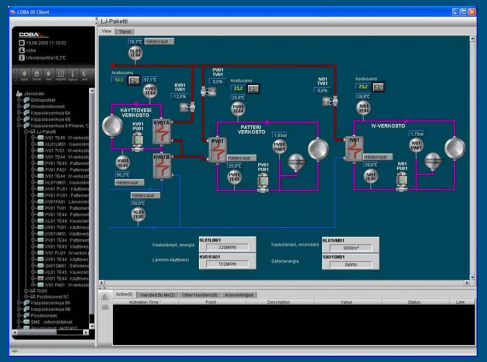
LONIX
BUILDING CONNECTIVITY

COBA
Interoperability by COBA BOS

Intelligent Integrated Systems for Green Buildings

Lonix Automation and Security Solutions since 1996

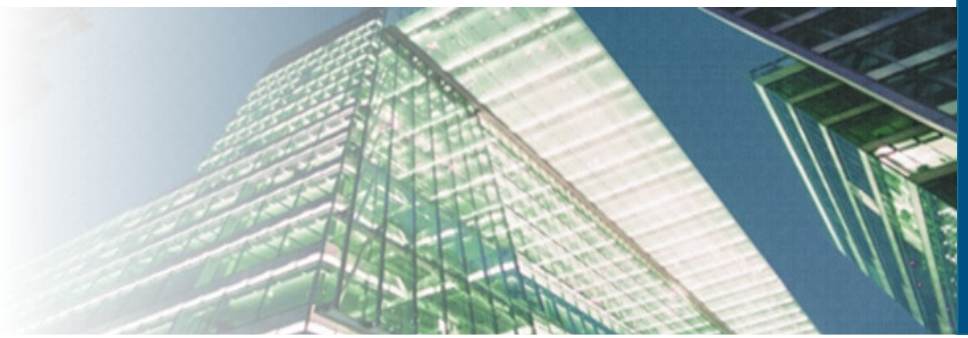


Intelligent Integrated Systems for Green Buildings

Lonix provides automation, security and building management systems for Intelligent Green Buildings.

Versatile solutions for offices, business centers, hotels, residential towers, palaces and villas.

- → Building automation / BMS
- → Lighting controls
- → Room controls
- → Consumption metering
- → Home automation
- → Hotel room controls
- → Access control & intruder alarms
- → Video monitoring



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Lonix Ltd

- Technology Partner for leading System Integrators

UAE
Kuwait
Iran
Qatar
Saudi-Arabia
Syria
India
Finland
Sweden
Norway
Russia
Lithuania
Estonia
Ukraine
Turkey
Azerbaijan
Georgia
Uganda
Tanzania
Kenya
Nigeria
Egypt
Singapore
Malaysia
Thailand
Indonesia
Philippines
Vietnam

Intelligent Green Solutions for different building types

- Business facilities
- Office facilities
- Shopping malls
- Blocks of flats
- Villas
- Schools
- Hotels
- Palaces
- Smart cities

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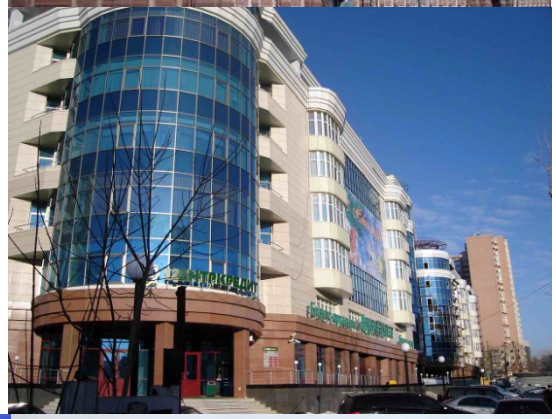
Offices, commercial and public facilities

- Avilon Plaza business center in Moscow, Russia
- Kolomenskaya museum in Moscow, Russia
- Krasnaya Rosza business center in Moscow, Russia
- Pension Fund office in Moscow, Russia
- Cardiological Institute power center in St Petersburg, Russia
- Business center in Rostov, Russia
- Gazprom office in St Petersburg, Russia
- SberBank in Nizhnyi-Novgorod, Russia
- Tax inspection center in Moscow, Russia
- Klaipedos Smelte refrigerator terminal, Lithuania
- Business center in Astana, Kazakhstan
- Karolinska Institutet, research institute in Stockholm, Sweden
- Järfälla kommun school complex, Sweden
- Ektorpshemmet senior home in Nacka, Sweden
- Anantara Desert Islands Resort & Spa on Sir Bani Yas Island, Abu Dhabi, UAE
- Lootah office in Dubai, UAE
- Department of Justice in Helsinki, Finland
- Technopolis technology center in Vantaa, Finland
- Shopping mall Jumbo in Vantaa, Finland
- Headquarters of Senate Properties in Helsinki, Finland
- Water Utility of Helsinki, Finland
- Alarm Center of Civil Defence of Turku, Finland



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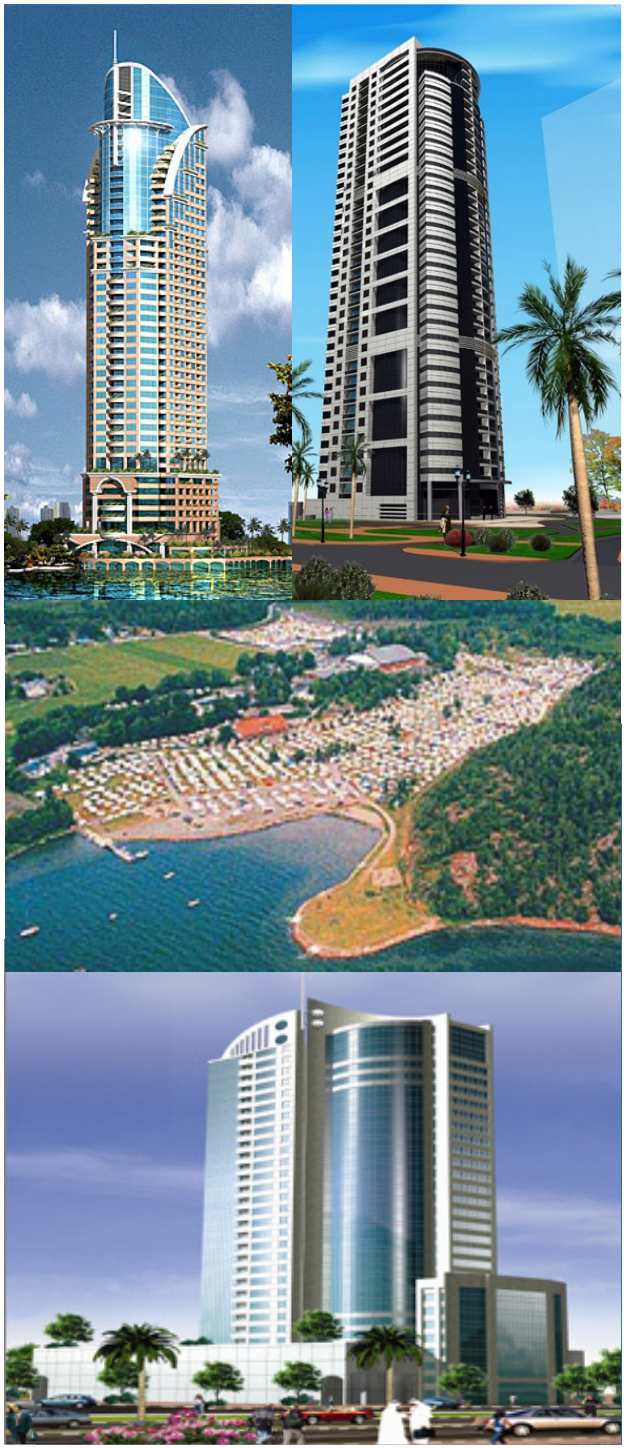
Residential buildings

- Damac Signature Residence Showroom in Dubai Media City, UAE
- Waleed Paradise residential tower G+34 in Dubai, UAE
- Lootah Marina Tower, luxurious residential tower in Dubai, UAE
- Dorra Bay residential tower G+21 in Dubai, UAE
- Ontario Tower G+25 in Dubai, UAE
- O2 residential tower G+39, Dubai, UAE
- Palace of President of Uginvest, UAE
- Palace of Chairman of Damac, UAE
- Palace of Chairman of Tameer, UAE
- Villa of Mr. Ibrahim Fahim in Dubai, UAE
- Villa of Mr. Hani Nabulsi in Dubai, UAE
- Sharqan villa area in Sharjah, UAE
- Palace of Chairman of Bader Group in Manama, Bahrain
- Village of 600 smart houses in Brunstad, Norway
- Kurkino area of blocks of flats in Moscow, Russia
- Sundsberg intelligent residential area in Kirkkonummi, Finland
- Kaskisaari intelligent residential area in Helsinki, Finland



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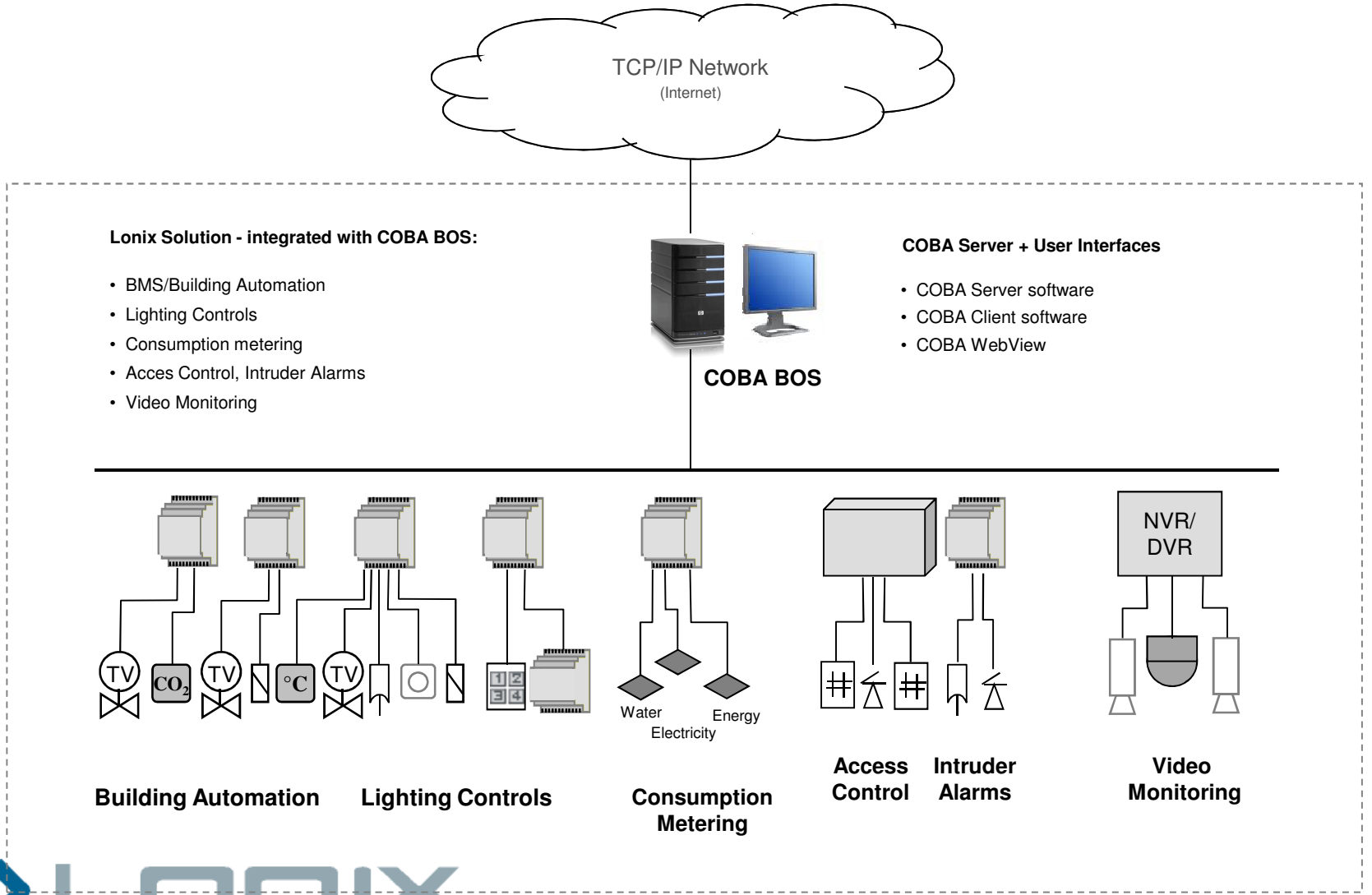
Lonix Solution – integrated systems



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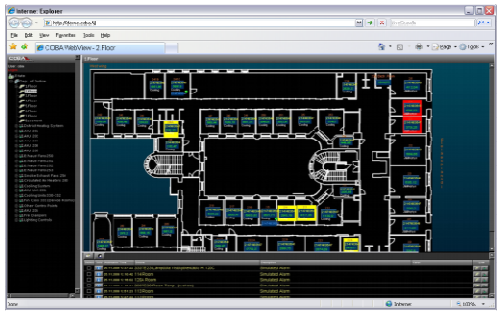
Ease of use through versatile media

COBA Client

Professional Users



COBA WebView

COBA BOS

Everyday Users

Touch Screen

Laptop

Mobile Devices

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Central monitoring & life-cycle services

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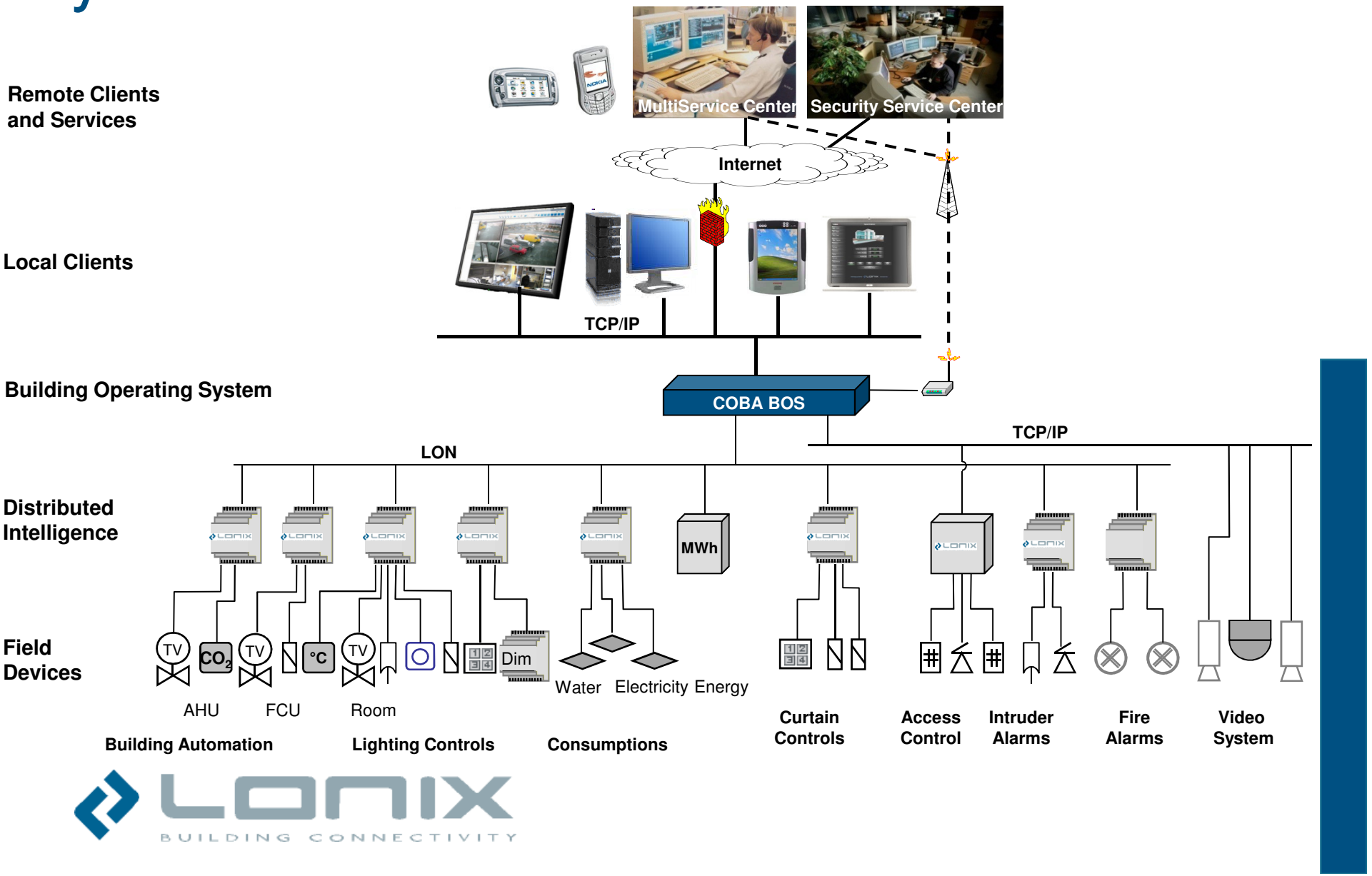
Integrated automation and security systems



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Lonix Solutions

- Building Automation / BMS
- Office Room Controls
- Security
- Hotel Room Controls
- Retail Units
- Home Automation

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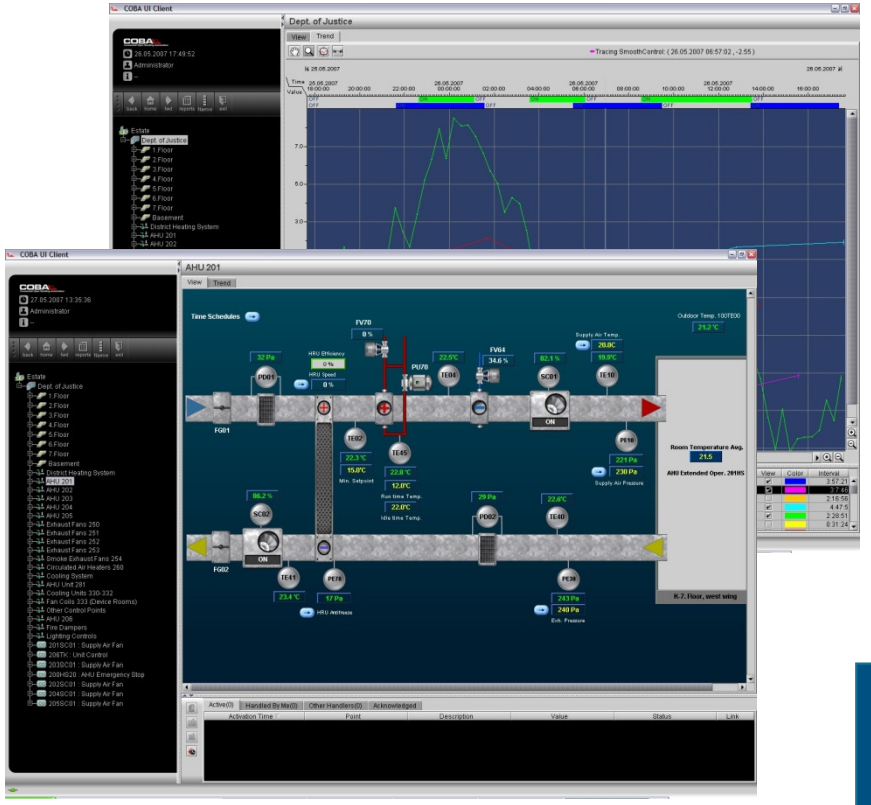
Common BMS



- Robust systems
- Accurate controls
  - Chillers/Heat Exchangers (HEX)
  - Chilled water pumps
  - Pressurization units
  - Fresh Air Handling Units (FAHU, AHU)
  - Fan Coil Units (FCU)
  - Water tanks (under ground, over head)
  - Pumps (transfer, booster, sewage, other)
  - Fans (make-up, exhaust, garage, stairwell, smoke)
  - Lighting of common areas
  - Elevator alarms
  - Room controls
  - Consumption metering: Electricity, water, energy
- Integration with security and central battery systems through the common platform

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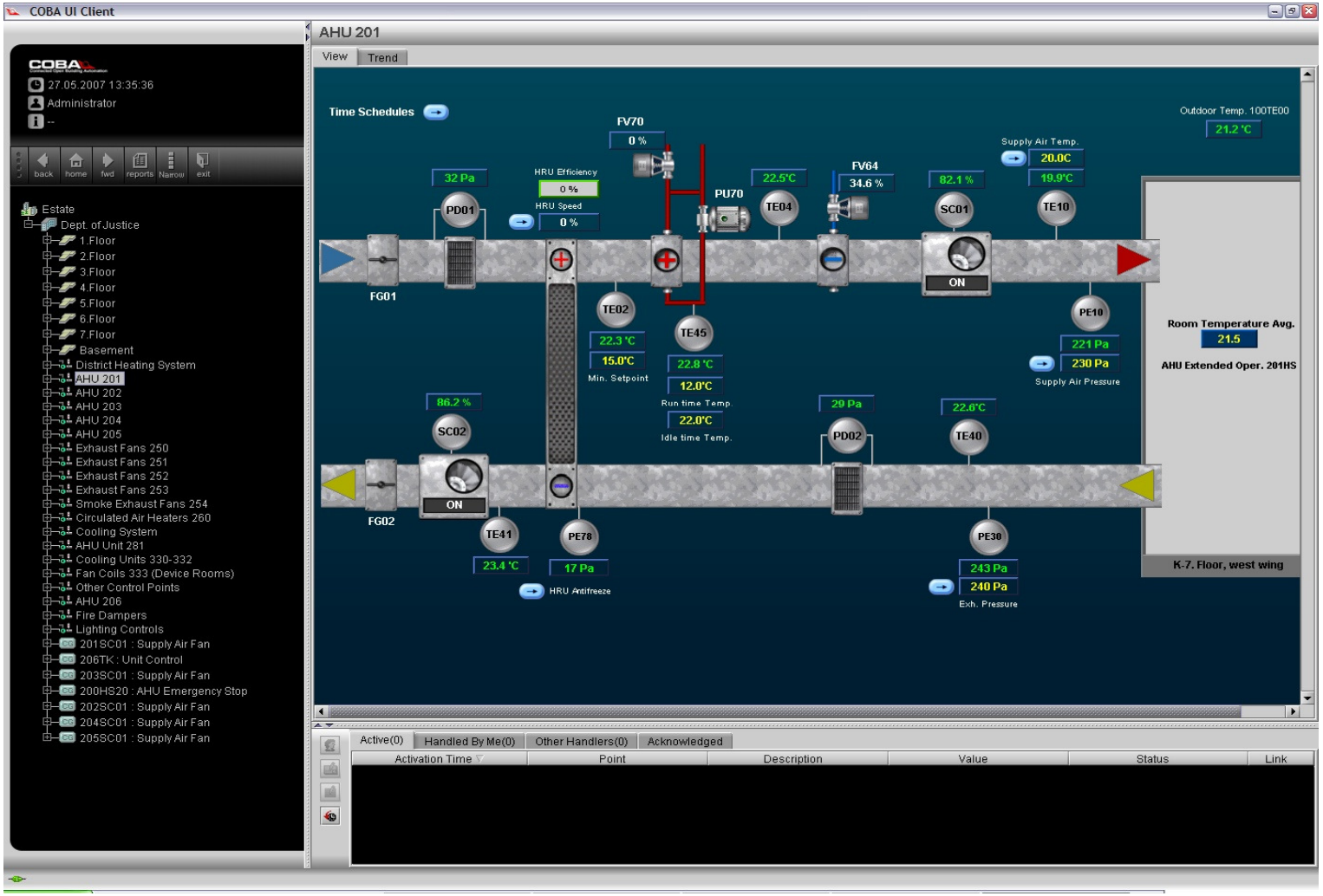
Monitoring user interface for automation



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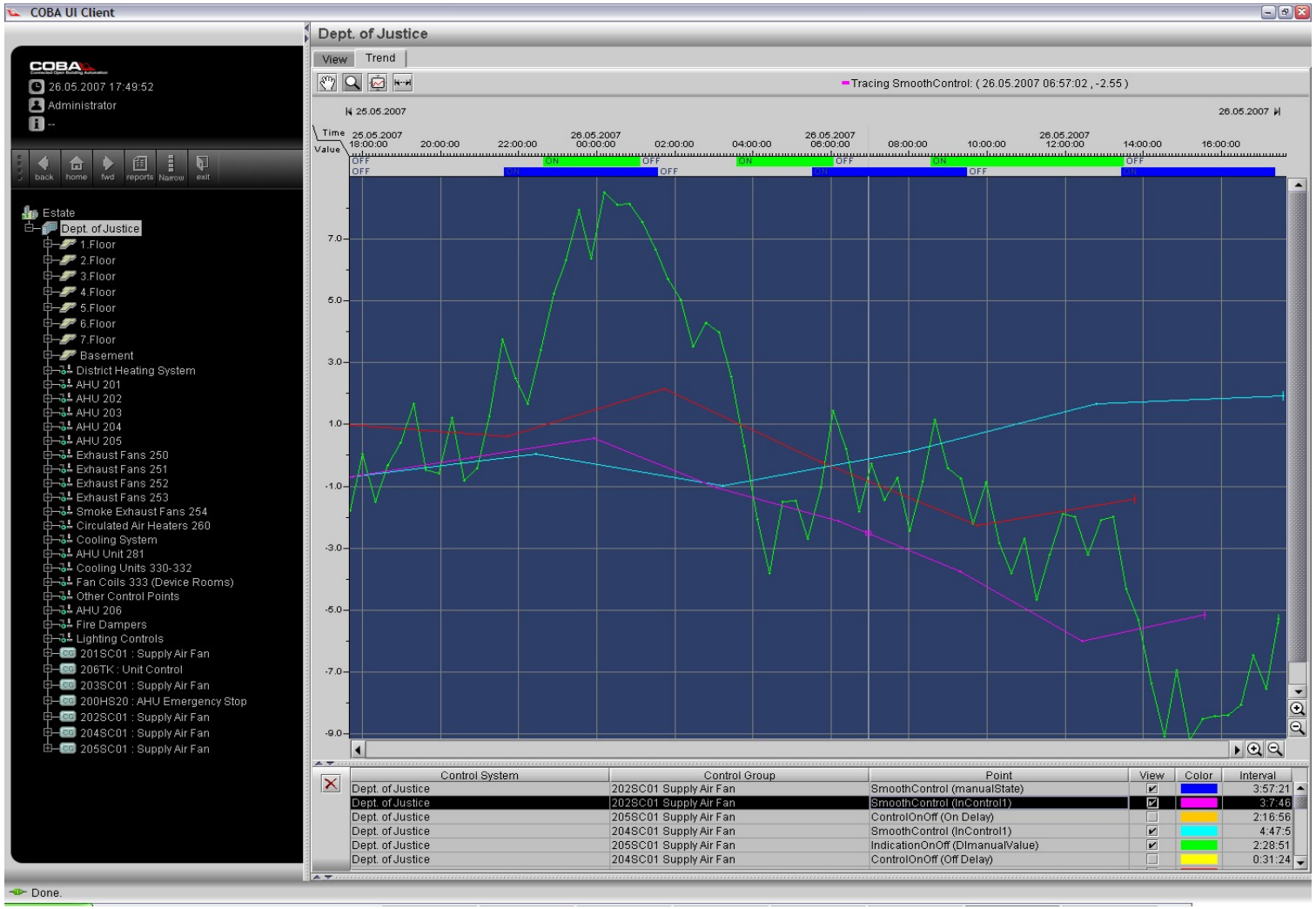
History trend view



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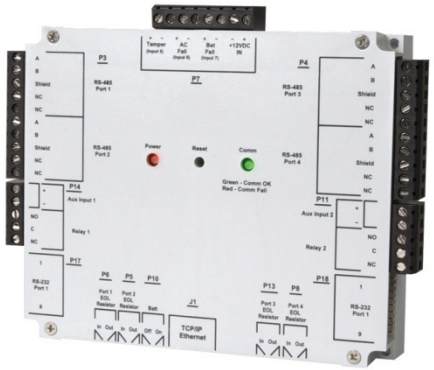
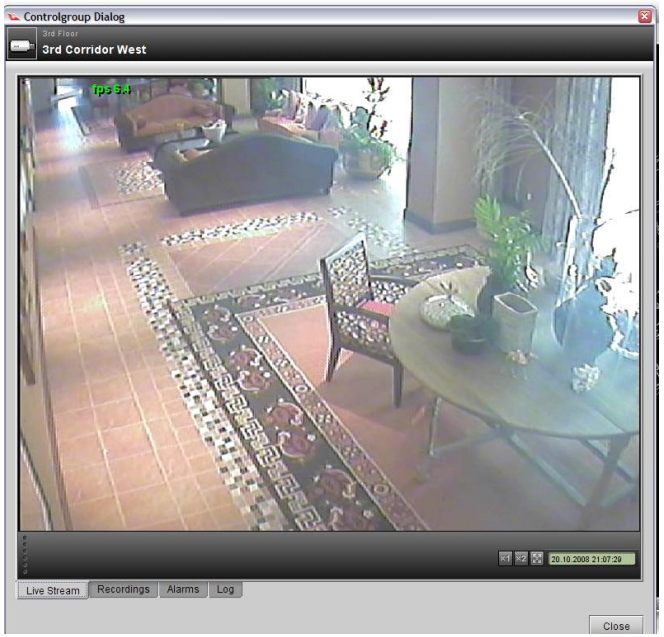
Security



- Access control and intruder alarms
  - Complete and fully featured hardware/firmware infrastructure for access control systems
  - IP based integrated solution
  - COBA compliant software
- Digital video monitoring
  - DVR/NVR
  - Cameras
  - COBA compliant software



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Monitoring user interface for security

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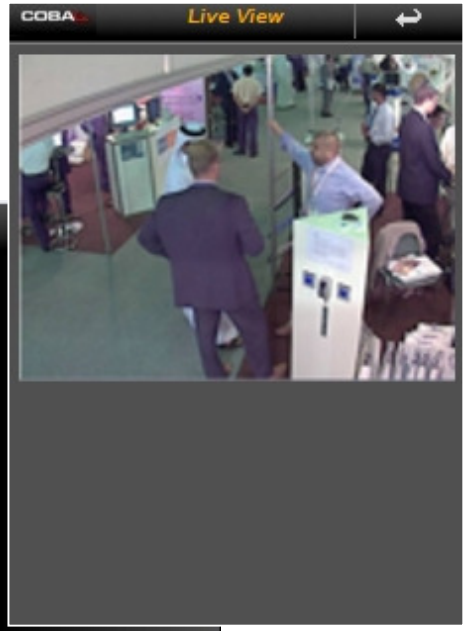
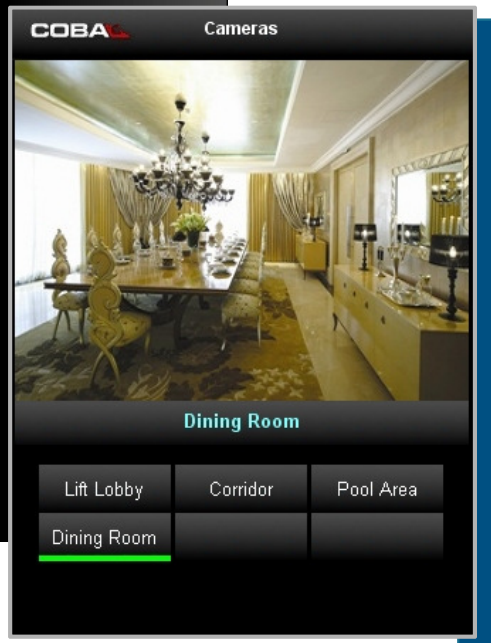
Cameras





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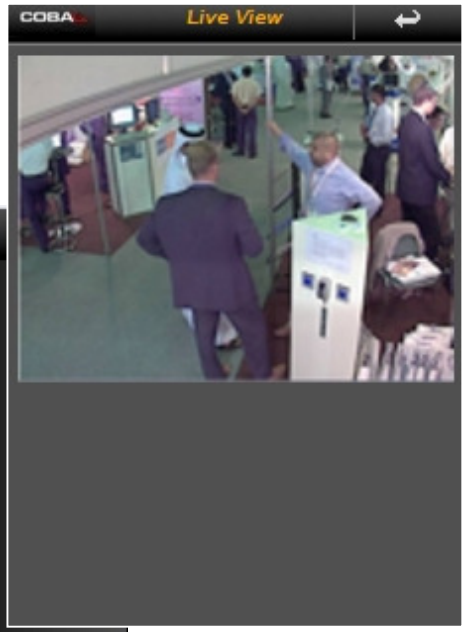
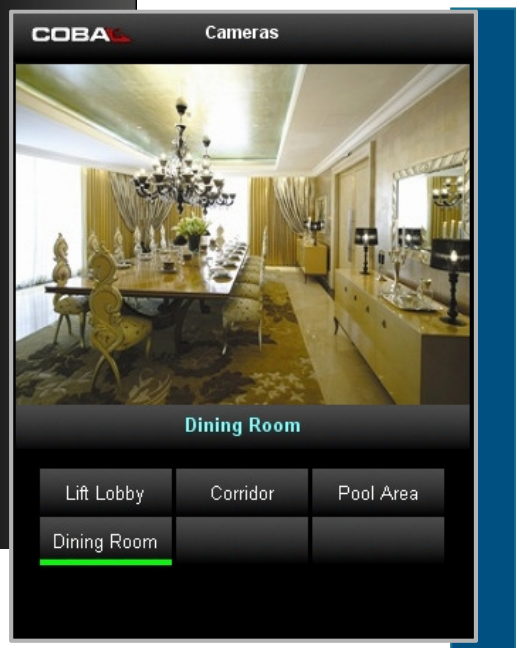
Video monitoring





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Hotel room controls

- Room status affects all systems
  - Occupied / unoccupied / sold / vacant
- Energy saving features
  - Temperature setpoint changed with room status
  - Lights off when unoccupied
  - Consumption metering: Clean water, chilled water for A/C, electricity
  - System monitoring and trending
- Comfort features
  - Temperature control, setpoint deviation and fan speed control
  - Preset temperature based on occupancy
  - Lighting controls, on/off and dimming, scenes, entry lighting upon occupancy
  - Curtain controls, open/close, closed automatically upon leave
  - Service Call and Do-Not-Disturb
- User interfaces
  - Browser in IPTV
  - Main user interface for room controls in the reception
- Integration with BMS and security through the common platform

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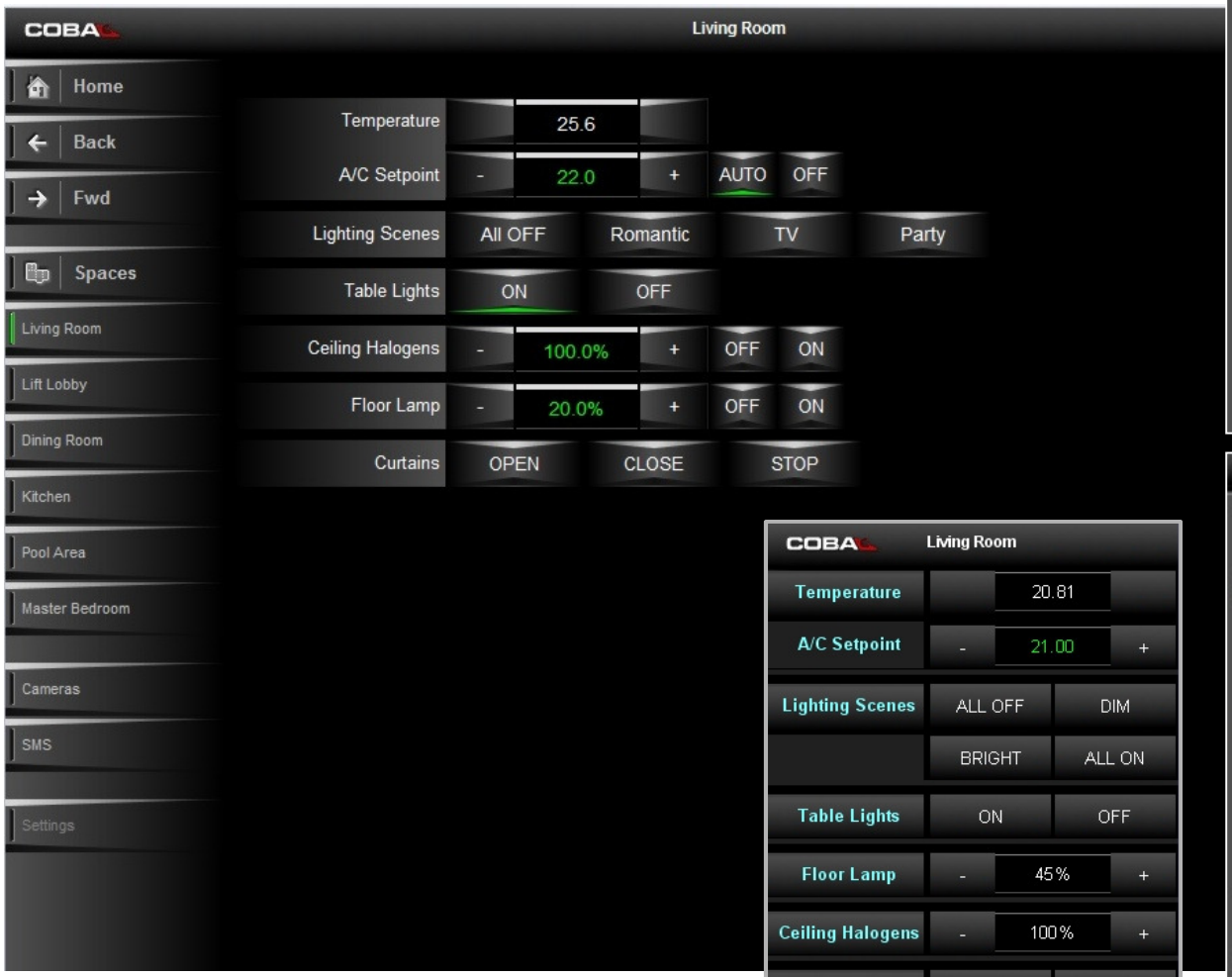
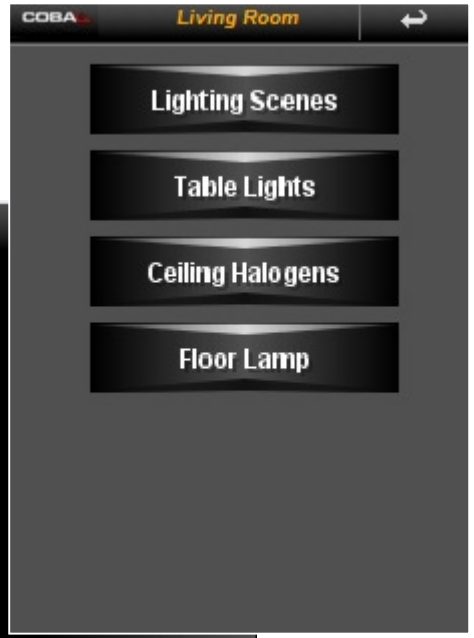
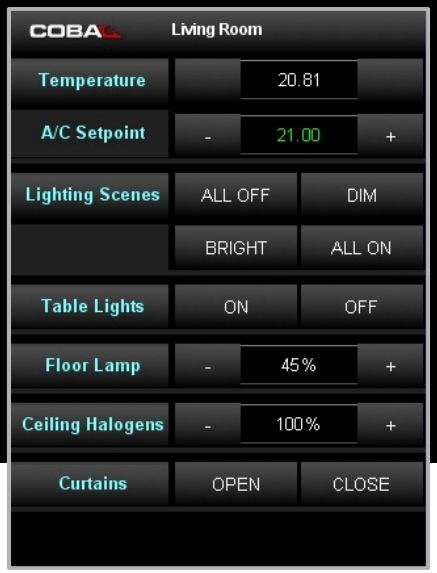
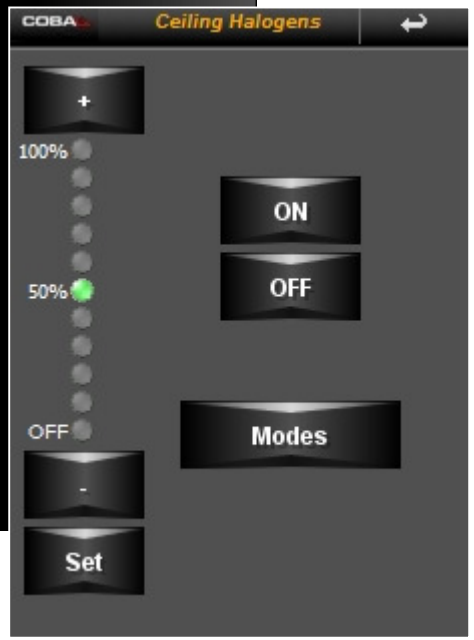
Individual room









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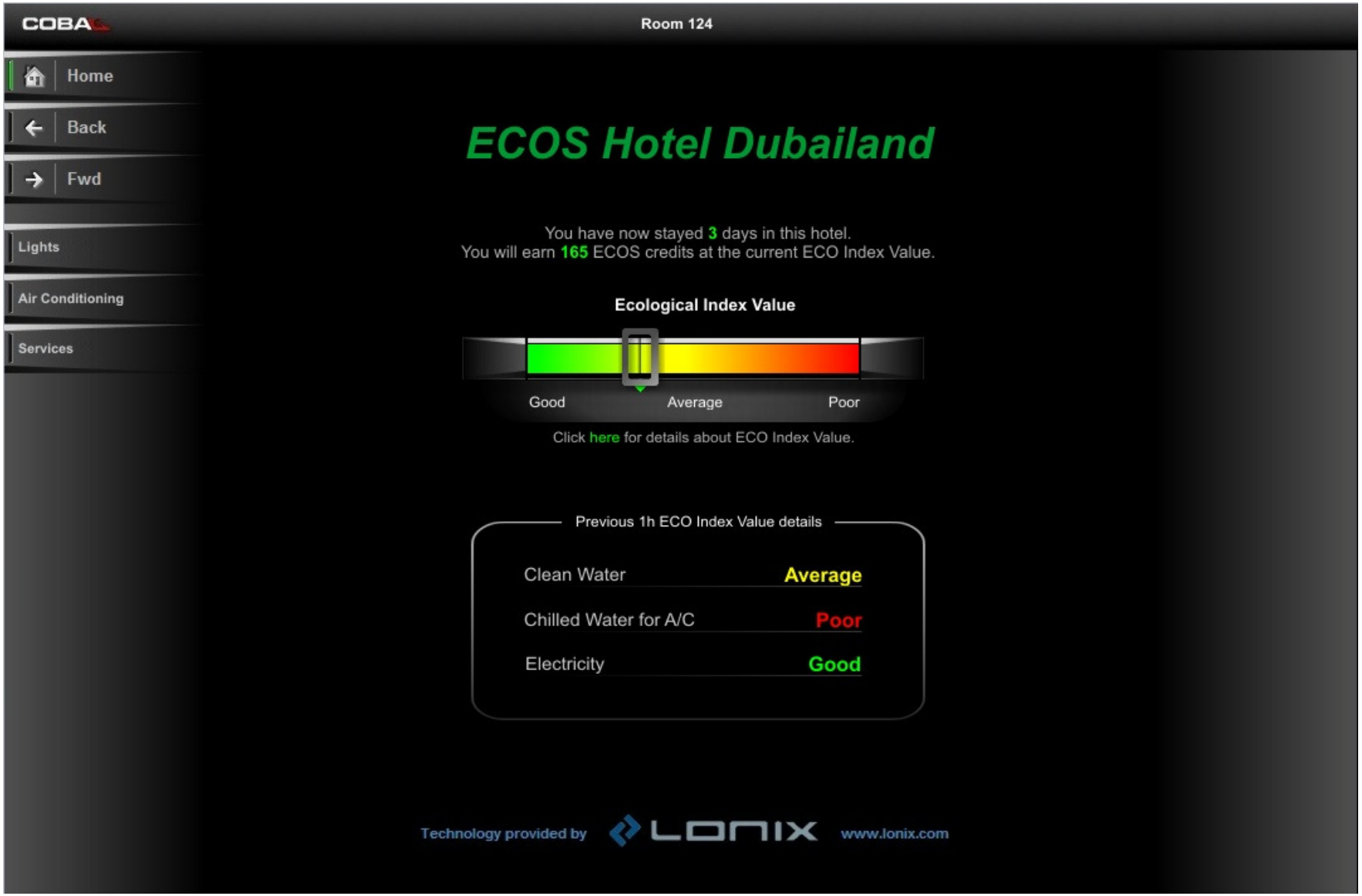
Browser view in IPTV



Retail units

- Systems function smoothly together
  - Staff in / Shop open / Cleaning / Away
- Features
  - Cooling controls
  - Ventilation controls
  - Lighting controls
  - Consumption metering: Water, electricity, energy
  - Access control and burglar alarms
  - Cameras and video monitoring
- Integration with common BMS and security

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Home automation

- Modes of the residence
  - Home / Away / AwayLong / Night / Special
- Cooling controls
- Ventilation / air-handling controls
- Lighting controls
- Curtain and shade controls
- Access control
- Burglar alarms
- Consumption metering: Water, electricity, energy
- Leakage alarms
- Cameras
- Touch screen panel PC
  - Mode settings, lighting controls, cameras, AV controls, etc
- Graphical browser-based user interface
- Integration with common BMS and security

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Browser-based user interface

Ease of use through versatile media

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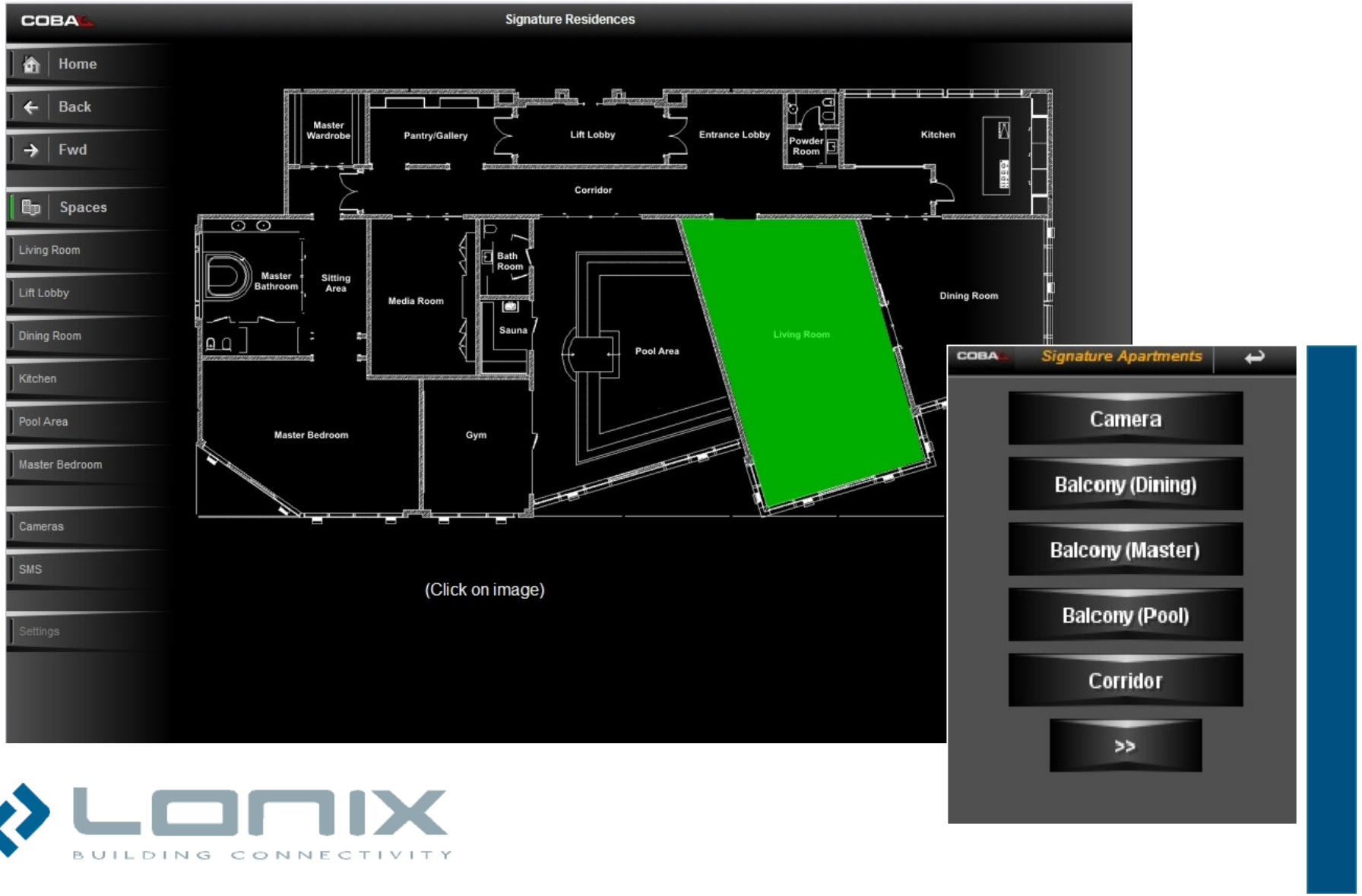
Room menu



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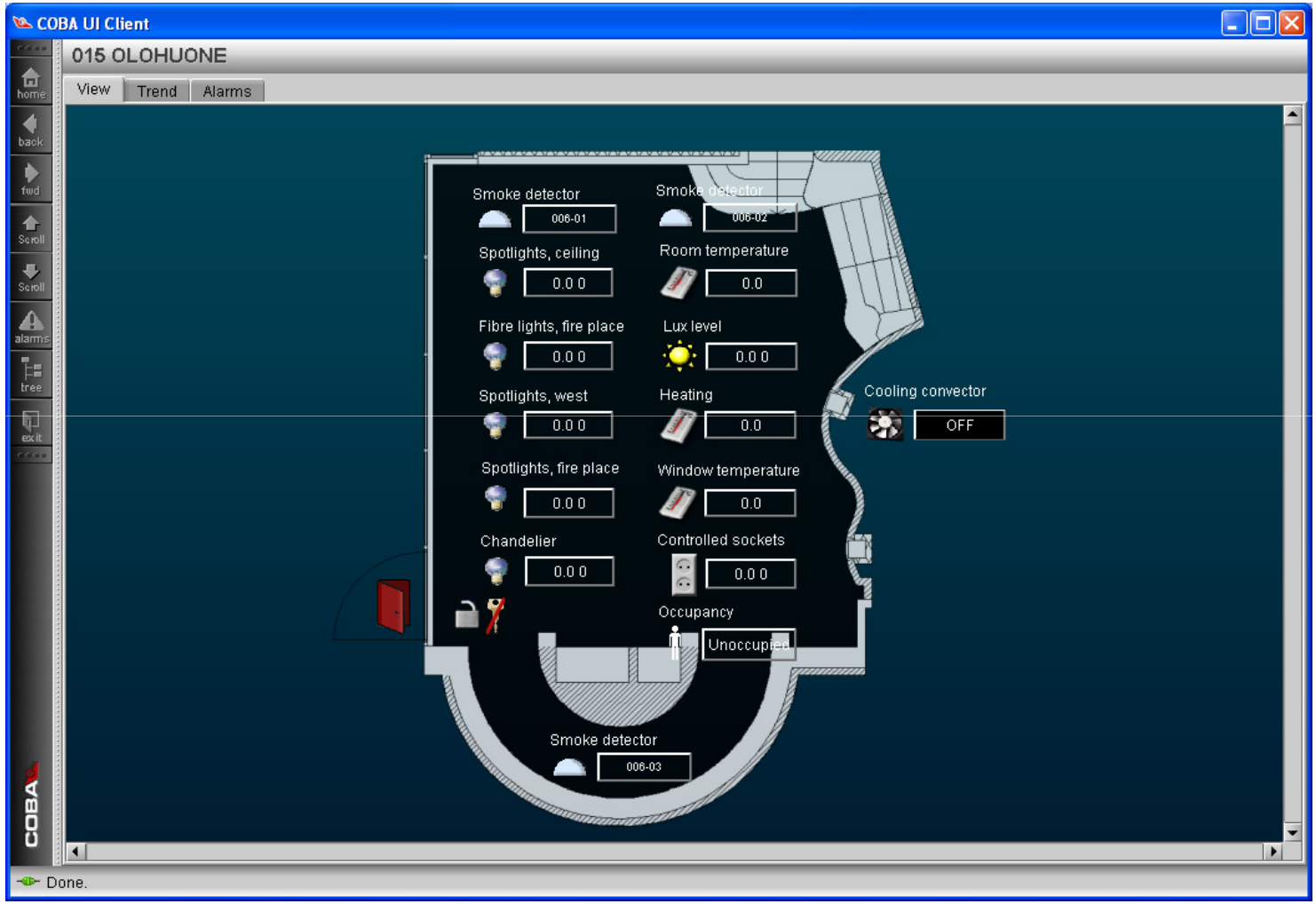
Integrated systems in a room



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Contribution to Green Buildings

- Energy and Atmosphere
  - Reduced energy consumption
  - Controls, measurement and verification
- Water efficiency
  - Water use reduction
- Indoor Environment Quality
  - Outdoor air delivery monitoring and control
  - Thermal comfort design, controls and verification
  - Lighting controls
- Innovation in Design

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Benefits of Lonix systems

Green Buildings with Forefront Technology

- Energy savings
- Indoor comfort
- Versatile features
- Cutting-edge technologies
- Integrated systems - easy to use
- User-friendly interfaces through any device
- Automatic monitoring and adjustment of all systems
- Efficient enabler of sustainable development and Green Buildings

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شكرا

Thank you!