

Automated Control Systems



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What is automated control system?

Automated Control System – is a software/hardware solution that integrates the engineering systems* of the residential/public/industrial facility or components of the industrial line in a single point and provides their centralized management and monitoring.

*(e.g., lighting, water supply, ventilation, etc.)

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Automated control systems advantages

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Maximum safety

Ensuring maximum safety of people and minimizing material damage by means of reducing the "**human factor**" role in emergency situations.



Cost reduction

"Scenarios" are used and the efficiency of engineering systems is increased, so the costs **are reduced 10% to 30%**.



Operating costs

Increase in the service life of the engineering systems **by up to 50%** thanks to the automation of the operations related to the control of their components.



Convenience and efficiency

Increase in the efficiency of labour of technical staff **by up to 60%** thanks to the automation of the routine operations.

How does it work?

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Primary level

Designing and installation of different controllers, sensors, as well actuation devices and mechanisms.



Automation level

The installation of the controllers that function as a "brain" between the control level and primary level.



Control level

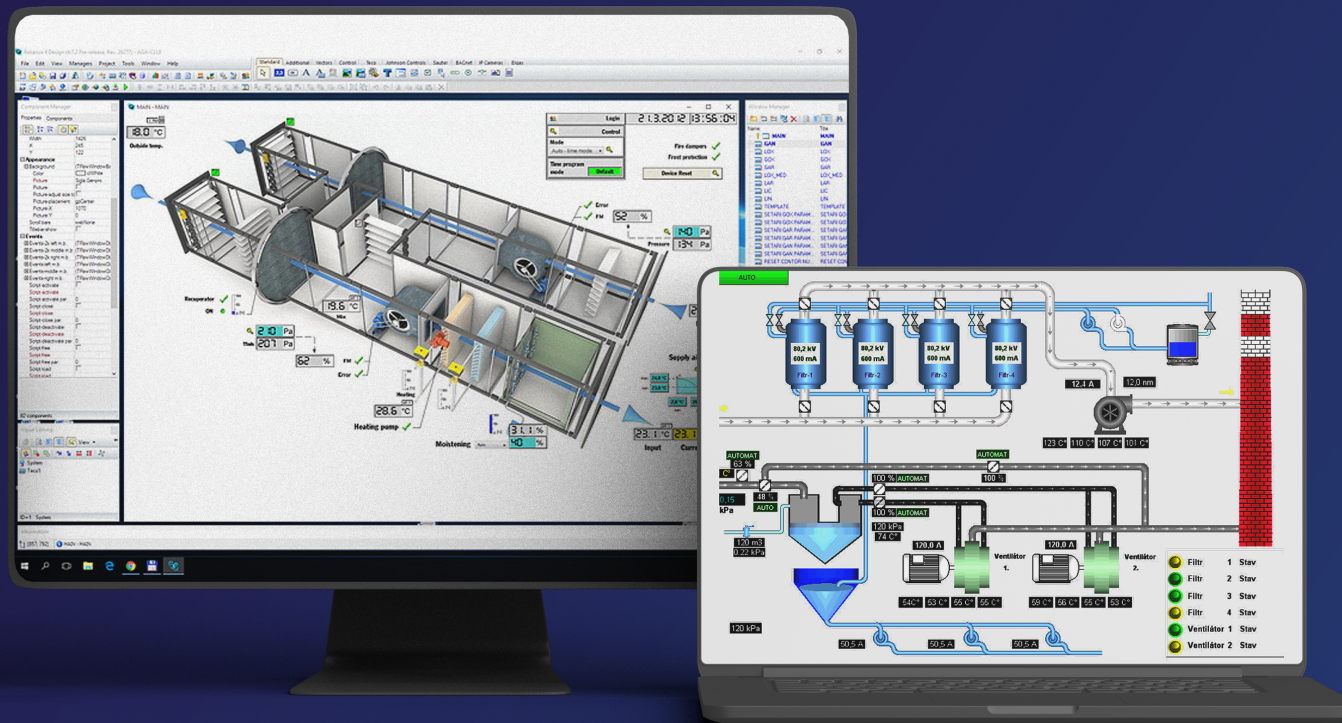
Integration of **SCADA** (*Supervisory Control and Data Acquisition*) software system for centralized control and monitoring.



What is SCADA?



SCADA systems are designed for monitoring and dispatching control of a great number of remote objects (even at a distance of tens of kilometres from each other) or one geographically distributed object.



Stages of our service



What does our customer get?

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Automatized management

This is performed by an operator, who sends required commands to engineering systems via software interface (for example, turn on lighting and heating in Zone A).



Monitoring

Status and activities of engineering systems are tracked in real-time mode; the received data is recorded into log-files.



Automatic management

This is performed without the intervention of an operator - basing on scenarios, which are developed in advance (for example, at the end of work day - at 6 PM, turn on lighting and heating in Zone A, B and C).



Analytics

Basing on gathered data, detailed records are formed (for example, a report on electrical power usage by air conditioning system during the last month period).

Private segment

The Automated Management System installed in hotels, business and shopping centers, administrative buildings, hospitals and other public facilities allows managing all life-support systems of the facility:

- Heating, ventilation and air conditioning
- Power supply
- Water supply
- Lighting
- Fire alarm
- Access control
- and so on.

The Automated Management System can be applied in any public facility with an area of more than 500 m²

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Our customers

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Baku Crystal Hall

A multipurpose sports and concert arena 30 958 m² in area.

Development, implementation and technical support of BMS for the systems listed below:

- Electrical power supply
- External and internal lighting
- Heating, Ventilation and Air Conditioning (HVAC)
- Fire-alarm
- Access control



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CRYSTAL
HALL

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Azerbaijan Supermarket "Bravo"

"Storehouse & Hypermarkets" project

Technical support of Building Management System

for Storehouse and Hypermarkets:

- Heating, Ventilation and Air Conditioning (HVAC)
- Climate control
- Smoke, water and gas leakage detection
- Drainage water tank monitoring
- Rooftop unit control system



Residential segment

Smart residential complex consists in different systems, the purpose of which is to create convenient tool for controlling the utility costs (Push notifications, meter and utility fees readings) and convenient management environment for managing company (creating and editing resident's accounts, access control, etc.).

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Four Seasons Hotel Baku

One of the largest five-star hotels in Baku

Technical support of BMS for the systems listed below:

- Electrical power supply
- External and internal lighting
- Heating, Ventilation and Air Conditioning (HVAC)
- Water control



FOUR SEASONS
HOTELS AND RESORTS

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JW Marriott Absheron Baku Hotel

"Technical Support & Technical Procurement" project

Technical support & technical procurement for the systems listed below:

- Heating, Ventilation and Air Conditioning (HVAC)
- Supply of certified Siemens and Sauter products and services



JW MARRIOTT.
ABSHERON
BAKU

Food and Beverages segment

The concept of industrial automation in the Food and Beverages industry includes various elements such as PLCs, quality control systems, SCADA systems, robotic processing, and specialized software solutions.

The main goal of industrial automation in the Food and Beverages sector is to enhance safety, increase productivity, streamline efficiency, and maintain consistent quality. It is widely applied in food processing plants, beverage production lines, and packaging facilities.



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Breadfield (Georgia)

McDonald's buns bakery in Tbilisi

Technical support of BMS and production lines for the systems listed below:

- Siemens PXC Controllers and Desigo CC BMS System
- Production lines using multivendor automation equipment (i.e. Allen Bradley, Veka, Siemens S7)



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Tolia (Georgia)

Ice cream factory in Tbilisi

Technical support of production lines for the systems listed below:

- Production lines using multivendor automation equipment (i.e. Allen Bradley, Siemens S7, OMRON, etc.)



Industrial segment

The concept of industrial automation includes many elements, e.g., programmable controllers (PLC), security systems, SCADA systems, drive technology and other related software products.

Main goal of industrial automation is to improve the safety, productivity, efficiency and quality of the processes. Industrial automation is applicable in plants, oil and gas platforms, chemical production, etc.

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Maerz (Switzerland)

Matanat-A Azerlime Factory (lime factory in Qazakh, Azerbaijan)

Technical support of BMS for the systems listed below:

- Restoring the functionality of the plant control system.
- Siemens PCS7 troubleshooting
- Modification of the DCS network infrastructure.

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Goygol Alcohol Factory

Establishment of control and accounting system for the production of alcoholic products

Our activities within the project:

- Investigation of the existing infrastructure of plants producing alcohol and alcoholic products
- Building a centralized automated system (CAS) model for collecting and analyzing data on manufactured products
- CAS integration with the existing factory infrastructure

Xan
1860

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Modernization of turbine test bench

Our activities within the project:

- Development of circuit diagrams
- Equipment selection
- Installation & commissioning



Our Partners

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SIEMENS



Thank you for attention!

Contact us

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