



COMPLETE SOLUTION FOR THE FUEL AND ENERGY SECTOR

RESILIENT POWER SYSTEM RELIES ON A RELIABLE IT INFRASTRUCTURE

- increase the efficiency of resource use;
- reduce operational costs and increase the reliability of IT systems;
- ensure end-to-end planning and control.



Compass Engineering

sets a course for digital transformation goals using an integrated approach to building engineering and IT infrastructure



PROFESSIONAL SERVICES



MODERN IT SYSTEMS

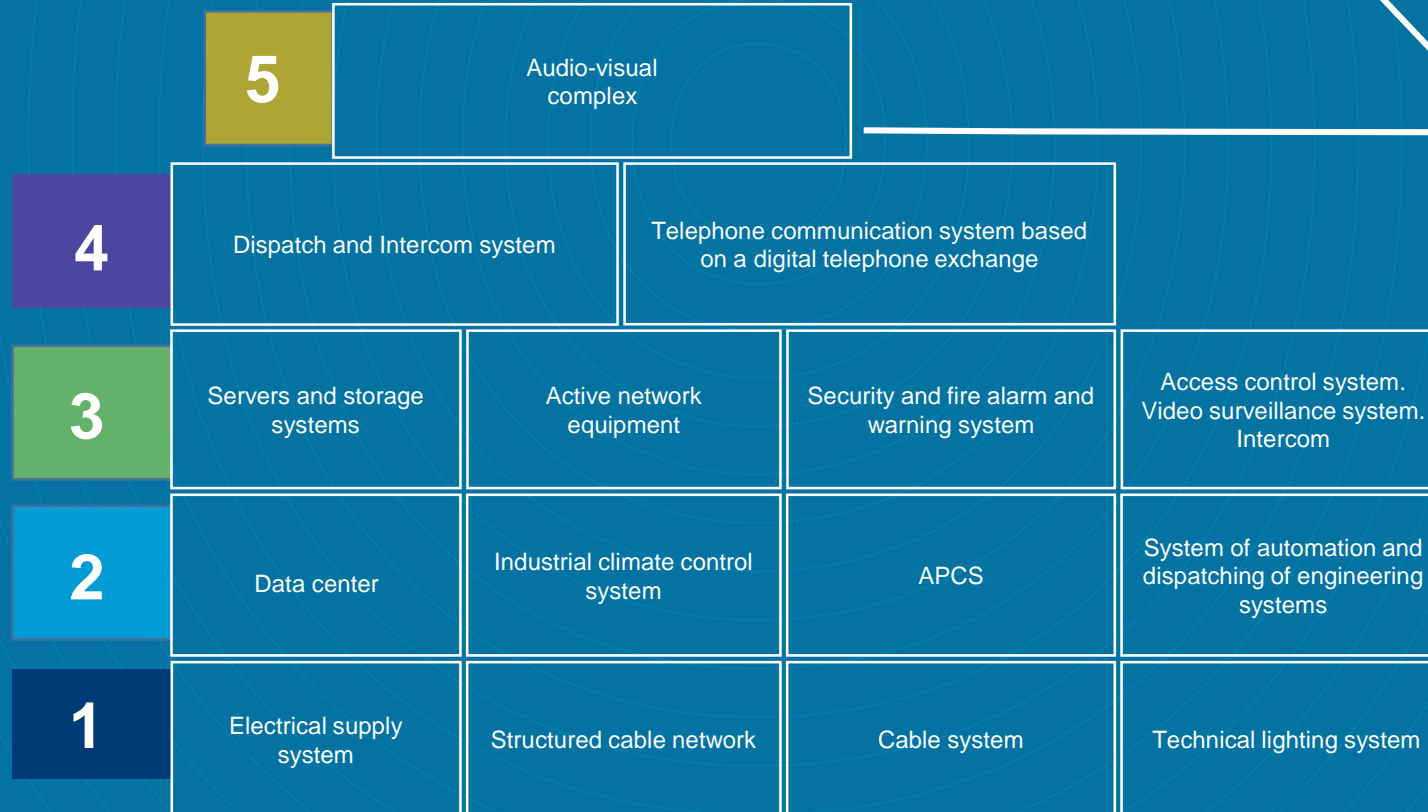


INTEGRATION WITH INDUSTRY
BUSINESS APPLICATIONS

COMPONENTS OF A COMPLETE SOLUTION



FUEL AND ENERGY COMPLEX



ELECTRICAL SUPPLY SYSTEM

Ensures the uninterrupted operation of technological and business processes, reduces the company's energy dependence on the external power grid and increases the overall resilience of the engineering infrastructure



- Ensuring the continuity of technological and business processes, reducing the risk of financial losses.
- Ensuring the reliability and resilience of the engineering infrastructure.
- Compliance with safety standards and requirements.
- Optimization of the structure and cost of the power supply system through the competent division of electricity consumers into groups.
- Guaranteeing the quality of electricity, regardless of the parameters of the external grid.
- Optimization of electricity costs.
- Centralized monitoring of key power supply parameters and equipment status.

Schneider
Electric

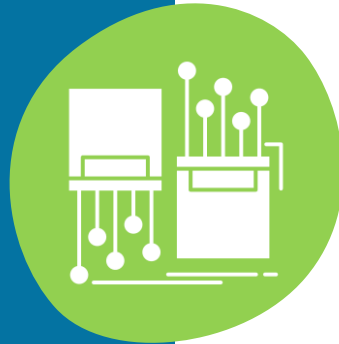
SIEMENS

legrand

ETI

STRUCTURED CABLE NETWORK

Creates a unified enterprise data environment



- Seamless and uninterrupted operation of the company's IT infrastructure
- Flexibility and scalability of the solution with the ability to expand the system and change during its operation

COMMSCOPE®

 **legrand**® **PANDUIT**®

CABLE MANAGEMENT SYSTEM

Creates an environment for external or internal cable laying for various types of networks (alarm system networks, fire extinguishing system networks, electrical networks, telephone networks, computers, TV networks, etc.)



- Easy installation of cables and wires and their subsequent maintenance
- Easy extension of cable routes
- Convenient and affordable further modernization and reconfiguration
- Ensuring electromagnetic compatibility
- Corrosion, barrier and fire protection of the cable
- Reliable and convenient maintenance of connections
- Electrical safety

OBO
BETTERMANN

legrand[®]



TECHNICAL LIGHTING SYSTEM

Ensures comfortable activities, normal passage of people, as well as safe traffic



- Timely adjustment of lighting to the architecture, equipment and customer requirements ensures clear and uninterrupted installation work
- Compliance with architectural requirements
- Ensuring light comfort
- High uniformity of lighting
- Optimization of energy costs
- Power redundancy
- Flexible monitoring and control options

DATA CENTERS

Allows you to centralize the capacity for storing and processing information, increase security, reliability, speed of access to information and its processing



- Increase the efficiency of server, networking and storage equipment
- Mobility when building a container solution
- Savings in operation
- Data protection and regulatory compliance
- Scalable to meet the variable capacity requirements of business applications



INDUSTRIAL CLIMATE CONTROL SYSTEM

Provides comfortable climatic conditions for staff and equipment



- Ensuring the operation of mobile and fixed-line communications, data centers, and industrial equipment in normal climatic conditions.
- Reducing the cost of system ownership
- Saving usable space
- Use of waste heat in adjacent systems

AUTOMATED PROCESS CONTROL SYSTEM

Manages all engineering systems within a single center and automates centralized monitoring of deviations



- Continuity of control and independence from the "human factor"
- Prompt prevention of emergencies and their timely detection, reduction of the consequences of accidents
- Increased MTBF
- Efficiency in responding to emergency and pre-emergency conditions of engineering equipment, planning of preventive repairs
- Reducing the number of service personnel
- Energy saving due to optimal management of engineering equipment
- Increased level of comfort and safety

AUTOMATION AND DISPATCHING SYSTEM FOR ENGINEERING SYSTEMS

Provides effective management of the entire engineering complex of the facility from a single control center



- Reducing operating costs due to energy saving
- Reducing the cost of repair and replacement of engineering equipment
- Coordinated and unified operation of all building subsystems
- Access to manual control of building equipment from mobile devices
- Reliable password system and integration with BMS of access control and barrier management systems, burglar and fire alarms, elevators, escalators, etc.
- Remote temperature change in each room separately
- Early warning of emergencies and automatic recovery of arising defects/accidents
- Improving the energy efficiency of the building
- Identification of sources of inefficient energy use per day, month, year, etc.
- Elimination of misuse of energy resources (monitoring and control of water, heat and electricity supply)
- Reducing the human factor in management
- Prompt response to unforeseen events
- Loyalty of employees and customers due to comfort and use of innovative energy saving technologies

SERVICES AND DATA STORAGE SYSTEMS

Provides reliable storage of information resources and guaranteed access to them. Storage systems can be both part of and the backbone of a data center

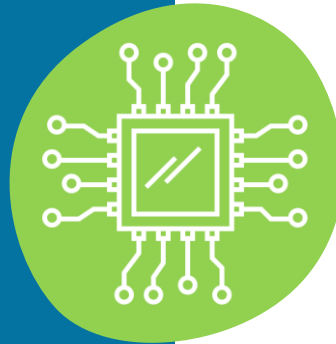


- Reliable operation of all systems and services, including management systems and web resources
- Protection against tampering and data deletion
- Increasing the speed of information processing
- Search for the necessary data in information and disc arrays
- Continuous operation of production, system and technological services in compliance with the required level of service quality.



ACTIVE NETWORK EQUIPMENT

Forms the basis for organizing the IT infrastructure of the enterprise and ensures efficient and secure information traffic, serves as a medium for signal amplification and conversion



- Internet access (wired and Wi-Fi)
- Access to multimedia services
- Video conferencing
- Support for all connections simultaneously and with the specified quality
- Full control and management of the created network
- Guaranteed signal strength and speed, regardless of the user's location



SECURITY ALARM SYSTEM

Provides timely notification of the security service about the penetration or attempted penetration into the building, its separate premises or the surrounding area, with fixation of the fact, place and time of violation of the security boundary



- Timely notification of unauthorized persons entering the protected area
- Constant monitoring of the situation in residential, office, industrial premises, external and internal perimeter, regardless of the area of the protected object and time of day
- Ensuring a high class of security in sensitive areas
- Timely warning about the dangers and risks of fire, accidents and emergencies
- Integration with other security systems

ACCESS CONTROL SYSTEM. INTERCOM

Solves the tasks of controlling and managing visits to individual premises, as well as operational control of personnel movement and time spent on the territory of the facility



- Creation of an integrated security complex (integration with related systems, including IP communication)
- Preventing access of unauthorized persons
- Ensuring a high class of security in critical premises
- Accounting of employees' working time
- IP intercom system at the entrance groups
- Blocking the repeated passage of a user without his/her prior exit
- Temperature screening at entrances, etc.
- Possibility to generate a hidden alarm in case of forced door opening.

Akuvox  **SUPrema**

 **inner range**

AXIS[®]
COMMUNICATIONS

VIDEO SURVEILLANCE SYSTEM

Allows you to receive information about the state of the protected object (technological process) by collecting, processing, archiving, storing, displaying and analyzing this information



- Remote monitoring in critical areas
- Video evidence protection
- Control over personnel actions
- Video control of service quality
- Integration with related systems (creation of an integrated security complex)
- Application of video analytics (face recognition, car number recognition, visitor accounting, quick investigation of incidents, generation of automatic alarms, etc.)

AVIGILON™ Tiandy MOBOTIX



COMMUNICATION SYSTEM BASED ON DIGITAL AUTOMATIC TELEPHONE EXCHANGE

Ensures the organization of high-quality internal and external communications between employees through a telephone system



- Analysis of data on incoming, outgoing, missed and processed calls or comparing the cost of any call
- Quickly add new subscribers and delete unnecessary ones
- Large internal network with short numbers
- Secure communication without interruptions
- Savings on equipment installation and monthly costs
- Conference calls without loss of signal quality
- Multichannel capability
- Organization of communication for emergencies

Panasonic

 GRANDSTREAM

Yealink


CISCO™

DISPATCH AND INTERCOM SYSTEM

Provides operational dispatching, loud-speaking communication, emergency calls and loud alerts with the central server



- Stable communication in ordinary offices, car parks and restaurants, as well as in the harshest environments (temperature extremes, exposure to aggressive chemicals, dust, moisture and noise)
- Setting up flexible scenarios for interaction with other engineering systems (building automation).

Akuvox 

BOSCH  **FONESTAR**

interM 

AUDIO-VISUAL COMPLEX

Provides a visual representation of images, video, audio, as a rule, with the possibility of organizing video conferencing and recording what is happening



- A full range of audio-visual support for events in the conference hall, sound and video information in restaurants, bars, lobbies
- General broadcast of advertisements, music programs, video and audio messages

BOSE **JBL** **Panasonic** **NEC**

Yealink **SHURE** **AVer**  **SENNHEISER**

Compass Engineering
leads to the goals of digital
transformation in an optimal way

We create the foundation – the
engineering and IT
infrastructure, which gives
companies the ability to use
resources efficiently.



- **10** years of experience
- **50+** certified specialists
- **6** areas of work
- We work in Ukraine, Central Asia and Eastern Europe
- **9** comprehensive industry solutions
 - management system
 - ISO 14001:2015, ISO 9001:2015
 - project approach

OUR APPROACH



Compass Engineering

considers the IT infrastructure of an enterprise as an integral ecosystem.

In our projects, we link the strategic goals of our customers with the solutions needed to achieve them.

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**COMPASS
ENGINEERING**



Path to Success

**Setting the course
for digital
transformation goals
since 2008!**

c-e.world