



MASTERSCADA 4D

**THE MODERN TECHNOLOGIES
FOR INDUSTRIAL PROCESS AUTOMATION**

2026

MASTERSCADA 4D



35 years

in automation market



150 000+

projects



30+

industries



Russia

Software



IEK DIGITAL TEAM

- SOFTWARE DEVELOPERS
- ANALYSTS
- TESTERS
- SYSTEM ARCHITECTS
- TECHNICAL SUPPORT ENGINEERS
- ENGINEERS FROM VARIOUS INDUSTRIES
- SALES & PRE-SALE



In total 170 specialists

AUTOMATION PYRAMID

iek
DIGITAL

ERP
MES



SCADA

MASTERSCADA

CONTROL



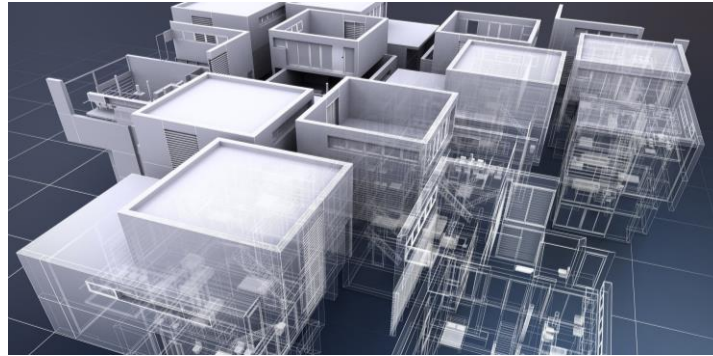
DEVICE



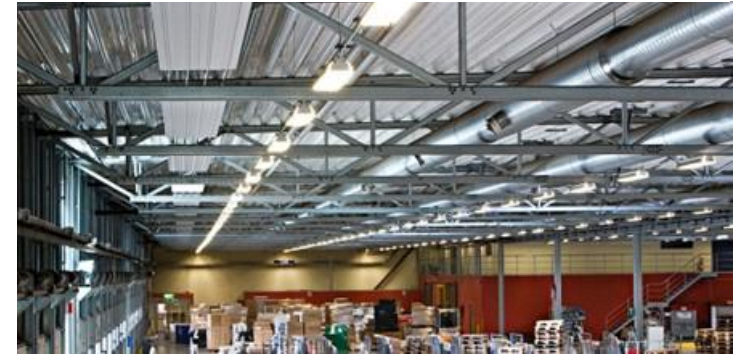
SOFTWARE PRODUCT ECOSYSTEM



- MasterSCADA 4D
- MasterSCADA 4D (WEB)
- MasterOPC
- MasterPLC



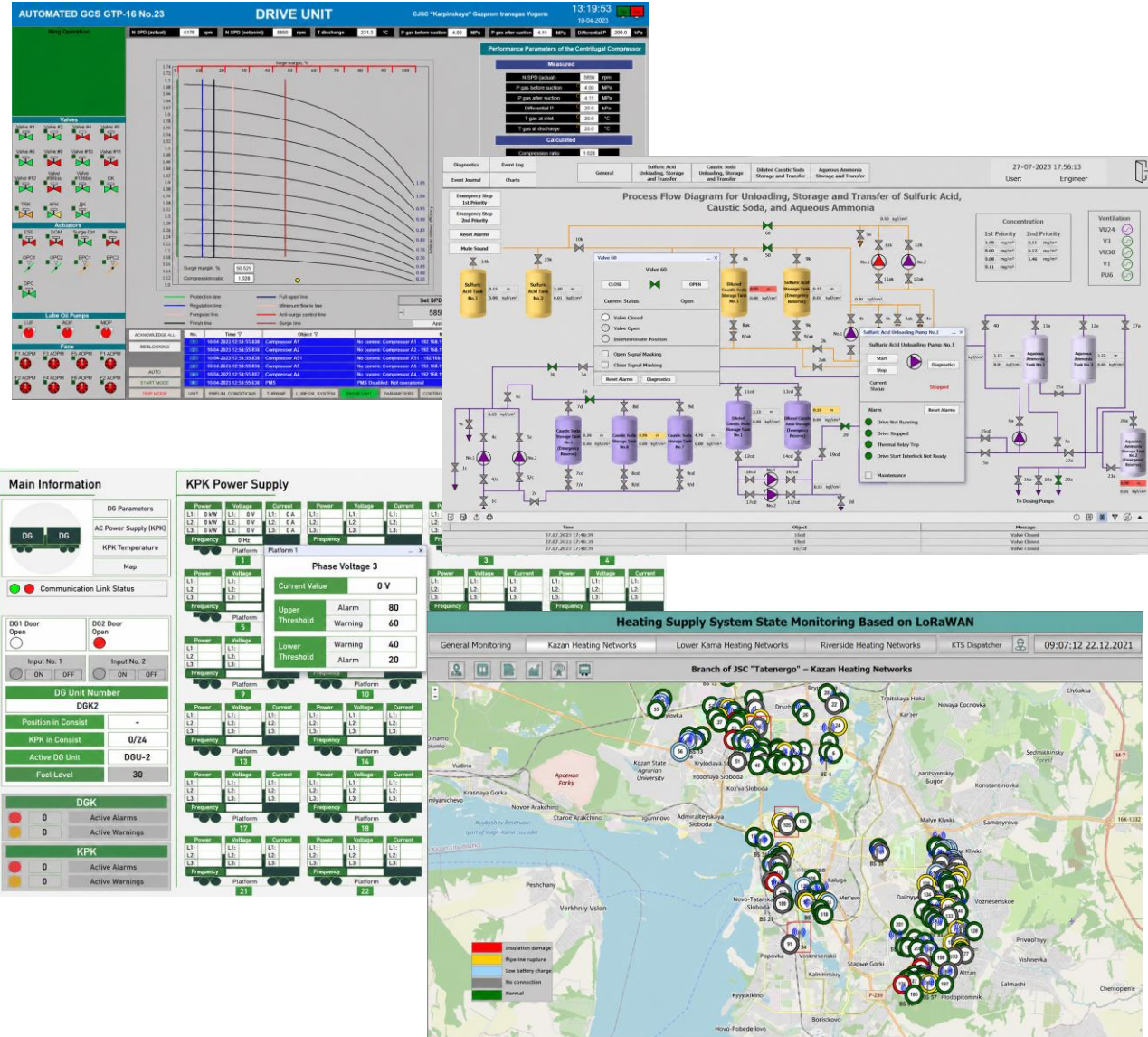
- MasterBMS
- MasterCAD
- MasterDigitalTwin



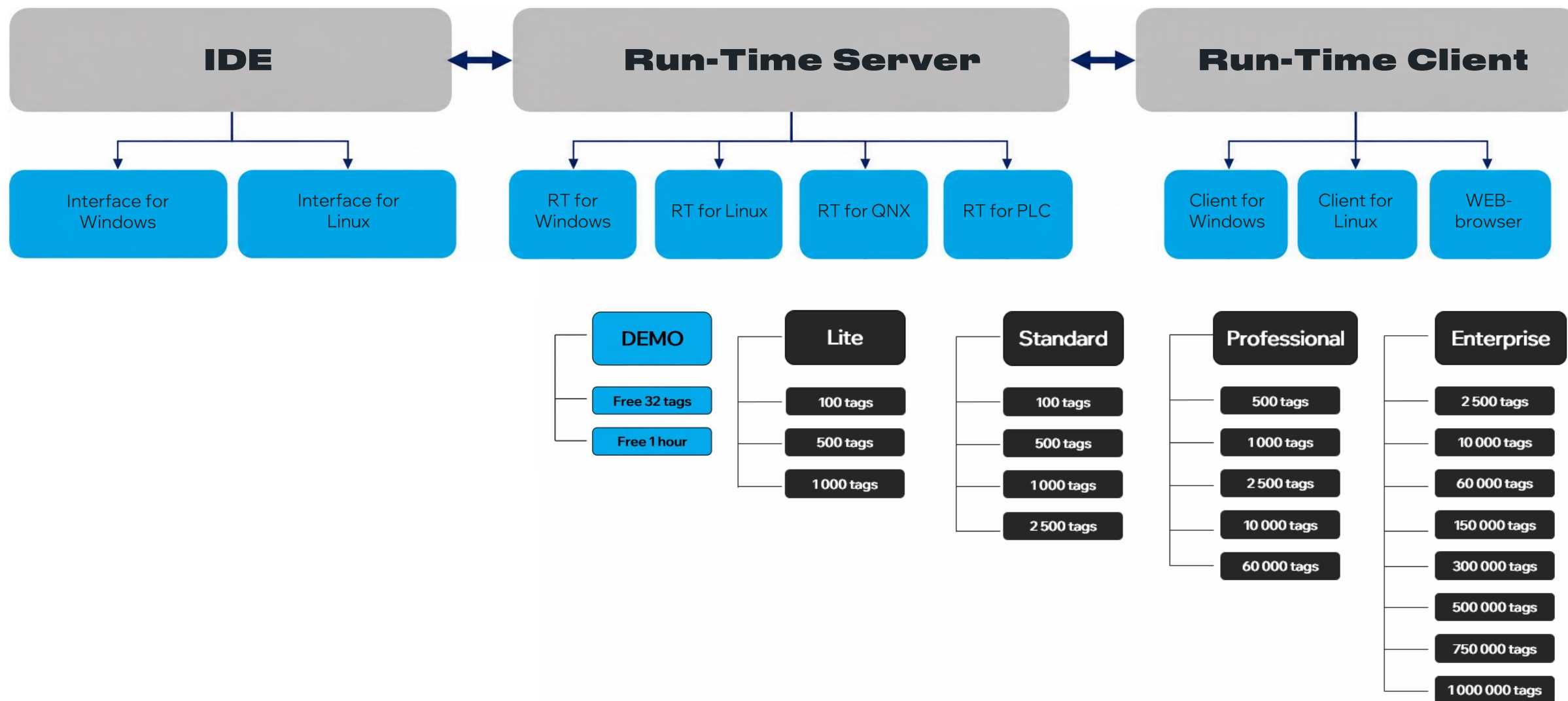
- IEK ERM
- IEK IIoT Platform
- AIM IQLink

MASTERSCADA 4D

- Flagship product – innovative platform for data collection, processing, visualization and control
- Different sizes of systems – stand-alone, client-server, and DCS systems
- Cross platform capability – Windows, Linux, QNX, Android
- Run-time environment based on HTML5 technology
- Support for 50 industrial communication protocols and 10000 different types of hardware equipment
- Size of the system - up to 1 million parameters or tags
- Providing reliability and redundancy functions
- Free project development environment with detailed documentation and tutorials

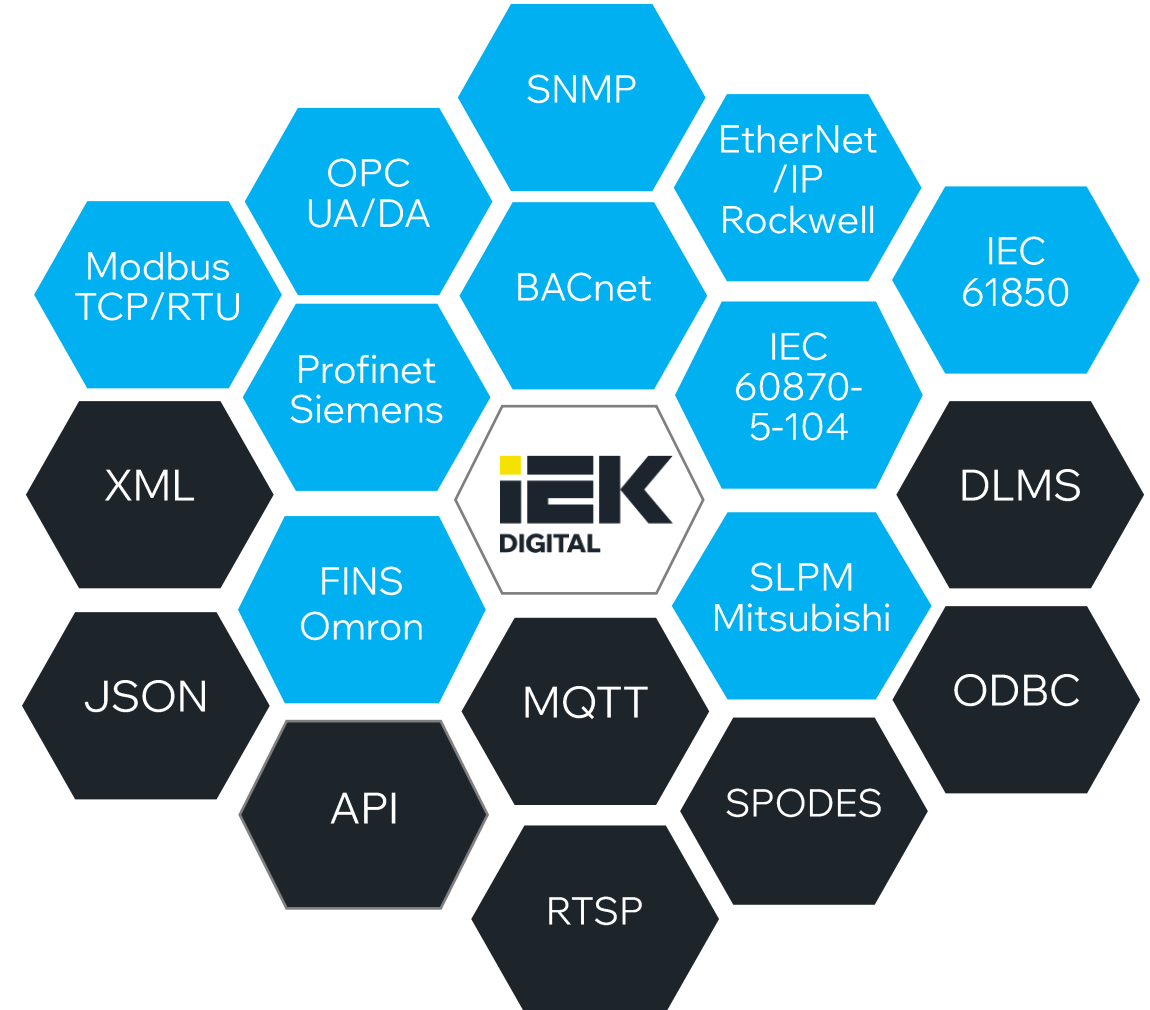


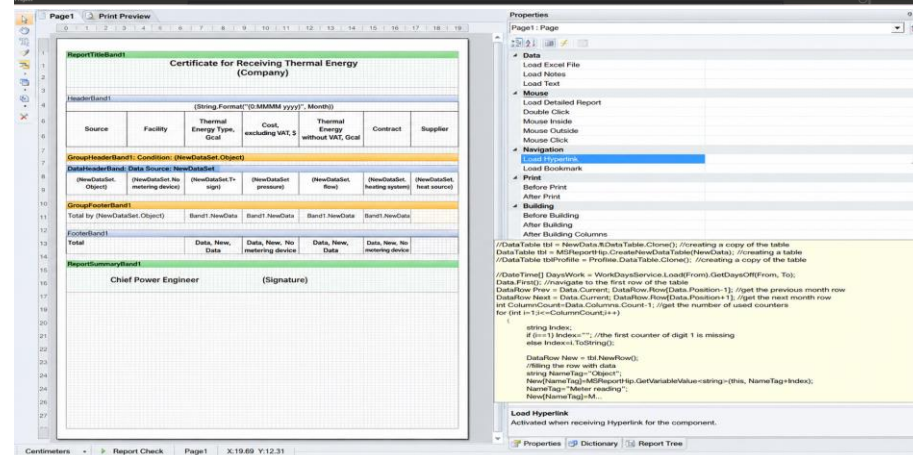
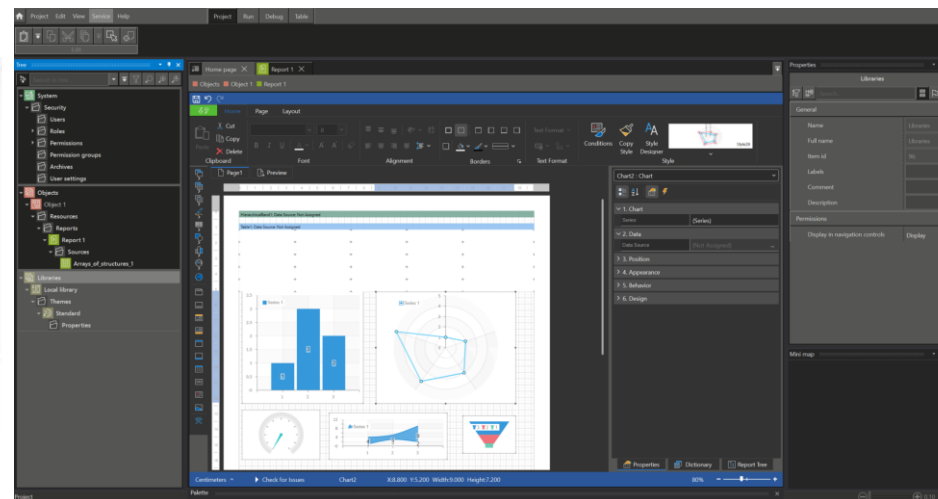
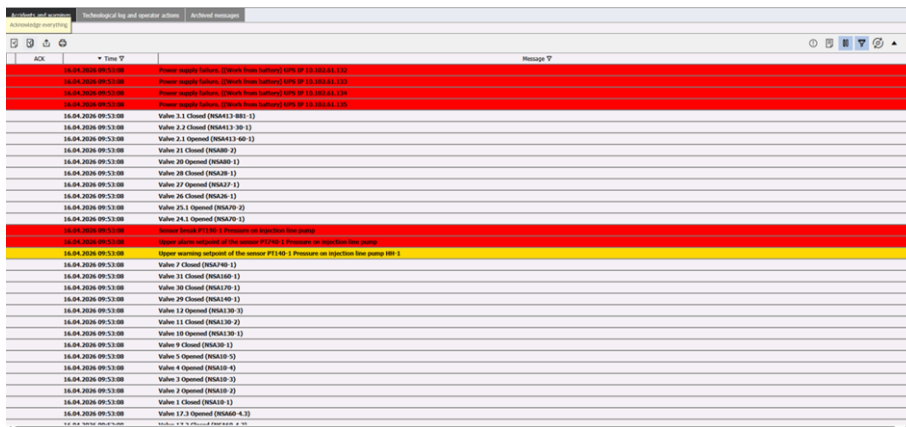
ARCHITECTURE AND LICENSING



COMMUNICATIONS

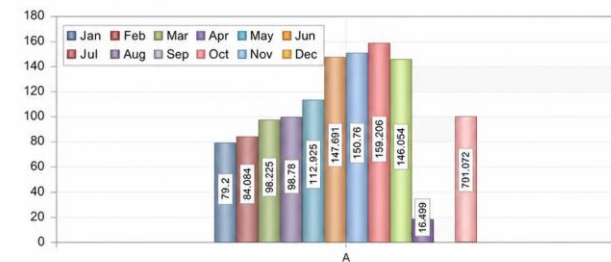
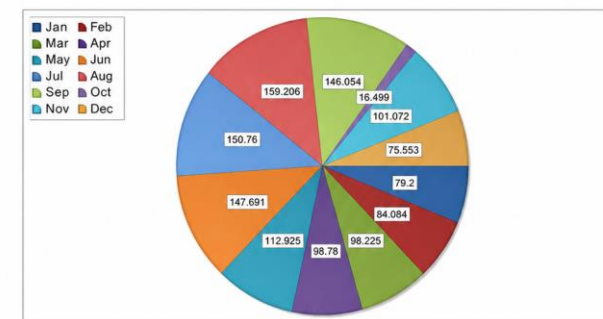
- OPC DA/UA/HDA
- MODBUS, BACNET, PROFINET, OMRON, MITSUBISHI
IEC 60870-5-104, IEC 61850, DLMS, SNMP
- MQTT - INTEGRATION WITH IOT DEVICES AND CLOUD
- ODBC-CLIENT - DATABASE INTEGRATION
- PROTOCOL CONVERSION TO OPC UA, MQTT, IEC 60870-5-104
- PROTOCOLS OF ELECTRICITY AND HEAT METERS
- OPEN API WITH ACCESS TO THE OBJECT MODEL
- WRITING DRIVERS FOR INTEGRATION IN C#/C++ LANGUAGES



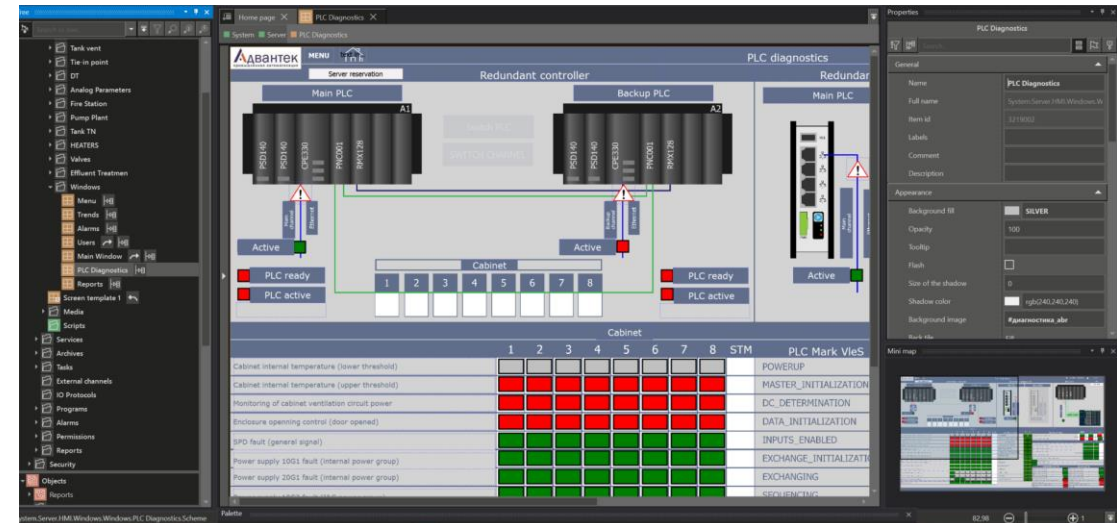
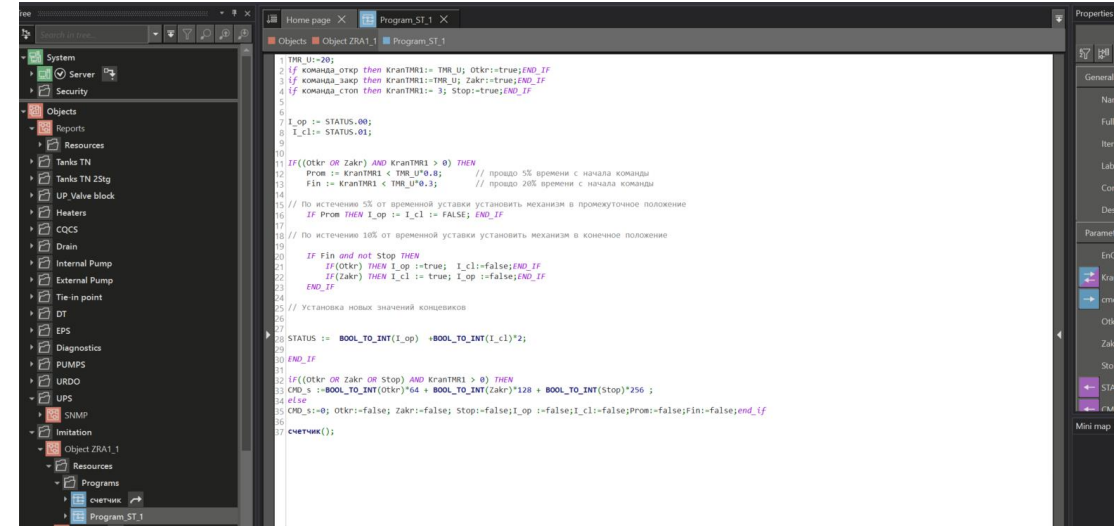


January	February	March	April	May	June
79.2	84.084	98.225	98.78	112.925	147.691

July	August	September	October	November	December
150.76	159.206	146.054	16.499	101.072	75.553

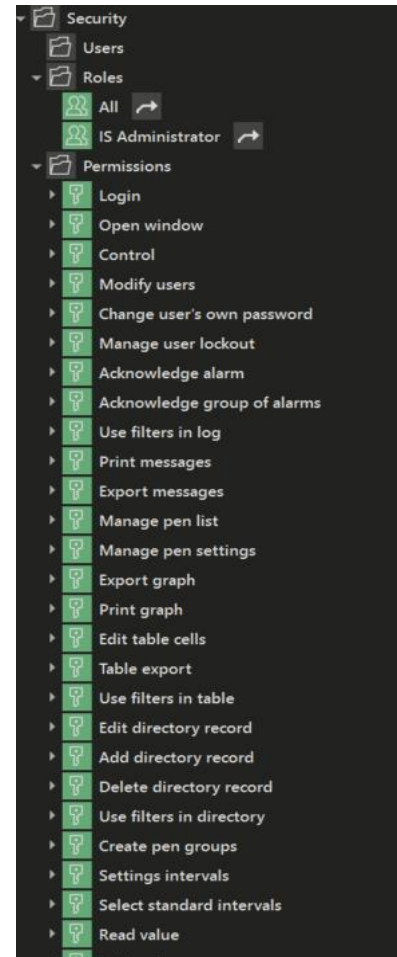


- OBJECT-ORIENTED APPROACH
- REPLICATION, TYPIFICATION, INHERITANCE
- 100+ TYPES OF READY-MADE COMPONENTS
- BIG LIBRARY OF MATH and LOGIC ELEMENTS
- GRAPH MODULES FOR MULTIPLE INDUSTRIES – OIL-GAS, ENERGY, FOOD, METTALURGY
- EMBEDDED DASHBOARDS, WIDGETS, WEB-COMPONENTS
- IEC 61131-3 + C# PROGRAMMING LANGUAGES SUPPORT – ST, FBD, SFC, LD, IL



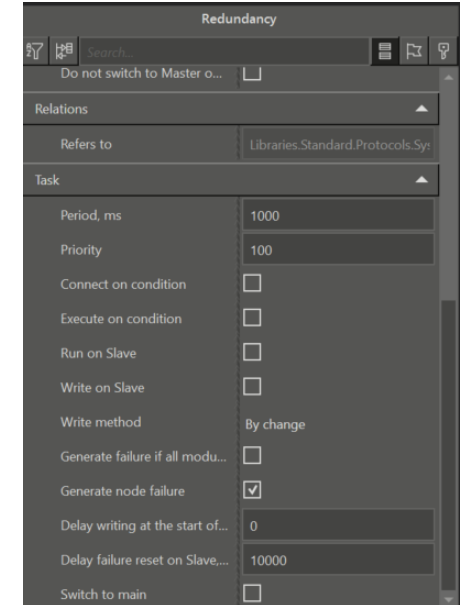
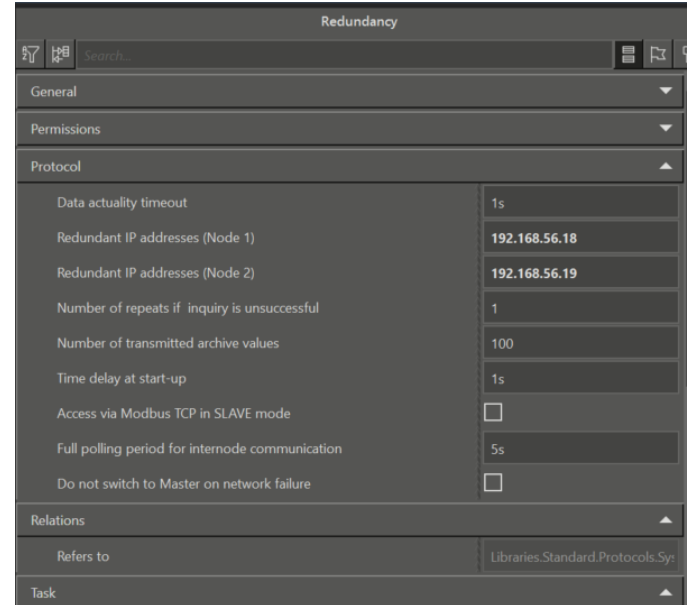
INFORMATION SECURITY

- PREVENTING FROM THREATS LEADING TO EQUIPMENT FAILURE AND DATA LOSS
- IMPLEMENTATION OF ACTIVE DIRECTORY & LDAP FOR WINDOWS & LINUX on OS level
- ROLE BASED ACCESS CONTROL SYSTEM CREATING DIFFERENT ROLES-PROPERTIES
- STORING LOGS TO THE SYSLOG SERVER
- WIDE POSSIBILITIES OF PASSWORD POLICY CUSTOMIZATION
- PROJECT INTEGRITY CONTROL
- PASSWORD REQUEST WHEN LOGGING OUT



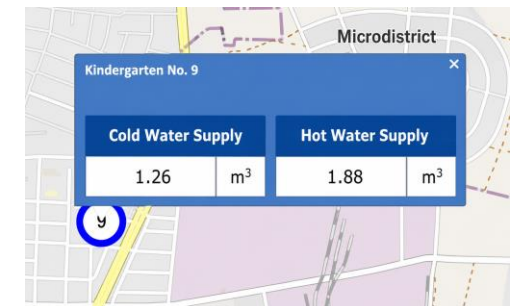
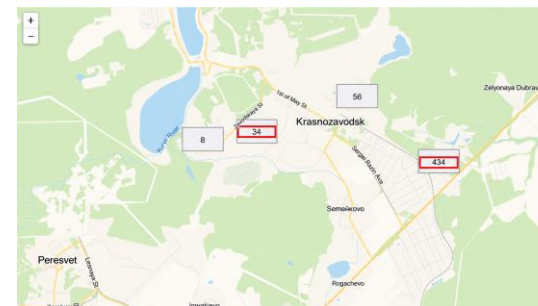
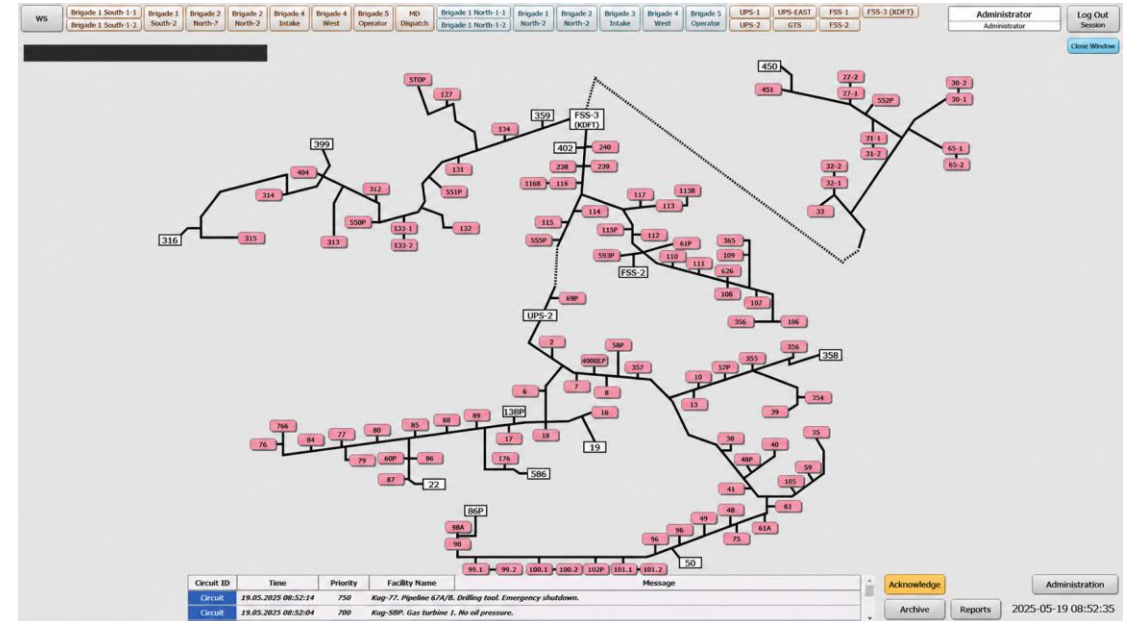
RELIABILITY

- HELP AVOID FINANCIAL COSTS IN CASE OF HARDWARE FAILURE OR COMMUNICATION LOSS
- REDUNDANCY OF SERVERS, AWS AND COMMUNICATION CHANNELS
- SYNCHRONIZATION OF CURRENT AND ARCHIVE DATA
- 10000 RECORDS PER SECOND
- PROJECT INFORMATION STORAGE IN POSTGRE
- FLEXIBLE FAULT CUSTOMIZATION - WORKING WITH STATES AND ATTRIBUTES



INTEGRATION WITH GIS-SYSTEM

- SUPPORT FOR OPEN STREET MAP И YANDEX MAPS
- OFF-LINE MAPS
- POSSIBILITY OF EMBEDDING MAPS AS PART OF A MNEMONIC SCHEME
- LOCATION OF OBJECT MARKERS ON THE MAP AND THEIR DEPLOYMENT



INDUSTRIES AND DEPLOYMENTS



Oil & Gas
(Upstream)



Oil Storage



Building & Facility
Automation - BMS



Thermal Power
Engineering



Infrastructure



Water & Waste
water



Data Center



Gas Transmission &
Distribution



Mining & Minerals



Defense Industrial Base



Nuclear Industry &
Power Generation



Aerospace &
Defense



Agriculture



Manufacturing &
Production



Food & Beverage

THEY TRUST US



Petroleum storage
tank control system



Electricity supply management



ROSATOM

ACS of process protections of NPP power
units



Automated Control System
for CNG Stations



Automation of individual heating points



Control room of electromechanical and



Monitoring of engineering infrastructure



Dispatching of facilities



Telemechanics of objects gas industry



Automated process control system of the
field's oil and gas condensate treatment
unit



System for measuring oil quantity and quality
indicators

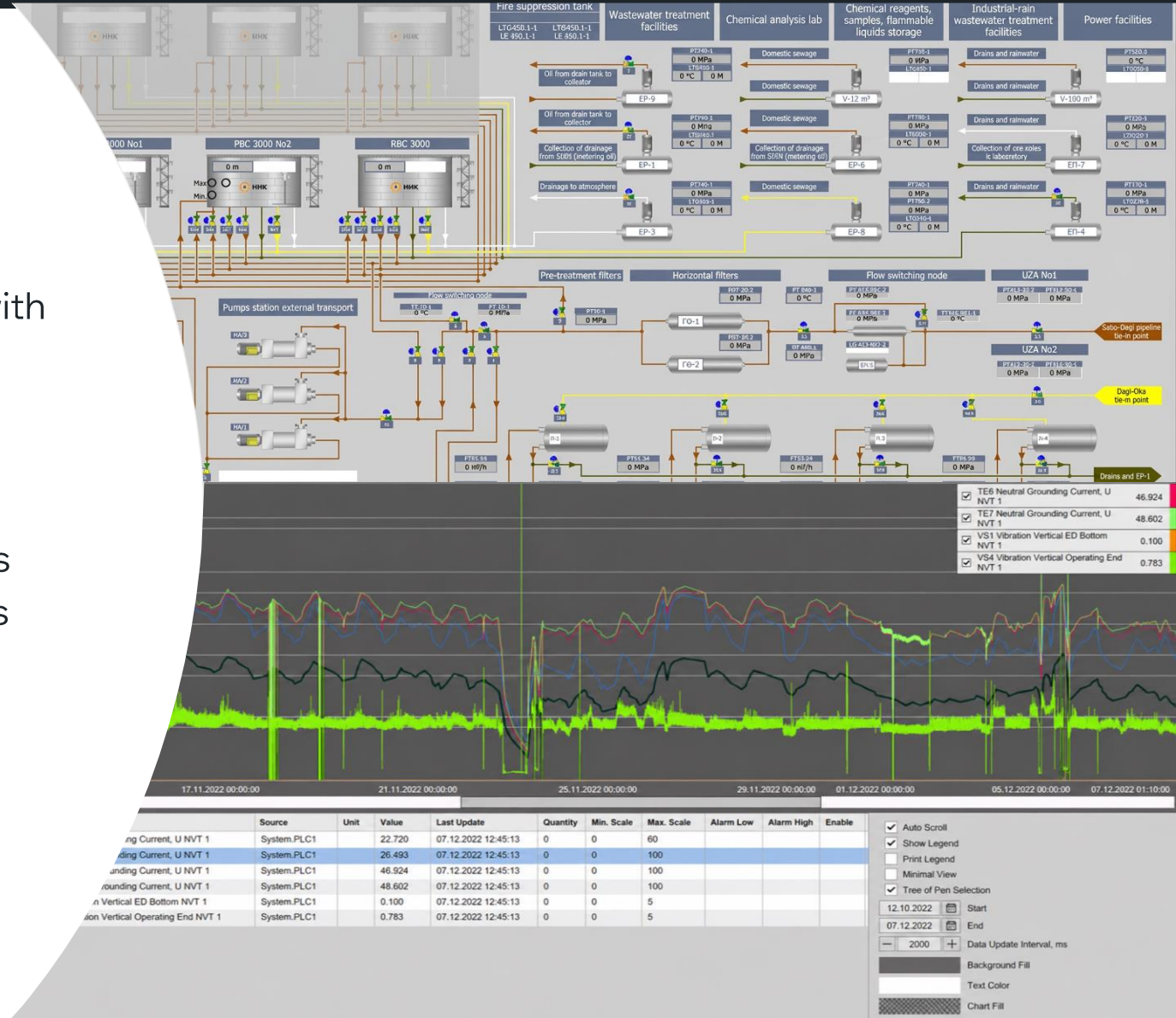
OIL DEPOT - SAKHALINMORNEFTEGAS



Customer: NNK-Sakhalinmorneftegaz LLC

Facility: Sakhalin-1 - Oil acceptance point

- Full redundancy of SCADA and PLC, communication with client DCS with high fault tolerance
- Tasks - data acquisition processing and control
- Full logging of operator activity
- Automated reporting
- Guaranteed data transmission speed within 2 seconds
- Operational accounting of products and material flows
- Client-server architecture
- System size - 53.000 tags - input/output signals

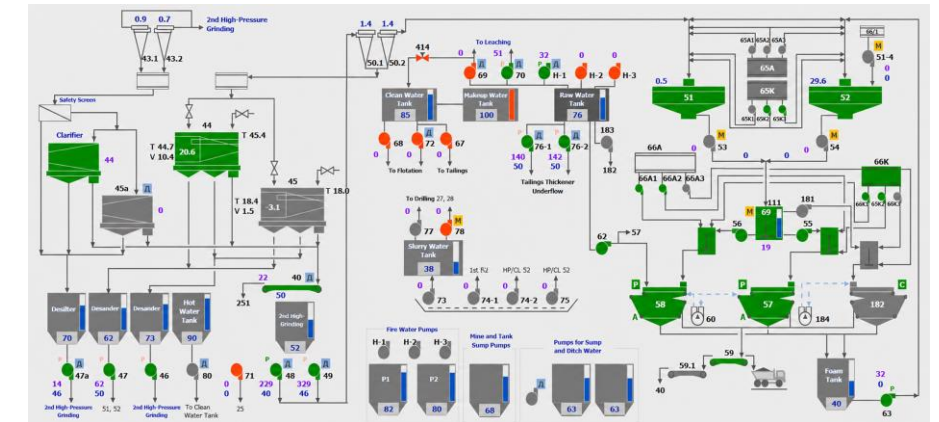
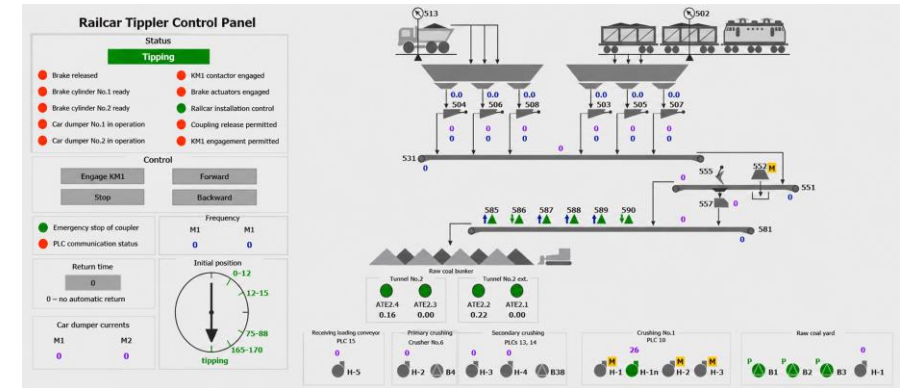


COAL PROCESSING PLANT - LISTVYAZHNAYA

Customer: SDS Ugol

Facility: Listvyazhnaya Processing Plant

- Facility of Hazard Class 2 - rigorous requirements to control system and equipment
- Import substitution of Wonderware software and integration with Modicon Schneider Electric PLC
- Migration of client proprietary algorithms for calculating shipments and weight
- Role-based access control – supervisor, loading operator, power engineer
- Local system with 3 operator workstations
- System redundancy with remote access from AWS
- Monitoring of communication networks, PLC and UPS
- System size - 60.000 tags - input/output signals



Agrotech-Inform

- Customer – Agrotech Inform Holding
- Facility - Agribusiness Kursk, Dmitrova Gora
- SCADA of 29 livestock complexes
- Air control – temperature, humidity, flow composition
- System size - 150 000 tags

Miratorg

- Customer - Miratorg
- Facility – Meat Processing Plant – Kursk
- Integrator: LCC AMaster
- SCADA – Meat production control and ventilation
- Number of connected clients - 15
- System size - 60 000 tags

Baltika

- Customer - Baltika
- System integrator – Solisoft
- Facility – Brewery Novosibirsk
- SCADA and with MES functions
- # of connected clients - 20
- System size - 10 000 tags



THANK YOU FOR YOUR ATTENTION

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