



<https://www.ornovaintegrasolusi.com>



SCADA  HMI

Flexible and User-Friendly SCADA/IoT Platform. Access It Easily Through Your Browser

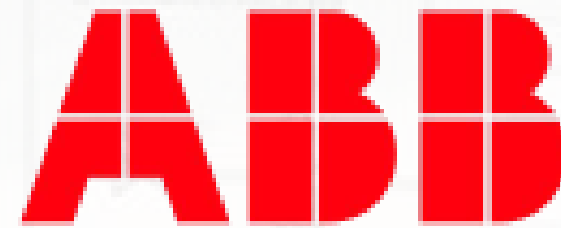


About Ornova Integra Solusi

ORNOVA INTEGRA SOLUSI delivers a modern, user-friendly SCADA platform designed to simplify configuration and operation while helping businesses improve safety, efficiency, and overall performance. We specialize in industrial automation, building management systems, Industrial Internet of Things (IIoT), and manufacturing digitalization. With experience across various sectors such as oil and gas, energy, chemical and petrochemical, mining, utilities, and agriculture, we provide reliable and secure solutions tailored to each client's specific needs. Our services cover the entire lifecycle, from system design and development to implementation, technical support, and user training.

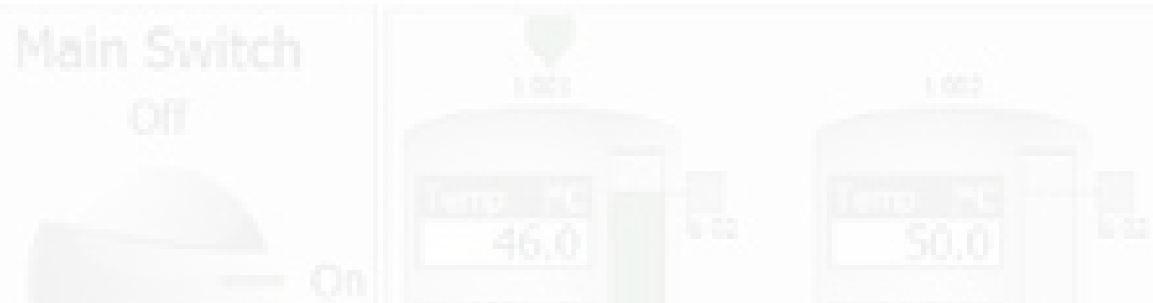
Our web-based platform enables users to build and manage digital automation systems within a single integrated environment without requiring coding or scripting. Powered by a built-in widget library, plug-and-play technology, and an intuitive drag-and-drop interface, the system allows fast and flexible dashboard creation for real-time monitoring and control. This approach ensures scalability, ease of use, and seamless integration, empowering organizations to accelerate their digital transformation efficiently.

Hardware brands are already integrated with Ornova Integra Solusi.



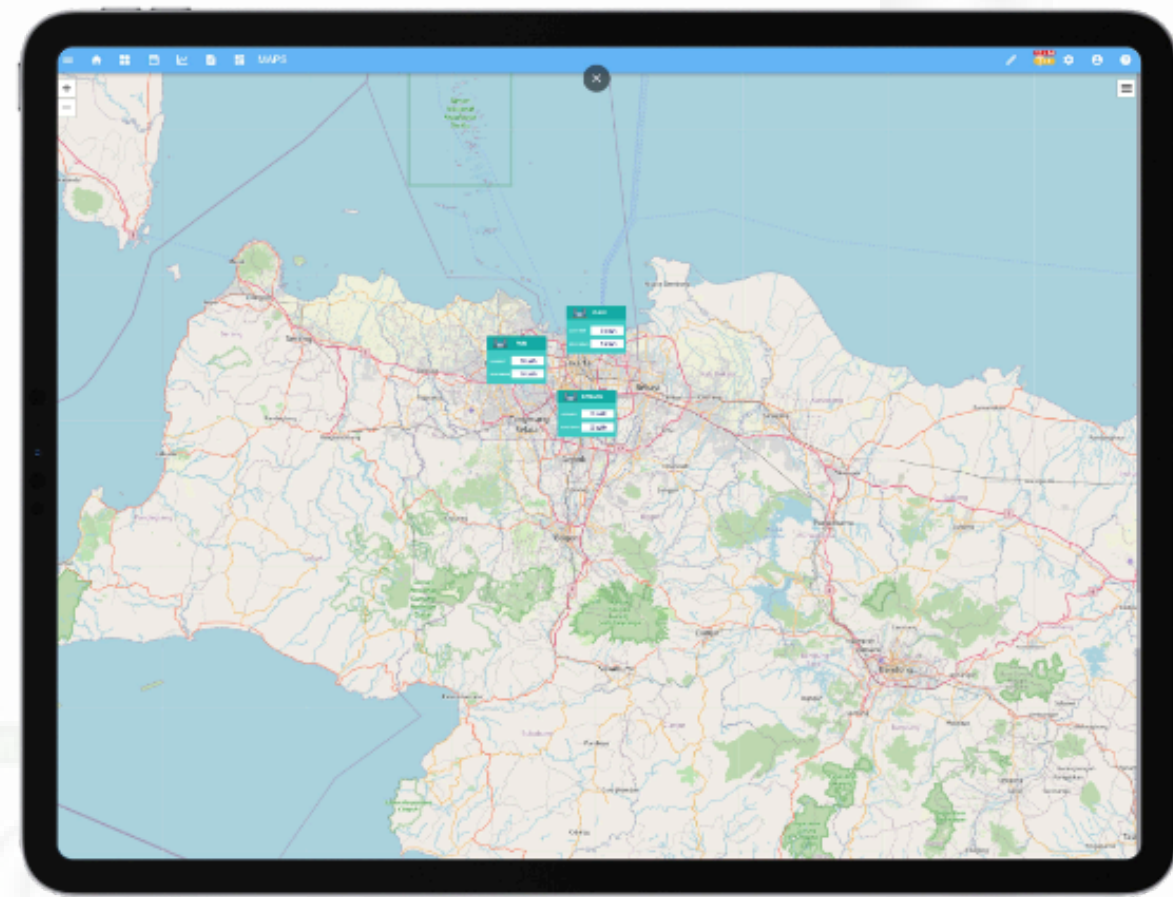
Advantages

The system offers rapid implementation, allowing projects to be deployed efficiently without long setup times. It is built on reliable technology to ensure stable and consistent performance. Flexible licensing options make it adaptable to different business needs, while its unlimited multi-user capability enables seamless collaboration across teams without restrictions.



A Strong Technical Foundation

- Supports multiple communication protocols such as SNMP, Modbus, MQTT, OPC UA, and more.
- Enables on-site, remote, and cloud-based server-to-client interaction through web-based configuration.
- Compatible with both Windows and Linux operating systems.



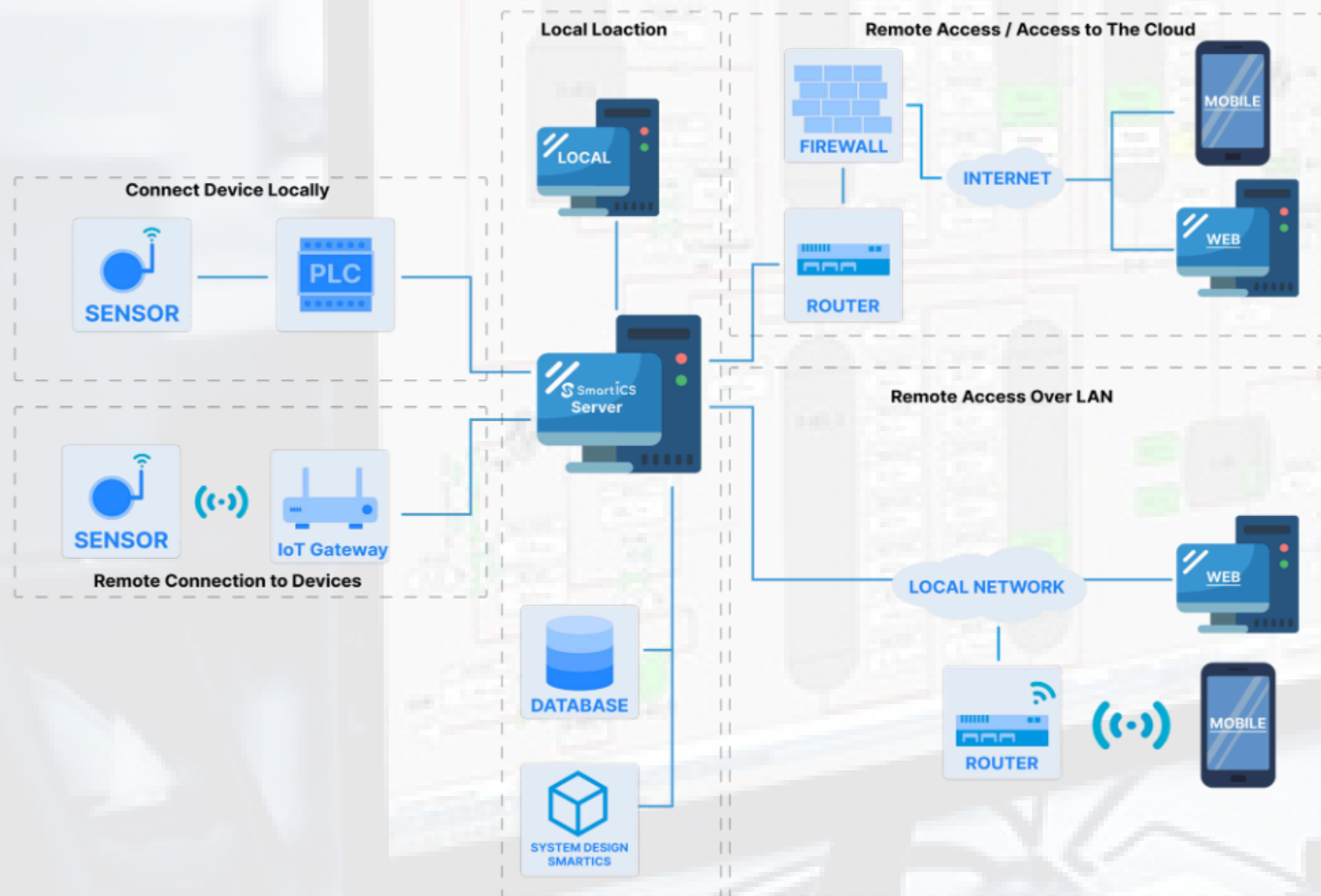
FAST DEPLOYMENT AND EASY CONFIGURATION

- Integrated development environment built-in
- Rich library of visual components
- Ready-to-use copy tools for common devices, objects, and elements



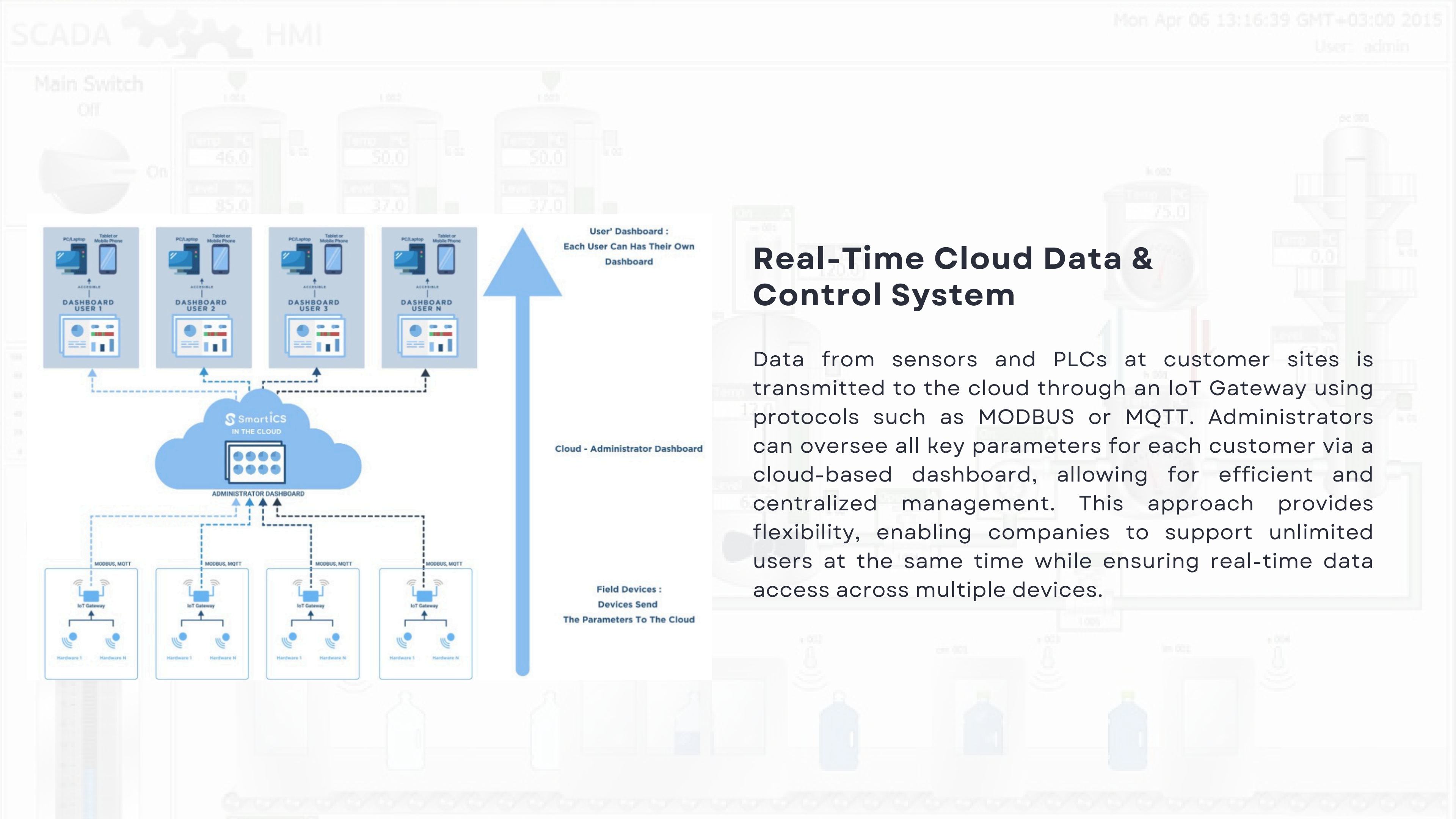
FLEXIBLE LICENSING

- Pricing is determined based on the number of devices or signals/tags
- A single license supports unlimited desktops, workstations, and users
- No extra licenses are needed for developers



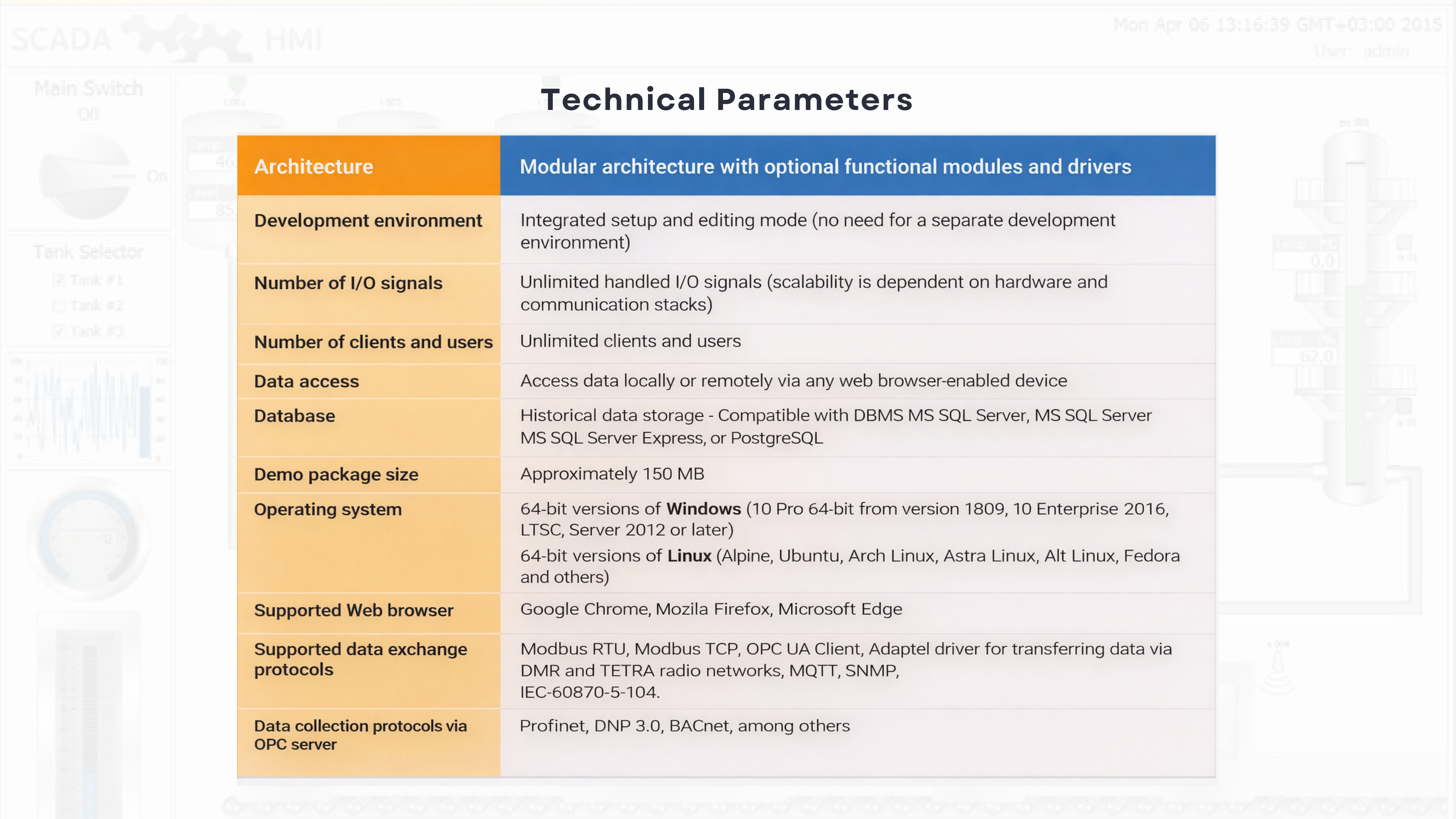
Industrial IoT Connectivity Overview

Sensors and PLCs connect directly to the server for local communication, while an IoT Gateway enables remote connectivity from field sensors. The server acts as the central hub for data and control, with local access available through workstations or tablets within the LAN network. For remote access, mobile devices and web-based workstations connect via the internet without requiring complex router or firewall configurations. The system supports flexible monitoring and control both locally and remotely, and is compatible with a wide range of devices for real-time data access.



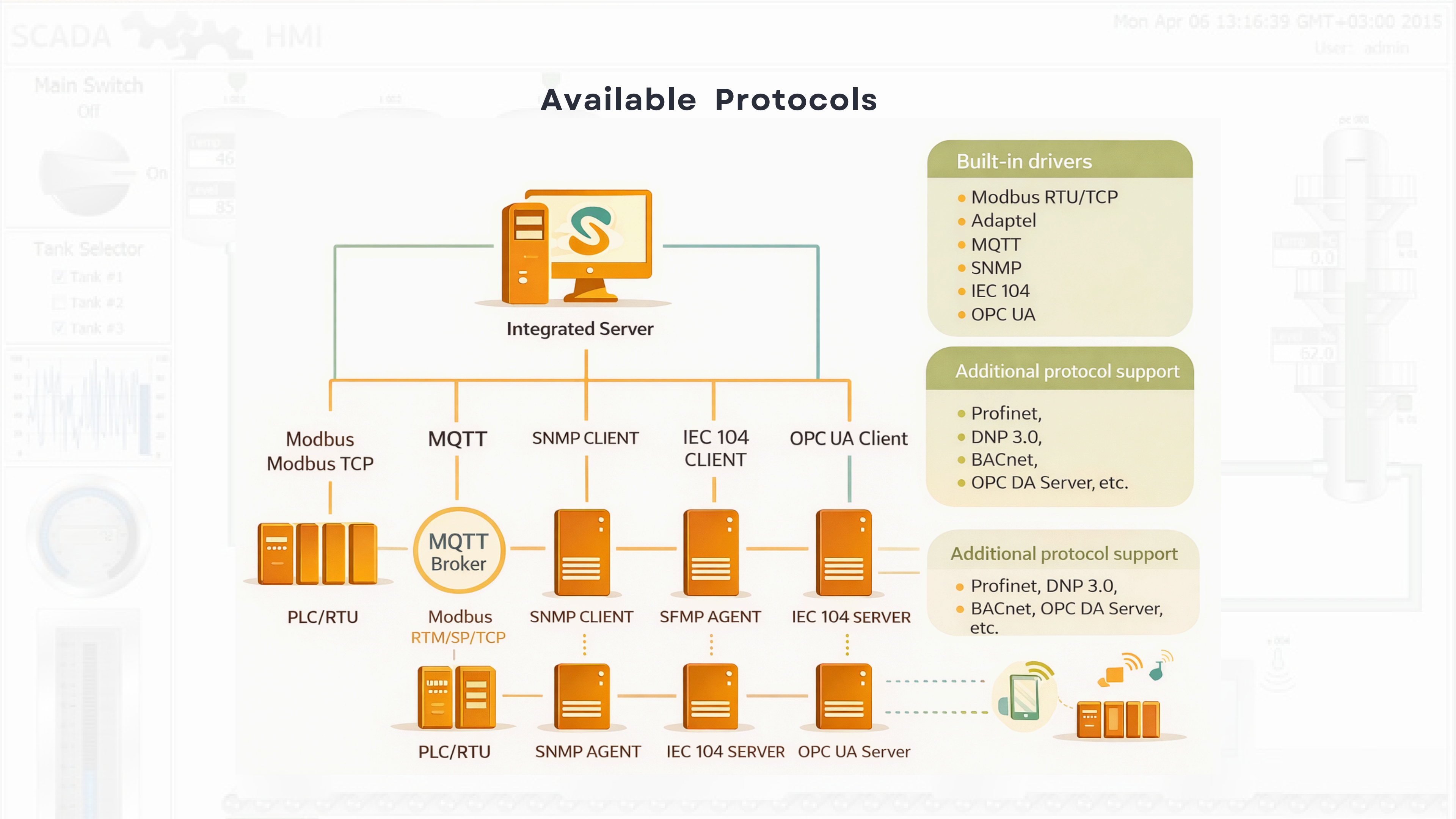
Real-Time Cloud Data & Control System

Data from sensors and PLCs at customer sites is transmitted to the cloud through an IoT Gateway using protocols such as MODBUS or MQTT. Administrators can oversee all key parameters for each customer via a cloud-based dashboard, allowing for efficient and centralized management. This approach provides flexibility, enabling companies to support unlimited users at the same time while ensuring real-time data access across multiple devices.



Technical Parameters

Architecture	Modular architecture with optional functional modules and drivers
Development environment	Integrated setup and editing mode (no need for a separate development environment)
Number of I/O signals	Unlimited handled I/O signals (scalability is dependent on hardware and communication stacks)
Number of clients and users	Unlimited clients and users
Data access	Access data locally or remotely via any web browser-enabled device
Database	Historical data storage - Compatible with DBMS MS SQL Server, MS SQL Server MS SQL Server Express, or PostgreSQL
Demo package size	Approximately 150 MB
Operating system	64-bit versions of Windows (10 Pro 64-bit from version 1809, 10 Enterprise 2016, LTSC, Server 2012 or later) 64-bit versions of Linux (Alpine, Ubuntu, Arch Linux, Astra Linux, Alt Linux, Fedora and others)
Supported Web browser	Google Chrome, Mozilla Firefox, Microsoft Edge
Supported data exchange protocols	Modbus RTU, Modbus TCP, OPC UA Client, Adaptel driver for transferring data via DMR and TETRA radio networks, MQTT, SNMP, IEC-60870-5-104.
Data collection protocols via OPC server	Profinet, DNP 3.0, BACnet, among others



FEATURES



Q Filter

Filter

Analog

Analytics

Command

Containers

Discrete

Fans

Gauge

Indicators

Light

Measure

Pipes

Primitive

Pumps

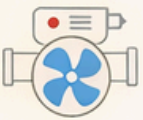
Sensors

Tables

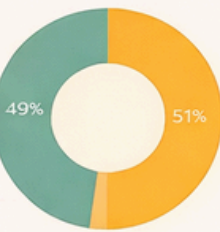
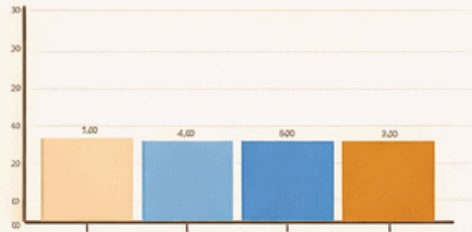
Transformer

Trend

Valves











Widget Library

Allows users to easily build dashboards using simple drag and drop with no coding required. Just pick widgets like charts, indicators, Lamps, and gauges, and place them right onto the dashboard.

Project Backup

Backup

Selected all backups

#	Selected	Filename	Date of creation	Size	Actions
1	☐	Backup - 2024-11-08 01:26:26.zip	2024-11-08 01:26:26	2.8 MB	  
2	☐	Backup - 2024-11-08 01:25:52.zip	2024-11-08 01:25:52	2.5 MB	  
3	☐	Backup - 2024-11-08 01:25:08.zip	2024-11-08 01:25:08	2.5 MB	  
4	☐	Backup - 2024-11-08 01:25:01.zip	2024-11-08 01:25:01	2.5 MB	  
5	☐	Backup - 2024-11-08 01:24:48.zip	2024-11-08 01:24:48	2.6 MB	  
6	☐	Backup - 2024-11-08 01:24:46.zip	2024-11-08 01:24:46	2.6 MB	  
7	☐	Backup - 2024-11-08 01:24:40.zip	2024-11-08 01:24:40	2.8 MB	  
8	☐	Backup - 2024-11-08 01:24:08.zip	2024-11-08 01:24:08	2.5 MB	  
9	☐	Backup - 2024-11-08 01:24:47.zip	2024-11-08 01:24:47	2.5 MB	  
10	☐	Backup - 2024-11-08 01:24:44.zip	2024-11-08 01:24:44	2.5 MB	  
11	☐	Backup - 2024-11-08 01:24:41.zip	2024-11-08 01:24:41	2.6 MB	  
12	☐	Backup - 2024-11-08 01:24:37.zip	2024-11-08 01:24:37	2.6 MB	  
13	☐	Backup - 2024-11-08 01:24:30.zip	2024-11-08 01:24:30	2.6 MB	  
14	☐	VOLUME - 2024-11-08 01:04:33.zip	2024-11-08 01:04:33	2.8 MB	  
15	☐	Backup - 2024-11-08 11:52:48.zip	2024-11-08 11:52:48	2.5 MB	  
16	☐	Backup - 2024-11-08 11:47:51.zip	2024-11-08 11:47:51	14.1 MB	  
17	☐	Backup - 2024-11-08 11:43:58.zip	2024-11-08 11:43:58	10.6 MB	  
18	☐	Backup - 2024-11-08 10:43:28.zip	2024-11-08 10:43:28	2.8 MB	  
19	☐	Backup - 2024-11-08 10:43:17.zip	2024-11-08 10:43:17	2.4 MB	  
20	☐	Backup - 2024-11-08 10:26:47.zip	2024-11-08 10:26:47	3.2 MB	  
21	☐	Backup - 2024-11-08 10:26:46.zip	2024-11-08 10:26:46	12.5 MB	  

CREATE BACKUP

DELETE SELECTED BACKUPS

UPLOAD BACKUP

Event Log

Event Log			
Date and Time	Parameter	Message	Message
2021-04-08-01:23:311		The admin user is logged in.	Admin user
2021-04-08-01:23:371		The admin user is logged out.	Admin user
2021-04-08-01:29:145		The admin user is logged in.	Admin user
2021-04-08-01:29:566		Server is running.	
2021-04-08-01:29:264		All settings succesfully restored.	
2021-04-08-01:20:443		Data source connection has been lose.	iec::localhost:809/data.
2021-04-08-01:20:4b4		Data source connection has been lose.	iec::localhost:800/data.
2021-04-08-01:29:693		Data source connection has been lose.	iec::localhost:800/data.
2021-04-08-01:29:699		Data source connection has been lose.	iec::localhost:800/data.
2021-04-08-01:29:647		Data source connection has been lose.	iec::localhost:800/data.
2021-04-08-01:20:268		Data source connection has been lose.	iec::localhost:800/data.
2021-04-08-01:29:363		Data source connection has been lose.	iec::localhost:800/data.
2021-04-08-01:29:989		Data source connection has been lose.	iec::localhost:800/data.
2021-04-08-01:29:559		Data source connection has been lose.	iec::localhost:800/data.
2021-04-08-01:29:535		Data source connection has been lose.	iec::localhost:800/data.
2021-04-08-01:29:535		Data source connection has been lose.	iec::localhost:800/data.
2021-04-08-01:29:536		Data source connection has been lose.	iec::localhost:800/data.
2021-04-08-01:29:536		Data source connection has been lose.	iec::localhost:800/data.
2021-04-08-01:29:536		Data source connection has been lose.	iec::localhost:800/data.
2021-04-08-01:29:536		Data source connection has been lose.	iec::localhost:800/data.
2021-04-08-01:29:536		Data source connection has been lose.	iec::localhost:800/data.
2021-04-08-01:29:537		Data source connection has been lose.	iec::localhost:800/data.
2021-04-08-01:29:648		Data source connection has been lose.	iec::localhost:800/data.
2021-04-08-01:29:538		Data source connection has been lose.	iec::localhost:800/data.

Event Log

Enter thne range
Event Log

Shared request

Sehaet range
Today

loge-sted on time
2024-04-05 00:00:00

loge-sted on time
2024-04-05 23:59:59

Rules (1)

Rule 1

Event

Starts with

Text to search

Parameter

Contains

Text to search

Message

Starts with

Text to search

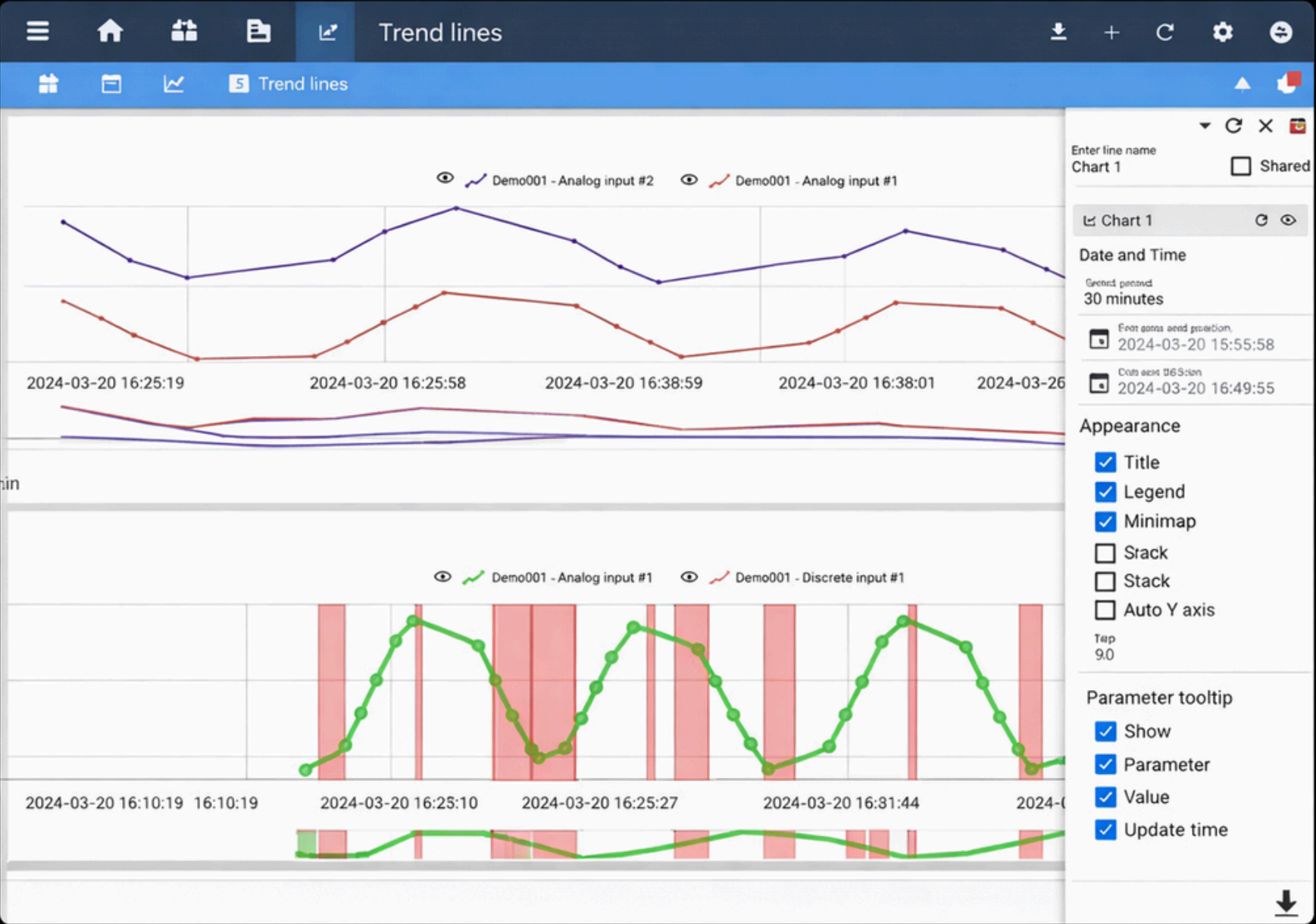
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The event log feature provides detailed records of system activities stored in the database, including alarms, warnings, user logins, and parameter modifications.

Users can easily apply filters to find specific events enabling quick access to relevant information. This functionality helps monitor system performance and simplifies troubleshooting when issues occur.

With comprehensive logging, all important events are properly recorded and readily available for review.

Trend Lines

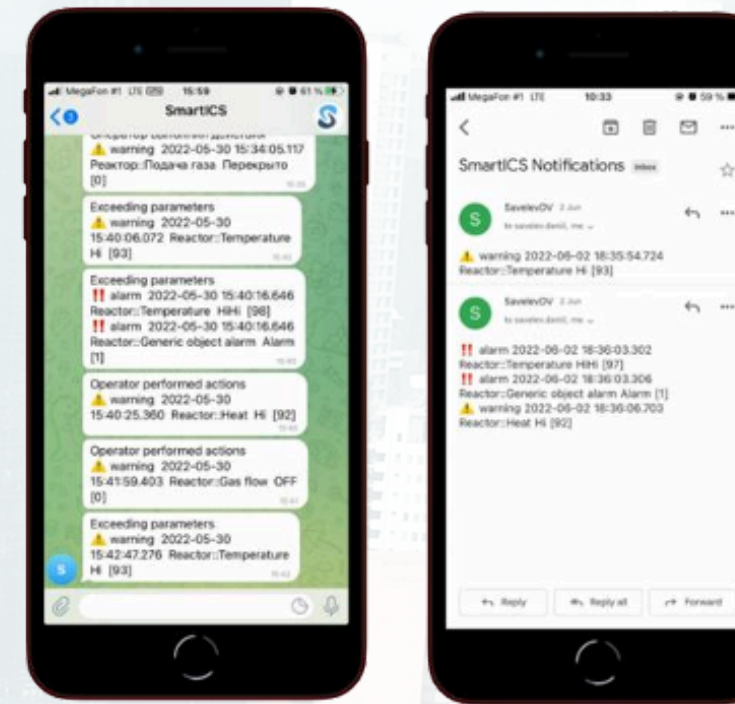


Enables users to **visualize** how parameter values have evolved over time, retrieving **data directly** from the **connected database**.

Users can **apply filters** and **personalize** the display to hone in on specific parameters, **facilitating the creation of multiple trend lines** for comparative analysis. Moreover, the displayed data is easily exportable to Excel format, streamlining the process of analyzing and sharing insights.

ADDITIONAL

Notification

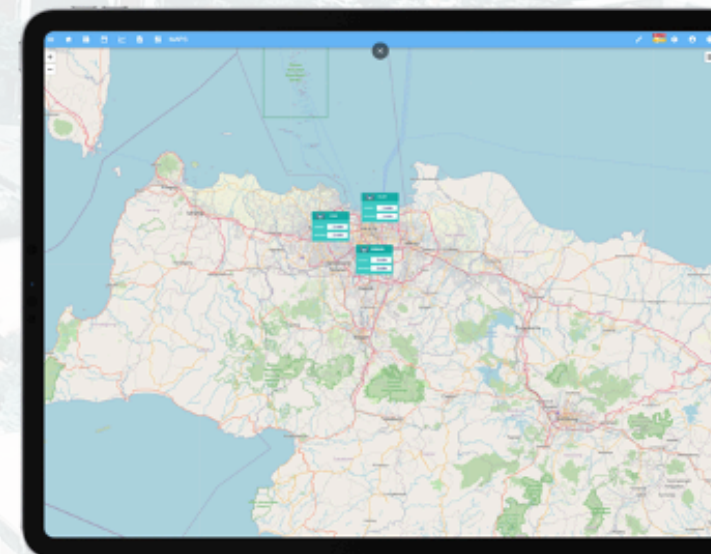


For getting notifications about warning or emergency signals by email or to a Telegram group.

Instant alerts function:

- Ability send notifications in a Telegram group or by email.
- Mailing list and event groups setup
- Unlimited contacts

Maps



For projects with a large number of devices and accurate visualization of distributed objects location.

Script Module

SmartICS Script module allow you to expand the functionality of the system. Scripts use the JavaScript language (interaction with the operating system is limited).

Data Source :

- Tags
- Third party files
- Database
- Event log

Calculations

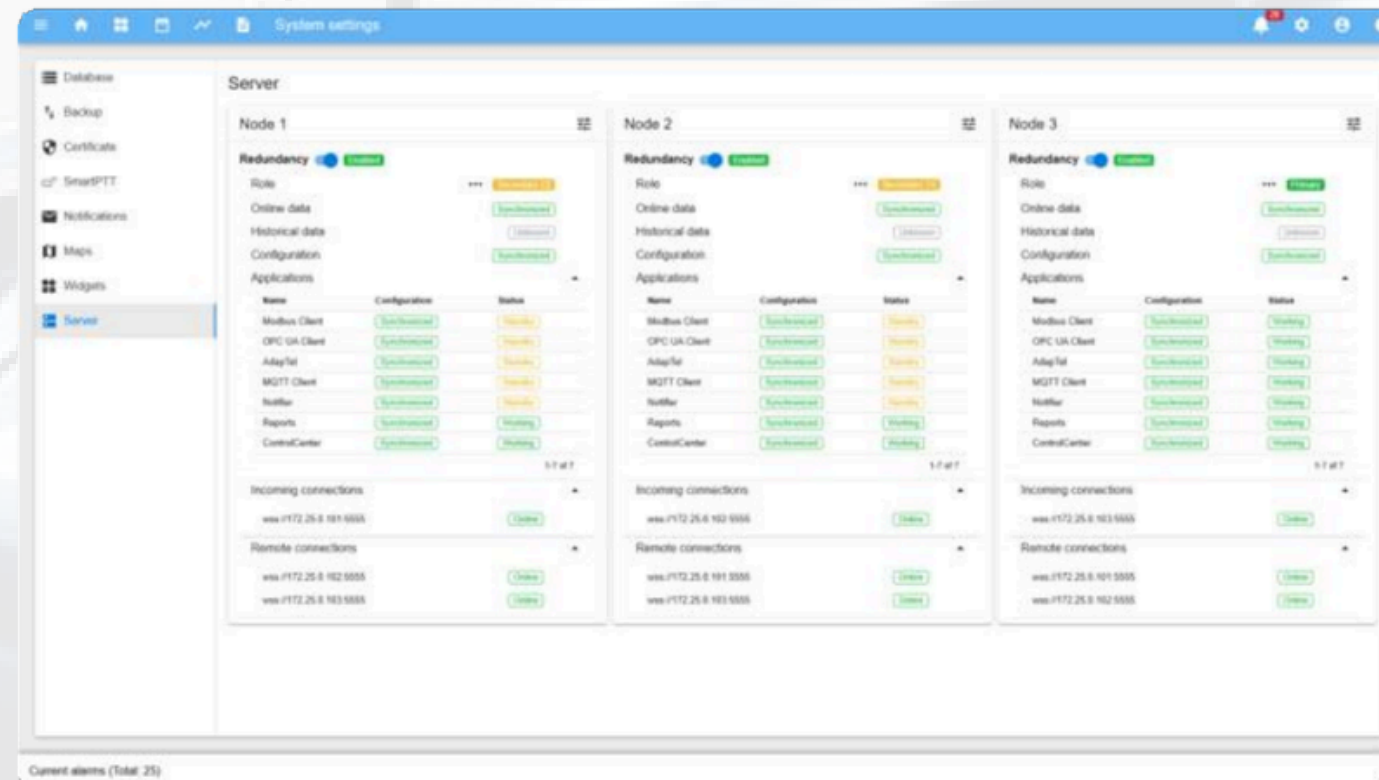
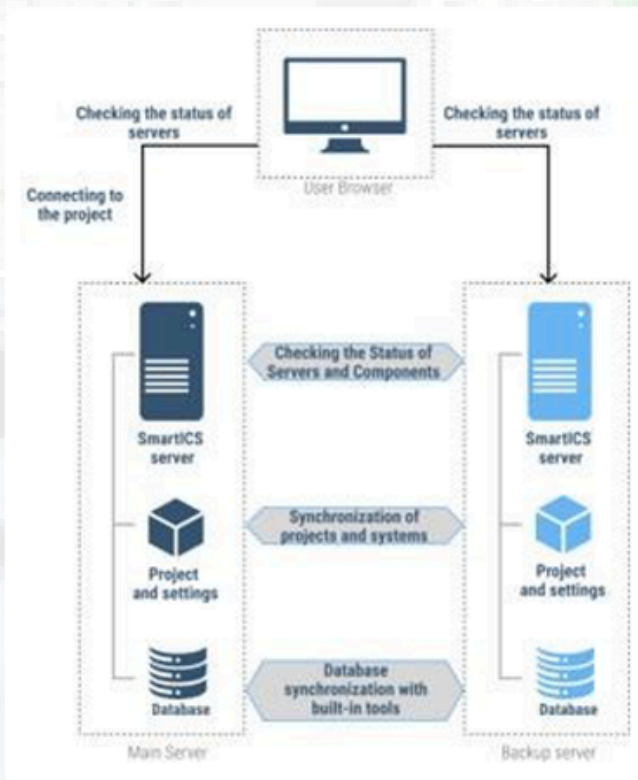
- Arithmetic calculations
- Logical expression
- Selection from the database
- Finding values by condition
- Setting your own formulas
- Data Comparison
- Calculation for a period of time

Result Output

- Tags
- Impact on the tag
- Sequence of actions
- Writing to the database
- Writing to third party files

Redundancy

SmartICS supports system redundancy by using a standby server in sleep mode to monitor the main server, synchronizing settings, projects, and databases.



Reporting Modules

SmartICS Reporting Module is a construtor for creating reports based on collected information from the system and connected third-party databases.



Data sources

File	SQL	Other
CSV Excel dBase GIS JSON XML	MS SQL SQL Lite Informatica Sybase Teradata VistaDB Oracle	PostgreSQL MySQL ODBC OLE DB MS Access Facebook SQL CE D62 MongoDB Azure SQL Azure Table Google Analytics Google Sheets OData



Calculations

- Arithmetic calculations
- Logical expression
- Selection from the database
- Finding values by condition
- Setting your own formulas
- Data Comparison
- Calculation for a period of time



Visualization

- Tables
- Diagrams
- Charts
- State Filters
- Pictures
- Cards
- Barcodes, JK codes
- Graphics Primitives
- Text

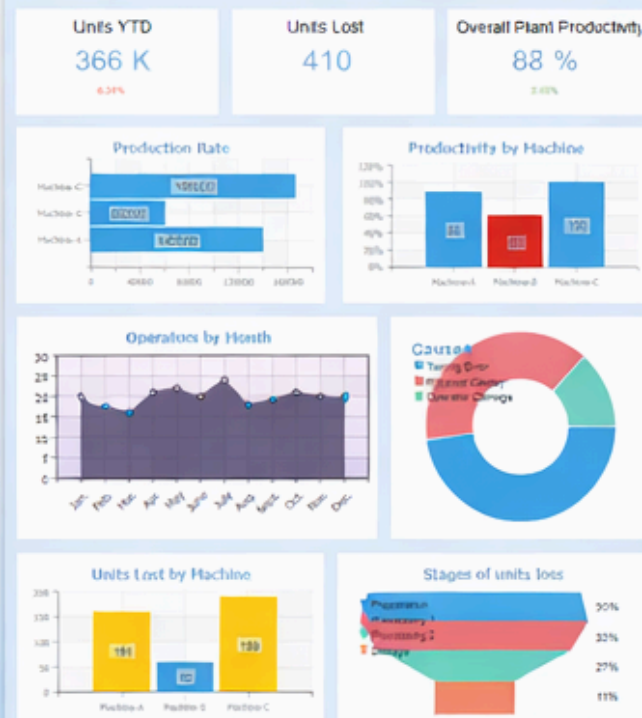


Report

- Print
- Send by mail
- Save to:
 - PDF
 - Excel
 - HTML
 - Word
 - PowerPoint
 - and others



MANUFACTURING DASHBOARD



June monthly report

Object	Capacity	Monthly Output	Average power	Max Power
HP 121	340 832	18 682	15.612	23.5
	451 231	12 881	17.876	23.0
	583 070	34 571	40.912	51.8
	340 345			
Total Consumption HP 121				
Total average power HP 121				
HP 121	438 142			
	128 838			
	237 898			
	270 114			
Total Consumption HP 121				
Total average power HP 121				
Total consumption				
Total average power				

Summary information



USES CASE



SCADA, Telemetry, Monitoring, and Industrial Control Systems
Designed for widely distributed remote assets such as facilities, equipment, and more.



Manufacturing Digitalization
Data collection and visualization with remote web access, integration with other systems, including OEE, machine control, monitoring, alarms, and trend analysis.



Infrastructure Monitoring
Building management systems, Data Center infrastructure monitoring, Microclimate monitoring system, etc



Internet of Things (IoT/IIoT)
Data Integration via MQTT, ZigBee, LoRaWan, Etc



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