

Info Sheet

Supervisory Control & Data Acquisition – SCADA

Real-time visibility. Intelligent control.

1. Overview

IPU SA's **SCADA systems** are designed to give operators complete, real-time visibility and control over complex industrial and infrastructure environments. Whether monitoring a single substation or an entire utility network, our SCADA platforms integrate data, alerts, and automated controls into a single intelligent interface.

From control rooms to mobile dashboards, we tailor each SCADA deployment to the client's industry, protocols, and performance requirements — ensuring seamless coordination with PLCs, RTUs, and field devices.

2. Key Features

- Centralized HMI with intuitive visualization
 - Real-time data acquisition and logging
 - Alarm handling and event tracking
 - Remote access and mobile compatibility
 - Multi-layer security and user permission settings
 - Trend analysis, historical data, and reporting
 - System redundancy and failover configurations
 - Seamless integration with PLCs and third-party equipment
 - Protocol support: Modbus, OPC UA, IEC 60870-5, DNP3, SNMP, and more
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3. Applications

- Power distribution & substations
 - Water & wastewater management
 - Energy monitoring and optimization
 - Manufacturing & process automation
 - Smart buildings and utility-scale projects
 - Airport, healthcare, and defense infrastructure
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4. Integration Capabilities

- Interfaces with IPU SA's MCCs, Synchronization Systems, and EMS
 - Compatible with all major PLC and RTU platforms
 - Cloud integration and IIoT support
 - Redundant architecture for high availability environments
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5. Certifications & Standards

- IEC 60870, IEC 62351, and IEEE compliant
- Developed per client industry regulatory requirements
- Cybersecure architecture by design (role-based access, audit trails)