

ZEUS AUTOMATION

# OptiZeus SCADA

## Supervisory Control & Data Acquisition

The most complete SCADA platform for industrial automation. Real-time monitoring, alarm management, industrial historian, AI-powered configuration, 800+ 3D industrial symbols, and enterprise-grade security.

### Why OptiZeus SCADA?

#### Complete Plant Visibility

Monitor every PLC, sensor, and actuator in real time. Synoptic displays with 800+ 3D SVG symbols, animated dashboards, and multi-variant super objects.

#### Built for Regulated Industries

GAMP5 validation documentation included. 21 CFR Part 11 compliant audit trails, electronic signatures, and ISO 14644 clean room monitoring.

#### AI-Powered Configuration

Create tags, alarms, screens, and documentation using natural language. Supports 6+ AI providers including OpenAI, Anthropic Claude, and local models.

#### Enterprise Scale

From a single PLC to multi-server deployments. Staging-to-production deploy, UDT instances with folder organization, and multi-user collaboration.

**9+**

PROTOCOL DRIVERS

**800+**

3D SVG SYMBOLS

**37+**

SYMBOL CATEGORIES

**24/7**

SUPPORT

## Core Platform Features

### Synoptic Screen Builder

Drag-and-drop visual builder with compact 2-row toolbar, SVG Library with 800+ 3D industrial symbols. Import CAD/DXF files. Multi-variant Super Objects.

### Super Objects with Variants

Reusable widget templates with multiple visual variants (e.g., horizontal/vertical valve). Shared animations and tag variables across all variants.

### Animated 3D Symbols

Impeller rotation (CW/CCW toggle), horizontal pulse for mixer blades, fill-level, color change, visibility, blink, glow — 25+ animation types controllable by PLC tags.

### Alarm Management (ISA-18.2)

Smart alarm grouping, flood detection, bulk ACK/shelve. Multi-channel notifications: Email, SMS, WhatsApp, Telegram. Alarm escalation chains. CSV export/import.

### Industrial Historian

File-based with swinging door compression. 8+ retrieval modes. Historian comparison between two time periods with tag correlation analysis.

### ISA-88 Batch Control

Full S88 batch engine with SFC recipe execution, phase logic, equipment model, and parameter tracking. Procedure automation with electronic SOPs.

### UDT Instance Management

User Defined Types with folder-based organization. Drag-and-drop instances between folders. Bulk select/delete. CSV import/export. Tag names preserved for PLC.

### Multi-Protocol Communication

OPC-UA, Modbus TCP/RTU, EtherNet/IP (Allen-Bradley), S7 (Siemens), MQTT, BACnet, Serial, HTTP/REST, Database Direct. Refresh tags without service restart.

### KPI Dashboard Builder

26 widget types with free drag/resize: Value, Gauge, Sparkline, Bar, Pie, XY Plot, Histogram, Running Hours, Tank, LED, Button, Switch, Slider, and more.

## Advanced Capabilities

### AI Anomaly Detection

Z-score, rate-of-change, flatline detection with auto-learned operating ranges.

### Mobile PWA

Progressive Web App with offline support, push notifications, responsive design.

### Voice Commands

Web Speech API for hands-free operation. Navigate, acknowledge alarms, query values.

### Sequence of Events

1ms resolution event recording for incident investigation and root-cause analysis.

### Live Video

IP camera management with synoptic screen embedding and PTZ controls.

### Digital Twin

SVG floor plan with 8 equipment types and live tag status overlay.

### Active Directory

Enterprise SSO with AD group-to-role mappings. Mixed local + AD auth.

### OPC-UA Server

Built-in server to expose tags to third-party systems with read/write access.

### Webhooks

Configurable webhooks on alarm, event, and tag change for IT integration.

## Industrial Symbol Library — 800+ Professional 3D Symbols

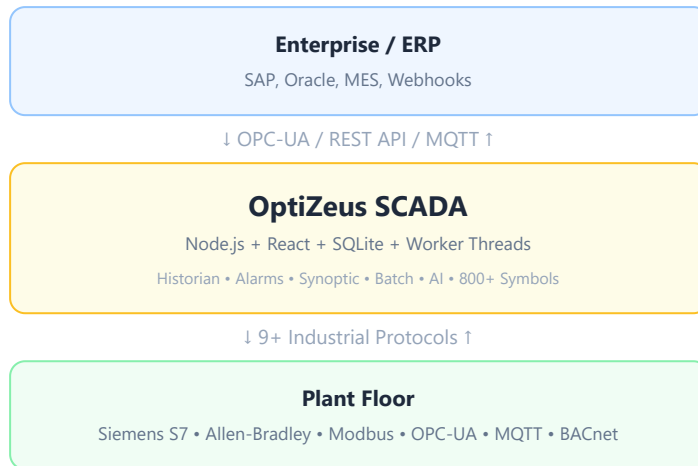
Comparable to Industrial Symbol Factory (ISF). Vector SVG with metallic gradients, animation hooks, and multiple color variants.

<b>3D Pipes</b> <span style="float: right;">156+</span> Elbows, tees, crosses, reducers, flanges, bellows — 6 colors	<b>Instruments</b> <span style="float: right;">110+</span> ISA-5.1: PT, TT, FT, LT + field/panel mounting	<b>Impellers</b> <span style="float: right;">45+</span> Centrifugal, propeller, turbine, anchor, Rushton	<b>Containers</b> <span style="float: right;">33+</span> Shipping, ISO tank, IBC, drums, hoppers, crates
<b>HVAC Ducts</b> <span style="float: right;">31+</span> Corners, tees, dampers, diffusers, VAV boxes	<b>Pumps</b> <span style="float: right;">29+</span> Centrifugal, gear, screw, lobe, piston, vacuum	<b>Valves</b> <span style="float: right;">31+</span> Gate, ball, butterfly, check, control, PSV, 3-way	<b>Blowers</b> <span style="float: right;">28+</span> Centrifugal, roots, side-channel, multistage
<b>Autoclaves</b> <span style="float: right;">24+</span> Horizontal, vertical, double-door, jacketed	<b>Tanks</b> <span style="float: right;">23+</span> Vertical, sphere, cone, silo, jacketed, reactor	<b>Indicators</b> <span style="float: right;">19+</span> Lamps, push buttons, selectors, stack lights	<b>Electrical</b> <span style="float: right;">13+</span> Breakers, transformers, panels, solar, wind
<b>Heat Exchangers</b> <span style="float: right;">9+</span> Shell & tube, plate, finned, spiral, condenser	<b>Motors</b> <span style="float: right;">9+</span> AC, DC, gear, VFD, servo, stepper, hydraulic	<b>HVAC</b> <span style="float: right;">9+</span> Axial fan, centrifugal fan, damper, AHU, chiller	<b>Structures</b> <span style="float: right;">7+</span> Factory, warehouse, cooling tower, smokestack

## Industry Applications

<b>Water &amp; Wastewater</b> Pump stations, treatment plants, distribution networks with 3D pipe routing.	<b>Pharmaceutical</b> GAMP5 batch control, clean room HVAC (ISO 14644), autoclave sterilization, 21 CFR Part 11.	<b>Food &amp; Beverage</b> Recipe management, temperature monitoring, CIP tracking, FSMA traceability.
<b>Oil &amp; Gas</b> Pipeline SCADA, tank farm monitoring, wellhead control, gas detection systems.	<b>Manufacturing</b> Production lines, OEE tracking, conveyor systems, downtime analysis, quality control.	<b>Building Automation</b> HVAC clean room with 3D AHU + duct distribution, energy management, BACnet.

## System Architecture



## Licensing

Starter	Professional	Enterprise
<b>Free</b>	<b>\$499/year</b>	<b>Contact us</b>
<ul style="list-style-type: none"><li>• Up to 50 tags</li><li>• Local access only</li><li>• Community support</li><li>• 800+ SVG symbols</li></ul>	<ul style="list-style-type: none"><li>• Up to 5,000 tags</li><li>• Remote access + PWA</li><li>• Email support</li><li>• Batch control + historian</li></ul>	<ul style="list-style-type: none"><li>• Unlimited tags</li><li>• Multi-server deploy</li><li>• 24/7 phone support</li><li>• GAMP5 validation kit</li></ul>

**Get Started Today**

Contact our team for a personalized demo or try the free Starter tier.

[www.optizeus.org](http://www.optizeus.org)

Live Demo: [www.optizeus-scada.com](http://www.optizeus-scada.com) | Login: operator / demo

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