

SurvalentONE

SCADA

Real-time, automated monitoring
& control of network infrastructure
for improved reliability & streamlined
operations



Survalent.

Utiliverse™ ecosystem

SurvalentONE ADMS

The SurvalentONE ADMS platform is a fully integrated SCADA, OMS, and DMS solution that allows you to effectively operate, monitor, analyze, restore, and optimize critical network operations. By integrating data from across your network, the solution delivers real-time operational intelligence and control which empowers users to proactively respond and take corrective action when necessary.

It provides a common user interface for all roles for ease of operations, a shared as-operated network model and real-time database for increased performance, and a single hardware platform to simplify IT & OT maintenance and security. Easy to deploy, manage, scale and use, the SurvalentONE platform provides a low total cost of ownership.

Utilities from around the globe have benefited from greater operational efficiencies, enhanced customer satisfaction through reduced outages, and improved network reliability.

SurvalentONE ADMS

SCADA

**Monitor
& Control**

OMS

**Track
& Restore**

DMS

**Analyze
& Optimize**

**With SurvalentONE SCADA,
you can significantly
improve network
reliability, increase
utilization, and cut costs.**

Operating an electric, gas, water, or transit utility requires a high degree of analysis, planning, oversight, and coordination that is difficult to achieve without the support of a modern, centralized Supervisory Control and Data Acquisition (SCADA) system.

SurvalentONE SCADA provides a real-time overview of an entire utility network, as well as detailed insight into the current and historical state of individual field devices. As your network grows and evolves, SurvalentONE SCADA can grow with it, providing a solid foundation for Survalent's extensive suite of ADMS applications.

Featuring the advanced, intuitive SmartVU GUI, SurvalentONE SCADA is interoperable with devices from all manufacturers, supports a large suite of industry standard protocols, and supports up to quad redundancy which virtually eliminates downtime risk.

Improve Network Reliability

SurvalentONE SCADA offers unparalleled visibility into your distribution network, dramatically expanding your awareness of daily operations. Collecting and analyzing network data with SurvalentONE SCADA enables you to detect problems before they occur and make the necessary adjustments to prevent an outage.

When an outage does occur, SurvalentONE SCADA's advanced data collection capabilities help field crews identify the exact location without having to wait for customers to call in. As well, by isolating outages and rerouting power to unaffected sections, operators can control telemetered devices remotely, restoring power far more quickly and eliminating the need for costly truck rolls.

Streamline Operations

SurvalentONE SCADA automates routine network administration, maintenance, and recovery tasks which allows you to improve productivity within the control room and in the field. Instead of regularly dispatching field crews to diagnose problems and adjust equipment in the field, you can achieve the same result more quickly and economically by training operators to address these issues remotely from the control room.

The solution allows your field crews to spend less time running between substations performing routine tasks and more time focusing on high-value network improvements.

The IED Control Panel allows you to rapidly configure, view and operate a photo-realistic representation of each IED.

Since SurvalentONE SCADA is compatible with popular Microsoft Office productivity applications, reports can be easily created and disseminated to internal and external stakeholders.

Greater Network Insight

SmartVU is an intuitive, Windows-based GUI that simplifies how users manage, edit and share information. It allows operators to observe all aspects of the grid in real-time, providing the insight and control they need to effectively manage their network data. By leveraging SmartVU's features and advanced visualization capabilities, you have quick access to maps, alarms, operation logs, and analysis tools and editing features, and the ability to present data in a variety of formats.

Benefits

- Greater network reliability
- Increased operational efficiency
- Improved situational awareness, enables faster, more informed decision-making
- Cost savings achieved through remote monitoring and control of field devices
- Improved performance indices (e.g., SAIDI, SAIFI)

Key Features

- Support for wide range of industry-standard communication protocols
- Sophisticated authentication and access control
- Secure, multi-level tagging to inhibit control of devices
- Extensive, configurable alarm management
- Flexible report creation, formatting, and scheduling
- External Alarm Bell
- Alarm Suppression



Optional Advanced Applications

These applications extend the capabilities of SurvalentONE SCADA by enhancing automation, reliability, and operational insight. Each solution addresses a specific utility challenge—from outage restoration and voltage regulation to DER management, load balancing, secure data exchange, and safe offline environments. Designed for seamless integration and ease of use, these applications help utilities improve decision-making, streamline operations, and strengthen system stability.

▪ **Fault Location, Isolation, and Service Restoration (FLISR)**

Minimizes outage duration by using a connectivity model and the base DMS to detect faults, isolate problem areas, and restore service in seconds. Power Flow is not required. By rerouting electricity automatically, utilities improve reliability, reduce SAIDI/SAIFI indices, and enhance customer satisfaction. FLISR narrows fault locations, reduces operating costs, and keeps more customers energized during unplanned events.

▪ **Rotational Load Shedding (RLS)**

Automates load shedding during shortages by rotating de-energizing and restoring network sections to keep demand within supply. Utilities can define breaker control sets, set priorities, and configure schedules to prevent blackouts, protect critical areas, and ensure controlled, fair distribution. RLS reduces operator strain, improves system stability, and safeguards equipment, while providing statistical reporting and predictable, short outages.

▪ **Offline Environments**

Provides a safe, mirrored platform for testing, training, and project development without impacting live operations.

- **Operator Training Simulator (OTS):** Enables risk-free, hands-on training with realistic network simulations for more confident operators
- **Quality Assurance System (QAS):** Creates a sandbox to test updates, patches, and integrations before deploying to production
- **Project Development System (PDS):** Facilitates design, testing, and approvals of ADMS changes, ensuring reliability while supporting efficient collaboration.

• **Operational Analysis Environment (OAE):**

Provides Study Mode and Playback tools for simulating scenarios, testing switch orders, and reviewing past events to strengthen operator decision-making and validate configurations before they go live.

▪ **Dynamic Voltage Regulation (DVR)**

Automatically maintains feeder voltages within defined limits using regulators, load tap changers, and smart grid technology. With AMI interface feedback, DVR optimizes voltages for peak demand reduction, energy conservation, and brownout prevention. The solution helps utilities cut costs, qualify for incentive programs, and maintain consistent power quality—all without requiring a network model. DVR simplifies field operations and improves customer experience through automated, secure voltage regulation.

▪ **Distributed Energy Resource Management System (DERMS)**

Enables utilities to monitor, control, and optimize distributed energy resources with seamless ADMS integration. It provides real-time visibility, flexible orchestration, and advanced planning tools to address challenges like variable generation, reverse flows, and voltage violations. By managing DERs at scale, utilities enhance reliability, resiliency, and compliance, while preparing for a transition to Distribution System Operator functions.

▪ **Secure Inter-Control Center Communication Protocol (ICCP)**

Survalent's Secure ICCP solution encrypts SCADA data during transmission, enabling safe, compliant communication with transmission system operators. Quick to set up and simple to manage in-house, it requires no additional front-end processors or hardware changes. Secure ICCP ensures compliance with TSO mandates, enhances protection for sensitive control center communications, and integrates natively with SurvalentONE SCADA for seamless interoperability.

▪ **Replicator & Archiver Applications**

Serve the dual purpose of copying data from the SCADA database to a SQL Server or Oracle database in real time, and providing convenient, browser-based access to all of the SCADA data stored in the Survalent Archiver Reporting application. Users can gain valuable insight into network operations by searching historical data and then displaying relevant results in easy-to-read graphs and tables.

The Replicator features an intuitive point-and-click interface that allows users to easily select database tables, fields, and historical data sets for replication.

Optional Browser-Based Applications

These applications offer secure, read-only access to information stored in your SCADA system such as maps, alarms, and historical data. These applications allow key personnel to check network status from a remote computer or mobile device instead of travelling back to the control room every time a problem arises.

▪ **WebSurv**

Gives authorized users read-only access to SCADA data from any Internet-connected computer. The application supports panning, zooming, dynamic line coloring, and other dynamic SmartVU features.

Dynamic SmartVU graphics are rendered by HTML5 or SVG, depending on the browser's capabilities, while the refresh rate for dynamic data, alarms, and graphics is entirely user-defined. WebSurv includes custom reports, secure login, and a user-friendly interface that displays the data in Survalent Explorer.

▪ **SurvCentral**

Provides read-only, online displays of SCADA data formatted especially for the small touch-screens of mobile devices. Through SurvCentral, users enjoy anywhere, anytime access to network information, allowing them to maintain situational awareness and respond quickly when problems arise.

The application features built-in reports, secure login, session expiration, and user account management tools for administrators. Tabular and graphical data can be displayed on any mobile device with a browser.

▪ Live

Delivers secure, read-only access to key SCADA data in near real time and is a responsive, web-based application. It empowers stakeholders across the utility to view dynamic dashboards, run queries, and search data instantly from any device, anywhere.

With tailored workspaces, advanced filtering, and intuitive visualization, Live! accelerates data sharing and collaboration while protecting operational systems. The result is faster insights, improved situational awareness, and a stronger data-driven culture.



SurvalentONE SCADA can be configured to provide operators with relevant information at a glance. Maps, single line diagrams, schematics, event summaries & alarms are shown in the SmartVU application.

Better Software. Better Decisions.

With Survalent, you can control your critical network operations with confidence. We're the most trusted provider of advanced distribution management systems (ADMS) and substation automation for electric, water/wastewater, oil & gas, renewable energy, and transit utilities across the globe.

Over 800 utilities in 40 countries rely on the SurvalentONE platform to effectively operate, monitor, analyze, restore, and optimize operations. By supporting critical utility operations with a fully integrated solution, our customers have significantly improved operational efficiencies, customer satisfaction and network reliability. Our comprehensive substation automation solution, Survalent StationCentral, delivers advanced control and monitoring for enhanced network performance and protection.

Our unwavering commitment to excellence and to our customers has been the key to our success for over 60 years.

100% Project Delivery. We Guarantee It. Ask Us How.

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