

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 SCADA Applications

These applications allow you to increase the volume of network data that you collect and expand your ability to analyze that data, for more informed decision making. Easy to install and use, these applications are designed to facilitate

▪ Automatic Generation Control

Regulates the power output of electric generators according to a specified system frequency and/or scheduled interchange. Dispatchers can choose from one of four operational modes — Constant Net Interchange, Constant Frequency, Tie Line Bias, or Tie Line Bias plus Automatic Time Error — to calculate a NERC-compliant value for the area control error.

The application features economic dispatch calculation, monitoring of generation capacity reserves, scheduling of power interchange transactions, support for jointly owned units, and much more.

▪ Disturbance Capture

Records the state of SurvalentONE SCADA before and after a user-defined disturbance, and then analyzes all system wide changes in analog and status points. The application keeps a detailed log of dates and times, trigger points, reasons for a disturbance, and recorded lengths.

Users are able to set pre-and post-disturbance durations and sampling rates, and define trigger points for each disturbance capture. They can also perform graphical analyses of all points in the SCADA system using the included Point Capture Viewer.

▪ Fault Data Recorder

Detects fault information such as fault type and fault current stored in relays, then uploads and records the data in the SurvalentONE SCADA database. Users can identify fault data points, as well as other points and parameters involved in the data retrieval process. The application can be configured for either automatic or manual uploads.

▪ Operations & Outage Accounting

Scans the SurvalentONE SCADA event data file of the previous day and generates accounting data such as the number of operations caused by operator control, number of operations caused by protective relaying, outage start times, and outage durations.

The application is fully configurable, with tools for specifying which devices to track, how many operations to allow before an alarm is trig-

▪ Virtual RTU

Sets up virtual devices that can be polled by other master stations via protocols (DNP3.0, Modbus, IEC-101 or 104, etc.) simplifying how data is shared between SCADA master stations.

Since each dataset can be assigned to multiple Virtual RTUs, and is therefore available to multiple master systems, there is no need to maintain duplicate dataset definitions. By default, every virtual RTU is set up to include sections for status, analog, accumulator, control, and set points. New points can be added using the application's

▪ 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 Survallent Archiver 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 Survallent Explorer.

▪ SurvCentral

Provides read-only, online displays of SCADA data formatted especially for the small touchscreens 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.



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 SCADA, ADMS, substation automation, DERMS, and AI solutions for electric, water/wastewater, oil & gas, renewable energy, and transit utilities as well as data centres, mining, and commercial and industrial (C&I) markets across the globe.

More than 800 utilities in 40 countries rely on the Survalent solution suite to effectively operate, monitor, analyze, restore, and optimize operations while driving smarter energy management decisions. Our fully integrated solutions support critical grid operations, enabling our customers to significantly improve operational efficiencies, customer satisfaction, and network reliability.

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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