Survalent
Gateway

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Ensure seamless communications interoperability between the substation and control room

Survalent Gateway is a fully scalable software automation solution used to convert protocols from substation devices – such as Intelligent Electronic Devices (IEDs) – to a standard protocol to achieve interoperability.

IED points can be mapped to the Survalent Gateway using the database editing tool imported from MS Excel or automatically created using SurvalentONE IED Wizard.

IEDs ⟷ Substation Protocols ⟷ Survalent Gateway ⟷ Data Exchange ⟷ SCADA Control Room

Interoperability is achieved in the data exchange by defining servers, virtual RTUs, and datasets. The server editor allows you to define links to other systems. For each link, you specify the type of interface, the communications ports or IP address used to access the other system, and communication parameters.

The virtual RTU editor is used to create one or more virtual RTUs for each server.

Each virtual RTU references a dataset of SCADA points whose values are reported to the client.

The dataset editor is used to create sets of points that are referenced by the virtual RTUs. Each dataset contains status blocks, analog, control, setpoint, and accumulator entries to which SCADA points can be mapped.

Supported Servers include:

ICCP, MultiSpeak, OPC, DNP 3.0, Modbus, and QUICS IV.

Supported Substation Protocols

▪ DNP 3.0 ▪ IEC 60870-5-101 ▪ IEC 60870-5-103 ▪ IEC 60870-5-104 ▪ IEC 61850 Edition 1& 2 ▪ Modbus RTU
▪ Modbus TCP ▪ OPC Client ▪ SNMP

IEC 61850 Edition 1 & 2

Survalent IEC 61850 software complies with the latest version of the protocol developed by the International Electrotechnical Commission (IEC) to improve communication between the data-intensive IEDs in modern electrical substations. By supporting faster data transfer rates and a wider range of information than previous protocols, IEC 61850 increases the speed and level of coordination between IEDs, expands the amount of information available to end users, and enhances the overall effectiveness of substation automation systems (SAS).

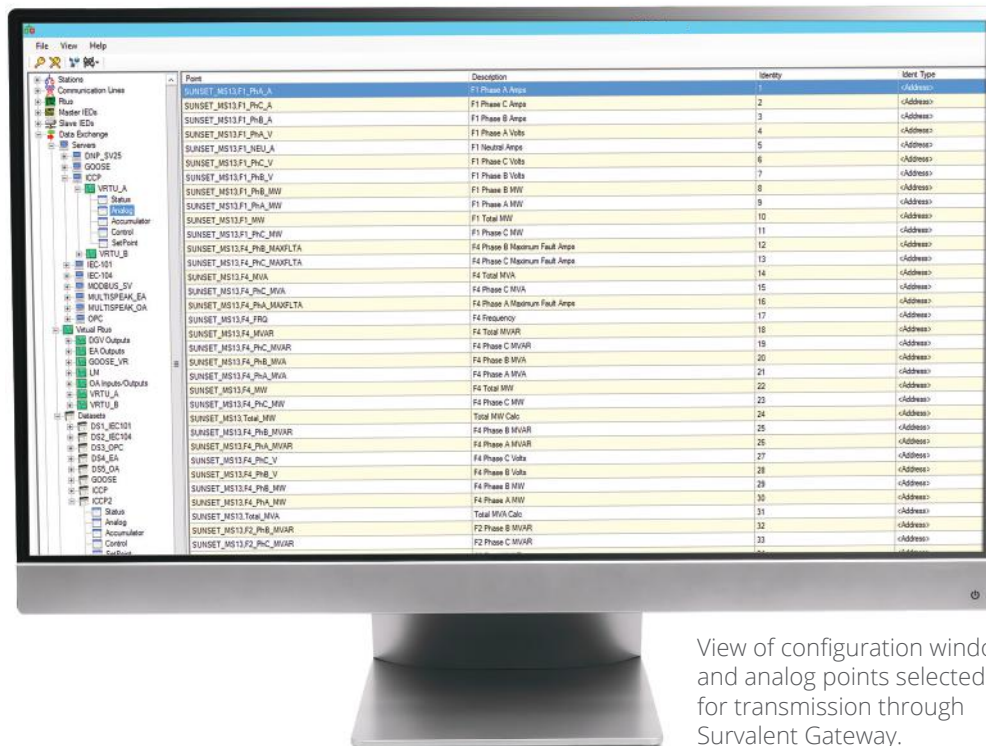## Supported Data Exchange Servers

▪ DNP 3.0 ▪ ICCP ▪ IEC 60870-5-101 ▪ IEC 60870-5-104 ▪ Modbus RTU ▪ OPC

Features

▪ Hardware platform independent
▪ Gateway data exchange servers can support multiple master stations or client applications
▪ Complete datasets can be created and assigned to multiple Virtual RTUs
▪ Easily add points to the virtual RTU with the drag and drop point browser

Benefits

▪ Multiple redundancy
▪ NERC CIP compliance
▪ Fully scalable with the ability to add applications
▪ Survalent HMI can be added to provide a comprehensive graphical user interface

View of configuration window and analog points selected for transmission through Survalent Gateway.

Control your critical network operations with confidence

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

Over 600 utilities in 30 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 unwavering commitment to excellence and to our customers has been the key to our success for over 50 years.

" Overall, we are very pleased with the software and ease of use as compared to our previous vendor. "

- Nolin Rural Electric

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