⫶⫶⫶ Gridstream™

▦ SCADA Center

SCADA Center Product Suite

- SCICG Intelligent Communication Gateway
- SCGNM Gridstream Network Monitor
- SCASP Advanced Substation Platform
- SCASR Auto-Sectionalizing and Restoration
- SCTDS Transmission/Distribution SCADA
- SCEIS Enterprise Information System

Landis+Gyr's SCADA Center is a suite of applications that delivers a full range of distribution automation functions, including distributed intelligence for data acquisition and control in the utility environment. These applications can be used as single, stand-alone systems, or interconnected to form a powerful host network system that shares data, control, and processing. When deployed as a series of distributed systems, components are available for centralized configuration, administration and monitoring. All SCADA Center applications run on standard or hardened PC hardware under the industry-standard Windows operating systems.

▦ SC ICG Intelligent Communication Gateway

SCADA Center Intelligent Communication Gateway (ICG) is a gateway for acquiring data from substation and field devices and serving the data to one or more external systems. Data can be acquired from multiple devices simultaneously using multiple channels. The acquired data can then be configured into one or more slave devices and served to one or more external systems. The system supports serial and TCP/IP channels, multiple protocols, and protocol conversion. Additionally, the system contains a high-performance native-mode interface to Landis+Gyr Gridstream™ network devices to intelligently manage the communication bandwidth and maximize throughput for real-time data and control.

▦ SC GNM Gridstream Network Monitor

SCADA Center Gridstream™ DA Network Monitor (GNM) is a monitor and reporting system for the Gridstream communications network. It is used to monitor the health of individual radios in the network and report their condition to maintenance and operational personnel.

In order to minimize network traffic, radios in the network auto-report their status at a user-configurable interval. If a radio fails to report, GNM attempts to establish communication with the radio. If this fails, a radio failure is reported.

▦ SC ASP Advanced Substation Platform

SCADA Center Advanced Substation Platform (ASP) is an advanced substation computing platform. It replaces many common functions with a single, optionally redundant substation master. It includes functionality for:

- Sequence of events recorder
- Annunciator
- Relay oscillography file management
- Data acquisition, protocol conversion, concentrator, and data server
- Communication system manager

In addition, ASP provides an advanced high-performance platform for substation and distribution automation applications. Landis+Gyr offers several advanced applications that run on this platform.

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SC ASR Auto-Sectionalizing & Resoration

SCADA Center Auto-Sectionalizing & Restoration (ASR) is a unique distribution automation application that monitors distribution feeders for outages and automatically makes switching decisions to speed restoration. Once an outage is detected the logic in ASR determines the location of the fault and opens line switches to isolate the fault. Once the faulted line section has been isolated, ASR determines an appropriate backfeed solution and performs automated switching to restore customers beyond the faulted line section. The logic includes extensive safety checks, including line section capacity, recloser trip settings, and loading of the substation transformer bank. All actions occur automatically, without operator intervention to restore as many customers as possible within a few minutes after the initial outage.

SC TDS Transmission/Distribution SCADA

SCADA Center Transmission/Distribution SCADA (TDS) is a distributed client/server SCADA system for use in a control center environment. It supports multiple, distributed communication front-end-processors (FEP), redundant servers, separate application and history servers, and multiple operator workstations. The communication FEPs support multiple serial and TCP/IP channels and high-performance simultaneous polling. The system includes advanced features such as automatic alarm inhibit, areas of responsibility, customizable alarm sounds, and speech synthesis for control actions.

SC EIS Enterprise Information System

SCADA Center Enterprise Information System (EIS) is an enterprise-wide information system. Its purpose is to coordinate data from underlying SCADA Center systems and serve it to corporate systems such as EMS, DMS, OMS, CIS, and maintenance. In addition, it includes components to:

- Serve real-time data directly to corporate users via their desktops
- Centrally configure, administer, and monitor all the SCADA Center systems within the enterprise
- Monitor a Landis+Gyr Gridstream communication system

The Intelligent Utility
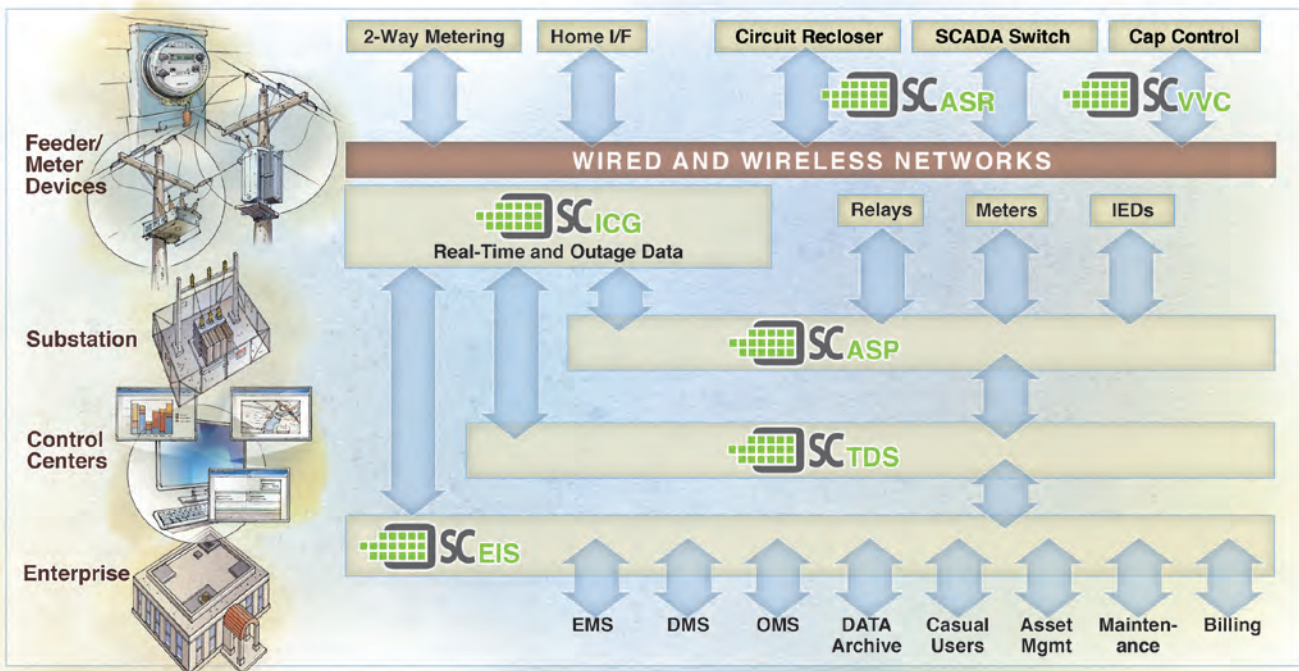
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