



GridServer

GridServer, a key component of the GridServer Solution Suite, provides data exchange between the GridServer family of field sensors and existing control center systems. GridServer manages communication links to the sensors and presents the collected data via industry standard protocols. GridServer works as a stand-alone system or in concert with SCADA, Outage Management Systems (OMS) and other control center systems. No custom interface is necessary. Utilities get the data they need in the format they need where they need it.

GridServer Sensors

The growing family of GridServer sensors includes:

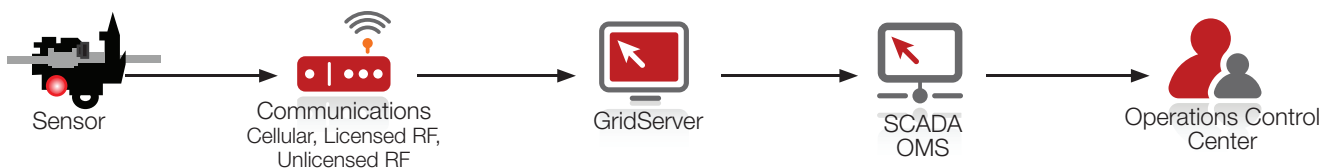
OutageAdvisor – A communications enhanced Faulted Circuit Indicator (FCI) that quickly indicates fault events, assists in finding their location, shortens response time, and improves reliability indices.

VARAdvisor – A sensor package that measures and reports the current flow through the capacitor neutrals to indicate fuse failures.

GridServer Communications

The historic roadblock to widespread-remote instrumentation packages is the cost of installing and supporting communications to multiple sites. This limits data collection to high value locations “inside the fence.” The GridServer Solution Suite maximizes existing communications media or uses negotiated commercial options to greatly reduce communications costs.

Deployed communication options include cellular data as well as industry leading SCADA and Advanced Metering Infrastructure (AMI) technology. Support for additional communication options is being developed. GridServer manages one or more communication methods simultaneously, allowing operators to focus on data rather than data collection.



OutageAdvisor data navigation from the sensor to the end-user.

Yukon and GridServer

Connect with existing and planned devices to efficiently make use of data to administer and provide notifications.

GridServer Functionality

Administrative

The GridServer management application allows utilities to perform administrative functions including adding a new device, editing a device, assigning a device location and setting up points associated with sensors. It is also used to configure data transfer protocols to SCADA, OMS and other control center systems.

Data Display

GridServer is designed to efficiently move sensor data from field locations to the utility system best able to capitalize on that data. Collected data can be viewed real-time in a tabular format on the GridServer. Content is customizable to reflect specific sensor applications such as OutageAdvisor or VARAdvisor. In most situations, data display and archival is managed by the utility's existing control center systems.

Notifications

GridServer provides e-mail, paging and text message notification of sensor events as well as display of alarm event status. Notification includes state value, threshold limits and other SCADA alarm conditions. Notifications are provided in real-time and are sent to configured notification groups. Personnel do not need to continually monitor for sensor events.

Interconnectivity

GridServer provides data integration into existing control center systems using standardized protocols to connect to SCADA, OMS and other control center systems. The key benefit is a reduction of operators' ongoing daily maintenance and data entry. GridServer provides operators with the tools they need to see data from a given sensor on the systems they know and use daily.

The base version of GridServer supports data export via DNP 3.0 and ICCP.

Cooper Power Systems GridServer Solution Suite uses cellular, licensed RF, and unlicensed RF communications to minimize infrastructure investment. It uses field proven technology to ensure the utility can provide the highest levels of customer reliability and service.

