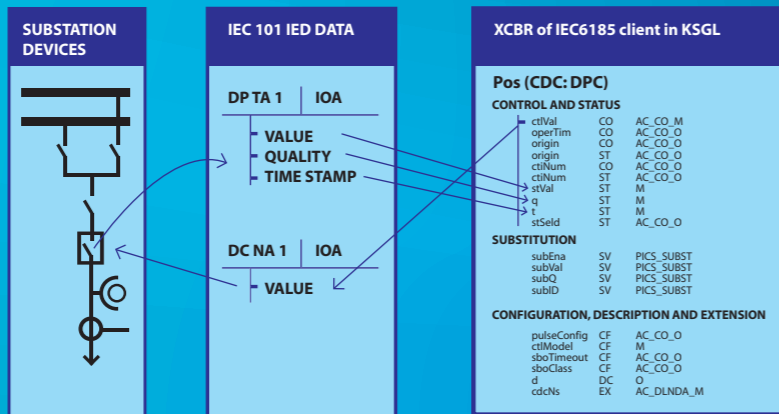


## Support available in all Models KSGL/S, KSGL/M, KSGL/S2E, KSGL/P, KPG

An example for IEC61850 data mapping to other protocols



# KALKI

## COMMUNICATION TECHNOLOGIES

CONTROL • COMMUNICATIONS • COMPUTING

## IEC61850

Now Kalki Gateways Support IEC61850

## IEC-61850 Solutions Offered by Kalki

### Implementation

- > Source Code Libraries for IEC-61850 implementation.
- > IEC-61850 server implementation in IEDs, Protection devices.
- > IEC-61850 client implementation in SCADA, DMS systems.
- > IEC-61850 implementations in merging units, condition monitoring equipments.
- > IEC-61850 GOOSE and GSSE publisher/subscriber support in IEDs, Protection devices and SCADA.

### Consultation & Training

- > Provides consultation services to OEMS on IEC-61850 implementation.
- > Provides consultation services to end utilities for evaluating IEC-61850 devices.
- > Support on interoperability analysis and evaluation of system performance as per IEC-61850 standards.
- > Training on IEC-61850 standard and Substation Configuration Language for OEMS and End Utilities.

### Products

IEC-61850 Proxy/Gateway for IED/ RTU/SCADA/DCS supporting other protocols.

- > KSGL/S, KSGL/S2E – Adapter for IEDs, protection relays that does not support IEC-61850.
- > KSGL/P – Interface for multiple legacy IEDs, RTU to IEC-61850 station bus. Gateway for IEC-61850 station bus to other systems supporting standard or proprietary TCP/IP or serial protocols. Supports dual LAN connection for redundancy of station bus.
- > KPG – Interfacing IEC-61850 substations to control centers. Enhanced security with different encryption standards like AES, DES, and SSL etc. Front End Processor for SCADA systems which do not support IEC-61850. Support multiple Ethernet ports for LAN and WAN connectivity.

- > Acts as Proxy / Gateway as per IEC61850 standards to provide the capability for a direct access to the physical devices in the substation.
- > Supports IEC61850 server & client implementations.
- > Enhanced Configuration and Diagnostic – Kalki SCL Manager integrated into EasyConnect configuration utility enables the customers for modeling and engineering their substation using the Substation Configuration Language.
- > Supports specific communication service mappings as per IEC61850-8-1.
- > Conforms to all the Data Models specified in IEC61850-7-x including Logical Devices & Nodes, Data, Datasets etc.
- > Supports buffered and unbuffered reporting schemes.
- > Fast peer to peer communication through GOOSE & GSSE models.
- > Data representation in standard SCL format.
- > Time Synchronization functionality through external SNTP server.
- > Supports all types of commands including commands with normal and enhanced security.
- > Supports SCL transfer for IEC61850 client.
- > Two way mapping facility to other protocols like IEC-60870-5-101/104, IEC-60870-5-103, IEC61850, DNP 3.0, Modbus TCP/RTU, ABB SPA, ABB RP570, Alstom Courier etc.

