AX-S4 61850
The Complete Interface of Windows Applications

OVERVIEW

AX-S4 61850 ("Access for 61850") provides access to real-time data via IEC 61850 for any Windows compatible application supporting OPC Data Access (DA) and DDE interfaces. AX-S4 61850 gives you a high-level interface to real-time data that lowers your integration cost by providing you everything needed to interface IEC 61850 with standard off-the-shelf OPC based applications on the Windows platform in a single easy -to-use package. All the essentials needed to interface Windows applications to IEC 61850 devices are bundled in a single easy-to use solution including an IEC 61850 client, an IEC 61850 server, and an IEC GOOSE publisher/subscriber.

AX-S4 61850 is optimized to allow standard OPC products to interface with IEC 61850 devices by automatically handling most of the unique features of IEC 61850. This enables off-the-shelf products to be used effectively with IEC 61850 devices without complex scripting, logic, and special handling by the OPC applications.

SUPPORT

- **Support for IEC 61850:2003 parts 6, 7-2, 7-3, 7-4, 8-1, 7-410, 7-420, and IEC 61400-25-2**

- **IEC 61850 Client Functions:**

    - Object discovery and configuration
    - SCL import to configure objects and devices
    - Read/Write of any IEC 61850 object
    - Buffered and un-buffered reporting
    - Controls (direct, SBO, normal/enhanced security)
    - File Transfer client and server

- **IEC 61850 Server enables support for proxies, data concentrators, gateways and to expose OPC data from applications as IEC 61850 data**

    - Server configuration via SCL (IEC 61850-6) supporting mapping of IEC 61850 objects to external OPC server for dynamic data and fixed value initialization for static data
    - User configurable read/write access and group update rate to any object
    - Buffered and un-buffered reporting with dead band processing
    - Controls (Direct and SBO via normal security)
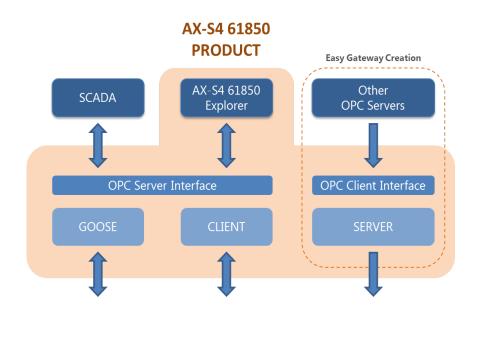   - Object discovery by clients using ACSI services

- **IEC 61850 GOOSE publisher/subscriber**

    - Configuration via SCL (IEC 61850-6)
    - User configurable retransmission curve
    - Mappable to IEC 61850 Server for fully functional GOOSE control blocks

FEATURES

- **Automatic report subscription and dataset handling supports re-enabling of reports after power down or device disconnects and enables data flow without OPC client interaction**

- **Automated mapping of IEC 61850 quality and timestamp data to OPC quality and timestamps**

- **Simplified control functions support single object write operations**

- **Interactive object explorer for device and object visualization, debug, testing, configuration, and control**

- **A complete solution in a single easy to use package that includes:**

  - IEC 61850 Client - OPC/DDE Server
  - IEC GOOSE pub/sub - OPC Server
  - IEC 61850 Server - OPC Client
  - IEC 61850 Object Explorer

- **Flexible association management for the IEC 61850 client:**

  - Up to 8 IP addresses can be set for each remote device. AX-S4 61850 will attempt to connect to all addresses when establishing an association
  - Automatic retry and timeouts with a "keep-alive" feature for report only associations
  - Association control and reconfiguration items exposed to OPC clients to override automatic association management functions

- **AX-S4 61850 functions and OPC applications can all be run concurrently on a single computer as a service or application process**

- **Each license good for a single computer with no device or tag limit on licensing**

- **Compatible with hundreds of OPC applications supporting OPC Data Access V3.0 and V2.05a**

**AX-S4 61850
PRODUCT**

Easy Gateway Creation

SCADA	AX-S4 61850 Explorer	Other OPC Servers
OPC Server Interface		OPC Client Interface
GOOSE	CLIENT	SERVER