MMS Lite

IEC 61850 for Embedded Systems

SISCO
SYSTEMS
INTEGRATION
SPECIALISTS

OVERVIEW

MMS Lite is a source code product that will let you get your IEC 61850 Intelligent Electronic Devices (IEDs) up and running quickly using a robust field-proven implementation that is widely deployed in operational devices such as RTUs, relays, reclosures, PLCs, tap changers, meters and other resource-constrained systems.

MMS Lite is easily portable to ANY operating system and CPU type supporting an ANSI C compiler. MMS Lite supports everything needed to implement IEC 61850 client and server applications and devices using setting groups, data, datasets, logs, buffered and unbuffered reporting, controls, standardized and custom logical nodes, GOOSE, and multicast sampled values (process bus).

MMS Lite significantly reduces development effort and time for the efficient and portable implementation of IEC 61850 which includes support for:

- **Wind, hydroelectric, distributed energy resources & substation logical nodes, and data**
- **High-speed automation and tripping via GOOSE**
- **CT/VT sharing through sampled values**
- **Wide-area scommunications using IEC TR 61850-90-5 for R-GOOSE and R-SV over IP Multicast**
- **IEC 62351-6 security extensions for client/server functions available as an option**
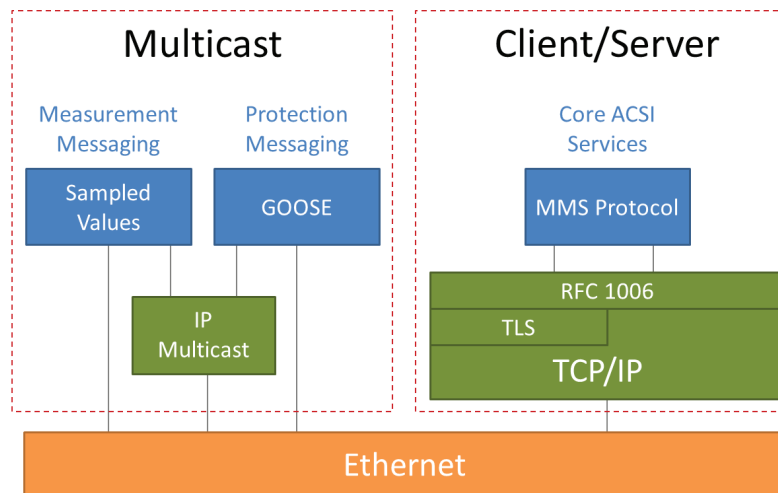
BENEFITS

- **Readily available and widely used**
- **Regular updates implementing technical resolutions and UCAIug testing**
- **Easy-to-use code, sample applications, training and support provided**
- **Maximum performance with minimal CPU and memory requirements**
- **Device configuration via SCL files**
- **Flexible licensing options**

OVERVIEW

As industry concern for the security of large scale power systems increases, the need to implement secure communications that can prevent unauthorized access to the power system functions becomes more critical. To support these needs, SISCO has developed a set of security extensions that provides robust and secure IEC 61850 communications using MMS Lite.

The MMS Lite security extensions implement the client/server functions of IEC 62351-6 to ensure the privacy and authentication of power system communications. These security extensions are available as a separate add-on to any MMS Lite license.

FEATURES

- **Strong authentication using 1024/2048 bit digital certifications**

- **TLS based encryption**

- **Data structure support for IEC 62351-8 role-based access control**

MMS Lite (continued)

CUTTING EDGE TECHNOLOGY

- **Automation for 61850 reports, GOOSE, general interrogation, and logging**

- **Portable to any operating system supporting ANSI C**

- **Asynchronous and synchronous programming support**

- **Scalable (tested to 1000 connections)**

- **Comprehensive global product support and maintenance**

- **User manageable and modifiable source code**

COMPLIANCE TO IEC STANDARDS

- **61850-6: Substation Configuration Language**

- **61850-7 Series: ACSI Services & Data Objects**

- **61850-8-1: Client/Server using MMS and GOOSE Multicast**

- **61850-9-2: Sampled Measured Values**

- **61850-7-410: Hydro Power Models**

- **61850-7-420: Distributed Energy Resources**

- **61850-90-5: Wide Area Measurement Protection & Control**

- **61400-25-2: Wind Power Models**

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