

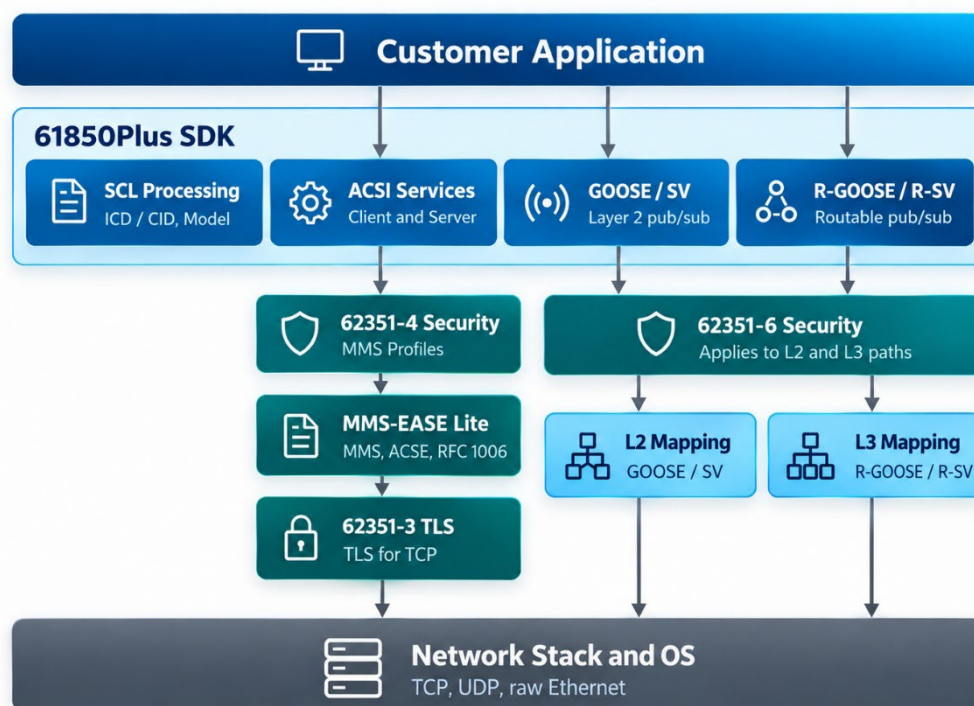
61850 Plus

Production-Ready IEC 61850 Source Code for Embedded IEDs

61850 Plus (formerly **MMS Lite**) is a portable ANSI C source code implementation of the full IEC 61850 client/server stack – ready to compile on your target platform. Designed for OEM engineering teams building IEC 61850-conformant devices, including **RTUs, protective relays, reclosers, PLCs, tap changers, and meters** deployed in live utility networks worldwide.

Protocol Coverage

- Full **ACSI services**: data, datasets, logs, buffered & unbuffered reporting, controls, and setting groups
- **GOOSE** (Layer 2 Ethernet) and **R-GOOSE** (routable over IP multicast) for high-speed protection tripping and wide-area automation
- **SV and R-SV** for precision measurement sharing across the process bus
- **Logical node models** for substation, distributed energy resources (DER), hydro, wind applications, and custom logical nodes
- **IEC 62351 security extensions** (parts 3, 4, 6 & 9) – available in the Secure and KDC packages



Key Benefits

- **Faster Time to Market.** Skip protocol stack development entirely. Focus engineering resources on your device's differentiating functionality.
- **Field-Proven Reliability.** Widely deployed in operational IEDs across global utility networks. A production stack – not a prototype.
- **Conformance Confidence.** Tissue resolution updates ensure alignment with current UCAlug test procedures before you certify.
- **Minimal Footprint.** Maximum performance with minimal CPU and memory overhead – engineered for embedded constraints.
- **Full Source, Perpetual License.** Modify and extend the implementation to meet your device's specific requirements.

IEC Standards Compliance

61850-6	Substation Config Language (SCL)
61850-7	ACSI services & data objects
61850-8-1	Client/Server via MMS & GOOSE multicast
61850-9-2	Sampled measured values (process bus)
61850-7-410	Hydro power logical node models
61850-7-420	Distributed energy resources (DER)
61400-25-2	Wind power communication models

61850 Plus Secure Package

SISCO's security extensions add a full IEC 62351 authentication and encryption layer to 61850 Plus – authenticating all IEC 61850 communications, including GOOSE and SV, against tampering, spoofing, and replay attacks, and encrypting client/server links with TLS. Designed for OEMs and utilities operating under NERC CIP and IEC 62351 mandates.

- IEC 62351 Parts 3, 4, & 6 (Part 9 support available in separate KDC package)
- RSA & ECC certificate support
- TLS-based encrypted connections
- Anti-replay protection
- GOOSE & SV security

Get Started

Ready to evaluate 61850 Plus for your device? Contact SISCO to request a technical demo, discuss licensing options, or get answers from the engineers who built the stack.

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