EMPOWERING ENERGY INTEGRATION

ICCP PLUS

Build Native ICCP Into Your Control Platform

If you are building a SCADA, EMS, DMS, or demand aggregation platform, your customers expect it to exchange real-time data with neighboring utilities, ISOs, and power plants over ICCP-TASE.2. ICCP PLUS gives your development team portable, standards-compliant source code to build that interface natively. You compile it into your own codebase and ship it as part of your product, with no black-box appliance and no vendor lock-in.

The Challenge: Build It or Bolt It On

ICCP (IEC 60870-6 TASE.2) carries the telemetry, control commands, and schedules that keep interconnected grids stable. Implementing it well means mastering multiple conformance blocks, two protocol versions, IEC 62351 security, and redundant operation under load. Building that stack in-house can take 18–24 months. Licensing a closed gateway leaves your platform dependent on someone else's architecture and release cycle.

Why It Matters

- **EMS, SCADA, and DMS platform vendors:** Ship a native ICCP interface as part of your product, not a third-party add-on.
- **ISO/RTO technology teams:** Own the inter-control-center layer of your in-house platform, built on an open international standard.
- **Demand aggregation developers:** Deliver standards-compliant ICCP signaling for demand response and distributed resource dispatch.
- **Embedded device manufacturers:** Run ICCP on compact RTUs and data concentrators under an RTOS.



Key Capabilities

- **Full client and server support.** Covers ICCP Conformance Blocks 1 through 5, conformance-validated against IEC 60870-6 TASE.2.
- **Both protocol versions.** Supports V1996-08 and V2000-08, including millisecond timestamps and All Changes Reported.
- **Portable ANSI C.** Compiles on Linux, Windows, RTOS, or proprietary platforms, with no runtime dependency on external appliances or vendor infrastructure.
- **Scales from embedded to enterprise.** One implementation runs on resource-constrained RTUs and scales to enterprise ADMS platforms handling 1,000 concurrent associations. Multiple independent application processes on one host provide security isolation.
- **Built-in redundancy.** Dual local redundancy with automatic or manual failover and data/configuration synchronization; triple and quad remote redundancy for mission-critical transmission and ISO/RTO environments.
- **Faster commissioning.** Automatic discovery of remote data values plus automatic Data Set and Data Set Transfer Set configuration.
- **Simple configuration.** XML-based configuration with a GUI utility delivered as executable code.

Security

- **Strong authentication (IEC 62351-4):** Application-level authentication with X.509 certificates (2048-bit keys).
- **Encryption (IEC 62351-3):** TLS supports symmetric encryption with key lengths of up to 256 bits (e.g., AES-256) with periodic rekeying and SHA-256 signing.
- **Migration-friendly:** Configure security per link, with optional non-secure fallback to keep data flowing with legacy peers. Java-based security configuration tools included.

Standards and Specifications

- **Protocol:** IEC 60870-6 TASE.2 (ICCP), Ed.1 (V1996-08) and Ed.2 (V2000-08); Conformance Blocks 1–5
- **Platforms:** Linux, Windows, RTOS, and proprietary platforms
- **Security:** IEC 62351-3 and IEC 62351-4
- **Delivery:** ANSI C source code with sample application
- **Licensing:** Per-copy (royalty) or paid-up; corporate and product-restricted options available

Why SISCO

SISCO engineers participate in the IEC TC57 working groups that define ICCP-TASE.2 and IEC 62351 security. Since 1983, SISCO has delivered standards-based integration for ICCP-TASE.2, IEC 61850, and CIM, with global product support and maintenance behind every license. ICCP PLUS is conformance-validated by the team that helps write the standard.

Get Started

Ready to add native ICCP to your platform? Contact SISCO to request the sample application, discuss licensing, or talk with the engineers who built ICCP PLUS.

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