

Remote monitoring and control

SIPLUS RIC: Remote Interface Control



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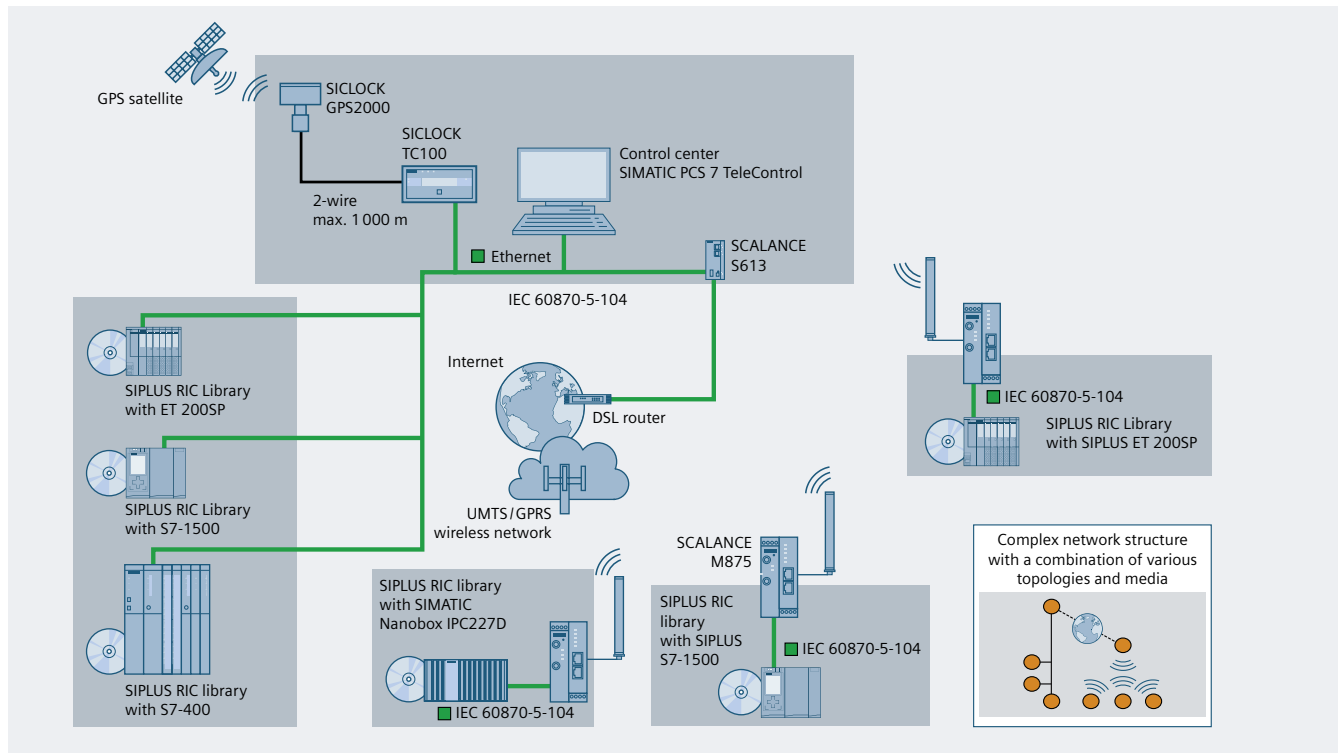
If distributed systems and stations are to be monitored and controlled effectively, they must be seamlessly integrated into the automation network. That's exactly where SIPLUS RIC steps in. With its powerful libraries ready to expand the world's leading automation system, SIMATIC S7 can connect to a telecontrol system.

Networking to the control center is via international protocols which are easy to configure and parameterize with SIPLUS RIC blocks without the need for additional installations. SIPLUS RIC provides secure communication with reduced data volume for networking individual controllers and control systems via WAN (Wide Area Networks).

Advantages at a glance

- Compatibility with TIA Portal and SIMATIC Manager
- Parameter assignment of standardized manufacturer-independent IEC 60870 protocols without additional installations
- Connection of SIMATIC to third-party control systems via IEC protocols
- Easy modernization or expansion of all existing installations
- Gap-free archiving of process data, even after a connection is lost, thanks to backup in the local buffer and event-driven data transmission (incl. time stamp)
- Integrated, scalable configuration from SIMATIC ET 200S to SIMATIC S7-400H up to ET 200SP and S7-1500
- SIMATIC PCS 7 as substation with SIPLUS RIC facilitates communication to the PCS 7 Telecontrol
- Redundant data communication
- Diagnostic functions

Simple interfacing of distributed systems to the control system – with SIPLUS RIC



Based on the international IEC 60870-5-101 and IEC 60870-5-104 standards, water supply networks can transmit standardized information between outstations and networked control centers. Time synchronization is via GPS connected to a central plant clock such as SICLOCK TC100 and ensures the same consistent time-of-day throughout the system.

SIPLUS RIC product highlights

- Communication with standardized protocols
 - Serial transmission IEC 60870-5-101
 - Serial transmission IEC 60870-5-103 for protection devices
 - Ethernet (TCP/IP) IEC 60870-5-104
- Automation with SIMATIC STEP 7
- Modularity and scalability
- No additional configuration tools required
- Applications in harsh industrial environments possible with SIPLUS extreme
 - Extended temperature range from $-25\text{ }^{\circ}\text{C}$ to $+70\text{ }^{\circ}\text{C}$
 - Protection against condensation and extreme media exposure (conformal coating)
- Data security
 - Optional buffering of time-tagged telegrams for bridging communication interruptions
 - Time synchronization possible via NTP or IEC protocol

Subject to changes and errors. The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.

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