Scalable telecontrol and automation.

SIPLUS RIC in the oil and gas industry.

Future-orientated and economic

SIPLUS RIC (Remote Interface Control) is a telecontrol system specifically developed for the oil and gas industry. It is based on the SIMATIC S7 standard automation system and offers maximum user-friendliness. For data-reduced and safe communication, SIPLUS RIC supports the individual controls’ and control systems’ networking via WAN (Wide Area Network). Event-controlled, time-stamped transmission, monitored command output and IEC protocols ensure reliable operation in the WAN. Data are chronologically and seamlessly archived throughout the entire network by means of data buffering and automatic time stamping at the location of origin, allowing an easy fault localization and rectification. Furthermore, integration in Totally Integrated Automation (TIA) saves costs for additional devices. SIPLUS RIC is offered in the form of bundles: Hardware and software are supplied together.

SIPLUS RIC: Advantages at a glance

- Standardized, manufacturer-independent IEC protocols can be parameterized with the SIPLUS RIC software without any additional installations.
- IEC protocols facilitate the implementation of SIMATIC in third-party control systems and ease the modernization or expansion of all existing installations.
- Backup in the local buffer and event-controlled data transmission (incl. time stamping) allow for the process data’s seamless archiving, even after connection failures.
- Integrated, scalable configuration of SIMATIC ET 200S to SIMATIC S7-400H and the SIMATIC software controllers with the standard SIMATIC Manager. SIPLUS RIC libraries are already usable with SIMATIC PCS 7 TeleControl.
- High communication availability thanks to redundant data communication. Increased productivity thanks to fast fault elimination by means of diagnostics functions.
Multifaced transmission elements – tailored to your needs

Flexible communication options in the WAN:

Communication protocols:
- Serial transmission IEC 60870-5-101
- Ethernet (TCP/IP) IEC 60870-5-104
- Protection device connection IEC 60870-5-103
- Open Modus TCP/IP
- Modbus serial

Classical WAN
- Dedicated line via modem technology, e.g. SINAUT MD2
- Dedicated line via fiber-optic cables
- Private radio networks

TCP/IP-based WAN
- Ethernet networks, e.g. SCALANCE X with fiber-optic
- Wireless, e.g. SCALANCE W with Wireless Ethernet
- Public networks or Internet using DSL and/or GPRS
- Satellite communication, e.g. Inmarsat

Data security
- Time stamp at the data source
- Time synchronization is possible via NTP or IEC protocol
- Data buffering for bridging of breaks in communication
- Monitored output of commands for reliable detection of malfunctions

Applications
- Easy integration of SIPLUS RIC products into SCADA systems
- Migration of existing SCADA systems
- Integration of existing third-party systems into SIMATIC S7

References from the oil and gas industry

OMV AG, Austria (downstream)
The local S7-400-based PCS 7 system for the automation of booster stations and natural gas stores was expanded by the IEC protocol (SIPLUS RIC). Monitoring and control of the natural gas grids can thus be carried out from a single control center of a third-party vendor. This significantly reduces local personnel costs.

RMG Regel + Messtechnik GmbH
The RMG company realizes all automation tasks for natural gas stations with SIMATIC S7-300/400. The automation systems’ functional expansion by SIPLUS RIC is indispensable for the customers’ communication with the already existing control centers by various manufacturers. The economization of additional costs for external remote control devices represents a further advantage.

SIPLUS RIC: Future-orientated and economic with SIMATIC S7 standards

The remote control modules of the SIPLUS RIC range offer maximum functionality and modularity in order to meet all requirements placed on the monitoring and control of spatially distributed systems. The remote control library based on the SIMATIC S7 standard automation system supports flexible communication options.