

Protocol consulting from Kalkitech enables power, oil and gas customers, system integrators and OEM's to adopt and deploy communication solutions and manage inter-operability standards quickly and cost effectively. Kalkitech provides a host of consulting services right from technology survey, standard identification, sourcing of right tools and technologies, design consultancy and turnkey implementation and maintenance services.

Kalkitech offers the following products and services to the Utility customers and OEM's.

ANSI C Development Libraries for RTU/PLC/SCADA/DCS

- IEC61850
- IEC 60870-5-101
- IEC 60870-5-103
- IEC 60870-5-104
- DNP3
- ICCP / TASE.2 (IEC 60870-6)
- DLMS / COSEM (IEC 62056)
- IEEE C37.118
- Ethernet/IP
- ANSI 12.18

Protocol Software Gateways with OPC/DDE/ODBC/ERP Interface.

- IEC 60870-5-101/103/104 Master and Slave
- DNP3 Master and Slave
- Modbus RTU/TCP Master and Slave
- ICCP
- IEC 61850
- DLMS/COSEM
- IEEE C37.118

Protocol Test Tools

1. Telemetry Protocols

- IEC 61850
- DLMS/COSEM
- IEC 60870-5-101/103/104
- DNP3
- Modbus

2. Other OEM Specific Standards

- Indactive 13, 21, 23, 33,
- ProControl 214, RP 210, RP 570/571, ZM15, ZM20
- DUST 3964R (FWK16/2, FWK16/3, Sinaut FWA)
- EFD 300, FW 517, FW 535, FW 537, IEC BAG,
- SAS, Simatic N,
- Sinaut 4-FW, Sinaut 8-02, Sinaut ST1, Sinaut HSL
- Sinaut 8-FW (PCM, PDM/ SEB 210-4k/ Token)
- Landis & Gyr : SCTM FAF 22; TELEGYR 707 and 809
- MAUELL : ME 8008
- AEG : GeaDat 81; GeaTrans F202, F202 KC and F203
- RWE : SDN
- SAT : 1703, SK 1703-SSISEL : Pleiger,
- TELEPULS ZPC 3600, ZPC 1600, TP 29

Consulting and Development Services

1. Consultancy during protocol development

- Project Startup Assistance
- External Reviews
- Knowledge transfer and training
- Protocol Implementation Design Document (PID)
- API requirements for customer systems & architecture
- Designing of specific interfaces based on the current H/W and S/W setup
- Validation Testing

2. Validation after development

- Preparing test plan
- Conformance testing

3. Training on telemetry protocols

4. Life Cycle Support after development

- Interoperability testing on site
- Consultancy and Problem investigation service at factory and customer sites

5. Turnkey Protocol Implementation, Validation and Life Cycle Support

6. Protocols Currently Supported

- IEC 61850
- IEEE C37.118
- IEC 60870-5-101
- IEC 60870-5-103
- IEC 60870-5-104
- DNP 3.0
- ICCP (IEC 60870-6, TASE.2)
- MODBUS
- DLMS/COSEM (IEC 62056)
- OPC
- Ethernet/IP
- Profibus DP

Check <http://www.kalkitech.com/protocolsupport.htm> for the latest list of supported protocols

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