IEC 60870-5 OPC Server Suite
KEPServerEX – Communications Platform

The IEC 60870-5 Master Suite of drivers for KEPServerEX connects to IEC 60870-5-101 and IEC 60870-5-104 slave devices in an electrical substation that includes RTUs, IEDs, controllers, and gateways. The IEC 60870-5-101 and IEC 60870-5-104 drivers work in conjunction with KEPServerEX to provide connectivity and communications with HMI, SCADA, and Historian client applications.

Protocols

- IEC 60870-5-101 Master
- IEC 60870-5-104 Master

IEC 60870-5 Suite Features

- Supports Sequence of Event data with playback
- Supports cyclic, background scan, and polled reads
- Supports Select & Execute and Direct Execute for writes
- Supports General Interrogation and Counter Interrogation
- Supports Time Synchronization
- Supports the most common ASDUs
- Supports Balanced & Unbalanced communications

Supported Devices

- Any device supporting the IEC 60870-5-101 Slave Protocol
- Any device supporting the IEC 60870-5-104 Slave Protocol
Proven Interoperability

• 150+ Communication Drivers with More than 250 Unique Protocols.
• Supports Open Standard Interfaces:
  • DDE Formats: CF_Text, XL_Table, Advanced DDE, and Network DDE.
  • OPC Alarms and Events (OPC AE): 1.0 and 1.10.
  • OPC Data Access (OPC DA): 1.0a, 2.0, 2.05a, and 3.0.
  • OPC .NET: 1.20.2.
  • OPC Unified Architecture (OPC UA): 1.01.
  • Thin-Client Terminal Server: Windows Remote Desktop.
• Supports Native Vendor Interfaces:
  • Wonderware FastDDE & SuiteLink.
  • GE NIO for iFIX.
  • Oracle.
• Advanced OPC and Channel Diagnostics.

Centralized Communications

• Single Server Platform for All Communications.
• Consistent, User-Friendly Interface.
• Automatic Tag Generation.
• CSV Import/Export.
• Advanced Tags for Linking and Computations.
• Write Optimization and Error Recovery.
• Advanced User Management.

On-Demand Scalability

• Plug and Play Device Drivers and Communication Options.
• Parallel Configuration and Live Operation via Separate Configuration and Runtime.
• Multi-Threaded Channel Architecture.

Industrial Strength

• OPC Certified Compliance.
• Strict Internal Quality and Control Standards.
• Media Level Redundancy.
• Endorsed by 15 Top OEMs.

Requirements

Supported Operating Systems

- Windows 8
- Windows 7 Professional/Enterprise/Ultimate
- Windows Server 2012
- Windows Server 2008 and 2008 R2
- Windows Vista Business/Enterprise/Ultimate
- Windows Server 2003 SP2
- Windows XP Professional SP2

Minimum PC Hardware Requirements

- 2.0 GHz Processor.
- 1 GB installed RAM.
- 180 MB available disk space.
- Ethernet Card.
- Super VGA (800x600) or Higher Resolution Video.

About Kepware

Kepware Technologies is a private software development company headquartered in Portland, Maine. Kepware provides a portfolio of software solutions to help businesses connect diverse automation devices and software applications. From plant floor to wellsite to windfarm, Kepware serves a wide range of customers in a variety of international vertical markets including Manufacturing, Oil & Gas, Building Automation, Power Distribution, and more. Established in 1995 and now distributed in more than 100 countries, Kepware’s software solutions help thousands of businesses improve operations and decision making.

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