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.
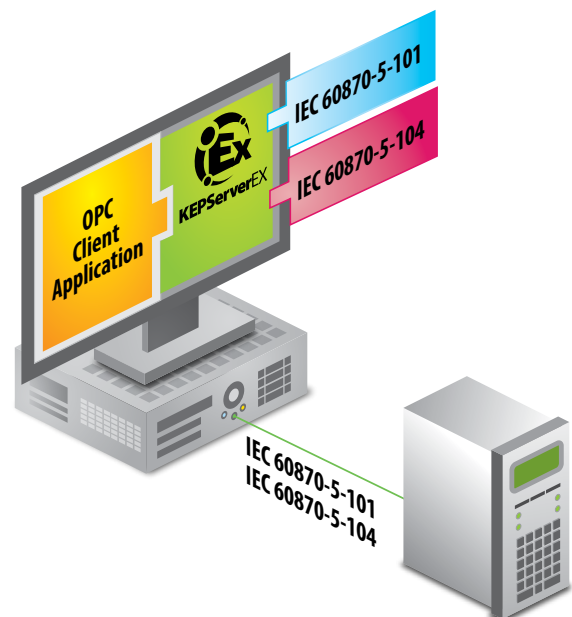
Protocols

- 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

KEPServerEX

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.

Contact Information

Support
1 (207) 775-1660 x211
support@kepware.com

Sales
1 (207) 775-1660 x208
sales@kepware.com

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