kepware®

KEPServerEX® Connectivity Platform

KEPServerEX is the industry's leading connectivity platform that leverages OPC and IT-centric communication protocols to provide a single source of industrial data to all automation devices, machines, and software applications. With built-in scalability and a library of more than 150 drivers and advanced plug-ins, KEPServerEX has the flexibility to overcome any data connectivity challenges.

KEPServerEX enables users to connect, manage, monitor, and control diverse automation devices and software applications through one intuitive user interface. With IoT-ready features and seamless connectivity to legacy devices, KEPServerEX enables real-time data visibility for improved decision-making from the shop floor to the top floor.

Performance

- Supports a variety of wired and wireless network mediums for Ethernet, serial, and proprietary networks
- Supports telemetry configurations with modem support, scheduling, and other advanced features
- Rapid project deployment via automatic tag generation and device discovery
- Configuration API for third-party server management
- Simulation options for testing prior to deployment
- Data conditioning and reduction, minimizing bandwidth and resource utilization
- Multiple redundancy options, ensuring maximum uptime in critical environments
- Load-balancing for throttling demand across the network
- Machine-to-Machine (M2M) linking between homogenous and heterogeneous systems
- Streamlined UI that enables users to manage device connectivity with minimal effort
- Robust security features for restricting access to the server, data source, and data values
- Rich event logging and diagnostics for easy troubleshooting

OPC Specifications

- OPC Unified Architecture (UA)
- OPC Data Access (DA)
- OPC .NET
- OPC Historical Data Access (HDA)
- OPC Alarms and Events (AE)

IT Standards

- Message Queuing Telemetry Transport (MQTT)
- Representational State Transfer (REST)
- Open Database Connectivity (ODBC)
- Simple Network Management Protocol (SNMP)

Cloud Interfaces

- ThingWorx®
- Splunk

Application Interfaces

- Dynamic Data Exchange (DDE)
- Wonderware SuiteLink/FastDDE
- iFIX and iFIX Process Database (PDB)

Device Connectivity

- Top hardware vendors like Allen-Bradley, GE, Omron, Schneider, Mitsubishi, and Siemens
- Industry standard protocols, such as like MTConnect, DNP3, IEC 61580/60870, and BACnet

Supported Operating Systems

- Windows Server 2016
- Windows 10
- Windows Server 2012 R2 and 2012
- Windows 8
- Windows Server 2008 R2
- Windows 7 Ultimate, Enterprise, and Professional

System Requirements

- 2.0 GHz processor
- 1 GB installed RAM
- 180 MB available disk space
- Ethernet card
- Super VGA (800x600) or higher resolution video

Available Languages

- English
- German
- Japanese
- Simplified Chinese

Current Version

- 6

ptc

Breadth of Connectivity

With support for both legacy and IoT-ready manufacturing technology, Kepware solutions are key components of any smart, connected factory.

In addition to KEPServerEX—the industry-leading data connectivity platform—Kepware makes more than 150 drivers and advanced plug-ins. Each is designed to overcome unique industry challenges and extend the capabilities of KEPServerEX to better suit your needs.

Kepware advanced plug-ins fit the data connectivity requirements unique to your industrial control system. They extend the capabilities of KEPServerEX and increase the usefulness of raw data by transforming it into accessible and actionable information.

Kepware drivers are software components that enable KEPServerEX to meet the connectivity requirements of a specific device, system, or other data source. Drivers handle all proprietary communications to the data source for KEPServerEX. Kepware offers the broadest range of drivers available, supporting a variety of current and legacy devices and wired and wireless networks.

Business Benefits

KEPServerEX provides the global connectivity, usability, and performance required by the enterprise—offering competitive benefits that can be experienced from the plant floor to IT to the boardroom.

- IoT-ready, interfacing with on-premise web servers and off-premise Cloud applications for real-time insight into industrial operations

- Compatible with leading hypervisors, such as VMware and Hyper-V, for deployment on public and private clouds

- Integrates with IT applications for visibility into assets on the plant floor at any time and from any location

- Enhanced messaging security via SSL and TLS for secure, authenticated, and encrypted communications across various network topologies

- Streamlined and reliable connectivity to OPC client applications, including HMI, SCADA, Historian, MES, ERP, and more

- Advanced application security features to meet site security requirements

- Sophisticated access control to the server, data source, and data values

- Multiple redundancy options to ensure resiliency, high-reliability, and uptime in critical applications

- Scalable unified architecture, providing the flexibility to combine drivers and consume multiple protocols in a single server

- Streamlined interface for simple installation, configuration, maintenance, and troubleshooting
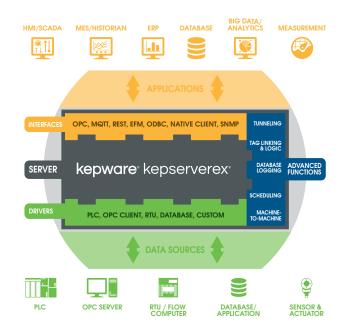
Visit www.kepware.com to learn more and download free, fully-functioning demonstration software.

Support

Kepware offers pre-sales consultations and a comprehensive service plan to support customers from purchasing to upgrading to troubleshooting. To learn more, please contact Kepware's Sales team.

Contact Information

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About Kepware

Kepware is a software development business of PTC Inc. located in Portland, Maine. Kepware provides a portfolio of software solutions to help businesses connect diverse automation devices and software applications and enable the Industrial Internet of Things. From plant floor to wellsite to windfarm, Kepware serves a wide range of customers in a variety of vertical markets including Manufacturing, Oil & Gas, Building Automation, Power & Utilities, 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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