

Oil & Gas

Energize your
Communications with
Kepware



Kepware has the communication software solution to reenergize your business today.

KEPServerEX is an interoperable software solution that connects disparate devices and systems delivering information throughout your organization. Kepware's Oil and Gas product suite is a single server platform providing centralized communications with the scalability, industrial strength, and interoperability to meet the varied business challenges in the Oil and Gas industry.



KEPServerEX can be easily configured for upstream, midstream, and downstream companies to help them connect, monitor, manage, and control diverse automation devices and software applications across multiple telemetry options.

Communication Drivers:

Information is interpreted and translated through KEPServerEX's vast library of [communication protocols](#) and interfaces, allowing information to flow seamlessly between automation and enterprise systems. KEPServerEX provides drivers for Open Standards and industry leading automation equipment, spanning over 300+ protocols.

Built-in Redundancy:

Kepware's [RedundancyMaster](#) and KEPServerEX's [Media Level Redundancy](#) plug-in establish a reliable and uninterruptable network for monitoring and controlling your automation processes. RedundancyMaster increases reliability by marshaling redundant pairs of communication servers. Media Level Redundancy is a standard feature within KEPServerEX, and is used to establish a redundant connection of a single device or a pairing of two devices. Both redundant methodologies can be used together to eliminate a single point of failure within a system.

Electronic Flow Measurement:

A significant number of flow devices & flow computers have the ability to store raw historical flow measurement data and perform computations on this data. KEPServerEX drivers with [EFM](#) capabilities retrieve the data on a configurable interval basis and the [EFM Exporter](#) creates appropriately formatted output files for upload into flow analysis/accounting software (i.e., Flow-Cal, PGAS, etc.) for custody transfer purposes.

Communications Tunneling:

[OPC UA tunneling](#) uses a Client/Server architecture to transfer data over the Internet, WAN or LAN. It creates a secure connection through firewalls and complements existing internal OPC DA connectivity. The OPC UA tunnel boasts security, ease of use and maintainability.

Information Linking and Logic:

Kepware's [Advanced Tags](#) plug-in allows users to link information among components in your OPC Server project. The LinkMaster product expands this capability to enable information to be linked among separate OPC servers. Also, Logic and Math functions on tags can be performed using Advanced Tags. Users can measure the duration of operations, totalize events, perform averages, set trigger conditions for data acquisition, and combine machine conditions to generate an overall machine state- all in a convenient, cost effective, and straightforward way. These capabilities are extremely valuable for high-level archive and subsequent analysis.

Data Logging:

The [DataLogger](#) option is an easy-to-configure application that logs data from a KEPServerEX to any ODBC-compliant database. DataLogger's plug-in design within KEPServerEX provides substantial, unique benefits such as simple installation, high-efficiency performance, and easy browsing of tags in the OPC browse space.

UPSTREAM

Exploration & Production Communications Support:

- Wellsite Information Transfer Specification (WITS Level 0)
- Lufkin (Rod Pump Controller, Variable Speed Drive, Injection Well Controller, Progressive Cavity Pump)
- Weatherford (Rod Pump Controller, Rod Pump Optimization Controller, ePIC Variable Speed Drives)

MIDSTREAM

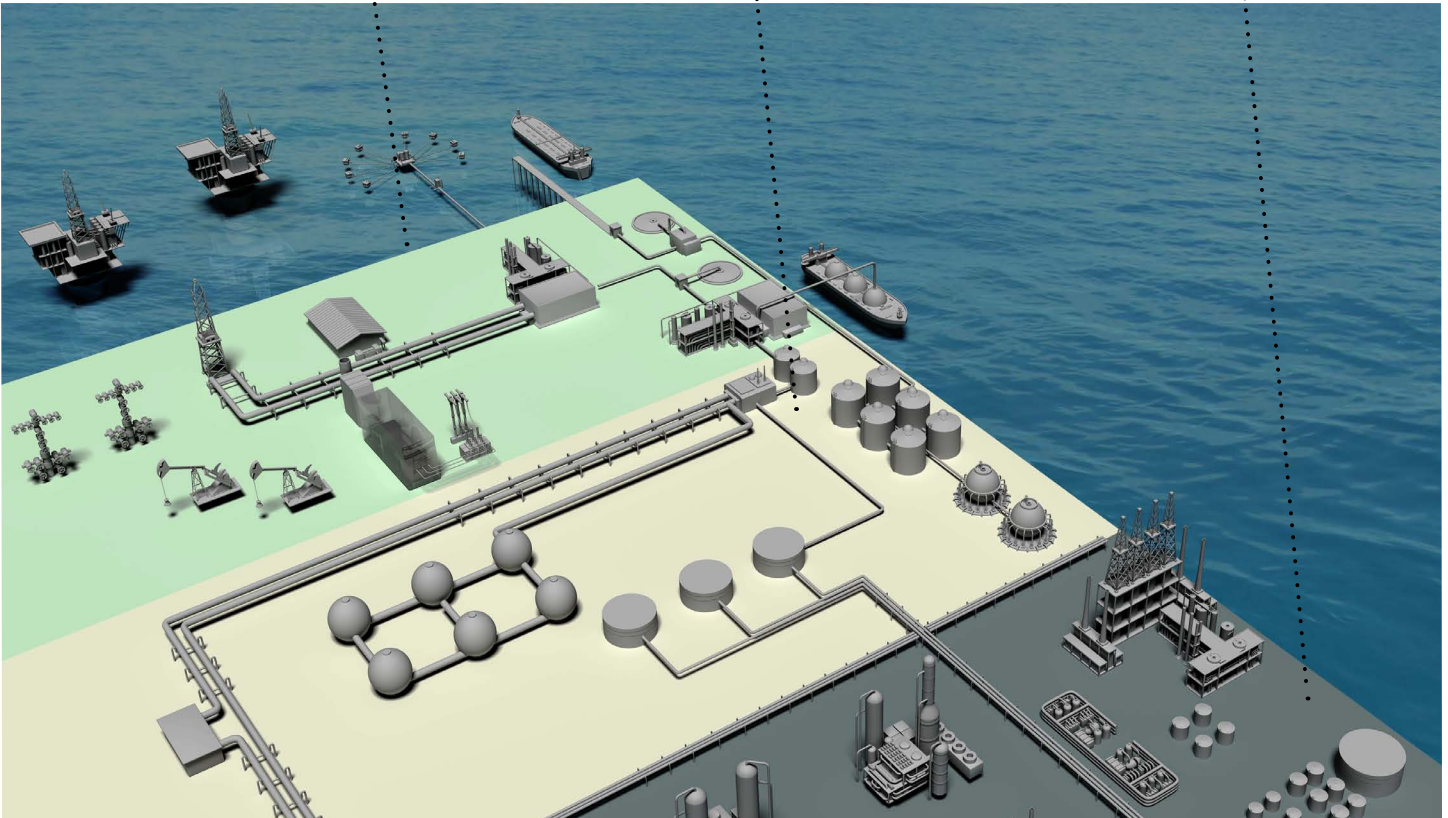
Pipeline, Pump Station, and Monitoring Communications Support:

- ABB Total Flow (EFM)
- Bristol/IP
- Daniel Modbus
- Dynamic Modbus
- Enron Modbus (EFM)
- Fisher ROC/ROC+ (EFM)
- Modbus RTU
- Modbus Ethernet
- Omni Flow Computers (EFM)
- EFM Exporter (Electronic Flow Measurement)
 - Flow-Cal
 - PGAS
 - CSV

DOWNSTREAM

Refinery and Distribution Communications Support:

- Allen-Bradley PLCs and Controllers
- GE Intelligent Platforms PLCs and PACs
- Honeywell Controllers and DCS
- Mitsubishi PLCs
- Modbus Devices
- Omron Controllers
- Siemens PLCs and Controllers
- SIXNET RTUs and Controllers
- Yokogawa Data Recorders and PLCs and many more...



Upstream: Improve project success backed by faster, better decisions

- A single source of integrated data – operational, production, geologic, and asset management
- Better visibility of onshore, offshore and field data. Easier data sharing with all project stakeholders

Midstream: Monitor environmental impact, oil and gas flow, and ensure proper reporting of custody transfer

- Greater visibility into pipeline performance data across multiple geographic areas
- Easier, faster data collection and consolidation for audits
- Automated data consolidation and distribution between gathering plants, pipelines and refineries

Downstream: Gain visibility and control to improve business decisions and operational excellence

- Real-time visibility into process data and information
- Alarm and event notification of potential safety or environmental hazards
- Tracking of production irregularities in real time
- Equipment health and network asset monitoring

Why Kepware?

Connecting disparate automation devices and systems is our only business and we excel at providing the right solution to meet the specific challenges of every industry we serve. The experience KEPServerEX brings for the oil and gas industry is backed by:



Proven interoperability

Be confident that all of your information systems can “talk” to each other with nothing lost in the translation. Automation and enterprise information systems can work together now and into the future through KEPServerEX’s ever-growing and up-to-date communications portfolio.



Centralized Communications

KEPServerEX consolidates data and information from various sources – refineries, pipelines, offshore drilling sites, and more – consistently and reliably in a single, centralized source for automation communications. As a result, you can reduce network traffic, device and system resource usage, and data inconsistencies.



On-Demand Scalability

KEPServerEX is designed to grow with your company’s evolving communication requirements without interrupting your established equipment. Its on-demand modular design makes it easy and efficient to scale your existing Kepware solution.



Industrial Strength

Since 1995, Kepware has pioneered high quality communication and interoperability software solutions for the most demanding industry requirements through our rigorous testing and certification from the OPC Foundation. The KEPServerEX server and driver communications are designed to be secure – that’s just one reason why many top HMI and SCADA companies re-brand and redistribute KEPServerEX.



For More Information:

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