

ThingWorx® Kepware® Edge

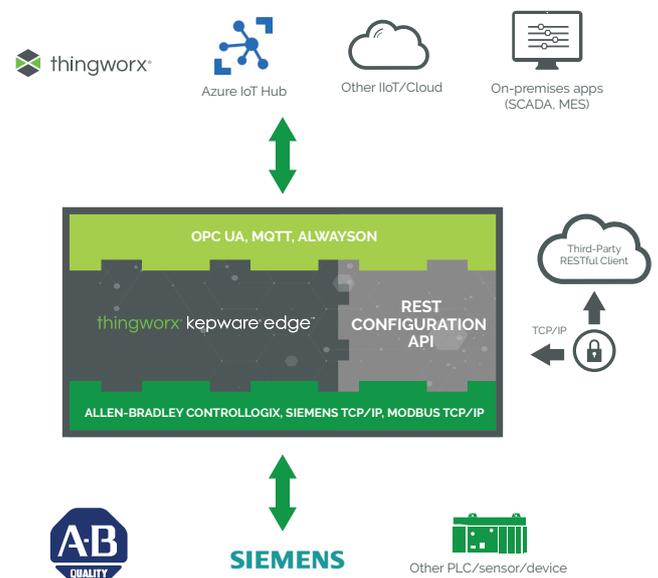
ThingWorx Kepware Edge allows the most valuable features of KEPServerEX to be deployed in Linux-based environments, enabling connectivity directly at the site of the machine, device, or sensor. The product utilizes secure, efficient, and IoT-ready protocols such as OPC UA or MQTT to connect to local, remote, and cloud-based applications or platforms. ThingWorx Kepware Edge offers flexible deployment of valuable Kepware functionality for improved connectivity to geographically distributed devices and machines.

Device Connectivity

- Any device using the ubiquitous Modbus Protocol, including controllers from Schneider Electric, B&R, ABB, and many others
- Siemens S7 devices such as the S7-300, 400, 1200, and 1500
- Allen-Bradley ControlLogix devices such as ControlLogix, CompactLogix, MicroLogix, and legacy PLC 5 and SLC 500 devices using gateway/ENI modules

Application Interfaces

- Traditional and next-generation industrial automation clients via OPC Unified Architecture (UA)
 - Supervisory Control and Data Acquisition (SCADA)
 - Manufacturing Execution Systems (MES)
 - Historians
 - Human-Machine Interfaces (HMI)
 - And many others
- Cloud, Industrial IoT, and big data platforms via MQTT
 - Azure IoT Hub
 - Amazon Web Services (AWS) IoT
 - Node-RED
 - And many others
- ThingWorx, the leading Industrial IoT platform
 - Native integration to quickly enable object-oriented modeling, analytics, visualization and augmented reality (AR)



Benefits

- **Reliability:** ThingWorx Kepware Edge features the same best-in-class reliability as KEPServerEX; users can expect stable and dependable connectivity
- **Scalability:** With support for popular Linux operating systems and tag-based pricing, users can cost-effectively deploy hundreds of instances to support an edge-based architecture
- **Connectivity:** With support for the most popular industrial protocols, machine builders and system integrators no longer need to create and maintain custom drivers to connect their machines

Contact Information

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Customer References

"Real-time data acquisition is the first step in any performance optimization project. Hulix is a long-time partner of PTC and Kepware and has relied on their best-in-class connectivity for many years. ThingWorx Kepware Edge will add significant value to our customers, especially machine builders. It will streamline connectivity to their assets and enable them to offer IoT-based products and services, all within a secure, maintainable, linux-based environment."

- President, Hulix

"Simplified edge connectivity and application management are often the most important stages of a successful and scalable IIoT initiative. The Automatech team is looking forward to the next-generation ThingWorx Kepware Edge platform to meet continually evolving IIoT requirements."

- Lead Solution Architect, Automatech

"In the past, we've struggled with connectivity to remote and mobile assets. We've had trouble identifying a reliable and secure connectivity solution that scales to many remote assets. ThingWorx Kepware Edge will enable us to implement a connectivity architecture that is perfectly suited to distributed assets, with the market-leading reliability that Kepware is known for."

- Engineer, MartinCSI

Support Program

Kepware's award-winning support combines software updates and upgrades with expert Technical Support services to help keep your critical automation projects performing at an optimum level. It also increases your personal operational efficiency by providing access to Kepware's industry-leading expertise.

Supported Operating Systems

- Ubuntu 18.04 LTS (x86-64)

License Server System Requirements

- CentOS version 7 or Red Hat Enterprise Linux version 7
- OpenJDK 11.0 or greater
- Minimum 4 GB of RAM
- Python 3

Product Features

Modbus Ethernet Driver

- All data types and arrays are supported
- Supports Advanced Statistics Tags enabling advanced troubleshooting

Allen-Bradley ControlLogix Ethernet Driver

- Enhanced performance and reduced device loads via optimized data access calls
- Supports Automatic Tag Database Generation through online Allen-Bradley Logix database or file-based .L5K and .L5X project files

Siemens TCP/IP Ethernet Driver

- Supports I, E, Q, A, M, F, T, C, and Z memory types, as well as Data Block Access
- Supports Automatic Tag Generation from TIA Portal for the S7-300, S7-400, S7-1200 and S7-1500 devices via the TIA Portal Exporter Utility

OPC UA Server

- Regularly tested against leading OPC client software at OPC Interoperability Workshops
- Enables secure communications via Transport Layer Security (TLS) for data encryption and certificate-based authentication

MQTT Client Interface

- Supports publish/subscribe with MQTT servers/brokers supporting MQTT Spec 3.1 and 3.1.1
- Offers advanced message formatting for client agents to support multiple data modeling requirements, including JSON, XML, CSV and custom models

ThingWorx Native Interface

- Seamlessly map tags to the ThingModel for a unified view of operations
- Remote project loading from ThingWorx, enabling centralized management

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