

# ThingWorx Industrial Connectivity

PROVIDING A SINGLE SOURCE OF INDUSTRIAL AUTOMATION DATA FOR IOT SOLUTIONS

ThingWorx Industrial Connectivity connects disparate automation devices to the ThingWorx Industrial Innovation Platform, making it easy for enterprises to quickly derive the benefits of the Internet of Things.

ThingWorx Industrial Connectivity powered by Kepware is the industry's leading connectivity platform, providing a single source of industrial automation data to ThingWorx and other applications. Its platform design enables users to connect, manage, monitor, and control diverse automation devices and software applications through one intuitive user interface.

ThingWorx Industrial Connectivity leverages OPC and IT-centric communication protocols to provide secure data access to industrial assets. Its library of 150+ device drivers, client drivers, and advanced plug-ins enables access to thousands of devices and other data sources, providing visibility across the enterprise for improved decision-making from the shop floor to the top floor.

## Meet ThingWorx Industrial Connectivity

ThingWorx Industrial Connectivity delivers the global connectivity, usability, and performance required by enterprises to successfully implement industrial IoT solutions:

- Visualizations, analytics, and augmented reality experiences using plant floor data made possible within minutes via ThingWorx integration
- IoT-ready, with interfaces to on-premise web servers and off-premise cloud applications for real-time insight into industrial operations
- Compatible with leading hypervisors like VMware and Hyper-V for deployment on public and private clouds
- Enhanced messaging security via SSL and TLS for secure, authenticated, and encrypted communications across various network topologies to meet site security requirements
- Multiple redundancy options ensure resiliency, high reliability, and uptime in critical applications



- Sophisticated access control to the server, data source, and data values to easily regulate user privileges
- Scalable unified architecture provides flexibility to combine drivers and consume multiple protocols in a single server
- Streamlined interface for simple installation, configuration, maintenance, and troubleshooting

## 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
- One-click mapping from industrial tags to properties on the ThingWorx platform
- Ability to push full projects from ThingWorx to a remote industrial connectivity server
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- Configuration API for third-party server management
- Simulation options for testing prior to deployment
- Data conditioning and reduction, minimizing bandwidth and resource utilization
- Load-balancing for throttling demand across the network
- Machine-to-Machine (M2M) linking between homogeneous and heterogeneous systems
- Streamlined UI that enables users to manage device connectivity with minimal effort

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