

# ThingWorx Industrial Connectivity

PROVIDING A SINGLE SOURCE FOR ALL INDUSTRIAL AUTOMATION DATA IN IOT SOLUTIONS

## ThingWorx Industrial Connectivity connects disparate automation devices and software applications, enabling them to derive the benefits of the Industrial Internet of Things.

ThingWorx Industrial Connectivity powered by Kepware is the industry's leading connectivity platform, providing a single source of industrial automation data across 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 a single source of industrial automation data to enterprise applications. With a library of 150+ device drivers, client drivers, and advanced plug-ins, ThingWorx Industrial Connectivity enables connectivity 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.

### Key Benefits

ThingWorx Industrial Connectivity 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 like 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
- 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



## 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

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