

ThingWorx Platform

BUILD SMART, CONNECTED SOLUTIONS THAT QUICKLY TRANSFORM BUSINESS

The Industrial Internet of Things has created new, unique opportunities for industrial enterprises to take their businesses to a new level. The ThingWorx platform is the fastest way to unlock the value of the physical-digital convergence of the IoT.

Purpose-built for industrial environments, the ThingWorx industrial innovation platform empowers organizations to transform how they operate and compete in the smart, connected world by rapidly implementing innovative industrial IoT solutions.

The Ideal Platform to Drive Innovation

A complete, end-to-end technology platform, ThingWorx delivers the functionality, flexibility and agility needed to develop, deploy and extend IoT applications and AR experiences.

The ThingWorx platform contains a broad set of features, including multiple connectivity options, application development tools, analytics, and AR – all built around the ThingModel, a single, real-time view of a physical object. With ThingWorx, industrial businesses can create scalable and secure solutions that provide high levels of return on investment.

Purpose-built Platform

- ThingWorx platform includes specific functionality designed for industrial IoT, including the connectivity, scalability and security to grow with the business

Rapid Development, Deployment, and Extensibility

- Integrated platform features and functions enable seamless development for quick, easy delivery of apps without writing code
- Industrial AR experiences are created and viewed using real-time connected asset and system data via Vuforia integration

Agility and Flexibility

- Deployment options include cloud, on premise, or hybrid, with optimizations for Microsoft Azure
- ThingWorx connects data from anywhere and delivers applications to anyone on nearly any device

Wrap and Extend Existing Technology

- Broad set of capabilities work together to wrap and extend existing technology investments, including applications, enterprise systems, and cloud technologies
- Companies keep their existing standards while taking advantage of the power and capabilities of ThingWorx

Expansive Ecosystem

- As part of PTC, a leading innovator in industrial software solutions, ThingWorx is compatible with a wide range of products and services that simplify, accelerate and enhance manufacturers' processes and strategies

ThingWorx Foundation

ThingWorx Foundation is the heart of the ThingWorx platform, offering the industry's deepest functional capabilities to connect, build, and deploy IoT solutions faster and more easily than ever. Based on model-driven, rapid application design functionality, it eliminates the need for manual coding and provides flexible connectivity options that minimize integration work.

ThingWorx Analytics

ThingWorx Analytics delivers powerful, automated analytics capabilities – including real-time pattern and anomaly detection, automated predictive analytics, and contextualized recommendations. Utilizing simple user-friendly interfaces, visualizations, and easy-to-use tools, it eliminates the need for developer or user expertise in data modeling, complex mathematics, or machine learning.

ThingWorx Industrial Connectivity

ThingWorx Industrial Connectivity powered by Kepware delivers the most complete solution available today for connecting industrial devices and systems. It enables users to connect, manage, monitor, and control diverse automation devices and software applications through one intuitive user interface.

ThingModel

ThingModel is the key to the ThingWorx platform. It provides a consistent representation of “things” to seamlessly tie all components of the ThingWorx platform into one. This increases development velocity and delivers solutions that are easier to scale and maintain.

Vuforia Studio

Vuforia Studio simplifies the creation of AR experiences for the industrial enterprise. It is a highly efficient and easy-to-use authoring tool for creating use-case specific experiences. It enables a composite view of digital and physical product data, dashboards, and alerts presented in 2D, 3D, and AR and accessible via desktop, mobile devices, and wearables.

What's New in ThingWorx 8.4

ThingWorx 8.4 delivers new native features and functionality designed to simplify and enhance the development and implementation of industrial IoT applications including:

ThingWorx Flow

- Built-in integration and orchestration capabilities allow users to easily connect systems and devices with minimal time and effort
- Drag-and-drop visual canvas enables simple creation of data flows that automate business processes

Improved Developer Usability and Productivity

- Advanced responsive layout and new widgets in Mashup Builder create more contemporary-looking applications
- New configuration and editing capabilities improve efficiency
- Seven new languages expand global audience support

New Connectivity Options

- Connectivity to industrial molding machines is the first out-of-the-box, vendor agnostic connectivity product for the IMM market
- Access to hundreds of parameters on CNC machines

Simplified Analytics Processes

- New transforms expedite data transformations and simplify rule calculations for advanced analytics and monitoring without writing code
- Faster, easier creation of data sets with automated meta-data inspection

Integration with FactoryTalk Analytics DataFlowML from Rockwell Automation

- Integration facilitates the creation of automated data pipelines that consistently prepare data for machine learning and analytics insights
- New processors in DataFlowML enable access to ThingWorx for orchestration of predictive scoring and dataset creation