

ThingWorx Platform

BUILD SMART, CONNECTED SOLUTIONS THAT QUICKLY TRANSFORM BUSINESS

The Internet of Things has created new, unique opportunities for industrial enterprises to take their businesses to a new level. The ThingWorx Industrial Innovation 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 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.

ThingWorx delivers:

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 and AR experiences

Ultimate Flexibility

- Deployment options include cloud, on premise, or hybrid, with optimizations for Microsoft Azure
- Integration with external data sources simplifies processes and ensures more meaningful results

Engaging Experience

- User interfaces are created using drag-and-drop tools then deployed in AR experiences via web and mobile applications – without the need to write code
- Integrated AR authoring facilitates the convergence of the digital and physical worlds through creation of powerful, immersive experiences for web, mobile and wearables

Vibrant 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, create, 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 Studio

ThingWorx 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 - without the need to write code.

ThingWorx Industrial Connectivity

ThingWorx Industrial Connectivity powered by Kepware delivers the most complete solution available today for industrial device interoperability. 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 (Foundation, Analytics, Studio, Industrial Connectivity) into one. This increases development velocity and delivers solutions that are easier to scale and maintain.

What's New in ThingWorx 8.3

ThingWorx 8.3 delivers new native features and functionality designed to simplify and enhance the development of industrial IoT applications and AR experiences, including:

Enhanced Developer and User Experiences

- Composer is now the default user interface for the entire ThingWorx platform, simplifying processes to improve productivity and efficiency
- Built-in Software Content Management enables custom connectivity applications for easier, more efficient push of content updates or upgrades to connected products

Simplified, Automated Execution of Complex Analytics Processes

- Standard libraries of statistical calculation services reduce coding requirements, enabling developers to more easily perform common data transformations for deeper data understanding and data preparation for advanced analytics
- Standard libraries of statistical monitoring services reduce coding requirements, simplifying the implementation of statistical process control rules for monitoring of assets or processes
- Automated time series transformations make it faster and easier to deploy predictive models
- Predictive models are improved with features that automate data preparation to eliminate feature redundancy and transform data to predict two or more time periods in the future

Increased Value of Augmented Reality Across the Enterprise

- 2D experiences designed for assisted reality eyewear improve user efficiency by presenting reference materials when and where needed
- Spatial tracking support for Microsoft HoloLens provides the ability to do “table-top” augmented reality on an even greater number of devices
- Japanese, German and French localization offers support for a larger global audience