thingworx®

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 platform is the fastest way to unlock the value of the physical-digital convergence of the IoT.
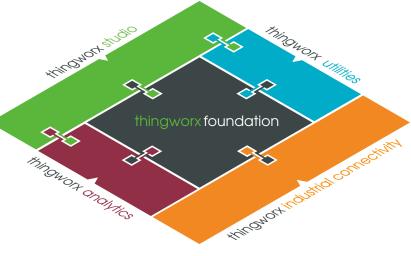
The ThingWorx platform is a complete, end-to-end technology platform that enables industrial businesses to unlock the value of the Internet of Things (IoT). It delivers tools and technologies needed to rapidly develop and deploy powerful applications and augmented reality (AR) experiences.

The Ideal Platform to Drive Innovation

The ThingWorx platform includes compatible modules that deliver the functionality, flexibility, and agility enterprises need to implement IoT apps and AR experiences. This includes industrial connectivity, analytics, application enablement, orchestration and AR authoring.

ThingWorx delivers:

- Purpose-built Platform: The platform contains specific functionality designed with the scalability and security to grow as the business expands.

- Rapid Development, Deployment, and Extensibility: Platform modules come together via the ThingModel– the true digital representation of a physical object – enabling apps and experiences to be delivered quickly and easily

- Ultimate Flexibility: Platform can be deployed in the cloud, on premise, or a hybrid of the two. Apps and experiences are made available to users in multiple formats – desktop, web, mobile, and AR. Integration with external data sources simplifies processes and ensures more meaningful results

- Vibrant Ecosystem: ThingWorx partner ecosystem offers one of the world's largest networks of IoT-focused companies, and ThingWorx partners offer a wide range of products and services that simplify, accelerate, or enhance processes and strategies for industrial IoT

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 Utilities

ThingWorx Utilities provide device management capabilities to enable business users and developers to define, monitor, manage and optimize the performance of connected products. They are specifically designed to quickly develop, deploy, and deliver enterprise-ready IoT solutions.

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, Utilities, 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 8.1

ThingWorx 8.1 delivers new native features and functionality designed to simplify and enhance the development of industrial IoT applications and AR experiences, including:

Open Platform Connectors
Azure IoT Connector 2.0 and GE Predix Connector enable data to be easily synchronized and contextualized in ThingWorx to enhance the development of IoT applications and AR experiences

Automated Predictive Modeling and Scoring
Learns from historical data and uses AI technology to automatically build, validate, and score predictive models, create outcome-based predictions, and generate recommendations for optimizing performance

Advanced Tracking Capabilities
Spatial/SLAM tracking supports the creation of AR experiences for any object by enabling tracking using the surrounding environment - without requiring it to have a ThingMark

Microsoft HoloLens Experience Authoring
Out-of-the-box, fast, easy creation of HoloLens experiences, enabling rapid AR creation and the deployment of production-ready AR for commercial applications at scale

Remote Project Load
Enables users to push full projects from ThingWorx to a remote ThingWorx Industrial Connectivity server, establishing central management of a variety of projects and assets via the ThingWorx platform

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