

ThingWorx Platform

BUILD SMART, CONNECTED PRODUCTS, OPERATIONS, AND SOFTWARE 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 designed for the industrial Internet of Things (IIoT). It delivers tools and technologies that empower businesses to rapidly develop and deploy powerful applications and augmented reality (AR) experiences. Using the ThingWorx platform, enterprises are building:

Smart, Connected Products

Build or enhance products, assets, and services that will drive new business and increase revenue

Smart, Connected Operations

Create solutions to discover and implement new operational efficiencies and reduce risk in processes

Smart, Connected Software

Develop a common platform to quickly bring industrial IoT software and services to market

The Ideal Industrial IIoT Platform

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

ThingWorx delivers:

- Purpose-built Platform for Industrial IIoT: The platform contains specific functionality designed with the scalability and security to grow as the business expands.
- Rapid Development, Deployment, and Extension: Integral platform modules come together via the Thing Model – 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 augmented reality. 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 IIoT-focused companies, and ThingWorx partners offer a wide range of products and services that simplify, accelerate, or enhance processes and strategies for industrial IIoT



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 IoT solutions – 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 democratizes 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 powered by Kepware

ThingWorx Industrial Connectivity is powered by KEPServerEX®, which leverages OPC and IT-centric communication protocols to provide a single source of industrial automation data to all applications. It enables users to connect, manage, monitor, and control diverse automation devices and software applications through one intuitive user interface.

Thing Model

Thing Model 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, KEPServerEX) into one. This increases development velocity and delivers solutions that are easier to scale and maintain.

What's New in ThingWorx 8

ThingWorx 8 delivers new native features and functionality designed to simplify and enhance the development of industrial IoT applications and AR experiences, including:

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

Anomaly Detection

Improves machine monitoring by learning normal behavior patterns, continuously monitors data streams, then automatically raises the alerts when abnormal conditions arise

Industrial Connectivity

Easily connects thousands of devices and data sources using more than 150 device drivers, enabling all industrial data to be easily browsed, searched, and utilized

Deeper Cloud Technology Support

Natively connects to existing IT sources to deliver scalable, secure, fully-functional integration, regardless of connection technology or provider

© 2017, PTC Inc. (PTC). All rights reserved. Information described herein is furnished for informational use only, is subject to change without notice, and should not be taken as a guarantee, commitment, or offer by PTC. PTC, the PTC logo, and all PTC product names and logos are trademarks or registered trademarks of PTC and/or its subsidiaries in the United States and other countries. All other product or company names are property of their respective owners. The timing of any product release, including any features or functionality, is subject to change at PTC's discretion.

J8708-ThingWorxBrief-EN-0617