

MANAGE

Manage and Orchestrate Smart, Connected Assets

```
2015-07-01 10:00:00 [INFO] System startup complete.
2015-07-01 10:00:05 [INFO] Database connection established.
2015-07-01 10:00:10 [INFO] Loading configuration from /etc/thingworx.conf.
2015-07-01 10:00:15 [INFO] Initializing services.
2015-07-01 10:00:20 [INFO] Service initialization complete.
2015-07-01 10:00:25 [INFO] Ready to accept connections.
```

67.0.42
AS EX

```
10 BASE = 32768 + 32
20 HEAD BYTE
30 IF BYTE = -1 THEN BASE = B
40 SOME BASE, BYTE
50 BASE = BASE + 1
60 SOME 20
80 IF BASE = (50 + 32768) THEN SYS(32768 +
DATA 120
90 DATA 145, 128
100 DATA 141, 01, 3
110 DATA 105, 45
120 DATA 147, 20, 3
130 DATA 80
140 DATA 56
150 DATA 218, 32, 208
160 DATA 20, 204
180 DATA 2
```

02 | 89.214
21.411

X34



Effective administration of applications, devices, systems, and processes is essential to the ongoing success of an industrial IoT (IIoT) implementation. Users across business functions—and with varying degrees of technological expertise—must be able to manage day-to-day IIoT operations with ease.

Usability, process efficiency, automation, and collaboration make it possible for users in any role to simplify the cumbersome tasks associated with managing connected assets and operations. An IIoT platform that is robust in infrastructure and interoperability, and provides user-friendly features like dashboards, drag-and-drop tools, and out-of-the-box (OOTB) connectors, will satisfy interests of both IT and operations.

ThingWorx OOTB functions and applications ensure optimal performance of assets and organizations. These capabilities empower organizations to provide substantial value in the form of increased uptime, reduced costs, role-based visibility and control, and improved compliance.

ThingWorx Makes It Possible to:

- Manage deployments of any size and scale from a single location
- Accelerate the time to value by enabling simple administration of end-to-end industrial IoT use cases in any environment
- Reduce the time and skill required to implement and integrate ThingWorx solutions into existing environments and processes
- Provide enterprise-wide visibility of applications and systems to foster maximum productivity across functions



MODEL 0042.A
ACTIVE FUNCTION AUTO
DELAY INTERNAL 12104 MHz



37.02

+148.36 ASSEMBLY COMPLETE



ThingWorx Flow



Users easily create and manage flows of information among enterprise systems in a visual, codeless environment to automate business processes and accelerate time to value.

Simplify Connectivity

System-specific and standards-based connectors dramatically reduce the time and effort required to establish connections among enterprise systems and devices, enabling execution of application capabilities in the context of flows. OOTB connectors include Microsoft Azure, Google, SAP, Salesforce, Windchill, Box, and more.

Implement End-to-End IoT Use Cases

Data flows create a progression of information through integrated enterprise systems, triggering actions in each system to achieve a specified result or determine the next step. Consider a flow that begins with an alert from a connected machine which is determined by ThingWorx to be serious. The flow continues by using the CRM to schedule service and then to the messaging client which sends out an urgent notification.



ThingWorx Solution Central

A centralized portal in the cloud that allows system administrators to efficiently discover, deploy, and manage ThingWorx applications across the enterprise, from a single location.

Accelerate Solution Deployment

ThingWorx Solution Central automatically identifies dependencies for locally-created ThingWorx applications and packages them for rapid deployment to any ThingWorx instance, fostering maximum productivity.

Enable Efficient DevOps

Deployments of any size and scale are managed with speed and repeatability—large-scale deployments utilize automation-ready APIs to publish to multiple environments, while deployments to a single environment are executed using a simple, intuitive user interface.

ThingWorx Software Content Management

Ensures a secure, reliable interface to remote assets to reduce the complexity associated with the mass distribution of software.

Ensure Secure, Reliable Distributions

Software package creation and deployment via ThingWorx Edge or Microsoft® Azure® IoT Edge offloads error-prone processes from customers and simplifies content scheduling, testing, and monitoring.

Optimize the Remote Service Experience

Package and deployment dashboard enables remote software patches and tracks and records distribution status with full audit trail to ensure the most current version is available across the entire fleet. This is essential as global workforces grow even more remote as industries adapt operations and procedures for the COVID-19 era.

ThingWorx Developer Portal

The Developer Portal offers users the ability to explore, experience, connect, learn, and get started using ThingWorx through:

Learning Assets: Guides, learning paths, tutorials, and webinars on how to develop and build industrial IoT applications

Products Trials: Build your own POC, explore the capabilities and features of the platform, and realize ThingWorx is the right fit for your team or use case

Developer Tools: Full access to SDKs, APIs, product documentation, and more

PTC Cloud

ThingWorx is now available as a managed service from PTC Cloud, hosted on Microsoft Azure—a turnkey, integrated, secure solution that minimizes risk, reduces IT burden, and maximizes value from investment.

Accelerated IoT Deployment: ThingWorx ready-to-use on single dedicated environments deployed on Azure

Managed Service: PTC ensures system availability, maintains software updates, enables scalability, and provides 24/7 monitoring

Enhanced Performance: Plan, run, optimize along the full-service stack to enhance the application development lifecycle

PTC Marketplace

The PTC Marketplace provides a one-stop shop for hundreds of resources to build, customize, and run ThingWorx-based IoT solutions. It features a wide selection of tools, extensions, apps, and solutions from ThingWorx and its partners that have all been tested and guaranteed to work seamlessly with the ThingWorx industrial innovation platform.