thingworx® **+** IoT ONE

Complex Discrete Manufacturing with ThingWorx Analytics

IoT Data Management

SERVICES

Applications

System Integration

APIs

HARDWARE

thingworx®

Data Analytics

SOFTWARE

Data Visualization

Cloud
& Fog Platforms
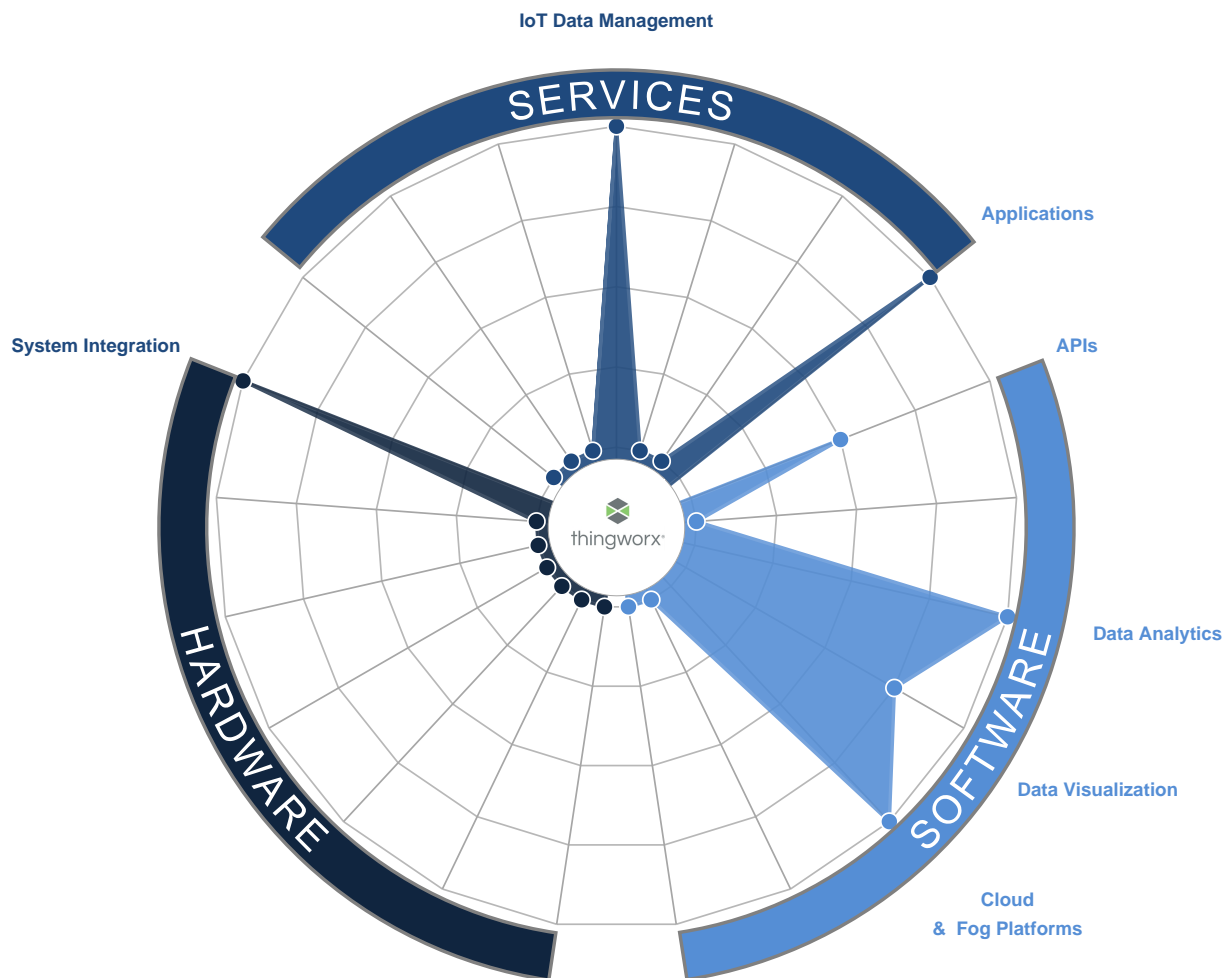
Overview

Applicable Industries	Equipment & Machinery

Applicable Functions	Information Technology
	Production - Manufacturing

Challenge

ABC faced two major issues when utilizing the data collected. One is the size, complexity, and disparity of the data collected would take lot of man-hour to process and evaluate. Two is real-time data cannot be put into use due to the nature of data science analysis.

Customer

ABC Manufacturing operates 27 global manufacturing facilities, strategically located throughout the world, to provide direct support and services in close proximity to our international customers.

Solution

ThingWorx Analytics is a learning technology that automates advanced and predictive analytics. The technology uses proprietary artificial intelligence and machine learning technology to automatically learn from data, discover patterns, build validated predictive models, and send information to virtually any type of application or technology. To get a free demo of ThingWorx 8: http://solutions.iotone.com/thingworx

Data Collected

Data for processing, production, facilities health

Solution Type

IOT

Solution Maturity

Cutting Edge (technology has been on the market for < 2 years)

Operational Impact

✚	Impact #1	Data Aggregation - Cloud solutions enable aggregation of 'big data' to automatically detect patterns, anomalies, and flag machines for maintenance before downtime, manufacturing errors, or yield faults occurred.
✚	Impact #2	Remote Device Diagnostics - Real-time status reports enable maintenance personnel to remotely diagnose the status of a device.
✚	Impact #3	Data Analytics - Data mining, prognostics, diagnostics, and embedded intelligence are used to make ABB's production line smarter so that they can meet their customer's needs.

Quantitative Benefit

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�__	Benefit #1	ThingWorx Analytics was able to quickly analyze billions of points of information to determine that a particular failure pattern occurred when product line 2 was running operation 4467ANX when the ambient temperature was between 77 degree celsius and 79 degree celsius.

Technology

Software
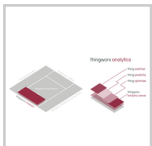
Thingworx Analytics

ThingWorx (PTC)

ThingWorx Analytics enables enterprises to find the true value in their IoT data – to learn from past data, understand and predict the future, and make decisions that will enhance outcomes.

Watch ...
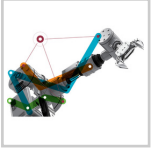
Thingworx 8

ThingWorx (PTC)

ThingWorx 8 makes it easier and faster to:
- Connect with industrial machines and source data
- Source data from IoT cloud providers
- Analyze data to learn normal behavior and receive alerts regar ...

IoT ONE Featured Case Study

Accelerating the Industrial Internet of Things

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