

Create the Internet of Your Things

Customer Article



Overview

Country or Region: United States

Industry: Manufacturing

Customer Profile

Rockwell Automation, based in Milwaukee, Wisconsin, provides industrial automation and information solutions to customers in more than 80 countries.

Business Solution

Rockwell Automation wanted to strengthen its competitive advantage and open new business opportunities in the oil and gas industry by automating the collection and analysis of data from remote installations across the petroleum supply chain.

Solution

Rockwell Automation created a solution to monitor expensive capital assets and use that data to improve efficiency, drive better performance and enable innovation. Based on Microsoft Azure Internet of Things services, the solution collects, integrates, and organizes sensor data from remote equipment across global supply chains to support real-time insight, predictive analytics, and preventive maintenance.

Solution Spotlight

- Improves access to production and supply chain data worldwide, reducing costly downtime and maintenance, and increasing productivity
- Accelerates and supports business growth with a highly scalable cloud platform
- Spurs innovation and builds a competitive advantage with easier development and faster time-to-market with new features

Rockwell Automation update: Moving from insight to action with Azure IoT services

By Jeff Wettlaufer, Senior Technical Product Marketing Manager, Microsoft IoT

I was honored recently to be on stage at [Convergence](#) in Atlanta, joining Microsoft CEO Satya Nadella to share a demonstration of how Rockwell Automation is implementing the Internet of Things (IoT), including the use of [Azure-powered](#) data insights with a line-of-business application and a [Power BI](#) dashboard of critical, centrally managed assets.

[We first told the Rockwell Automation story](#) a few months ago. Back then, we shared their end-to-end approach that is transforming the operations of its customers in the petroleum industry — as well as the entire oil and gas supply chain. From the ocean floor to the gas pump on the corner, Rockwell Automation is using IoT to light up traditional pump, transport and metering equipment with cloud-connected sensors, and harness data that provides new forms of insight and value even they didn't expect at the time.

Now, the journey continues, and it's not just about hydrocarbons. As we shared at Convergence, Rockwell Automation is using a range of Microsoft technologies, including [Azure IoT services](#), to facilitate a broader [data strategy](#) that is bringing actionable, predictive information to its customers across industry segments:

- [Azure HDInsight](#) to manage and analyze massive amounts of data on Hadoop;
- [Azure Machine Learning](#) to build planning and maintenance capabilities that move data insights into the realm of predictive analytics;
- [Azure Data Factory](#) to manage complex interactions across multiple systems;

- [Azure SQL Database features](#), such as varied service tiers depending on customer needs, and geo-redundant, point-in-time restore capabilities for critical workloads.

With this real-time view of the operation of machinery in far-flung and isolated regions, Rockwell Automation is making it possible for businesses to remotely monitor assets across the supply chain, from extraction to logistics, refinement to retail — and even predict potential problems and costly failures **before** they happen.

Check out the [video](#) for more, and stay tuned for updates as [Rockwell Automation and Microsoft](#) continue to find new opportunities to transform industrial automation.

For More Information

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Read more on the [Rockwell Automation oil and gas solutions page](#), and learn about [Azure IoT technologies for manufacturing](#).

Create the Internet of Your Things

The Internet of Things is not a futuristic technology; it's here today. When your enterprise puts together devices, software, cloud services and business intelligence tools from Microsoft, you create the Internet of Your Things. As a trusted technology leader, Microsoft can help you drive business value from new and existing technology assets, devices, and data to create one truly flexible, intelligent system. When you connect your people and your infrastructure, you can change the trajectory of your business in real time.

For more information, visit:

www.InternetofYourThings.com