Industrial IoT and Amazon Web Services

Industrial IoT brings machines, cloud computing, analytics, and people together to improve productivity and efficiency.

- With AWS IoT, industrial companies can understand the state of everything, so you can reason on top of that data and you can truly solve your business problems.
- AWS IoT enables you to easily and securely connect and manage millions of devices. You can gather data from, run sophisticated analytics on, and take actions in real-time on your diverse fleet of IoT devices from edge to the cloud.

Amazon Web Services can transform your business and help your organization rise to its digital future.

Learn more

Digital Challenges Facing Industrial Businesses

- Operational and Cloud Technology Integration
- Business Flexibility during Transition to the Cloud
- Integration of Disparate Sources
- IoT Expected to See Explosive Growth in the Industrial Market

Opportunities with Industrial IoT

- Remote Monitoring
- Real-Time Prediction and Action
- Secure Onboarding of Device Fleets
- Scalability of Business Operations with Thousands More Devices
- Advanced Automation
- IT and OT Convergence

AWS IoT Services Suite

- Secure device connectivity and messaging
- Fleet onboarding, management and SW updates
- Fleet audit and protection
- IoT data analytics and intelligence
- Secure local triggers, actions, and data sync

AWS IoT in Action: Popular Use Cases

- Predictive Quality: Quickly identify product quality issues related to factory output rather than equipment performance.
- Predictive Maintenance: Understand current equipment health and predict failure before operations are impacted.
- Asset Condition Monitoring: Monitor and scale industrial equipment and understand asset condition for one or more monitored parameters.
- Amazon WorkSpaces: Secure, cost-effective, and scalable virtual desktop infrastructure.

Sources:
- Gartner, "Leading the IoT," 2017
- Boston Consulting Group, "Winning in IoT: It’s All About the Business Processes," Jan. 5, 2017
- Bain, "Choosing the Right Platform for the Industrial IoT," Sep. 28, 2017
- Gartner, Press Release, Feb. 7, 2017

IoT Expected to See Explosive Growth in the Industrial Market

- 30% of new IoT products by 2020 (expected)
- $267B market by 2020 (expected)
- $662B in forecasting for 2020 (expected)
- 30% of enterprises using IoT products today
- +65% of enterprises using IoT products by 2020 (expected)
- $267B market by 2020 (expected)
- $662B in forecasting for 2021 (expected)
- 50% of discrete manufacturing, transportation and logistics, and utilities
- $110B: Industrial market
- $85B: Industrial sector
- $300B/year market by 2021 (expected)

AWS is helping industrial customers improve operations with three popular use cases.

- "With AWS, we got our product to market in six months instead of once a year, and we can now confidently release new code up to ten times a week instead of once each quarter."
  – Juhana Enqvist, Chief Digital Officer, Kemppi
  
- "With our AWS IoT–enabled Fuelsuite solution, customers manage their petrol stations proactively rather than reactively… to dramatically improve efficiencies and detect fuel leaks early to minimize environmental impacts."
  – Russell Dupuy, Founder and Managing Director, EMS
  
- "Working with AWS has changed our business. It shines a light on new technology and ways of working."
  – Richard Freedman, Managing Director, Centratech Systems
  
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