Hewlett Packard Enterprise

HPE Edgeline

IoT Quick Connect

Optimizing operations and industrial performance

Jason Nassar, IoT Senior Product Manager

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HPE Edgeline IoT Quick Connect
Optimizing operations and industrial performance
Agenda

1. Market opportunity
2. Linking your production line to the cloud
3. HPE Edgeline IoT Quick Connect and Microsoft Azure: An end-to-end solution
4. The power of Azure IoT Hub
5. Applications and next steps
Opportunities are ripe to gain production efficiencies

9 years
Average age of industrial machinery in the U.S.
(Average age of U.S. factories: 25 years)

90%
Increase in defect detection rates with the aid of machine learning

>50%
Cost reductions possible by more accurately detecting performance degradation

“10 Ways Machine Learning is Revolutionizing Manufacturing in 2018,” Forbes, 2018
Challenges to integrating operational technology (OT) with information technology (IT)

- **Access to meaningful data from legacy equipment**
  - Customers struggle to seamlessly connect and integrate legacy data with that from modern equipment and perform digital analysis cohesively from edge to cloud.

- **Siloed data and equipment management**
  - Accessing, understanding, and updating equipment software configurations often requires dedicated personnel, and a slow, in-person, one-at-a-time methodology posing potential safety risks.

- **Integration expertise and speed to data**
  - Most manufacturers lack the in-house expertise to integrate and orchestrate industrial equipment and IT applications. They are better suited to focus on applying insights—not troubleshooting systems.
Edgeline IoT Quick Connect links your production line to the cloud

- Extract useful data
- Gain meaningful insights
- Optimize operations
Connect, collect, analyze, and utilize untapped data from the edge

Edgeline EL300 and OT Link-certified hardware acquire data from industrial devices through sensors or standard protocols.

Edgeline OT Link software normalizes information from various platforms and pulls it into one cohesive system.

Converge OT and IT to act on data at the edge—and transfer it to the Microsoft Azure cloud for authentication and storage.

Analyze data and visualize insights in real-time through mobile or online dashboards.

Use the HPE Edgeline IoT Quick Connect Guide to connect industrial devices quickly and easily, step-by-step. No programming required.
Connect data from new or legacy devices
Easily extract real-time equipment data from existing machines through sensors or standard industry protocols.

Collect and correlate data from many sources
 Seamlessly correlate and integrate data from legacy machines with data from modern equipment.

Adopt a flexible solution, fast
Link your production line to the cloud with simple, out-of-the-box hardware and intuitive software.

Quickly connect industrial devices and unlock valuable operational information
Powered by Azure
Experience the simplicity of IoT services in the cloud

Realize ROI faster
Reduce costs, increase efficiencies
Adopt a proven, flexible solution to reduce risk
Best-in-class security and enterprise-grade services
Bring operational intelligence to life
Correlating end-to-end data to improve quality

Manufacturers’ ability to quickly detect and address defects cost-effectively can make or break their business. For example, diaper manufacturers have a low tolerance for product variance, since user experience swiftly and directly impacts brand preferences. Plugging a hardware and software solution into their production line can provide the intelligence these manufacturers need to ensure that in the end, every diaper fits the same.

Collect previously siloed data
Connect legacy equipment and gather intelligence quickly with out-of-the-box hardware and intuitive software.

Perform analysis to find anomalies
Data proves that cutting blades create inconsistencies when they aren’t replaced frequently. It also reveals that blades dull more quickly depending on fabric variances.

Implement process improvements
Correlating data in the cloud enables a predictive maintenance strategy—so blades are replaced as-needed in response to fabric quality.

Minimize defects and improve quality
This cohesive solution enables the manufacturer to act quickly on useful insights—optimizing operations with the aid of real-time data.
Edgeline IoT Quick Connect and Azure IoT Hub
Connect, collect, analyze, and utilize untapped data from the edge

- Edge connectivity
- Data integration
- OT-IT convergence
- Powerful cloud
- Meaningful insights
Next steps

→ Find out how you can adopt HPE Edgeline IoT Quick Connect: edgelinequickconnect@hpe.com

→ Learn more about HPE Edgeline at hpe.com/info/edgeline

→ Learn more about Azure at azure.microsoft.com
Reference architecture
To come