

ANALYTICS-DRIVEN OPERATIONS WITH SPLUNK® FOR INDUSTRIAL IOT

A Pragmatic Way to Manage Industrial Operations

From data silos to demanding production requirements, operations teams must tame an assortment of complex issues while simultaneously trying to improve product quality and increase revenue.

Splunk for Industrial IoT gives operational technology (OT) teams a packaged set of capabilities to break-down silos and gain real-time visibility on industrial data, secure industrial control systems and use machine learning for predictive analytics. Operational intelligence driven by simplified data ingestion, real-time monitoring and troubleshooting enables industrial companies a single place to store, analyze and secure all industrial systems and data.

Splunk for Industrial IoT includes:

- **Splunk Industrial Asset Intelligence** for real-time asset monitoring
- Search and reporting for interactive dashboards and advanced analytics
- Industrial data integrations including OPC and MQTT
- Splunk Machine Learning Toolkit, the easiest way to apply machine learning to real-time production environments



Monitoring & Diagnostics



Troubleshooting



OT Security



Predictive Maintenance

Splunk Industrial Asset Intelligence

Search and Reporting

Machine Learning Toolkit

“For us, transparency of information is important. We now have real-time data with context to make decisions quickly and accurately, and we are providing the same information to people across the business, so that they can make decisions, too.”

Erika Swartz, Process Engineer, Fibers Division
Shaw Industries Group, Inc.

Any Question, Any Data, In Real-Time

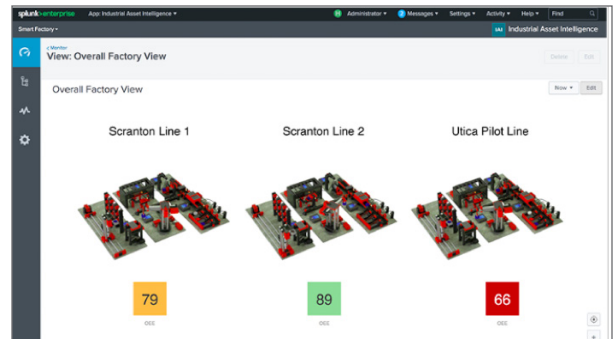
- Want a single source of truth? Combine and correlate disparate data across historians, SCADA, EAM, purchasing and inventory
- How do you ensure reliability? Set early warnings and trigger real-time actions with live alerts
- What should you do secure OT systems? Perform advanced analytics and machine learning to detect unknown threats and shorten investigation cycles with visual analysis, thresholds, alarms and indicators
- How can you know what’s at risk? Easily visualize time-series data, troubleshoot problems and share key learnings

Building Repeatable Industrial Use Cases with Splunk

Splunk gives customers the power to address multiple industrial use-cases with a single technology.

1. Real-time Monitoring and Troubleshooting of Industrial Assets and Control Systems (ICS)

Splunk makes it easy to navigate silos of information and diagnose operational issues that spans historians, SCADA, EAM, industrial applications and control systems. Early warning signs, drag-and-drop visualization and a cohesive view into operations allows you to achieve faster resolution of business-impacting issues — even predict and prevent outages before they happen.



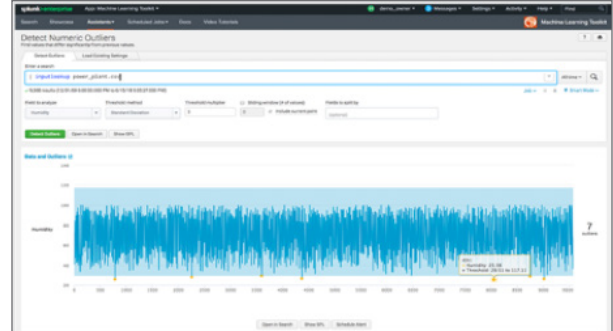
2. Security and Compliance for ICS

Hidden security gaps in control system software and applications can expose your business to data breaches and damage reliability of critical systems. Splunk helps you catch security issues before they happen with advanced warnings and early detection mechanisms. Advanced search and investigation provides better troubleshooting to resolve issues quickly.



3. Predictive Analytics

An increasing number of industrial plants are adopting sensor-generated data to predict evolving machine asset failure. Splunk’s Machine Learning and AI capabilities provide intelligent recommendations that relate to production, asset maintenance and supply chain management. This helps predict and prevent imminent outages without affecting production downtime.



Customer’s Finding Success with Splunk for Industrial IoT



DB Cargo, Europe’s largest rail freight operator makes a move to condition-based maintenance with real-time insights into fleet health and performance. [Watch the video.](#)



Shaw, one of the world’s largest carpet manufacturers, improves work order lead times and panel production, reduces energy resulting in significant cost savings. [Read the case study.](#)



Trane delivers best-in-breed performance with real-time and predictive insights across industrial assets, drives efficiency with automated operations with Splunk. [Learn more.](#)

[Try the Industrial Asset Intelligence Sandbox.](#)



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