Splunk for Manufacturing

An innovative data strategy provides immediate rewards for manufacturing IT and OT teams. Data solutions can protect both customers and employees during times of economic prosperity as well as times of extreme uncertainty.

The manufacturing industry is using data to gain increased visibility into supply chains — maintaining equipment and proactively repairing issues to avoid service interruptions.

Locomotive operators can gain real-time observability into their fleet. Farmers can use deep neural networks and computer vision systems to help plant crops and apply pesticides with algorithmic accuracy. Flooring business can deploy industrial sensors to provide new business insights, improving production performance and spurring friendly competition among plant workers.

The opportunity to capitalize on the significant business value of data is growing. Artificial intelligence, the Internet of Things, virtual reality — they're all generating vast treasure troves of information packed with business value. However, some organizations struggle to find and use the data they've already amassed.

What are the biggest challenges the industry is facing?

| Predictive Maintenance | Real-time Performance and Quality | Business Continuity | Remote Asset Monitoring |
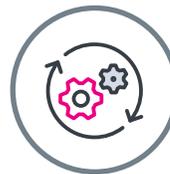
Manufacturing leaders must anticipate new challenges — avoiding supply chain interruptions, reducing threats and simplifying compliance. The Data-to-Everything Platform brings solutions to manufacturing operations — providing remote asset monitoring across IT and OT infrastructure.

What is the quantified economic impact of an organization making better use of its data?

Drive new profit streams with greater visibility to the performance of digital delivery and production.

Boost digital and remote services and applications across your entire infrastructure.

Maintain a competitive edge by understanding shifts in product demand.

Improve operations by prioritizing availability over efficiency.

Protect critical assets and operations while reducing risks from internal and external threats.

| Driving profit | Better utilizing more data | Improving operations | Maintaining a competitive edge |

13% of their TTM gross profit comes from a smarter use of data (average of U.S. $179.7 among large firms)

78% have improved products/service quality by uncovering and better utlizing dark data

88% use data to support most/all activities and processes associated with manufacturing operations

61% believe their organization is ahead of the competition when developing and launching new products and services

Splunk: The Data-to-Everything Platform for Manufacturing

The Data-to-Everything Platform brings together all of your data sources, including ERP, SCADA, MES, historian and asset systems, core infrastructure, applications, supply chain systems and IoT devices for a single, actionable view of manufacturing equipment and performance. With the ability to investigate, monitor and analyze large volumes of data in real time at scale, manufacturing IT and OT, and security and business-related professionals are empowered to answer business-critical questions faster than ever before.

Key Use Cases for Manufacturing

IT and OT Cybersecurity: Minimize the impact of data breaches, fraud, malware and compliance by understanding the potential security risks to asset and equipment devices across the factory, in the warehouse or in transport. Pinpoint abnormal behavior within your operational perimeter, warehouse, OT networks or ICS systems. Report on insider threats or unauthorized access to personally identifiable information (PII) and establish controls to lower security and operational risks.

Predictive Operations: Manufacturers rely on a basket of mission critical applications and infrastructure including:

- Product lifecycle management (PLM)

- Enterprise resource planning (ERP)

- Manufacturing execution systems (MES)

- Computer aided drafting/computer aided manufacturing (CAD/CAM)

- Wired and wireless networks

- Enterprise asset management (EAM)

- Productions assets surveillance cameras and IoT endpoints to entire manufacturing lines

Improve uptime, performance and response time of business-critical applications and the infrastructure they run on by monitoring and correlating issues to quickly determine root causes and remediate incidents. Downtime is expensive to both the manufacturer and its customers. Predictive operations provides an opportunity to prevent lost revenue and remediate interruptions to production, delivery, quality and safety before they happen.

IT and OT Monitoring: Gain greater visibility across production and management boundaries to identify, investigate and monitor for bottlenecks and errors that could impact operations from warehouse logistics to product manufacturing and quality.

Ready to start your journey with Splunk?
Reach out to one of our experts to learn how Splunk's Data-to-Everything Platform can help you accelerate your program and protect your most critical assets, applications, infrastructure, and the teams who operate them.

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