SPLUNK® FOR INDUSTRIAL DATA AND THE IoT

New insights from sensors, devices and industrial control systems

- **Gain real-time insight** from sensors, devices and industrial and operational technologies

- **Collect, manage and analyze** the velocity, volume and variety of data

- **Complement and integrate** with existing operational technologies
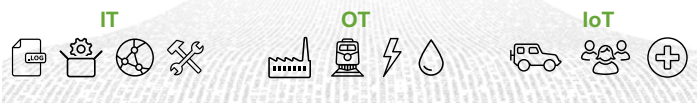
Monitoring & Diagnostics

Security, Safety & Compliance

Predictive Maintenance

Asset Performance Management

splunk>enterprise   **splunk>cloud**

IT   OT   IoT

Disparate and deployed industrial assets and connected devices can provide the enterprise a unique touch point to real-world operations and conditions. But collection, storage and insight of the machine data generated by the Operational Technology (OT) and the Internet of Things (IoT) can be a challenge.

Splunk software collects, analyzes and visualizes real-time and historical machine data from any source—including operational technology, connected assets and products—enabling you to improve operations, ensure safety and compliance, perform predictive maintenance and better manage the uptime and availability of industrial assets. Use Splunk to harness the power of the machine data generated by devices, control systems, sensors, SCADA systems, networks, applications and end users connected by industrial networks.

Connecting Splunk to Industrial Data and the IoT

### Optimate Integrator for PI System to Splunk

Make OSIsoft PI System data available in Splunk through a read-only query to PI, accessible within Splunk through a Splunk Search Processing Language (SPL) query

Kepware Industrial Data Forwarder for Splunk

Get real-time data collection from over 150 open and proprietary industrial data protocols common in energy, manufacturing, and oil and gas environments

HTTP Event Collector (HEC) and Modular Inputs

Use Splunk's HEC API and token-based authentication or modular input apps for MQTT, COAP, AMQP and JMS to access real-time data from industrial IoT devices and applications
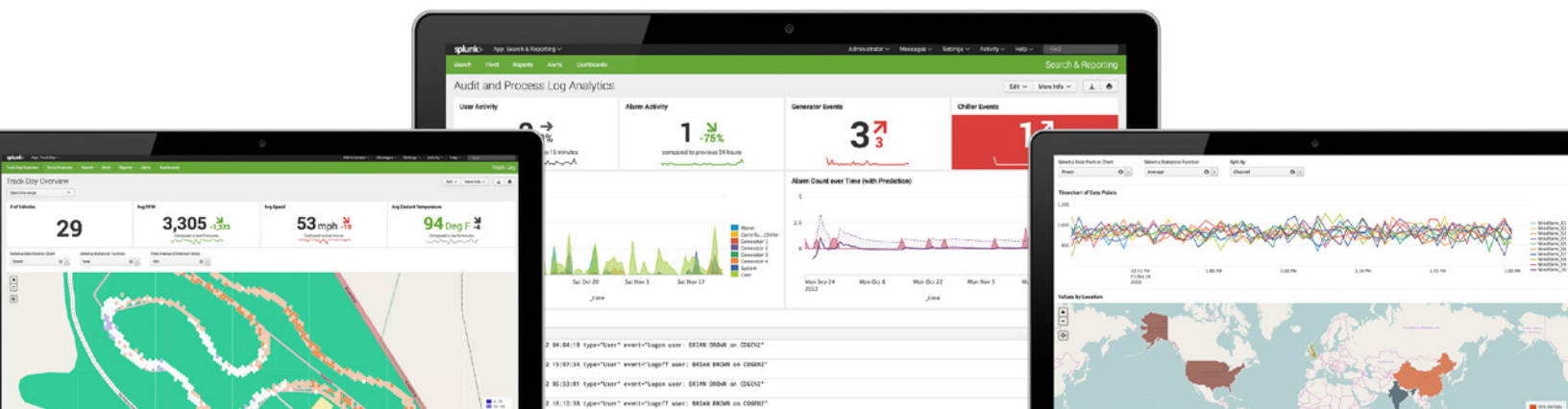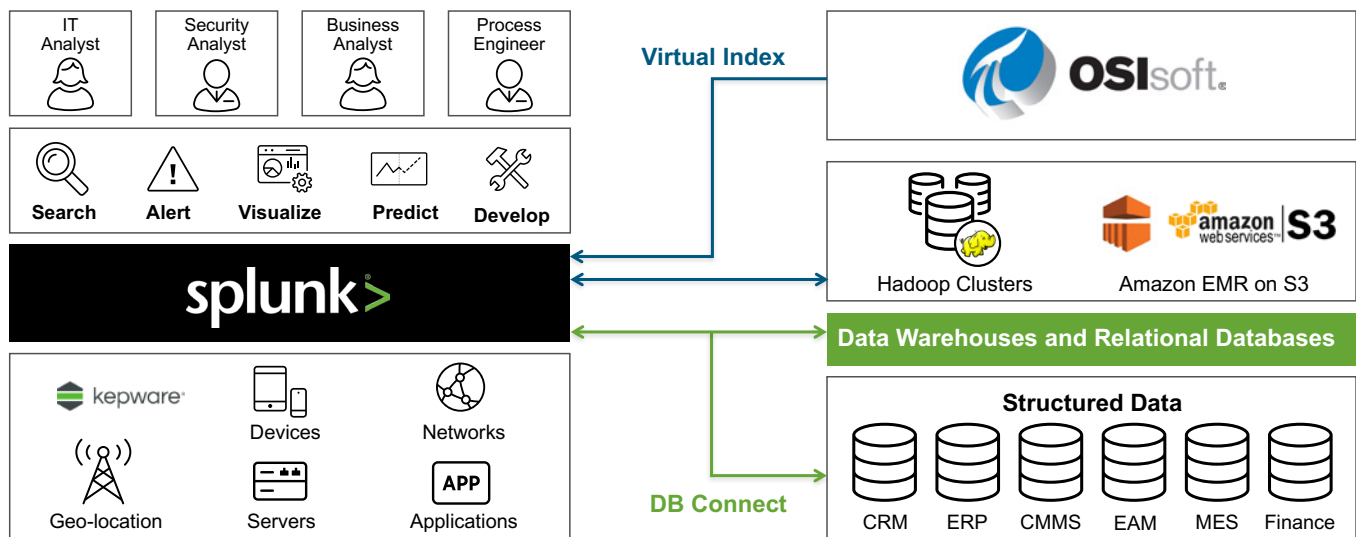
Why Splunk for Industrial Data and the IoT?

Monitoring and Diagnostics

Ensure that equipment in the field operates as intended. Monitor and track unplanned device or system downtime. Understand the cause of failure on a device to improve efficiency and availability. Identify outliers and issues in device production or deployment.

Security, Safety and Compliance

Help protect mission-critical assets and industrial systems against cybersecurity threats. Gain visibility into system performance or set points that could put machines or people at risk and satisfy compliance reporting requirements.

Predictive Maintenance

Gain real-time insight into asset deployment, utilization and resource consumption. Recognize patterns and trends, and use operational data to proactively approach long-term industrial asset management, maintenance and performance.

Asset Performance Management

Gain real-time insights into the health and performance of your industrial assets. Use machine learning to detect anomalies and deviations from normal behavior to take corrective action—improving uptime, reliability and longevity.

Splunk Integrates With Leading Cloud IoT Platforms and Services

As businesses build and deploy connected devices, they are also deploying a new generation of commercial IoT platforms and services. These platforms and services enable device connectivity, visibility and simple provisioning and remote device management. They act as both a gateway to device operations and provide a platform for interaction with remote device operations and performance.

Splunk software enables powerful machine data analytics for the IoT and eliminates the need to build them from the ground up. Leading IoT platforms including Xively by LogMeIn, Citrix Octoblu and AWS IoT are already integrated with Splunk software, enabling fast time to value for developers and end users.

Download Splunk for free or explore the online sandbox. Whether cloud, on-premises or for large or small teams, Splunk has a deployment model that will fit your needs. Learn more about how Splunk customers like Bosch and Myriad Genetics are realizing value from industrial data and the IoT.