Splunk Company Overview

- Global HQs: San Francisco, London, Hong Kong
- NASDAQ: SPLK
- Annual Revenue: $1.25B+
- 89 of the Fortune 100 rely on Splunk
- 20,000+ customers
- Customers range from small businesses to large organizations
- Across 110+ countries
- Largest license: 4+ Petabytes/day
- 4,500+ employees globally
- Splunk4Good: $100 Million commitment to support nonprofits, research & education

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Healthcare Data is Time Oriented and Diverse

**DATA SOURCES**

**Application data**
Mobile app and website data
*It’s expected that in 2018 50% of all smartphone users will have a health app on their phones.*

**IT infrastructure data**
Network servers, cloud services
*The cost of unplanned downtime is more than $634 per physician per hour.*

**Security data**
Firewall data, endpoint data
*Healthcare breaches were up in 2017, with 31 million records stolen.*

**Internet of Medical Things (IoMT) data**
Patient monitors, energy meters
*60% of healthcare organizations have introduced IoMT, with 87% planning to by 2019.*
Insights Across Healthcare Data
Platform for Machine Learning

IT Operations and Performance
Patient Privacy Monitoring
Medication Security Analytics
Medical Device (IoMT) Monitoring
Healthcare Process Workflows
Claims/Fraud Analytics
Patient Privacy and Medication Security Analytics

“Splunk’s close partnership has truly enabled us to continuously find new ways to ask questions and take action on our data.”

SVP CISO, NYPresbyterian

- Ability to audit every access to patient records plus other data sources, detect privacy issues, and issue alerts
- Prevent potential drug diversion
- Dynamically analyze user behavior using machine learning algorithms
- Meet HIPAA auditing and disclosure requirements
Machine Learning Use Cases

Patient Privacy and Medication Security Analytics

- Access to VIP, High profile, Not-under-care, Employee, Neighbor, Diseased, Consecutive or Family Patient records
- Higher than User Normal
- Excessive Hours with Activity
- Access Outside of Work Hours
- Excessive Demographics Access
- Access by Inactive User
- Failed Login Attempts
- Pharmacy: Drug diversion, Prescription/Opioid anomaly

Healthcare Records “Peeking”

Healthcare Records Access Anomalies

Cyber Security Events Suspicious Activity

Drugs and Opioids Abuse Monitoring