

40 Ways to Use Splunk in Financial Services

Duncan Ash, AVP Global Financial Services

Haider Al-Seaidy, Financial Services
Technical Lead

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Agenda

40 Solutions – Is that all?

Featured Use Cases:

- Trading
- Branch Banking and ATMs

Fantastic Assets and Where to Find Them



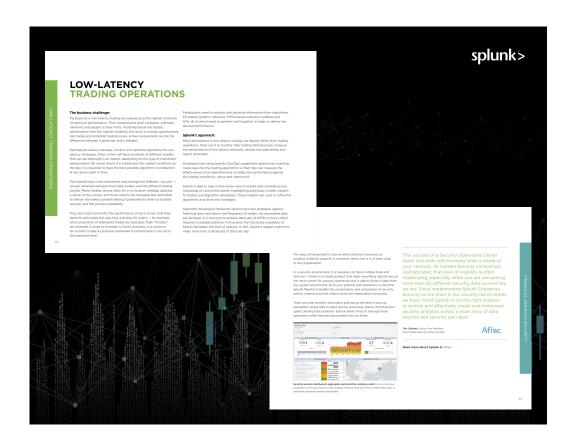
Splunk for Financial Services

Splunk is best known in Security and IT Operations

Customers are using us for a multitude of use-cases

Examples from the real-world:

- Banking and Insurance
- Trading and Risk
- IT Operations
- Security and Financial Crime
- Supervision and Compliance







Trading

Splunk the end-to-end trading environment

Trading Operations

Every aspect of trading needs to run at 100%, all the time

Trading Operations are highly complex and demanding

Thousands of systems and moving parts – internal and external

Timing is everything

If something blinks for 1 millisecond, there are consequences



Multiple Aspects of Trading Need Splunk

Splunk Trading Operations - Mission Control External Business Inbound Information Internal Business Operations Operations Sources External Partners / Trading Desk & **Trading IT Operations** Co-location Trading + CRO / IT Counter-parties / Operations Operations Regulators / Central Banks **Security Consortiums** Trader Trading CTO Equipment located at: Algo Developer Dev-Ops Exchange / Trading Venue Quant Quant Engineering Dark Pools Risk Manager Risk IT Compliance Network Engineering Trading COO + All supporting functions Sales Trader Security Ops **Pricing Functions & Risk Rating Agency Data** Transaction Tracing **Algorithms** Models **Trading Performance Grid Compute Operations Smart Order Routing** Market Data Feeds Metrics - Fill Ratios etc Infrastructure / Cloud **Counterparty Data Stress Testing Scenarios** Hardware Operations **Low-Latency Trading** Collateral Trade / Position Database **Trading Network Circuits Network Circuits Trade Execution Security Data Trade Analytics Software Applications** Appliances (FPGA) **Regulatory Applications Central Bank Data** Clocks Clocks & Historical Data **Regulatory Data** Clearing & Settlement Security Security



Demo



Branch Banking and ATMs

Cost efficient operations, lower fraud, tighter security

Branch and ATM Operations:

Managing cost, security, and financial crime

Branches have changed for good

Branches are now either an automated experience, or a sales channel for high-value products and services

ATM and IDM hardware needs to perform flawlessly

If only it was easy to run the ATM network...



The Evolution of Bank Branches



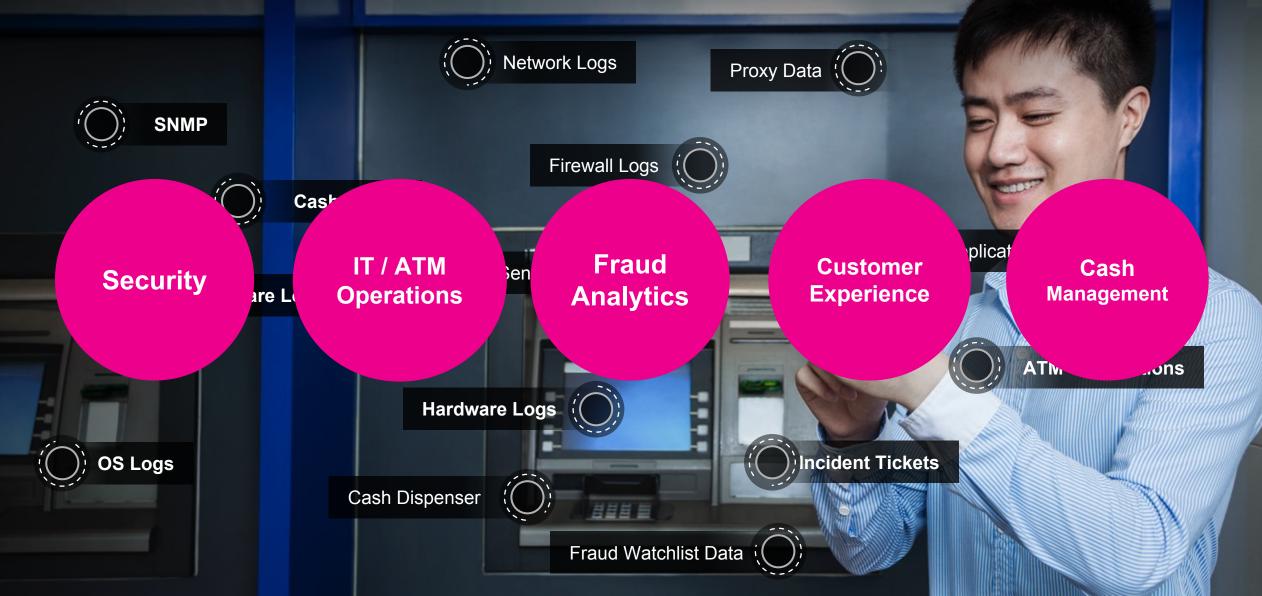






ATM – Same Data, Multiple Times the Value

Delivering a secure and reliable network brings together a diversity of real-time data sources











Senso







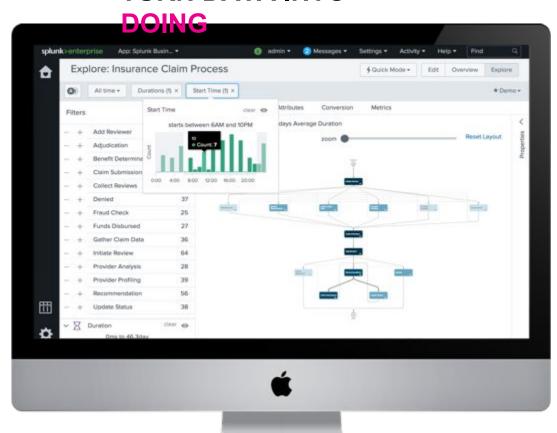
Energy Meters







TURN DATA INTO



Centralized Granular Data

Real Time Analytics

Reduce ATM maintenance costs

Optimize ATM availability

Continuous Threat Remediation

Reactive to Proactive Maintenance

Better Cash Management

Fraud Reduction

Improved Customer Experience









Networks



Transactions

SNMP

Clickstreams

Mobile Tops Up

Containers





Location











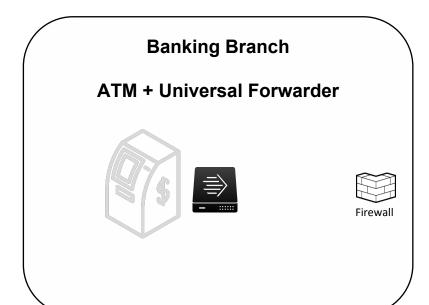






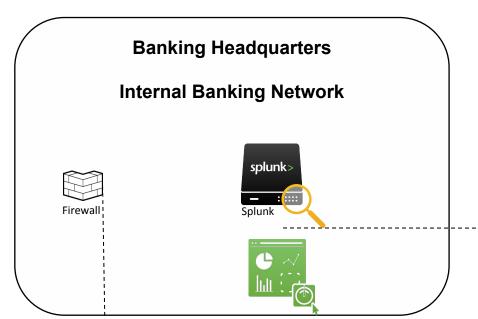
The Universal Forwarder

Stream Data | Guaranteed Delivery | Load Balancing | Bandwidth Throttling | Buffering



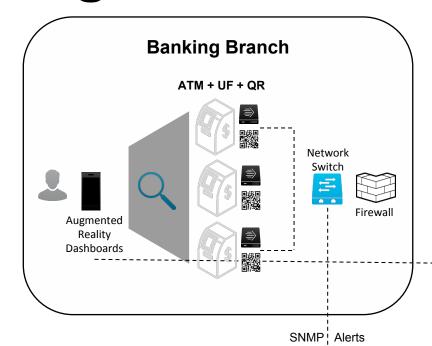
OS Logs / Performance Metrics ATM Software Application Logs Metrics

> Hardware Logs Transaction Journal SNMP Alerts





High Level ATM Solution Architecture



Payment Networks





OS Logs / Performance Metrics ATM Software Application Logs

> Hardware Logs Transaction Journal SNMP Alerts

Metrics

Data Subset

ATM Service Provider



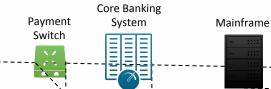
Standalone ATM SIM ATM + UF + QR





Internal Banking Network

Banking Headquarters











Operation's





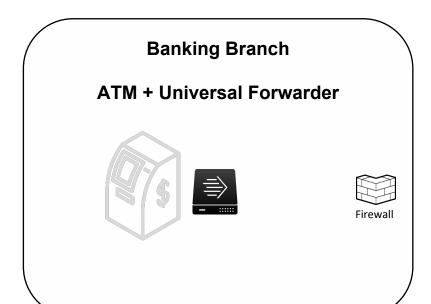






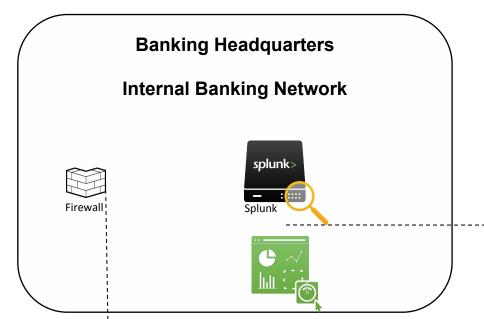
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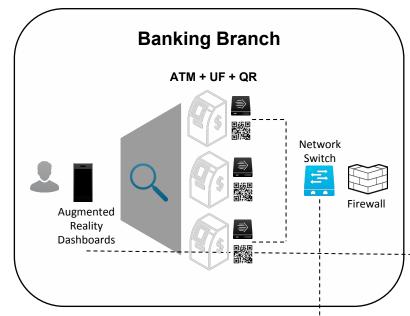
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> Hardware Logs Transaction Journal SNMP Alerts





High Level ATM Solution Architecture



Payment Networks



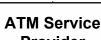




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> > Data Subset

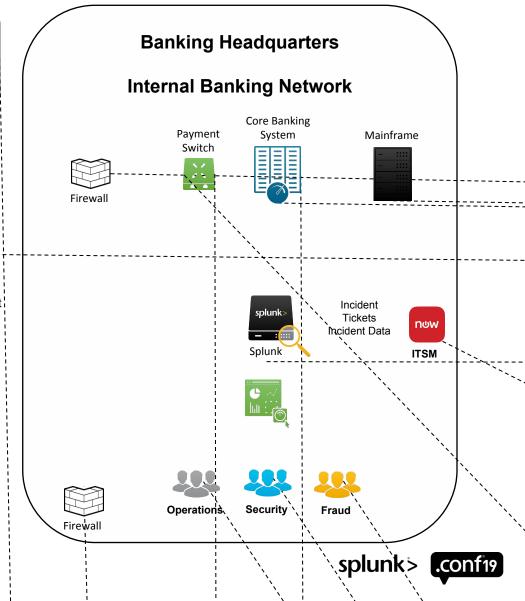




Standalone ATM



SNMP! Alerts **Provider** Splunk Cloud Gateway



Demo



Fantastic Assets and Where to Find Them

Check out our thought leadership and connect with experts

Assets for Financial Services

Book: 40 Ways to Use Splunk in Financial Services

- Pick up your copy here today at our booth in the source=*pavilion
- Download the ebook on splunk.com
- Demo's can be arranged for customers and partners on request

App: Splunk Essentials for Financial Services

This toolkit is available on Splunkbase.

Our source of truth, for all customer stories and thought leadership: Splunk.com



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