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Splunk/Ironstream and z/OS IT Ops

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splunk>

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In addition, any information about our roadmap outlines our general product direction and is subject to change at any time without notice. It is for informational purposes only and shall not, be incorporated into any contract or other commitment. Splunk undertakes no obligation either to develop the features or functionality described or to include any such feature or functionality in a future release. Referenced customers for ITSI product participated in a limited release software program that included items at no charge.

Mainframes Still Host Most Critical Applications

71%
Fortune 500

30 Billion
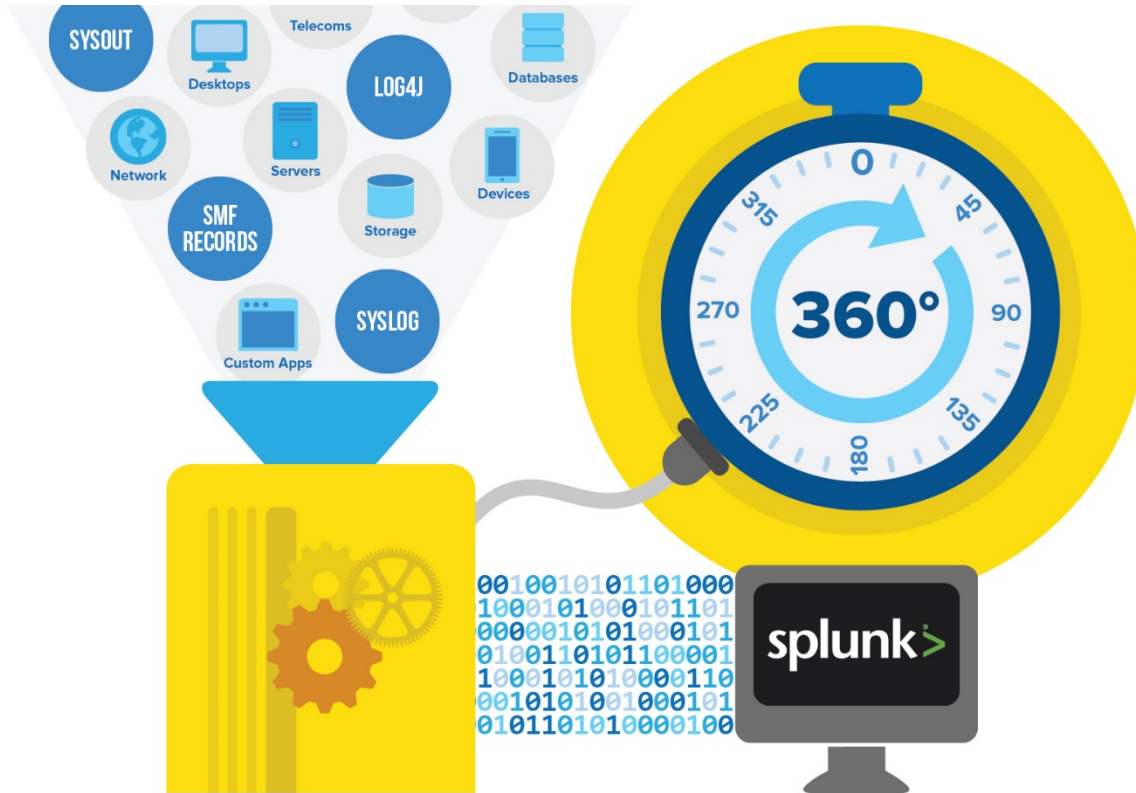Bus. Transactions / day
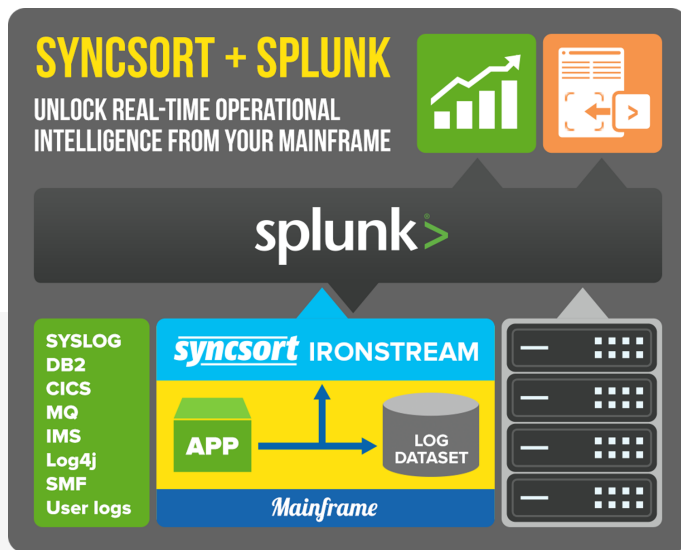
25 Top World Banks

9 of World's Top Insurers

23 of Top 25 US Retailers

Splunk Provides a 360° View

You Can Splunk Mainframe Data Today!

SYNCSORT + SPLUNK

UNLOCK REAL-TIME OPERATIONAL INTELLIGENCE FROM YOUR MAINFRAME

splunk>

SYSLOG
DB2
CICS
MQ
IMS
Log4j
SMF
User logs

syncsort IRONSTREAM

APP

LOG DATASET

Mainframe

Ultra Light Weight

✓ Minimal MIPS impact even for billions of SMF records

Non-intrusive

✓ Collect data from critical system
✓ Zero impact to throughput

Fast

✓ Collect data in real time

Meet forwarder requirements

✓ Error recovery
✓ Security
✓ Load balancing

Syncsort Heritage

- Syncsort provides fast, secure, enterprise-grade software spanning "Big Iron to Big Data"

- 50% Of all mainframes run Syncsort software

- Real-time MF Log data to Splunk - Ironstream

- DB2 transparency migration solutions

- Real-time network management and security software

- Fastest sort technology in the market
  - *Most trusted 3rd party mainframe software*

- Over 45 years of innovation:
  - *25+ issued & pending patents*

- Large global customer base
  - *12,000+ deployments in 85 countries and serving 87 of the Fortune 100*
  - *1,500 mainframe customers*

Our customers realize ROI and get the best customer service in the world, every day!

Key Partners

Ironstream® + Splunk: Supplement Existing Monitors

- Most mainframe monitors don't correlate information between systems, sub-subsystems, and applications well

- Most do not take into account SYSLOG messages or security threats which can impact performance

- They require Subject Matter Experts(SMEs) with in depth technical knowledge for effective use

- Most have evolved into very complex and resource intensive solutions in an attempt to cover everything

Ironstream® + Splunk: Supplement Existing Monitors

- **Less Complexity**
  - Easy to collect mainframe data and correlate it with data from other platforms
  - Don't need mainframe access or mainframe expertise in using mainframe tools

- **Clearer Security Information**
  - Security threats integrated into the same user interface as performance data
  - Easier to identify unauthorized mainframe access or other security risks

- **Healthier IT Operations**
  - Real-time alerts to identify problems in all key environments like CICS, DB2, IMS, MQ
  - View latency, transactions per second, exceptions and other valuable data

- **More Effective Problem-Resolution Management**
  - Real-time views of mainframe SMF data to identify real or potential failures earlier
  - View related 'surrounding' information to support triage repair or prevention

- **Higher Operational Efficiency**
  - Augment legacy silo monitors with enhanced event correlation across systems
  - Enable staff to resolve problems faster and "do more with less"

Ironstream Use Case – Major Insurer

Business Challenges:

- **System availability:** meet internal and external SLAs
- **Time to resolution:** using multiple environments and solutions to troubleshoot issues
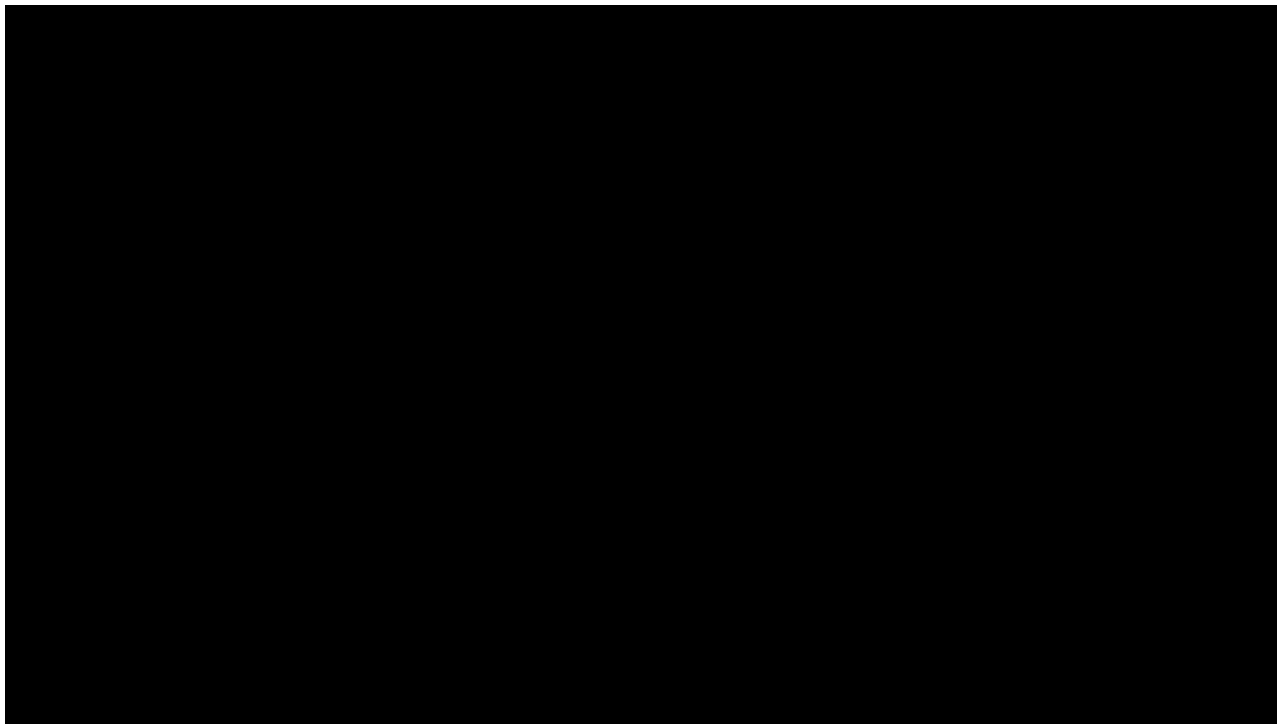
Use Case:

- **Ironstream -** Syslog and SMF records forwarded to Splunk
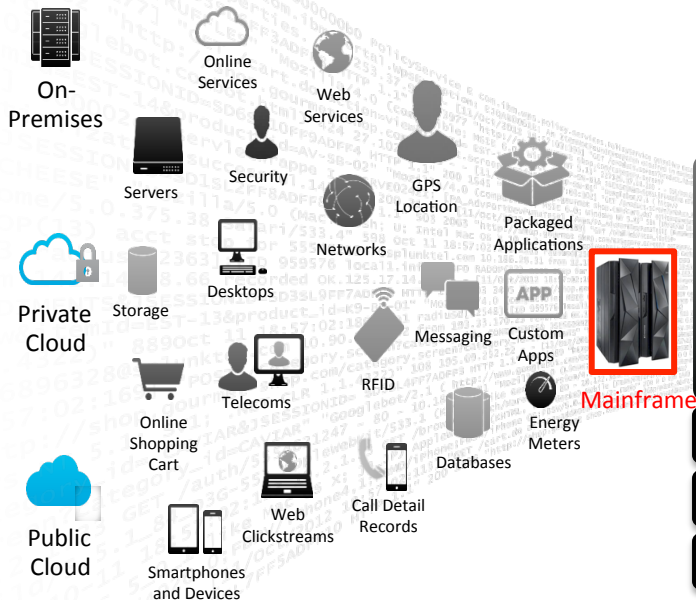
Benefits:

- Ability to **search through days of syslog** messages using Splunk in **same amount of time it takes to search through an hours** worth of syslog messages in using typical z/OS techniques
- Ability to **combine multiple Syslogs** from within a multi-system Sysplex together
- Ability to have an **external method** of getting to syslog messages when **z/OS systems are not responding**
- **Correlation** of information from **different systems/platforms** for solving application issues
- Flexibility in viewing **CICS transaction information** contained in SMF type 110 records versus fixed format displays provided by other monitoring facilities

Ironstream® Demo

Summary: Ironstream® Completes the Picture

Machine Data: Any Location, Type, Volume

On-Premises

Online Services

Web Services

Servers

Security

GPS Location

Packaged Applications

Private Cloud

Storage

Desktops

Networks

Messaging

Custom Apps

Mainframe

Online Shopping Cart

Telecoms

RFID

Public Cloud

Smartphones and Devices

Web Clickstreams

Call Detail Records

Databases

Energy Meters

Answer Any Question

Ad hoc search

Monitor & alert

Report & analyze

Custom dashboards
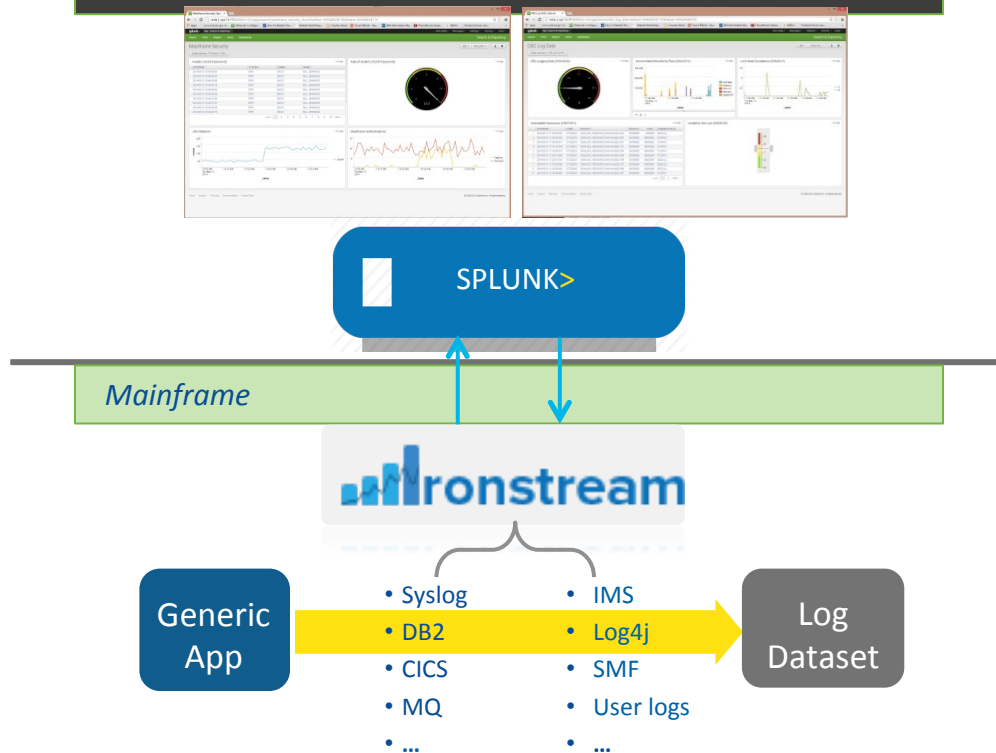
Developer Platform

splunk>enterprise

splunk>cloud

Platform Support (Apps / API / SDKs)

**Enterprise Scalability**

Universal Indexing

Ironstream® Data Flow

Supported Data Source: Continued Growth

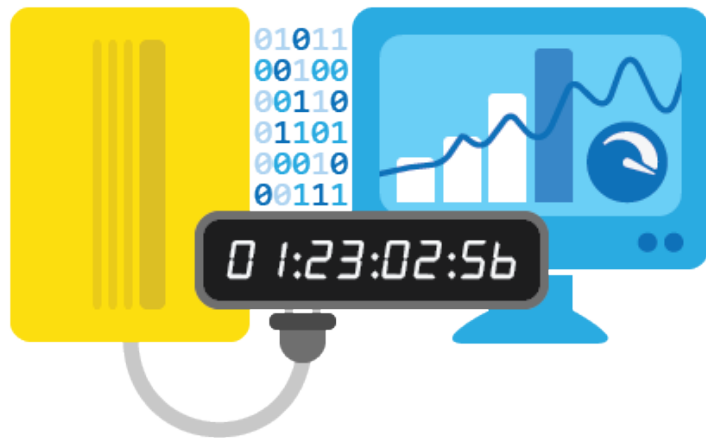| GA	4Q14	1Q15	2Q15	Expected 2H15	Roadmap
SMF 30	SMF 14	SMF 0	SMF 4	SMF 37-39	SMF 5-9
SMF 80	SMF 15	SMF 19	SMF 16-17	SMF 81	SMF 11
SMF 110	SMF 42	SMF 57	SMF 40-41	SMF 83	SMF 21-24
Log4j 1	SMF 70	SMF 60-62	SMF 50	SMF 99	SMF 28
SYSLOG	SMF 100-102	SMF 64-66	SMF 90	ACF 2	SMF 82-83
	SMF 120	SMF 71-79	SMF 92	Log4J 2	SMF 87-88
	Batch Files	SMF 115-119	SMF 113	Network Data	SMF 94
		DB2 Triggers	SMF 208	RMF III	SMF 103
			SMF 241	SyslogD	DB2 CDC
			SYSOUT	User API	Flat Files
			Top Secret	USS	MQ Data
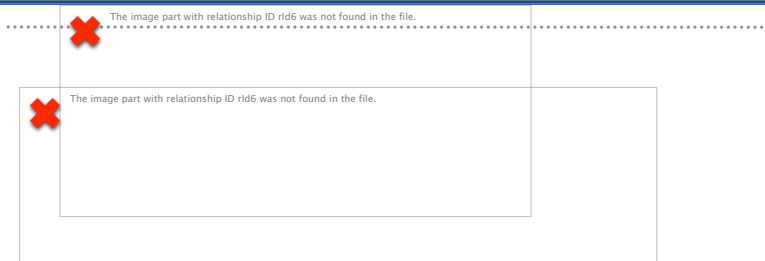
0	- IPL Header
4	- Step Termination
14-15	- Data Set Activity
16	- DFSORT Statistics
17	- Scratch Data Set Status
19	- Direct Access Volume
30	- Common Address Workspace
37-39	- Netview
40	- Dynamic DD
41	- DIV Objects & VLF Statistics
42	- DFSMS Statistics and Configuration
50	- VTAM Tuning Statistics
57	- JES2 Network SYSOUT Transmission
60-62	- VSAM
64-66	- VSAM
70-79	- RMF Processor Activity
80-81, 83	- Security Package (RACF)
90	- System Status
92	- File System Activity
99	- SRM
100-102	- DB2
110 (sub 1,2)	- CICS Performance & Exception Data
113	- Hardware Capacity
115-117	- WebSphere
118-119	- TCP/IP
120	- WebSphere Application Server Activity
208	- Syncsort SMF
241	- DFSMShsm Statistics

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What Now?

- More information on Ironstream®
  - syncsort.com/Ironstream

- Test drive Ironstream® for free now!
  - syncsort.com/testdriveironstream

- Stop by our booth and talk

- Check us out on YouTube
  - Search for ironstream

- Contact us: info@syncsort.com

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THANK YOU

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