



Operational Intelligence at Enterprise Scale

Cisco and Splunk Reduce Operational and Security Risks with Continuous Visibility Across Applications, Infrastructure Tiers, Security Devices, and More

in collaboration with



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01 Turn Silos of Data into Operational Intelligence

Organizations today operate in a world that's mobile and connected, with traditional boundaries expanding into the cloud and to the very edge of the network. These businesses are exploring new software-defined data centers while managing a dramatic increase in data from the Internet of Things (IoT), which includes industrial data and data from sensors, wearable devices, and more.

As a result of this interconnectedness, companies are left with a complex IT environment and siloed technologies that generate massive data streams.

Without cohesive visibility across all of these systems, organizations can't use the data and gain insights to reduce network risks, improve efficiency, and ultimately transform the organization.

To eliminate data silos and gain operational intelligence, organizations need a solution that:

- ➔ Provides a single software platform integrated across infrastructure silos

- ➔ Enables visibility to data anywhere: at the data center core, in the cloud, and at the edge
- ➔ Quickly identifies new elements and enables real-time integration of new data sources
- ➔ Detects and resolves problems quickly by monitoring and analyzing all IT systems

When working together, these capabilities accelerate threat detection and response and provide data-based insights to promote innovation and deliver competitive advantage.

Data is growing dramatically—and creating new operational and security challenges.

In 2014, the number of companies reporting a US \$10 million loss or more increased by 51 percent.¹

75 percent of all attacks take only minutes to begin data exfiltration, but take much longer to detect.²

More than 50 percent of attacks persist without detection for weeks or months before detection.³

¹ Verizon 2014 Data Breach Investigation Report

² Cisco Annual Security Report, 2014

³ Ibid

Splunk makes machine data accessible, useful, and valuable to everyone.

02 Gain a Competitive Advantage with Cisco and Splunk

To stay ahead of competitors in the IoT era, your operations must deliver outstanding application and infrastructure performance, and your applications and infrastructure must work flawlessly, both separately and together. To accomplish this, you need a comprehensive, real-time IT operations analytics solution that bridges silos, provides insights quickly, and reduces complexity and costs.

Cisco and Splunk have developed a comprehensive and efficient operations analytics solution that helps IT improve the performance of all your applications and infrastructure. The solution combines powerful analytics capabilities with end-to-end, single-pane visibility, outstanding scalability, and performance, all at a low total cost of ownership (TCO). The joint solution combines leading innovative software—with Splunk Enterprise—and hardware, with Cisco UCS® Integrated Infrastructure for Big Data.

Splunk recognized as Cisco's 2016 Global ISV Partner of the Year.

The Cisco® and Splunk solution helps your organization gain insights from the vast amounts of data generated from Cisco's security, networking, wireless, data center, and collaboration solutions. Using Splunk software running on Cisco Unified Computing System™ (Cisco UCS) servers, you can dramatically reduce your mean time to investigate (MTTI) and mean time to resolve (MTTR) network problems to keep critical services running.

To accelerate solution deployment and reduce risk, Cisco worked closely with Splunk engineers to create an in-depth [Cisco® Validated Design](#).

Splunk's data-based insights enhance IT performance with:

- Up to 45 percent reduction in infrastructure incidents
- Up to 95 percent reduction in incident investigation
- Up to 82 percent reduction in financial impact from outages

[See why Splunk was named Cisco's 2016 global independent software vendor \(ISV\) partner of the year.](#)

[More](#)

03 Improve Insight with IT Operations Analytics

As your IT environment expands in size and complexity, using rigid point solutions to monitor each element of your infrastructure becomes more difficult, time consuming, and costly. This siloed approach cannot scale to support connectivity, process ever-increasing amounts of data, and deliver consistently high-performance business applications. To meet increasing expectations, you need a solution that collects all IT machine data in real time, immediately identifies and resolves IT problems, and instantly adapts to a changing infrastructure.

IT Operations Analytics on Cisco UCS with Splunk Enterprise gives you the scalability, real-time analytics, and single-pane visibility required to keep your IT operations running flawlessly. Splunk Enterprise provides end-to-end visibility across the applications, infrastructure, and devices connected to your data center to enable powerful operational insights so that you can quickly identify and troubleshoot problems to reduce your MTTR.

[More](#)

Together, Splunk Enterprise and Cisco deliver exceptional business value.

Splunk:

- Decreases system incidents by 15 to 45 percent
- Accelerates incident investigation by 70 to 90 percent
- Reduces financial impact of outages by 67 to 82 percent

Cisco UCS:

- Reduces the need for cables and switches by 77 percent
- Lowers power and cooling costs by 54 percent
- Reduces management costs by 61 percent



TechWiseTV episode: Operational Intelligence at Scale: Cisco UCS, Big Data, and Splunk (23:12)

[Watch Video](#)

04 Accelerate Threat Detection and Response with Real-Time Visibility

As threats grow in number and sophistication, simple monitoring of security events is no longer sufficient to keep your IT environment protected. You need a big data security solution that can rapidly adapt to advanced threats and provide your IT team with the critical insights it needs to fix problems before they affect operations.

With Splunk security solutions, you can quickly identify threats in real time and perform automated remediation actions on Cisco firewalls and intrusion prevention systems (IPSs). Splunk's analytics-based security solutions integrate across Cisco's security portfolio to deliver comprehensive, continuous visibility across physical, virtual, and cloud environments. With centralized visibility across disparate Cisco networking products, you can quickly identify potential threats before they affect operations.

At-A-Glance:
Security Analytics on Cisco UCS with Splunk

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IT Operations Analytics on Cisco UCS with Splunk Enterprise

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Splunk finds and fixes problems fast, saving valuable time and money:

- Improves detection and triage of security events and attacks by 70 to 90 percent
- Simplifies investigation of formal security incidents, reducing the time required by two-thirds or more
- Reduces and prevents fraud and mitigates the risk of data breaches by up to 50 percent
- Helps eliminate the costs associated with IP theft

[Security Analytics on Cisco UCS with Splunk Enterprise.](#)

[Download the Solution Brief](#)

See why Splunk was named a leader in the Gartner 2015 Magic Quadrant for security information and event management (SIEM).

[Read More](#)

05 Lead Innovation and Business Transformation Across Industries

Every new data source that your company creates or accesses has the potential to provide your business with valuable insights—if the data can be effectively analyzed. Together, Splunk and Cisco have used this operational intelligence to transform businesses across a broad range of industries and use cases.

Helping rail operators improve service

By analyzing massive amounts of data from heterogeneous sources, Splunk and Cisco enable defect forensics tracking that identifies the top sources of track defects and improves service reliability.

Optimizing customer interactions for theme parks

Splunk’s ability to analyze data captured by Cisco Meraki® wireless devices provides insights on line queues through cell phone pings that allow customers to spend more time enjoying attractions and less time in line.

Creating electronic health records for a leading hospital

Cisco built a robust infrastructure using Security Analytics on Cisco UCS. Splunk software helps the hospital gain operational intelligence from machine-generated data, and Cisco UCS provides a powerful, fast foundation.

Moving into a new world of next-generation telecom services

Splunk software and Cisco UCS provide an operational and security analytics platform that scales to support massive volumes of data for Integra, one of the largest regional providers of networking, communications, and technology solutions in the western United States.

Providing a reliable, secure foundation for electronic health records

To protect patient information and hospital systems from cyberattacks, Maryland’s Union Hospital uses Security Analytics on Cisco UCS with Splunk to gain operational intelligence from machine-generated data, with Cisco UCS providing a powerful, fast foundation.



Enhance your Splunk experience with Cisco UCS

[Watch Now](#)

Cisco big data and analytics IoE transportation demonstration with Splunk.

[Watch Video](#)

06 Harness Big Data for Transformative Insights Today

Splunk named IDC 2014 “Worldwide IT Operations Analytics Software Market Share Leader”

Splunk awarded Cisco’s 2016 Global ISV Partner of the Year

Learn how organizations optimize application and infrastructure performance with Cisco and Splunk

With more data coming into the enterprise from more sources than ever before, you need an IT environment that can transform this information into actionable insights. Real-time, end-to-end visibility helps you accelerate time-to-insight and make more informed decisions across the organization to reduce operational and security risks.

Cisco UCS with Splunk provides a single tested and proven platform that helps optimize the performance of your applications today—and that grows and evolves with your business in the future. Even as the IoT era introduces new connections, applications and tremendous volumes of data, the combined solution can help IT meet and exceed service-level agreements (SLAs) with full operational visibility and a proactive, predictive approach to cybersecurity.

Watch Splunk’s CEO discuss the benefits of Cisco UCS for big data

Watch Now

Together, Cisco and Splunk can help you break down internal silos and harness big data to deliver operational intelligence that deepen business and customer understanding, prevent fraud, improve service performance, and reduce cost.

Learn more at cisco.com/go/bigdata and splunk.com

Why Cisco UCS? It’s All in the Numbers

Ebook: [Big Data and Analytics for Dummies, Cisco Special Edition](#)

At-A-Glance: [Cisco Capital® financing](#)

IDC White Paper: [The Business Value of Cisco UCS for Big Data](#)

Blog: [Cisco UCS Integrated Infrastructure for Big Data](#)

CTO Tool: [Register to access our Advisor™ Toolset](#)

Tweets by Splunk

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