Transform Data Center Operations with Cisco Nexus One and Splunk Integrations



© 2026 Cisco and/or its affiliates. All rights reserved.

Cisco Data Center Networking and Splunk: visibility leads to insights and action

Modern data centers are evolving rapidly to support hybrid, multicloud, and AI-driven workloads. This increased complexity makes unified visibility, rapid troubleshooting, and operational efficiency critical for success. Observability is a cornerstone of full-lifecycle data center network management and a key pillar of Cisco Nexus® One. By integrating Cisco Nexus One and Cisco Data Center Networking solutions with Splunk®, NetOps, SecOps, and IT teams gain real-time, actionable insights across the entire data center fabric.

This integration enables three powerful use cases, each designed to address specific operational and business needs.

© 2026 Cisco and/or its affiliates. All rights reserved.

Native Splunk in Cisco Nexus One

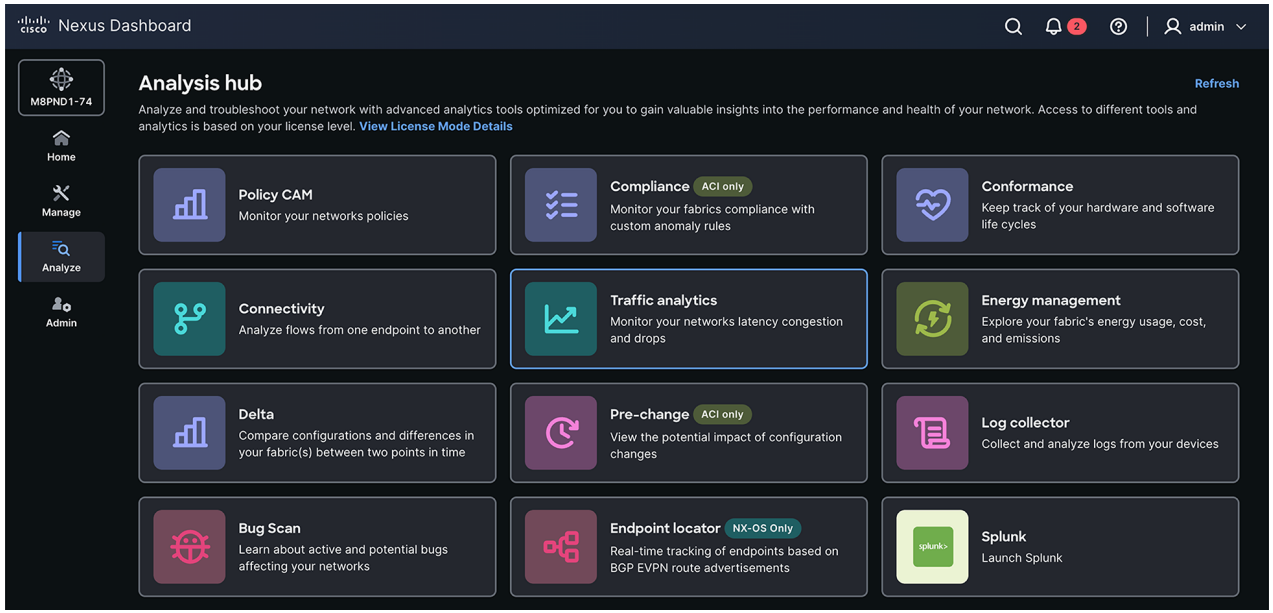


Figure 1. Cisco Nexus Dashboard Analysis hub

Overview

Cisco offers a native Splunk integration directly within Nexus Dashboard. This integration streams telemetry such as anomalies, advisories, and audit logs through Splunk's HTTP Event Collector (HEC) for real-time analytics. This solution provides data governance and regulatory compliance for customers requirements.

Key capabilities

- **Embedded analytics:** run Splunk natively on premises for instant dashboards and root cause analysis
- **Federated visibility:** Utilize unified dashboards that deliver cross-domain insights regardless of data origin
- **Operational cost efficiency:** Analyze high-fidelity telemetry locally to reduce cloud storage and egress costs
- **Data sovereignty and compliance:** Keep sensitive data on premises, supporting data residency and regulatory needs

Use cases

- **Accelerated root cause analysis:** Real-time correlation of configuration changes and network anomalies
- **End-to-end visibility:** Monitor network, security, and configuration events across domains
- **Cost optimization:** Reduce overall data transfer and storage costs through local analytics
- **Regulatory compliance:** Help ensure that sensitive data does not leave the data center

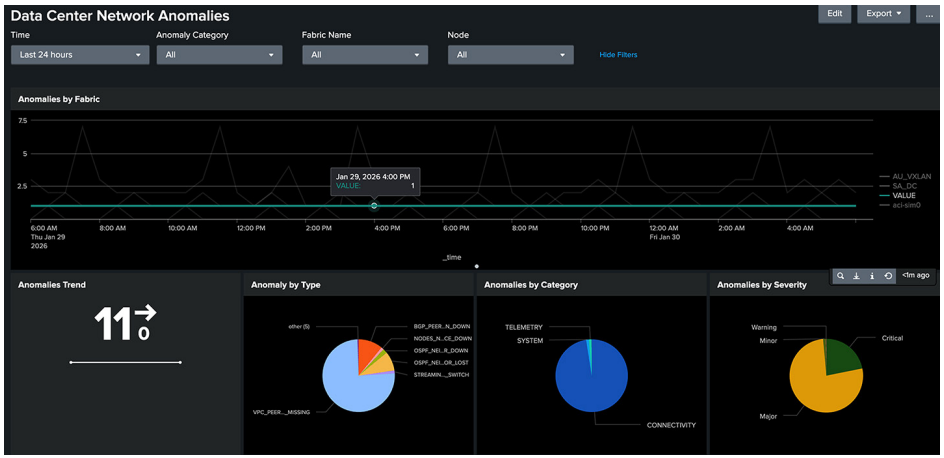


Figure 2. Anomalies on Splunk provided by Nexus Dashboard

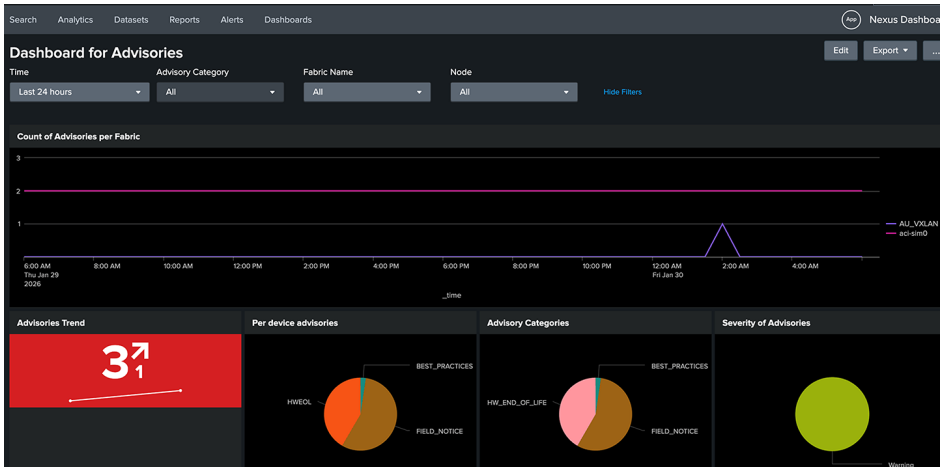


Figure 3. Advisories on Splunk provided by Nexus Dashboard

Unique Actions by User

username	Action	Count
admin	12 switches deleted successfully	52
	2 switches deleted successfully	
	Advanced settings in fabric management updated	
	Backup 3pnd-devbackup-18012026-090023 started	
	Backup full411gm8base1pnd74 downloaded	
	Backup full74fut104 started	
	Backup full74fut108 started	
	Backup full74futuro97 started	
	Cleared SSH Host keys for switches	
	Collect Techsupport all_2025-12-04T20-45-57Z	
	Collect Techsupport all_2026-01-06T17-29-27Z	
	Configuration deployment completed successfully for fabric AU_VXLAN	
	Configuration deployment initiated successfully for fabric AU_VXLAN on FAB-8-LEAF-1 (FDO24070CCL) switch(es)	
	Configuration save action executed successfully for fabric: AU_VXLAN	
	Configuration save action executed successfully for fabric: UK_VXLAN	

Figure 4. Advisories on Splunk provided by Nexus Dashboard

For customers with Cisco Data Center Networking (DCN) Premier licensing on Nexus Dashboard, the full feature set of native Splunk capabilities are available with a convenient add-on license.

© 2026 Cisco and/or its affiliates. All rights reserved.

Splunk IT Service Intelligence content pack for data-center networking

Overview

Splunk IT Service Intelligence (ITSI) delivers advanced machine-learning-driven service monitoring, predictive analytics, and incident management tailored for IT and digital business operations.

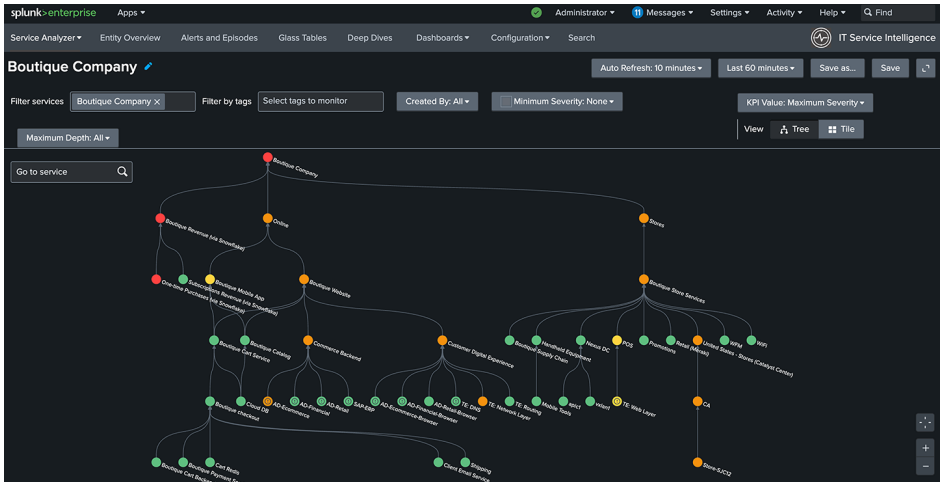


Figure 5. Splunk IT Service Intelligence service analyzer

Key capabilities

- **Business and service monitoring:** monitor service health, enforce SLAs, and trace root causes using dynamic topology models
- **Intelligent incident management:** get real-time event correlation, deduplication, and automated incident prioritization integrated with ITSM tools
- **Predictive analytics:** use proprietary algorithms for anomaly detection, adaptive thresholding, and predictive health scoring (for example, alerting 30 minutes before service degradation)
- **Dynamic topology and KPI monitoring:** utilize “one-click” onboarding, normalization, and correlation of Nexus data for actionable alerts

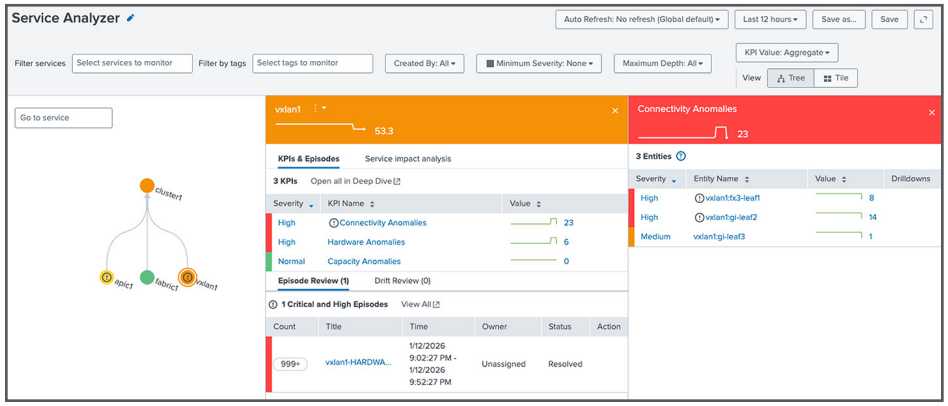


Figure 6. Splunk IT Service Intelligence content pack for data-center networking with Nexus Dashboard

Use cases

- **Proactive service-health monitoring:** prevent issues and SLA breaches with predictive, multi-KPI alerting
- **Root cause analysis:** drill down into Nexus data for rapid anomaly identification and resolution
- **Streamlined incident response:** accelerate MTTR with correlated, actionable alerts, and automated remediation

Splunk IT Service Intelligence (ITSI) for data-center networking can be easily consumed through the standard Cisco Data Center Networking (DCN) licensing. For more details visit the Cisco Data Center Subscriptions page. Separate ITSI licensing will apply.

© 2026 Cisco and/or its affiliates. All rights reserved.

Cisco Data Center Networking App for Splunk

Overview

The Cisco Data Center Networking App for Splunk simplifies how teams collect, visualize, and act on telemetry from Cisco N9000 Series Switches and Cisco ACI® and Nexus Dashboard platforms. Supported on both Splunk Cloud and Splunk Enterprise, this application provides advanced dashboards and cross-correlation capabilities for comprehensive insights.

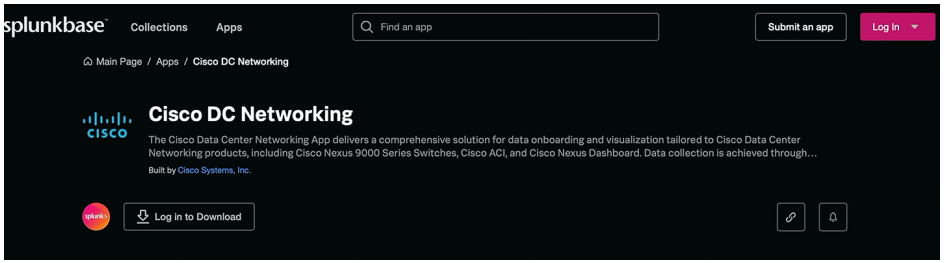


Figure 7. Cisco Data Center Networking on Splunkbase

Key capabilities

- **Unified data integration:** seamless onboarding of events, alarms, health scores, and inventory through open APIs
- **Advanced dashboards:** pre-built and customizable dashboards for inventory, health, fabric state, anomalies, and advisories
- **Operational efficiency:** optimized searches reduce resource usage and speed up dashboard performance
- **Self-service installation:** simplified deployment with support for Splunk 9.x and backed by Cisco® Technical Assistance Center (Cisco TAC)
- **Visualization and cross-correlation:** correlate telemetry across fabrics and technology tiers for actionable insights

Use cases

- **Event monitoring:** detect anomalies from Nexus Dashboard and monitor faults from Cisco ACI
- **Infrastructure health:** visualize the health of APIC and platform components
- **Security and threat detection:** analyze advisories and audit logs for security events
- **AI workload monitoring:** track interface stats, PFC/ECN, and correlate with server, GPU, and storage telemetry
- **Network performance analysis:** visualize host and flow data, drops, latency, and traffic patterns

Business value

The integration of Cisco Nexus platforms with Splunk transforms data center operations by:

- **Simplifying telemetry management:** seamlessly onboard and visualize telemetry from across the stack, reducing complexity and time-to-insight
- **Enabling real-time and predictive monitoring:** leverage advanced dashboards and machine learning to detect and address issues before they impact operations
- **Enhancing compliance and cost efficiency:** analyze data locally to reduce cloud-storage costs and ensure data sovereignty for regulated environments
- **Driving operational resilience:** provide unified, actionable insights that empower teams to respond faster and more effectively to network and security events

© 2026 Cisco and/or its affiliates. All rights reserved.

Why it matters

In today's fast-paced digital landscape, organizations need tools that not only provide visibility but also deliver actionable intelligence to stay ahead of challenges. Cisco Nexus One and Splunk integrations enable businesses to achieve operational excellence, improve service reliability, and support strategic initiatives such as AI-driven workloads and hybrid-cloud adoption. By combining Cisco's industry-leading data center solutions with Splunk's powerful analytics capabilities, organizations can unlock the full potential of their data centers, ensuring they remain agile, secure, and future-ready.

For more information, contact your Cisco representative or visit cisco.com/go/nexusdashboard.

Use cases

Integration	Use case	Benefit
Cisco Data Center Networking App for Splunk	Anomaly and event monitoring	Rapid fault identification
Native Splunk for Nexus Dashboard	Accelerated root cause analysis	Reduce MTTR, ensure local compliance
Splunk ITSI Content Pack	Predictive analytics and incident response	Prevent outages, automate remediation

© 2026 Cisco and/or its affiliates. All rights reserved. Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: www.cisco.com/go/trademarks. Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)

C22-4767901-01 02/26