

AI-driven IT operations with Cisco Intersight

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Subtitle placeholder

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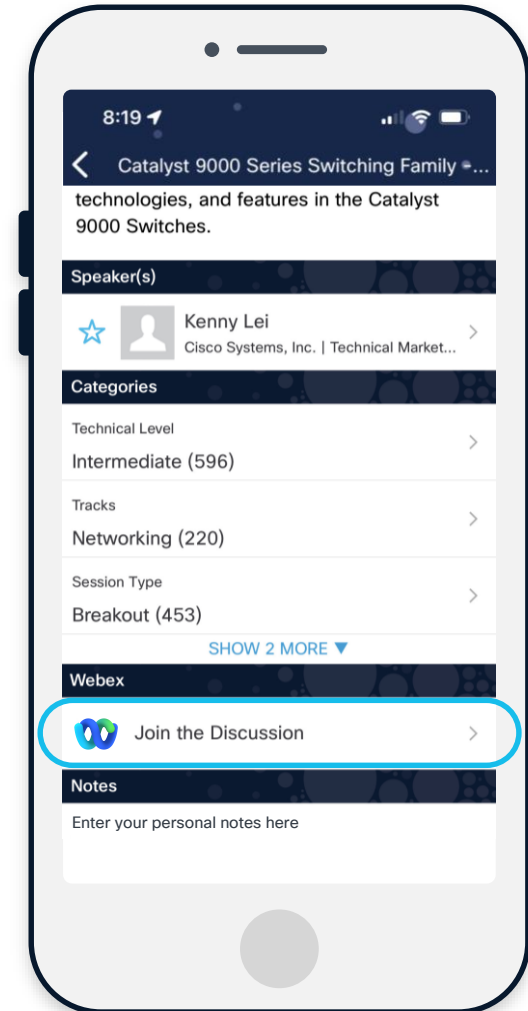
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Agenda

- 01 The rise of AI in IT operations
- 02 AI-driven capabilities in Intersight
- 03 Looking Forward
- 04 Demo

IT operations has become too complex for humans to keep up

258 days

Average time for security teams to identify and contain a data breach¹

\$380 billion

Global spend on edge computing market by 2028²

10x

The amount of power AI workloads can demand over traditional workloads³

90%

Percentage of organizations that will suffer a critical tech skills shortage by 2026

¹[TechTarget, Jan 2025](#) | ²[ComputerWeekly.com, March 2025](#) | ³[Data Center Frontier, March 2025](#) | ⁴[Computerworld, May 2024](#)

for IT vendors

AI capabilities are table stakes

The foundation: unified operations and intelligence

Unified operations

- SaaS-based platform
- Centralized operations and visibility

Unified intelligence

- Knows your infrastructure
- Collects telemetry/device data
- Contextual assistance tailored to your data center and edge infrastructure



Comprehensive infrastructure support



Cisco UCS

Configure, deploy, operate, and maintain C-Series and X-Series rack and blade servers, anytime and anywhere



Cisco converged infrastructure with UCS X-Series

See converged infrastructure inventory and incorporate into orchestrated workflows



Cisco Compute Hyperconverged with Nutanix

See and control your entire hyperconverged infrastructure fleet in one place—spanning clusters globally



AI-ready infrastructure

Cisco AI Pods: Deploy, monitor, and support AI inferencing solutions on-premises and at the edge

Intersight provides the most comprehensive set of infrastructure management capabilities for any UCS server form factor and most generations in one place.

Other vendors either provide less functionality, cannot cover their full server suite, or require you to use multiple tools.

AI-driven capabilities in Intersight

Deliver predictive insights

HCL alerts, contract status

Predict potential failures

Enriched topology view with network bandwidth/utilization

Give contextual alerts, enhance security

Custom field notices, security advisories

Self-heal

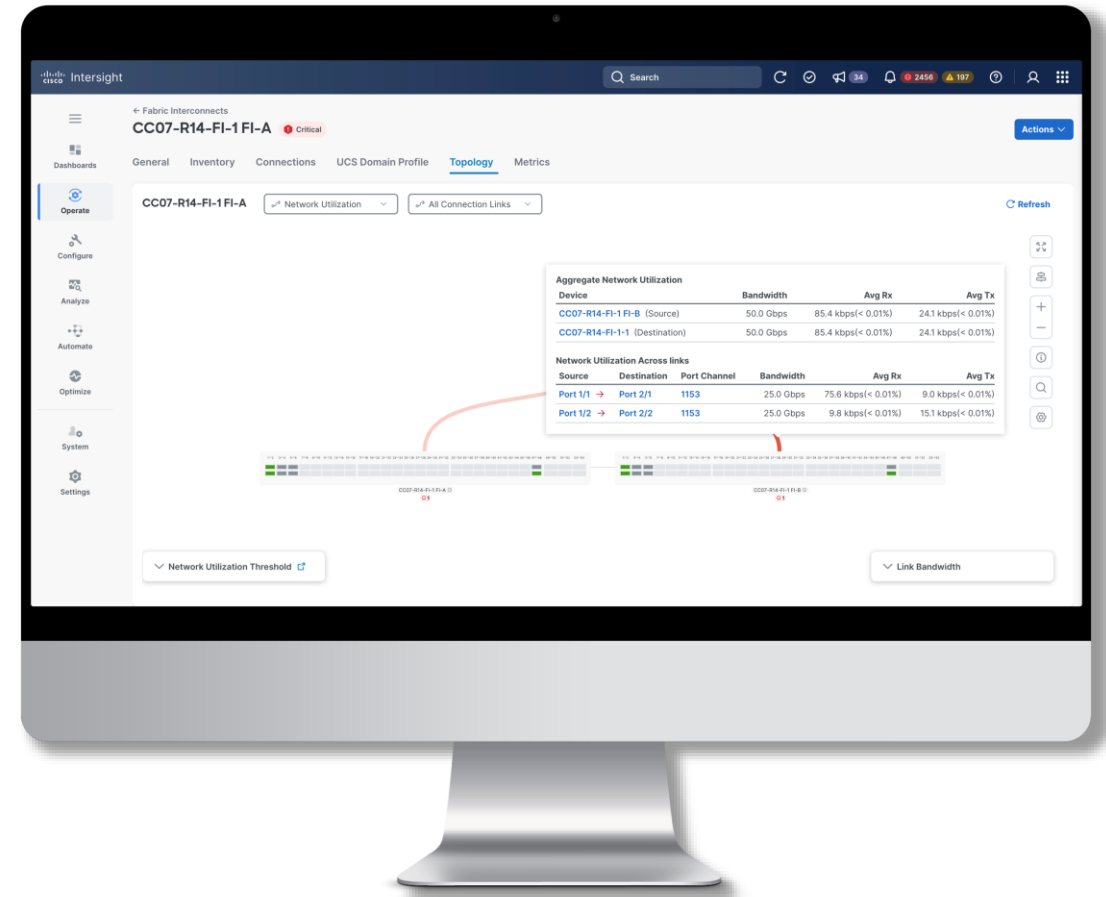
Proactive RMAs

Automate routine tasks

Automatic log collection, Connected TAC

Deliver real-time and historical metrics

Analyze performance, troubleshoot, forecast and budget



Cisco Intersight – Splunk integrations

Cisco Intersight Add-On for Splunk

Bring Intersight data into Splunk Enterprise/Splunk Cloud

Why Ingest Intersight Data into Splunk?

Enhanced Infrastructure Visibility

Combine Cisco Intersight's real-time infrastructure monitoring with Splunk Enterprise's log analytics and AI-driven insights.

Proactive Issue Detection

Leverage Splunk's predictive analytics to identify potential issues in Cisco Intersight-managed infrastructure, enabling proactive remediation.

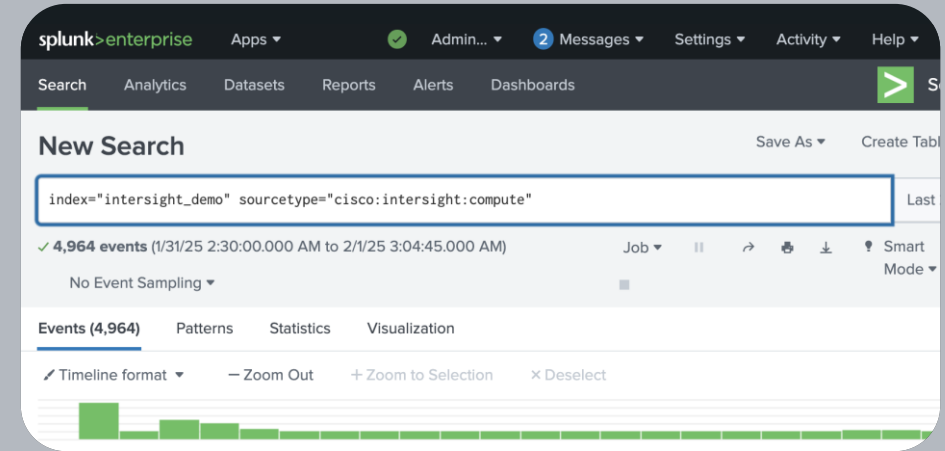
Optimized IT Operations

Unify data from Compute and other platforms to gain a comprehensive understanding of IT operations, driving informed decision-making and improved mean time to resolution (MTTR).

Security and Compliance

Strengthen security posture by integrating Cisco Intersight's infrastructure insights with Splunk Enterprise's advanced threat detection and compliance monitoring.

*** The Only X86-Server integration available on Splunkbase



splunk>

Cisco Intersight
Add-On for Splunk



inventory



alarms



Audit rec

Rest API

Intersight SaaS



Intersight Appliance



Cisco UCS Servers, Fabric Interconnects, Chassis

IMM, UMM, ISM modes. SaaS, CVA/PVA form factors

Key features

01

UCS/Profiles Inventory

Alarms, Advisories, Audit

Alarms checkpointing to
avoid/minimize the duplicate events

03

Multiple Intersight Accounts

02

OAuth token-based authentication

Token expiry notifications

04

Supported Metrics:

Temperature, Power, Fan speed

Network Bandwidth, TX/RX bytes

Rx CRC, Memory Errors

05

Pre-built panels

[Server Profile Status](#)

Profile Name, Assigned Server, State,
and reason for Failed State.

[Server Alert status](#)

Dashboard panel that shows servers with active
Alarms and the count of each Alarm severity

[Unused Server Slots](#)

Dashboard panel that shows the number
of unused server-slots of X-series Chassis per UCS
domain

[Metrics Panels](#)

- ✓ CRC Errors
- ✓ Correctable ECC errors
- ✓ Uncorrectable ECC errors

Looking Forward: AI assisted Operations

Less firefighting, more strategic work!

Unlock smarter, faster operations with AI-powered insights



Smart Suppression

Automatically detect actions and suggests suppressing alarms, streamlining workflows.



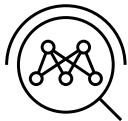
Intersight Assisted Operations

Enables faster, data-driven decisions by filtering noise and spotlighting critical issues. It speeds up root cause analysis, predicts outages, and reduces manual effort through automation.



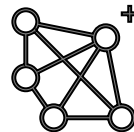
Sustainability Insights

Correlate server workload utilization with power consumption to provide actionable power saving insights.



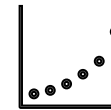
Correlation and Clustering of Alarms

Reduce alarm noise and accelerate troubleshooting by intelligently clustering correlated alarms.



Enriched Topology with Timeline of Events and Anomaly Detection

Enable customers to view (and replay) the historical topology view, overlaying major events that affect the physical devices.



Predictive Forecasting

Proactively prevent issues with forecast-based alarms.

Looking Forward: Intersight AI Assistant

What you are telling us



Data center executives

Balance cost and value by leveraging GenAI-native and hybrid approaches to improve business outcomes like employee productivity and customer satisfaction

Unlock CX and efficiency gains by investing in the latest GenAI technology, driving better business outcomes.

Invest in vendors with **re-usable conversational AI capabilities** that can support multiple future use cases.



Infrastructure and operations managers

Cisco authorized help tool to access **latest reliable documentation** and provide contextual assistance tailored to our Infrastructure environment

Access to Infrastructure Health check summaries and subsequent remediation, while automating my team's **repetitive tasks** around building workflows

Dialogue management capabilities to facilitate Natural Language Understanding (NLU) and leverage Cisco CVDs to build Smart solutions on our Infrastructure using **Natural Language queries**

Use cases

of Intersight's GenAI-powered AI Assistant

Security insights & recommendations

Monitor contract status
and renew contract

Guided configuration based on
customer infrastructure

Ingest documentation and community
knowledge on Cisco websites

Health check summary and
subsequent remediation

Track lifecycle of TAC cases

Contextual assistance tailored to
user's environment

Demo

Fabric Interconnects

dd4t1 FI-A Critical

Dashboards

Operate

Configure

Analyze

Automate

Service Catalog

Optimize

System

Settings

General Inventory Connections UCS Domain Profile Topology Metrics

Details

Health

Critical

Name

dd4t1 FI-A

Peer Switch

dd4t1 FI-B

User Label

-

UCS Domain Profile

dd4t1-dp

UCS Domain Profile Status

OK

Model

UCS-FI-64108

Serial

FDO23360Y9J

Management IP

10.193.205.81

Mode

Intersight

Bundle Version

-

NX-OS Version

9.3(5)I43(4a.149)

Contract Coverage

Properties

Cisco UCS-FI-64108

Front Rear



Locator LED

OffHealth Overlay

Mode

Ethernet Switching Mode
end-host

Access

IP Address
10.193.205.81FC Switching Mode
end-hostSubnet Mask
255.255.255.0Admin Evacuation Mode
DisabledDefault Gateway
10.193.205.254Operational Evacuation M...
DisabledMAC
00:3A:9C:A5:9C:90

VLAN Details

VLAN Port Limit
108000

FC Zone Count

FC Zone Limit
-Access VLAN Port Count
22FC User Zone Limit
-Border VLAN Port Count
352FC Zone Count
-Compressed Optimization...
3FC User Zone Count
-

Compressed VLAN Port ...

-

Events

Alarms

3 7 4

Active

Acknowledged

Severity

All

EtherPortLinkDown

Feb 27, 2025 11:25 PM

Port dd4t1/switch-A/slot-1/ethport-68 is link-down due to Link failure or not-connected

EtherPortLinkDown

Feb 27, 2025 10:43 PM

Port dd4t1/switch-A/slot-1/ethport-17 is link-down due to Link failure or not-connected

EtherPortLinkDown

Feb 13, 2025 7:58 PM

Port dd4t1/switch-A/slot-1/ethport-103 is link-down due to Link failure or not-connected

EtherPortLinkDown

Feb 13, 2025 7:58 PM

Port dd4t1/switch-A/slot-1/ethport-65 is link-down due to Link failure or not-connected

EtherPortLinkDown

Feb 13, 2025 7:58 PM

Port dd4t1/switch-A/slot-1/ethport-66 is link-down due to Link failure or not-connected

EtherPortLinkDown

AI Assistant

AI Assistant

I found details about the fabric interconnects in San Jose. Below is a summary of the fabric interconnects, including their models, serial numbers, total Ethernet ports, available ports, and the number of chassis currently used.

Name	Model	Serial	Total Ethernet Ports	Available Ports	Used Chassis Count
dd4t1 FI-A	UCS-FI-64108	FDO23360Y9J	108	76	1
dd4t1 FI-B	UCS-FI-64108	FDO23250C3H	108	79	1
hh19 FI-B	UCS-FI-6454	FDO21301Y3Z	50	32	1
hh19 FI-A	UCS-FI-6454	FDO21301Y22	46	28	1

Conclusion

Based on the available ports and current usage, the domain **dd4t1** with fabric interconnects **FI-A** and **FI-B** is recommended for adding a new chassis in San Jose. This domain has the highest number of available ports, ensuring sufficient capacity for the new addition.

Ask the AI Assistant a question

[View User Guide](#) to learn more.



y ⓘ



04

Total

Series

- B 55
- X 28
- C 21

17

Standalone

87

Managed

atus Summary ⓘ



55

Incomplete



2

Validated



2

Not Evaluat...

AI Assistant



● You

How do I view server metrics?

●● Generating

Takeaways



Current Intersight users
**Get involved on new
AI-driven capabilities**



New Intersight users
**Buy and/or activate
your license/s**



UMM users
**Plan your migration
to IMM now**

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Powering the AI-Ready Data Center: Secure, Scalable Infrastructure to Accelerate Innovation

Join Tom Gillis and top Cisco minds to learn about new innovations reshaping today's data center to meet new AI workload demand.

Live customer panel featuring executives from Dakota State University and Groq. Don't miss it!

KDDDCN-1001*

Wednesday, June 11 | 2:30 – 3:30pm
Upper Level, Ballroom 20 BC
San Diego Convention Center



Tom Gillis
SVP and General Manager
Infrastructure & Security
Cisco



*Eight lucky attendees will win an Apple Watch. Must be present to win!

Thank you

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