cisco Engage

The New Nexus Dashboard: Unified. Streamlined. Modernized.

Shaw Phillips, Technical Marketing Engineer

December 2025

Unified Cisco Data Center Networking

Unified Architecture

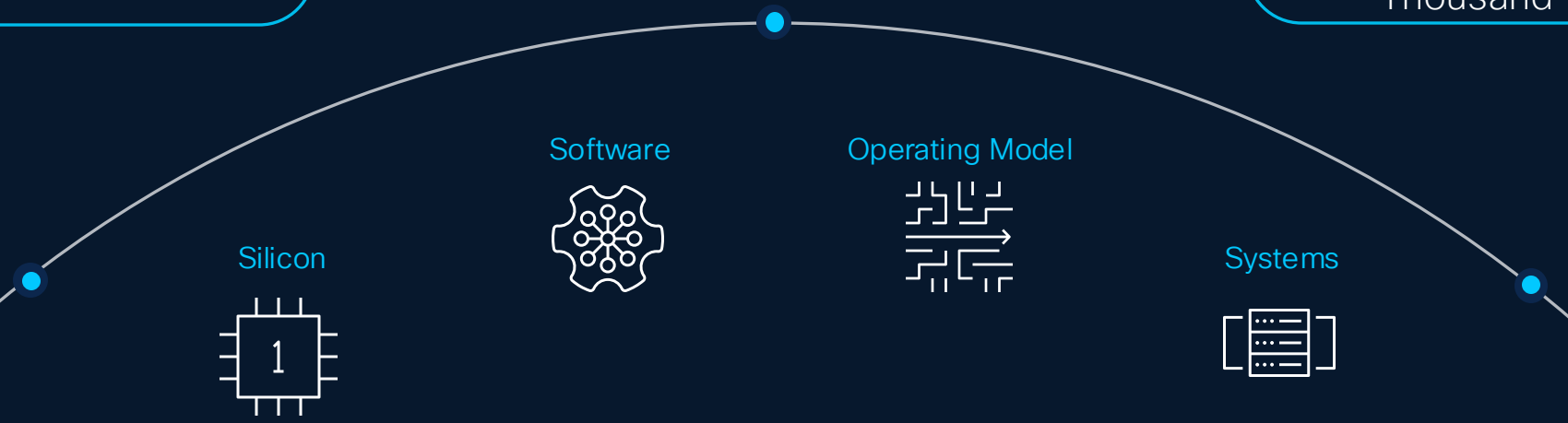
- Nexus One
- Powering AI/ML Fabrics

Unified Operations

- Nexus Dashboard

Unified Intelligence

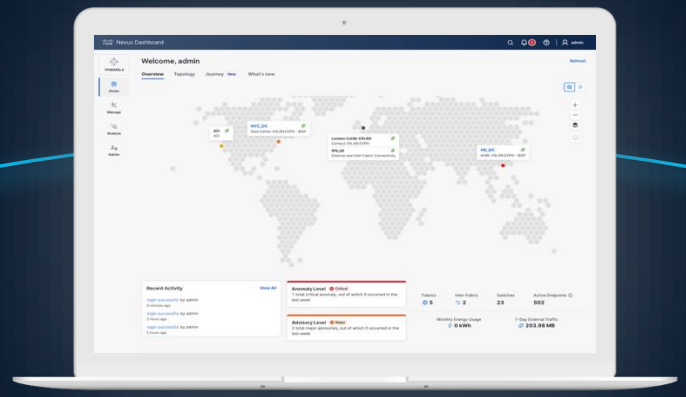
- Nexus Dashboard
- Data Broker, Splunk, Thousand Eyes



Cisco Nexus Data Center Switching

Cisco Data Center Networking

Simple, secure, and sustainable



All Managed by Cisco Nexus Dashboard

Highly Secure Encryption
With end-to-end Segmentation

Flexible Fabric Deployments
Cisco ACI, NX-OS, SAN & Data Broker

Unparalleled Network Visibility
Within Nexus Dashboard

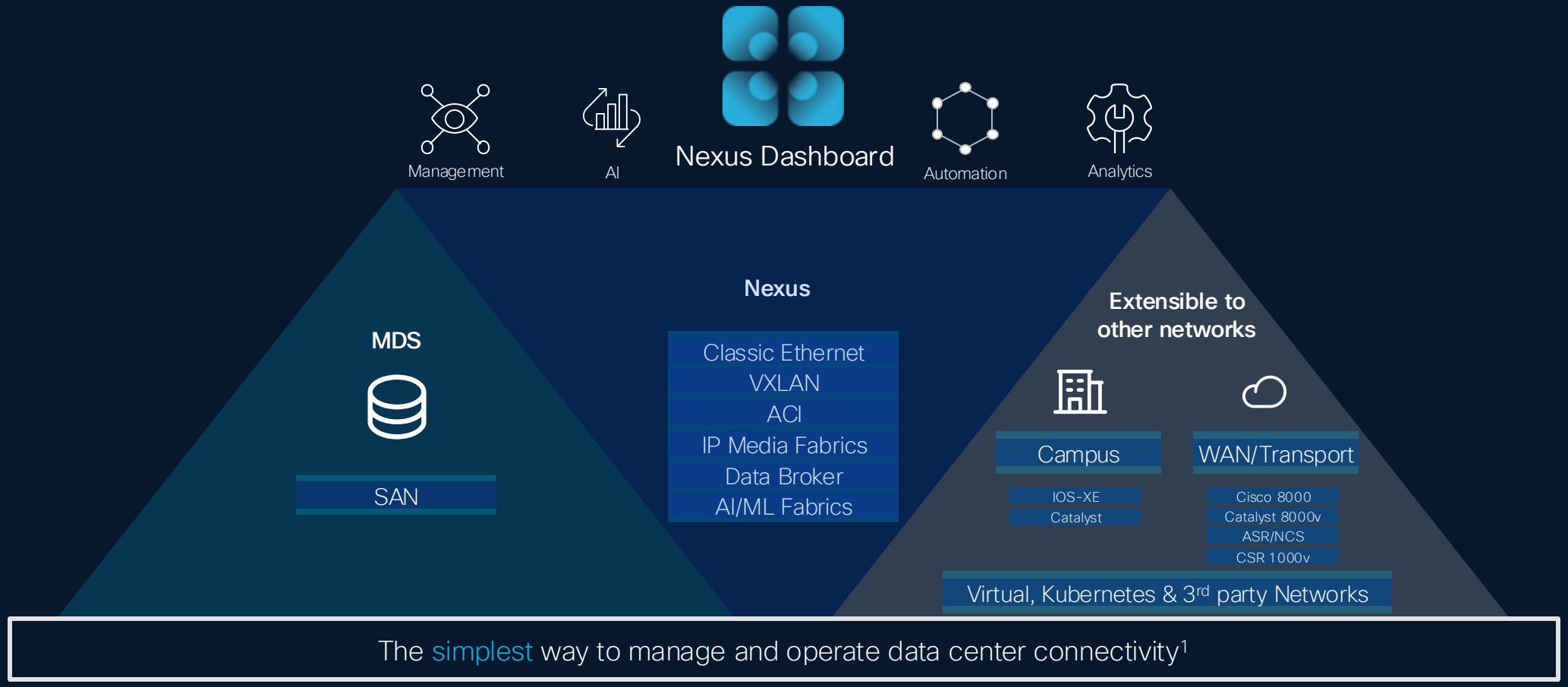
Enabling AI/ML workloads
With reduction in power utilization

Simple

Secure

Sustainable

Cisco Nexus Dashboard



The simplest way to manage and operate data center connectivity[1]

Included with every Nexus switch license [2]

[1] Capabilities may vary by switch model

[2] Applies to Nexus Dashboard Virtual Appliance. Nexus Dashboard physical appliance or cloud instance cost is not included

Introducing Nexus One

SOLUTION OUTCOMES

Zero-trust networking and micro-segmentation based on security groups

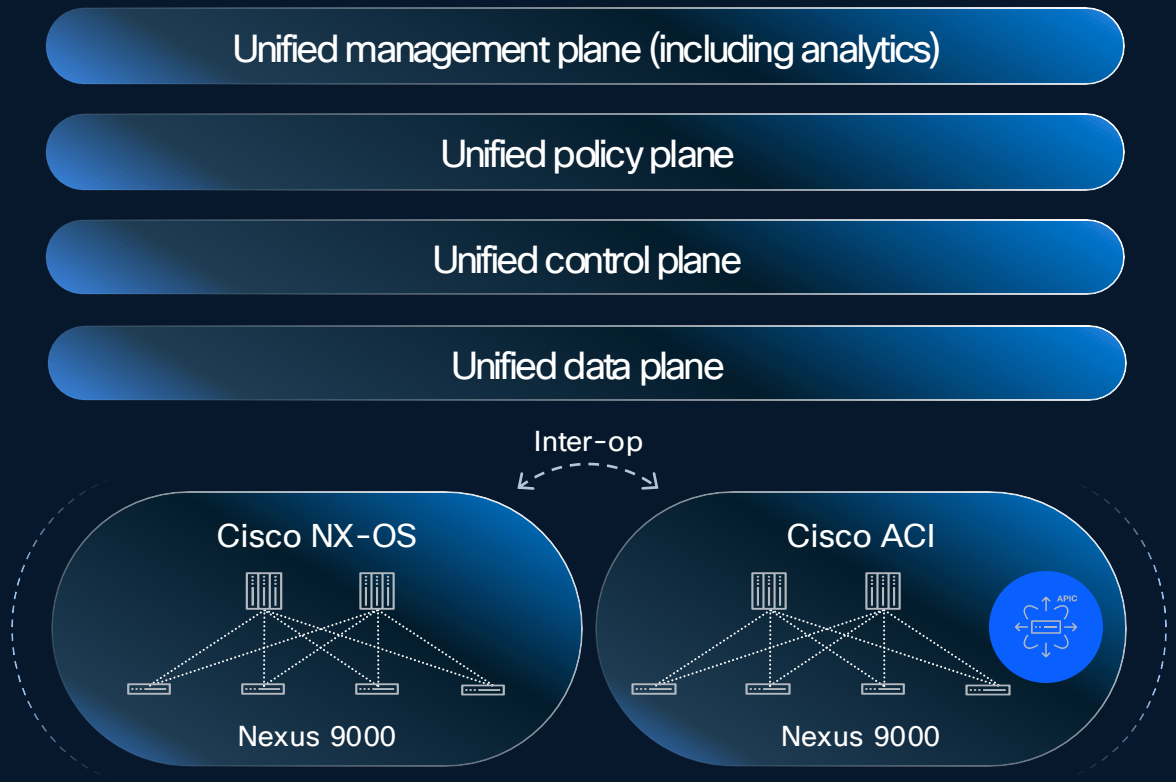
Advanced service chaining and service redirection

Standards based inter-operability with third-party networks

DevOps-ready APIs, Integration with CI/CD pipelines

Administrative multi-tenancy

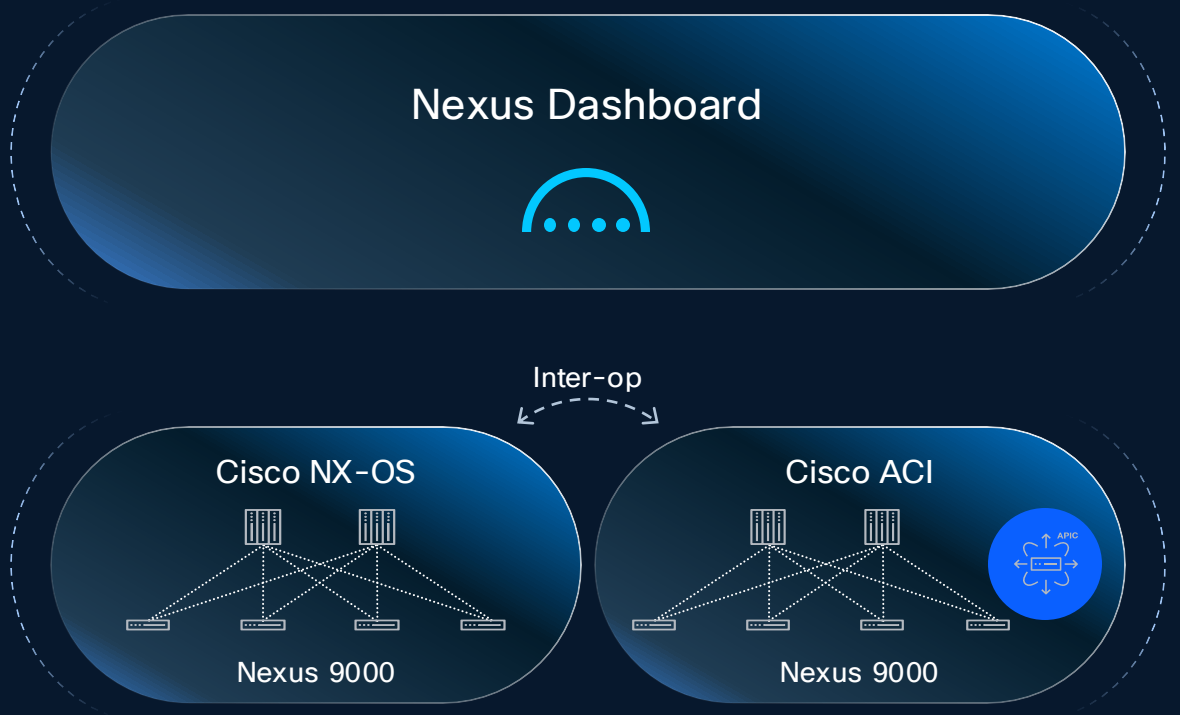
VM & container integrations



Flexibility of deploying either NX-OS or ACI and drive consistent fabric outcomes

Cisco Nexus Dashboard

Unified Management Plane for Nexus One



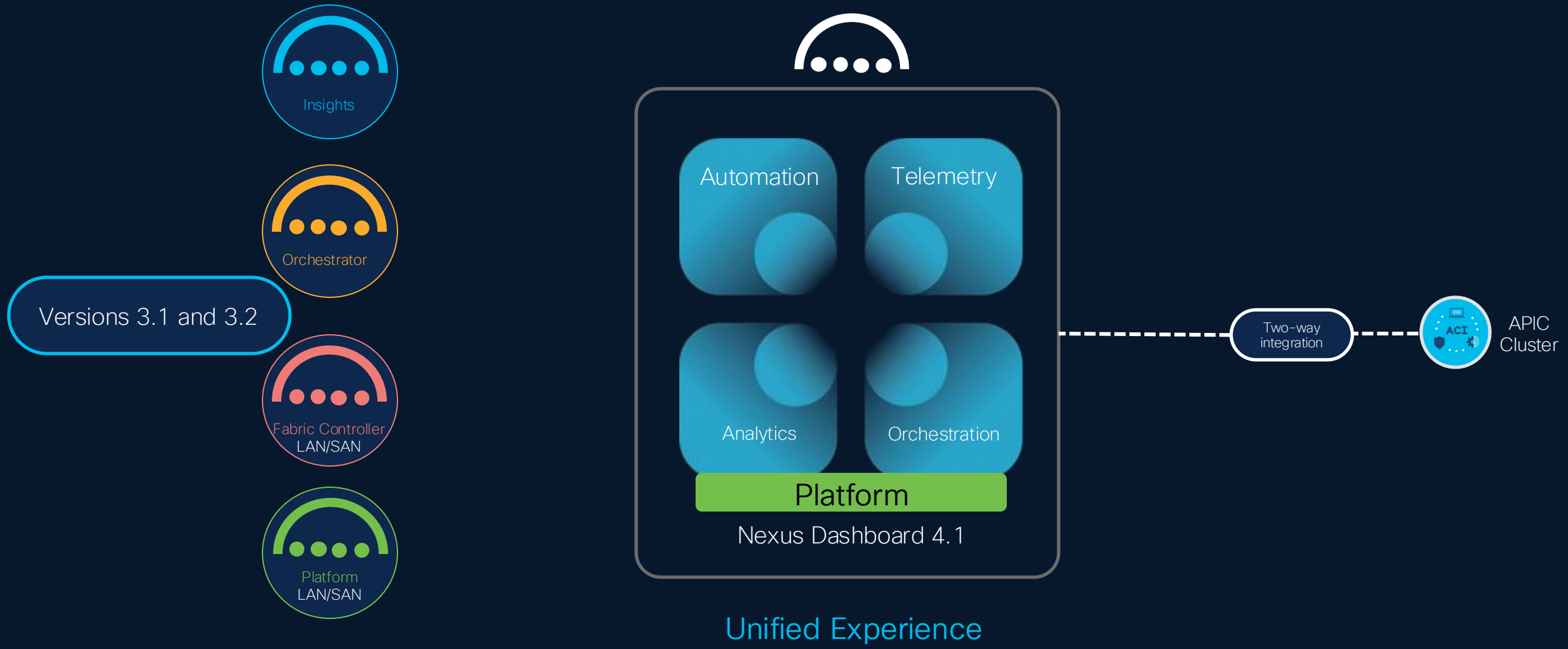
Reimagined

Redefined

Rebuilt

with Nexus Dashboard 4

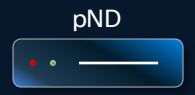
Unify your operational experience



Unified Experience

Cisco Nexus Dashboard 4.1 - Scale

1 Node (Non-prod)



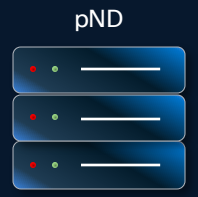
50 Switches
1,000 Flows/s
10,000 Conversations/min

25 Switches
500 Flows/s
3000 Conversations/min

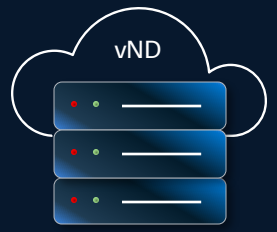
ESXi

KVM

3 Node



500 Switches
10,000 Flows/s
100,000 Conversations/min

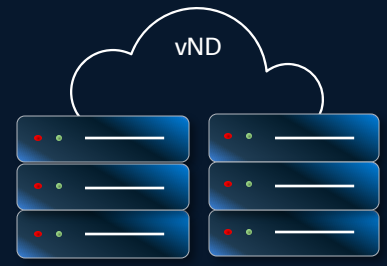


100 Switches
2,500 Flows/s
5,000 Conversations/min

ESXi

KVM

6 Node



200 Switches
5,000 Flows/s
10,000 Conversations/min

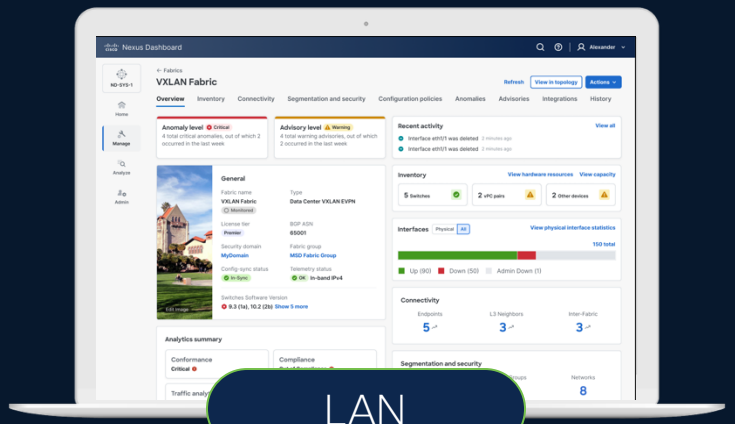
ESXi

* These figures are for the M8 Platform, for full scale reference visit
https://www.cisco.com/c/dam/en/us/td/docs/dcn/tools/nd-sizing/index.html

Provision and Manage

Cisco Nexus Dashboard

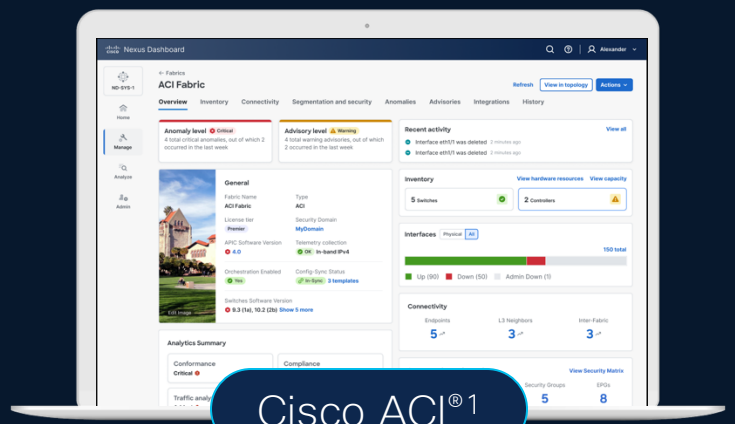
Main Fabric Categories



LAN

Zero-Touch classic, VXLAN, IPFM, Data Broker, AI/ML Networks & more

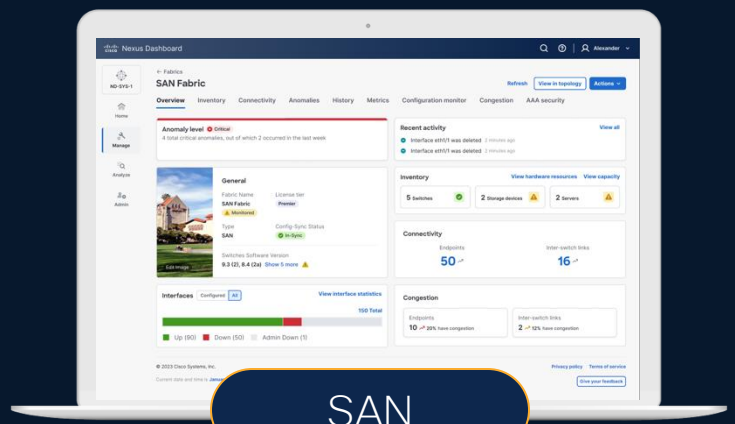
Nexus® 9000, Cisco Catalyst® 9000, IOS-XR and third party



Cisco ACI®[1]

Zero-Touch VXLAN network with policy-oriented model

Nexus 9000



SAN

Zero-Touch customizable templates and Smart Zoning

Cisco MDS 9000

Consistent operational experience

Open APIs
with Ansible, Terraform

Operate multiple switches as one logical unit

[1] Requires external APIC cluster

Cisco Nexus Dashboard

LAN Fabrics

Classic
2- or 3-tier NX-OS architectures

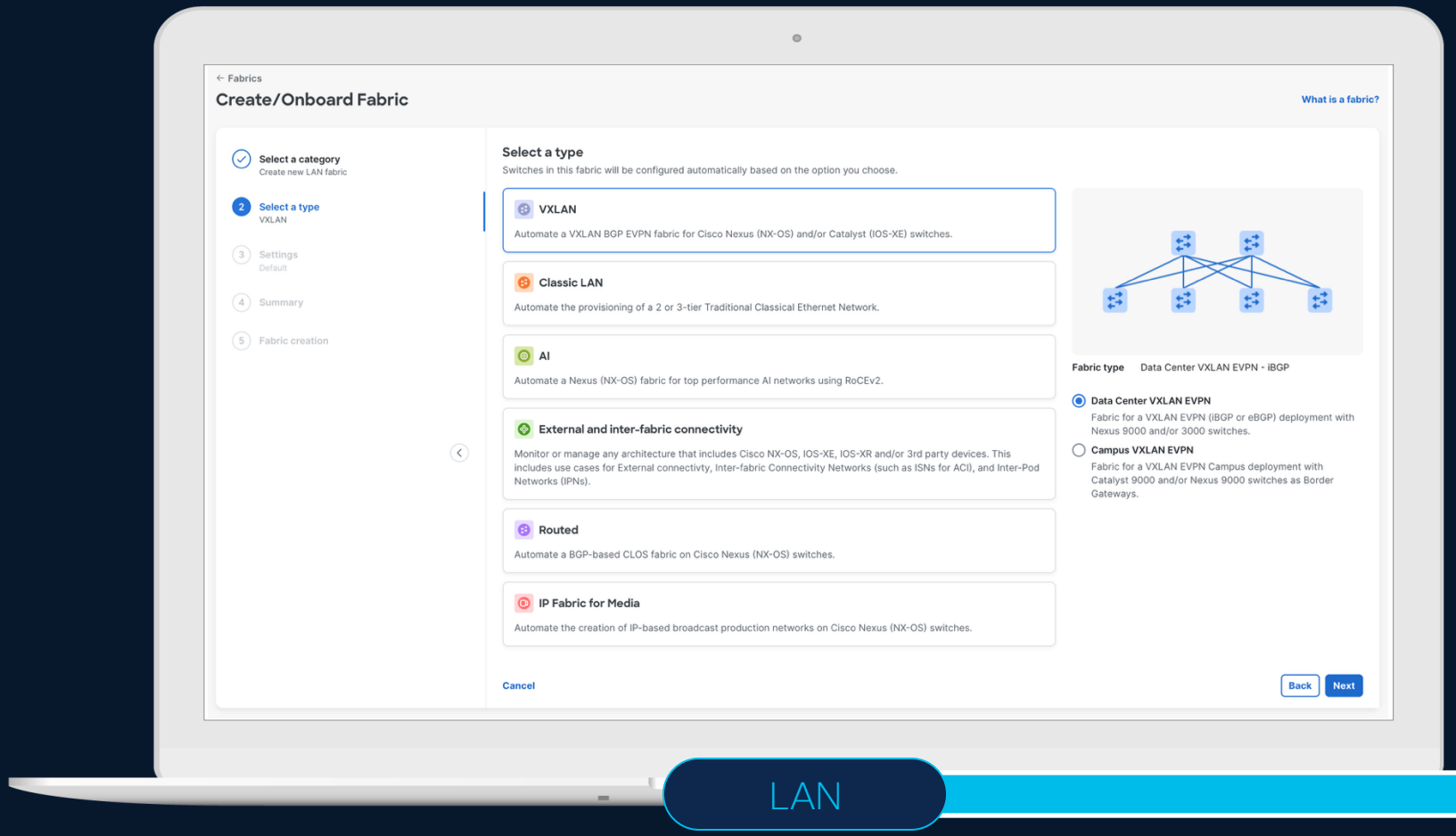
VXLAN
BGP EVPN fabrics for Nexus & Catalyst (IOS XE)

AI
Fine-tuned network provisioning to transport AI/ML apps with the best performance

External and Inter-Fabric Networks
NX-OS, IOS XE, XR, third-party networks mainly used to interconnect ACI, NX-OS, and Campus

IP Fabric for Media
Fine-tuned network provisioning and monitoring for broadcasting and media

Routed
BGP-based CLOS NX-OS fabrics



LAN

Analyze

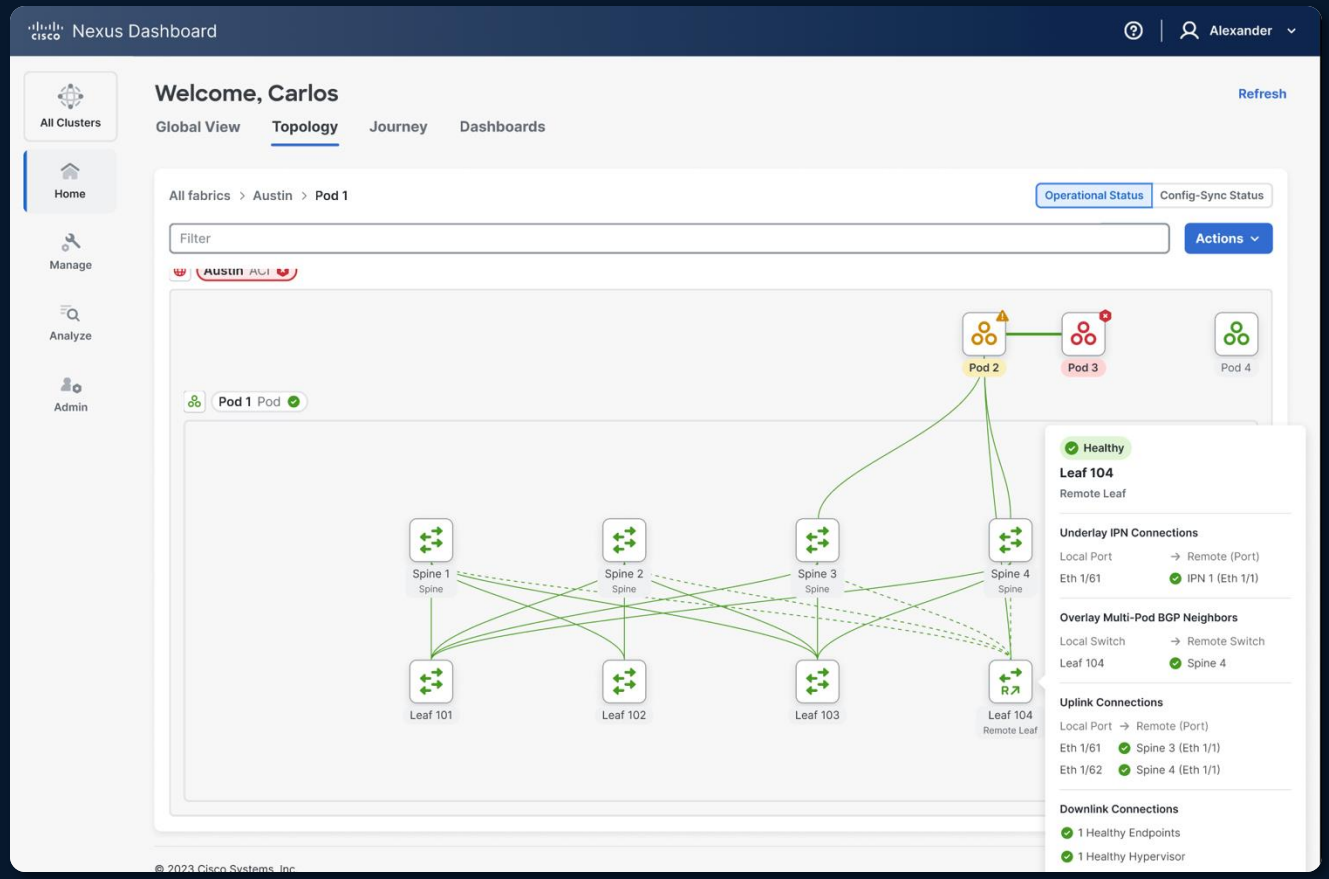
Cisco Nexus Dashboard - Analyze

Topology - Maintain visibility across fabrics

Updated topology
View fabrics, switches, interfaces, and endpoints with their corresponding anomaly scores

Visualize and configure
Verify health and configuration-sync status, configure VPC pairs, assign roles, and more

Single and multi-fabric
Drill down into a fabric or visualize connections across fabrics, including external and inter-fabric networks such as IPN and ISN



Benefits

Visualize all your fabrics

Cisco Nexus Dashboard - Analyze

Custom Dashboards – Monitor key metrics

Custom widgets

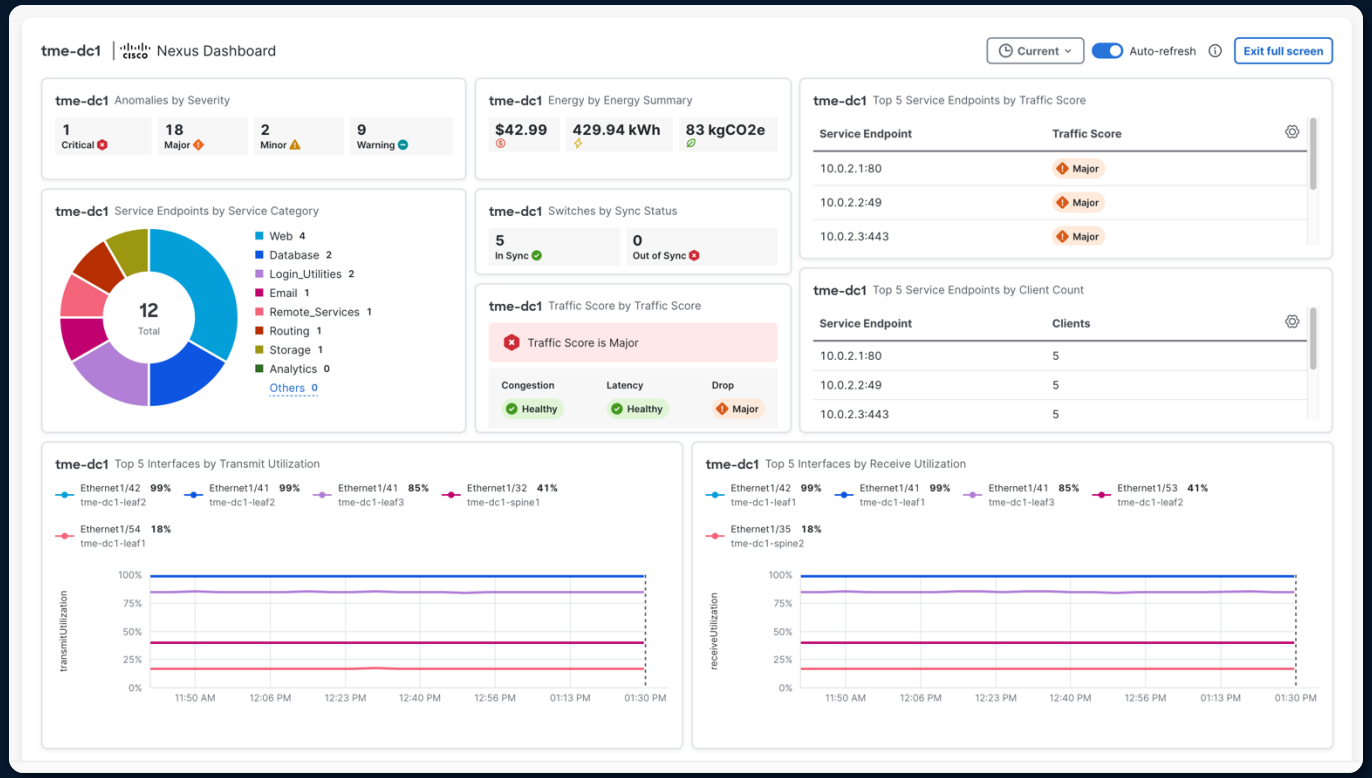
Choose your most relevant data sources—anomalies, traffic analytics, energy usage, utilization and more

Single pane view

Monitor relevant statistics across multiple fabrics, switches, interfaces, and endpoints from a single page

Real-time and historical data

Get live updates to your fabrics or track changes over time



Benefits

One-stop wholistic monitoring

Cisco Nexus Dashboard - Analyze

Energy Management - Achieve net-zero goals faster

Cost

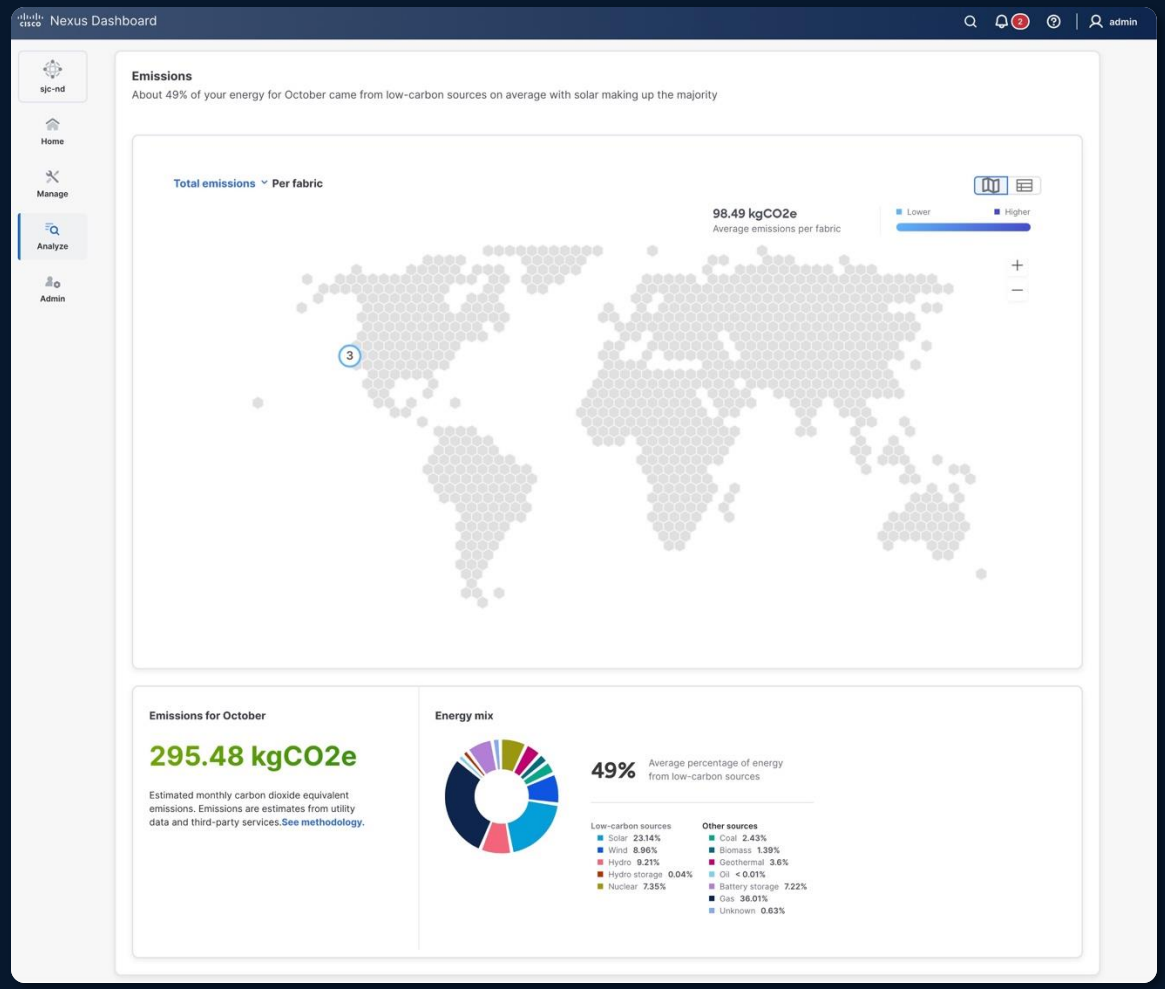
Learn about associated energy costs each month and compare them against previous ones; customize your own negotiated rates

Energy consumption

Switch and PDU (Panduit) power consumption gives you insight into peaks and how efficiently your switches are using electricity

CO2 emissions[1]

Understand the energy sources your data center networks use, visualize the top contributing devices, and compare against previous months



[1] Requires connectivity to Intersight

Benefits

Sustainability | Cost Awareness

Cisco Nexus Dashboard - Analyze

Traffic Analytics - Identify latency, congestion, and drops in your network

Automatically identify services in your network

Through well-known L4 ports (e.g., Web - TCP port 80) pre-loaded service categories are learned and monitored; category customization is also allowed based on your own preferences

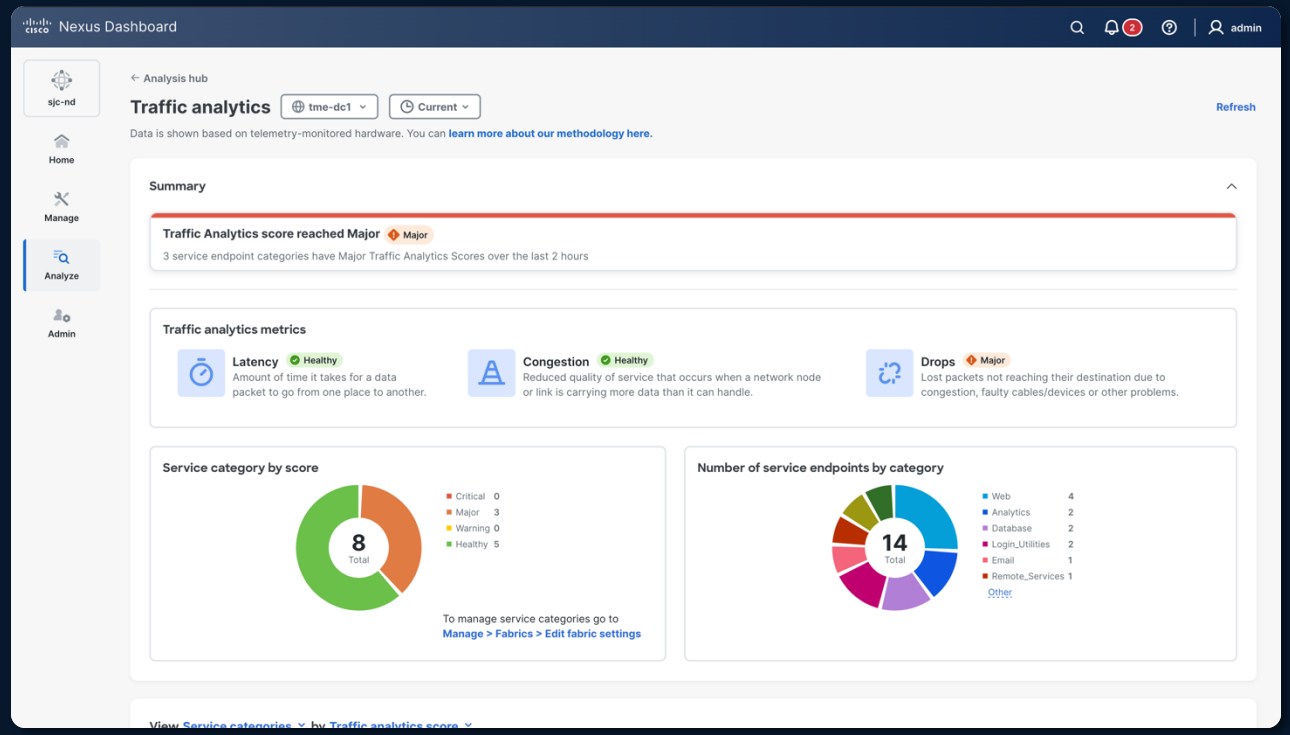
Pervasive across switches and fabrics

Learn about clients and services connecting across multiple fabrics without rules or any additional rule configuration

Granular visibility for every connection

From overall fabric score to category, service, and connection, Traffic Analytics can monitor individual client-to-service sessions and allows you to “tap-in” by capturing flow records on demand

Requires: ACI - 6.1.1 and NX-OS 10.4(2F) + PTP



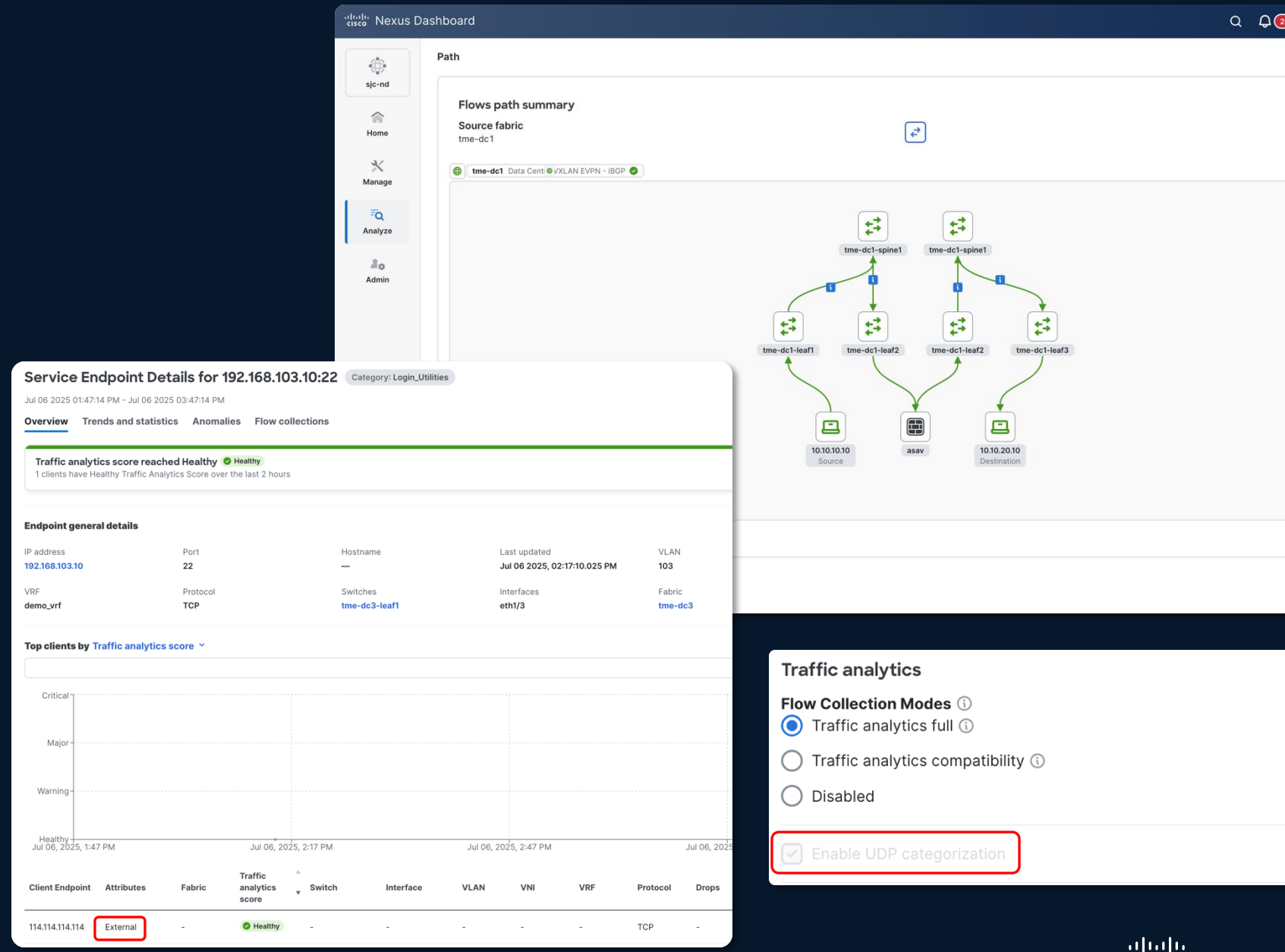
Benefits

Detect performance issues | Customize monitored services

Traffic Analytics

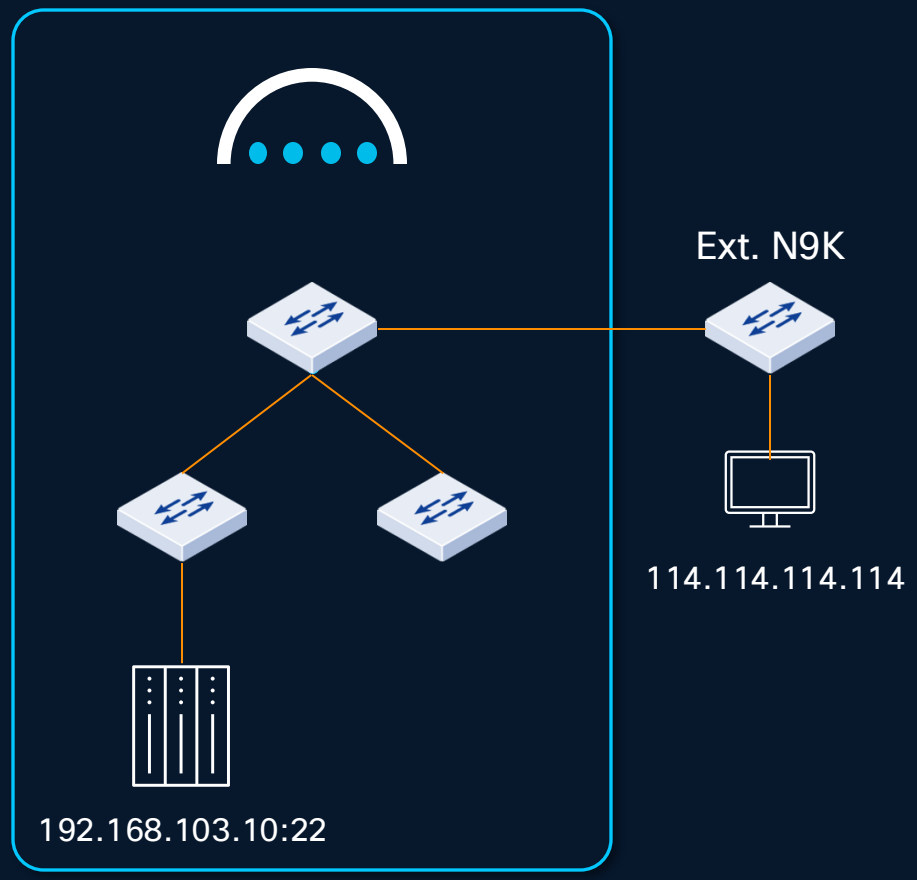
New features in 4.1

- Support for N/S Traffic
- Service Identification for UDP
- Support for L4-L7 Service



Traffic Analytics

North/South Flows



Endpoint general details

IP address	Port	Hostname	Last updated
192.168.103.10	22	—	Jul 06 2025, 04:47

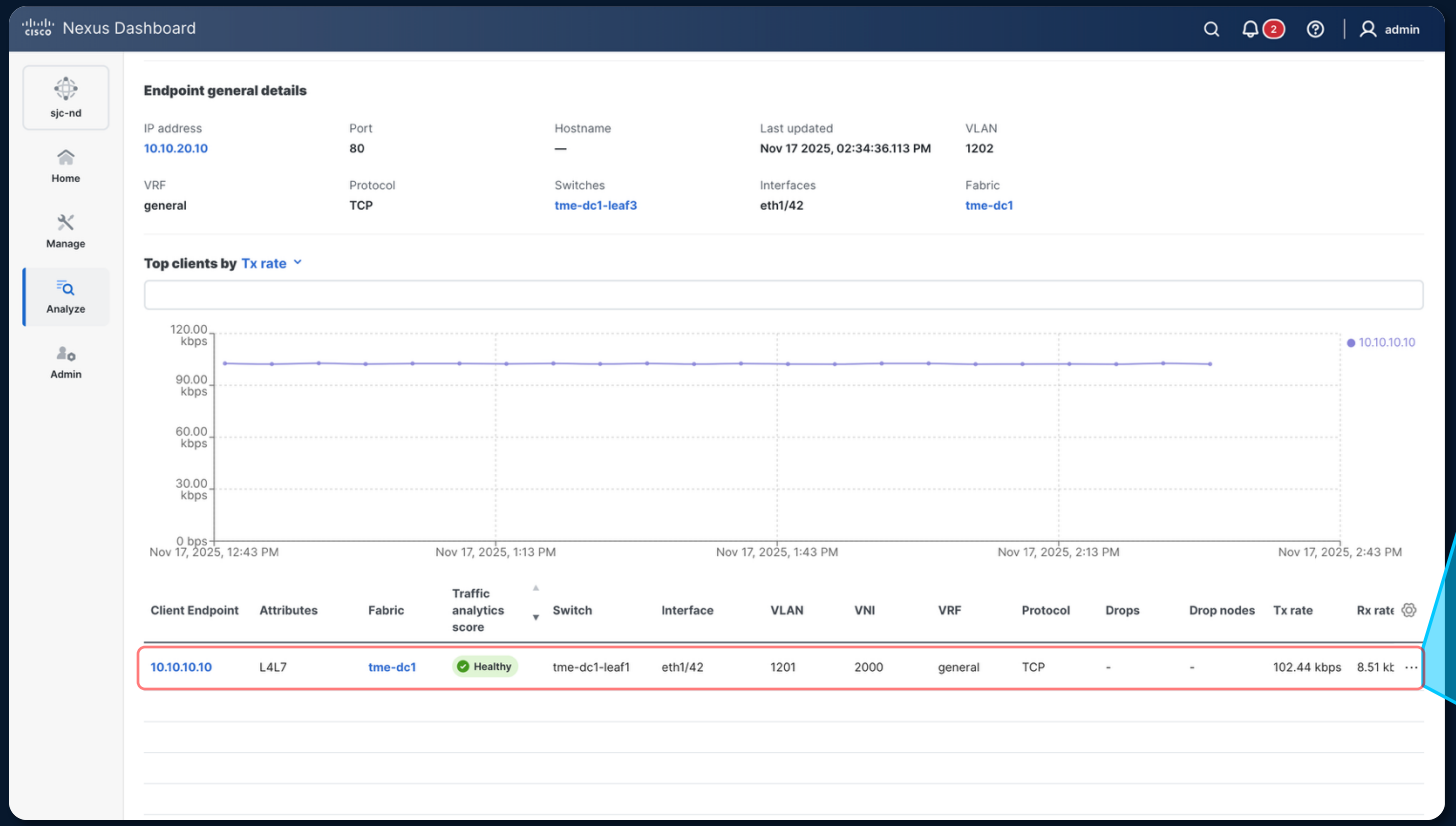
VRF	Protocol	Switches	Interfaces
demo_vrf	TCP	tme-dc3-leaf1	eth1/3

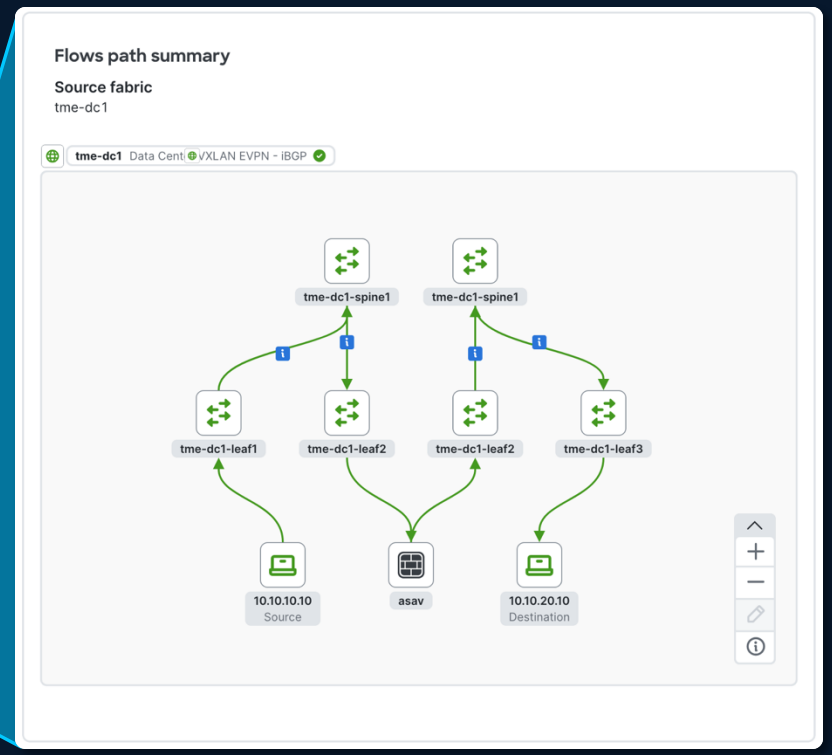
Top clients by Traffic analytics score

Client Endpoint	Attributes	Fabric	Traffic analytics score	Switch	Interface	VLAN	VI
114.114.114.114	External	-	Healthy	-	-	-	-

Traffic Analytics

L4-L7 Flows





Cisco Nexus Dashboard - Analyze

Connectivity Analysis - View transit and analyze issues

Evolve from traceroute

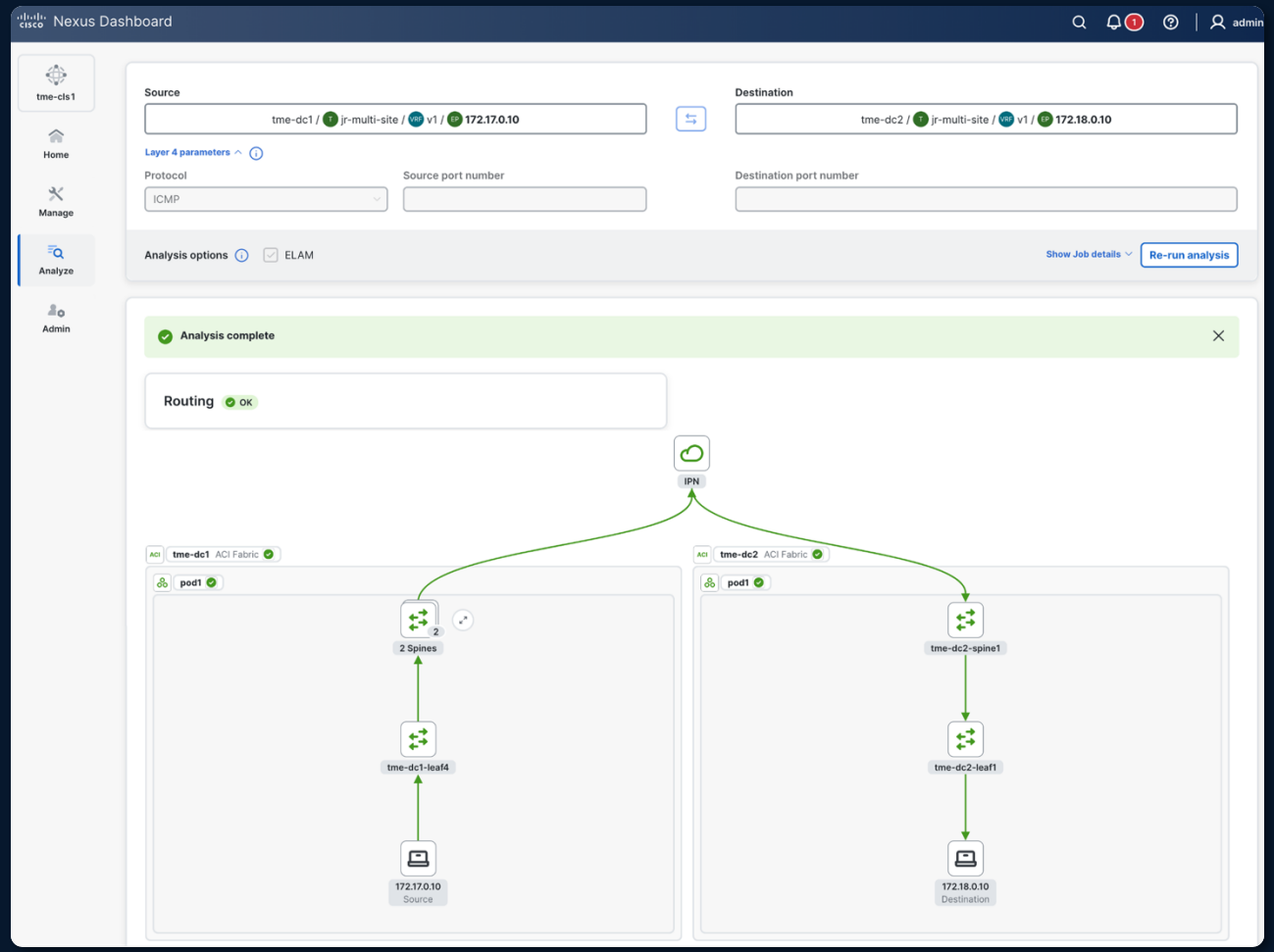
Add a source and destination IP or MAC address and let Nexus Dashboard do the rest; optionally add L4 ports to be more specific

Increased visibility

Add forwarding (ELAM and OAM), consistency checks and routing verification

Single and multi-fabric

Visualize the whole path even when endpoints communicate through different Nexus Dashboard-managed fabrics

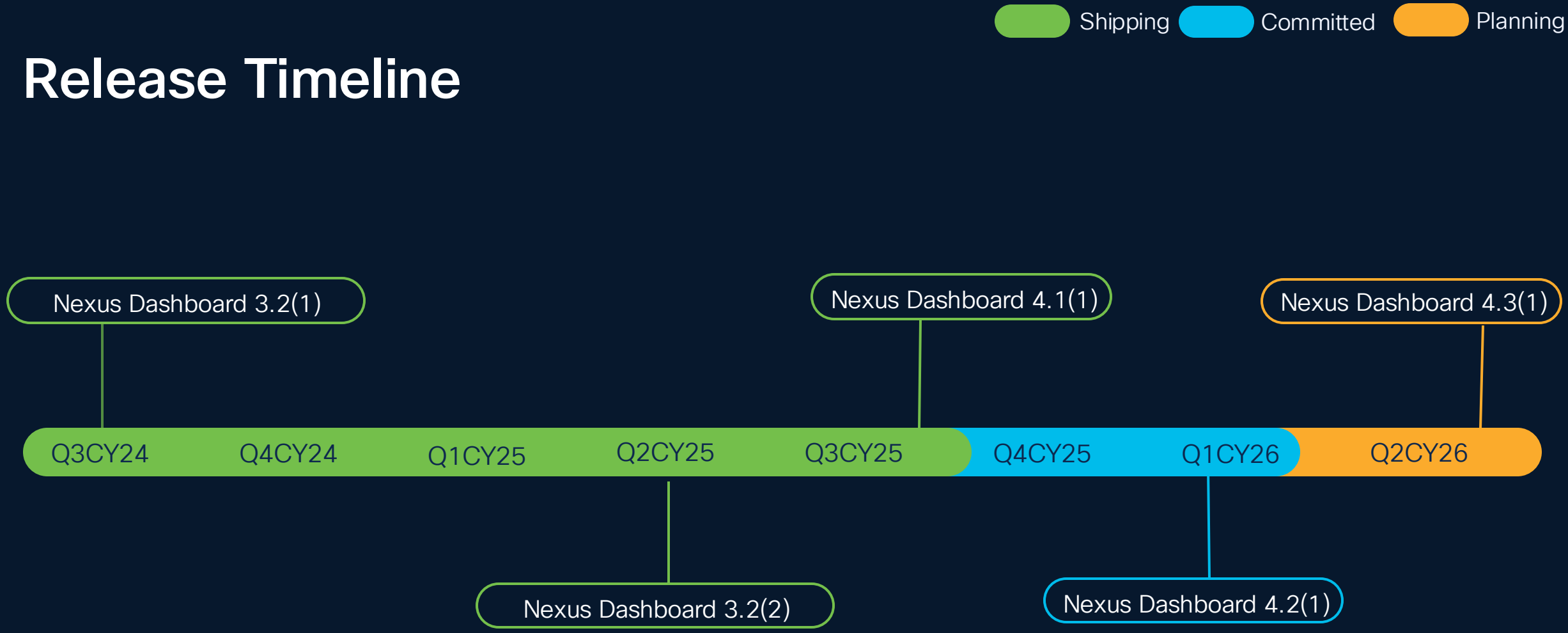


Benefits

Learn about in-transit issues | Avoid isolated troubleshooting

Demo!

Release Timeline



Roadmap

Nexus Dashboard 4.2 — Q1CY26

Platform

- Certifications (Korean SVS)
- Fabric Designer
- Administrative Multi-Tenancy
- UCS M8 Appliance (Burly)
- vND on Nutanix
- SNMP Export of Anomalies

Analytics, Troubleshooting and Visibility

- Traffic Analytics Transit L3
- ESG/GPO Support for Explorer, TA & CA
- Catalyst Telemetry Support
- Connectivity Analysis for L4-L7
- uSeg with PBR Assurance
- Real-time telemetry (ACI)
- ND-Embedded Splunk Analytics
- AI/ML Enhancements:
  - identifying performance degradation (packet drops, CRC, optics)
  - Topology with GPU servers
- Enhanced Anomaly Rules

Scale and performance

- 6 node M6 (all services) 500 Switches
- New 3-node M8 ‘Burly’ Cluster, 1000 switches
- Federation scale 4000 Switches, 12 Clusters

Automation and Orchestration

- Inter-fabric connectivity between ACI and NX-OS fabrics
- Smart switch with Hypershield support for Top of Rack Use Case
- Brownfield ToR Support
- Catalyst 8K Image Management
- Fabric Software Image Management Improvements
- Inband Plug and Play for Cat9k