

CISCO *Live!*



#CiscoLive



The bridge to possible

Automate your Network with Cisco Nexus Dashboard Fabric Controller

Akshaya Premkumar
Product Manager, NDFC
PSODCN-2356



#CiscoLive

Cisco Webex App

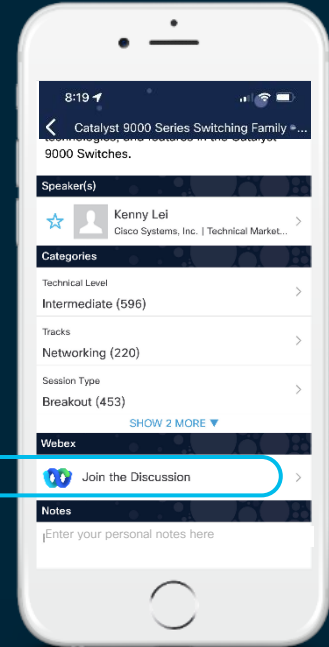
Questions?

Use Cisco Webex App to chat with the speaker after the session

How

- 1 Find this session in the Cisco Live Mobile App
- 2 Click “Join the Discussion”
- 3 Install the Webex App or go directly to the Webex space
- 4 Enter messages/questions in the Webex space

Webex spaces will be moderated by the speaker until June 17, 2022.



<https://cislive.ciscoevents.com/cislivebot/#PSODCN-2356>



Agenda

- Introduction
- NDFC Overview
- Automation with NDFC
- Streamlined Management
- Visibility and Monitoring
- Q&A with Matthew Taylor from NterOne

The new normal is a hyper-distributed, extremely diverse IT landscape



Cisco Nexus Dashboard Fabric Controller

Cisco Data Center Network Manager

Has become Cisco Nexus Dashboard Fabric Controller (NDFC)

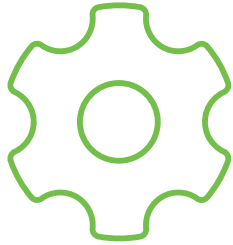


Cisco Data Center
Network Manager



Cisco Nexus
Dashboard
Fabric Controller

Cisco NDFC



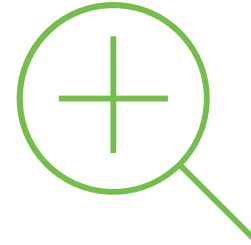
Automation

Accelerate provisioning
and simplify deployments



Management

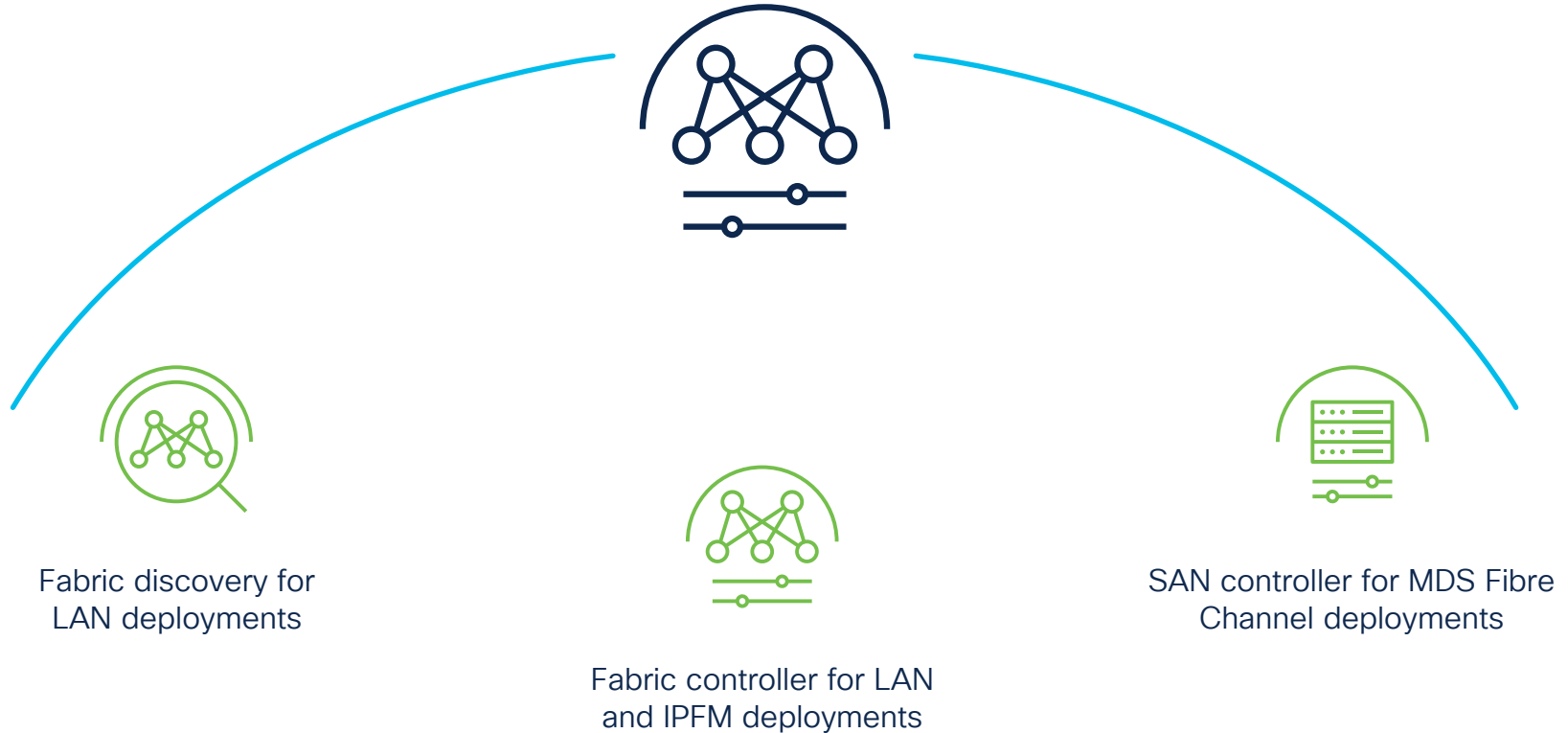
In depth management
and control for all
network deployments



Visibility

Get centralized visibility
and monitoring views

Cisco NDFC modes



Cisco Nexus Dashboard

Simple to automate, simple to consume



Private cloud

Third-party apps

Public cloud



Automation



Accelerate provisioning from days to minutes

Easy to understand approach to auto-bootstrapping of entire fabric

Rapid deployment with Fabric Builder best practice templates for VXLAN-EVPN

DevOps friendly

Enhanced programmability

Scale within and across data centers with Nexus Dashboard Orchestrator

Benefits

Simplify fabric deployments

Developer agility

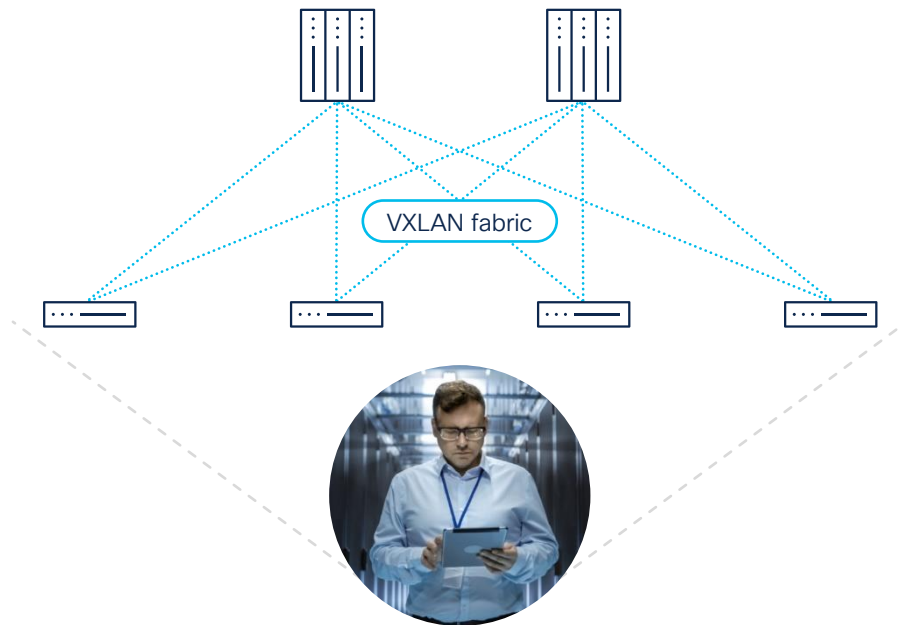
Multi-site

Automate your deployments

Provision various fabric types with Fabric Builder in minutes

Cisco best practice templates for VXLAN EVPN

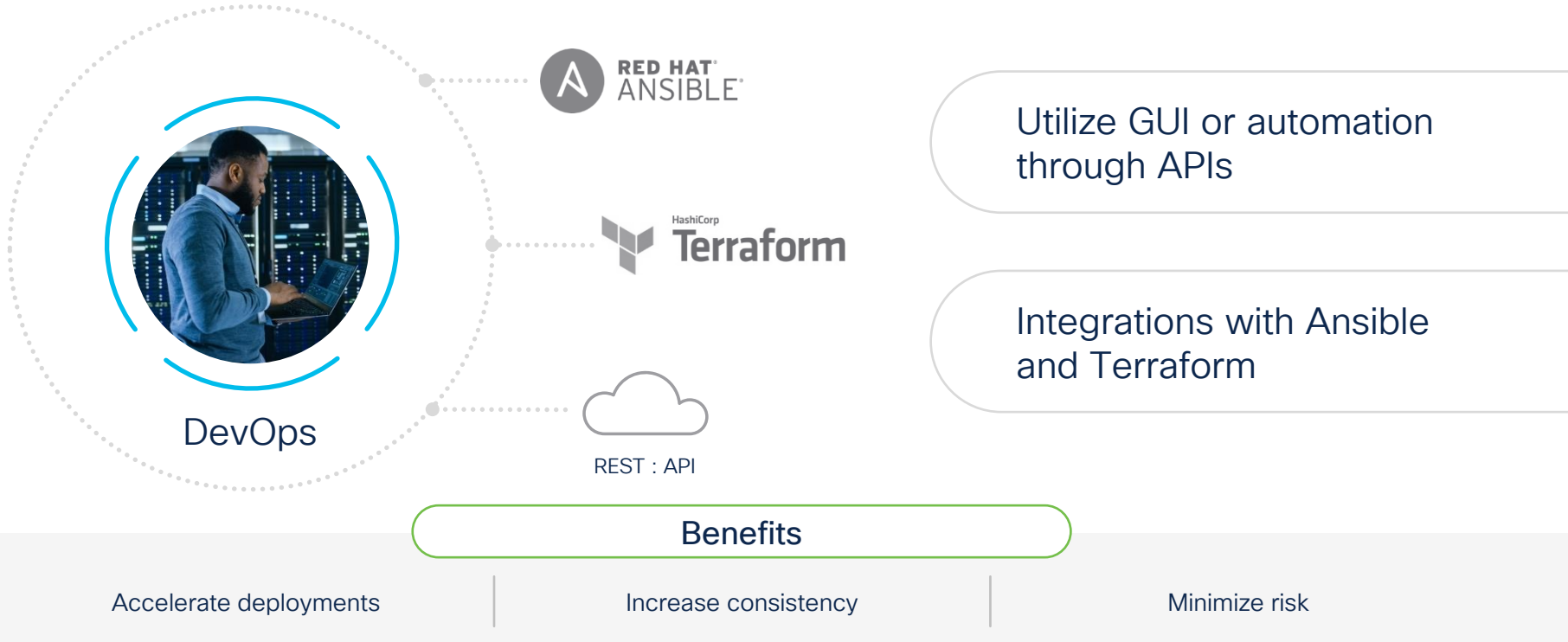
Support for both brownfield and greenfield deployments



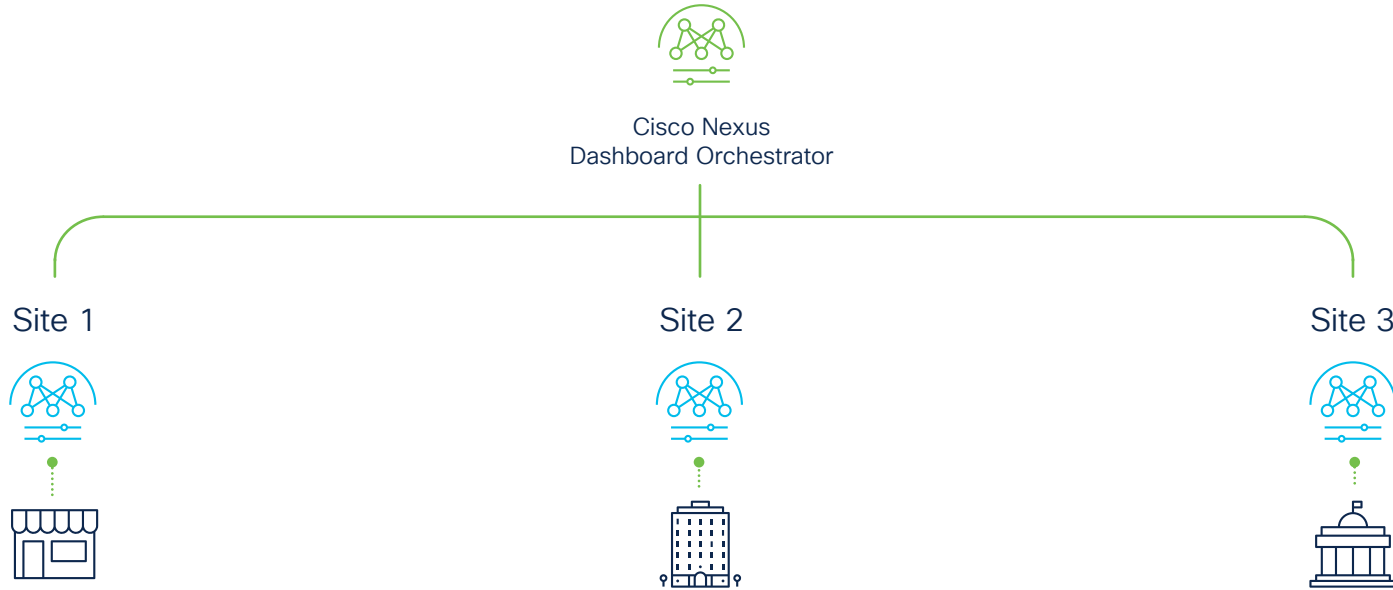
Benefit

Simplify deployment time, reduce chances of errors

Increase developer agility with NDFC DevOps



NDFC to NDFC Multi-site using ND Orchestrator



Benefits

Scale out
NDFC deployments

SSO and DUO MFA for
NDFC, ND Orchestrator, ND

DCI control between DC
and NDFC (multi-site)

DCI connectivity health,
tunnel path and statistics

Management



Single point for management for data center operations

Optimized for both large deployments and traditional deployment models

Ensure consistency and reliability of data center fabrics

License management

Role based access control (RBAC) to reduce administrative workflows

Management for non-Nexus platforms

Benefits

Reliability

Compliance

Secure

Configuration compliance



Ensure fabric consistency

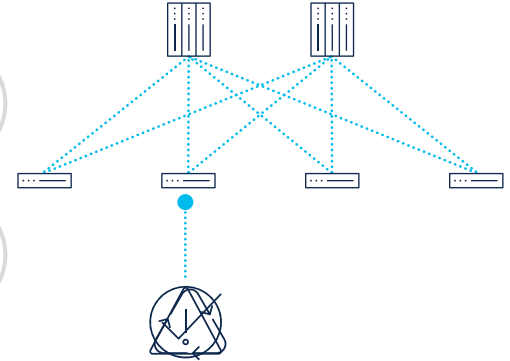
Continuously monitors if configuration is compliant with user intent

Error detection, flag drifts for remediation

Benefits

Fabric reliability and visibility

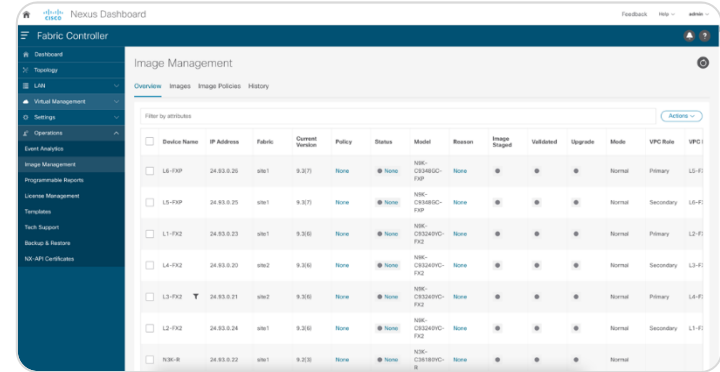
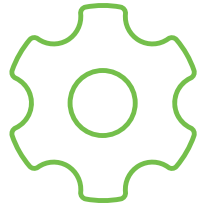
Operations confidence



Streamlined image and patch management

Maintenance mode

- Guided workflows
- Image upgrades, EPLD upgrades and downgrades, SMU



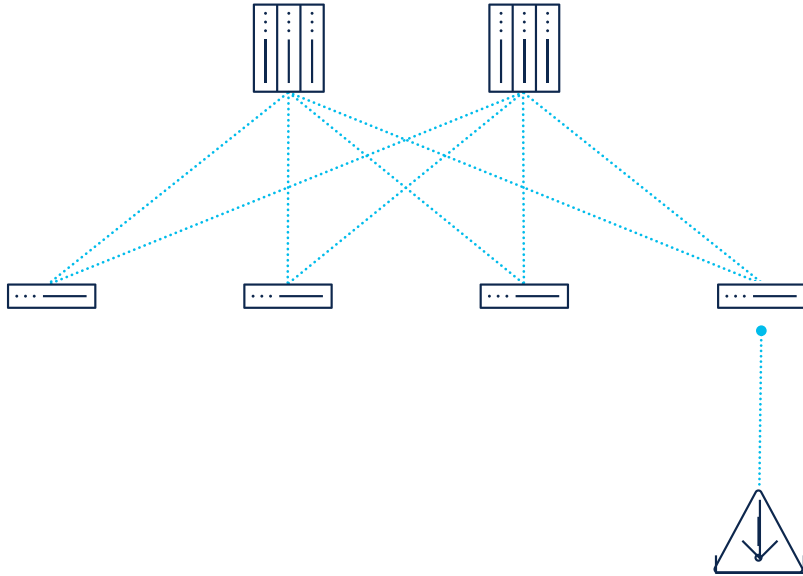
Benefits

Simplified

Intuitive

Customizable

RMA replacement

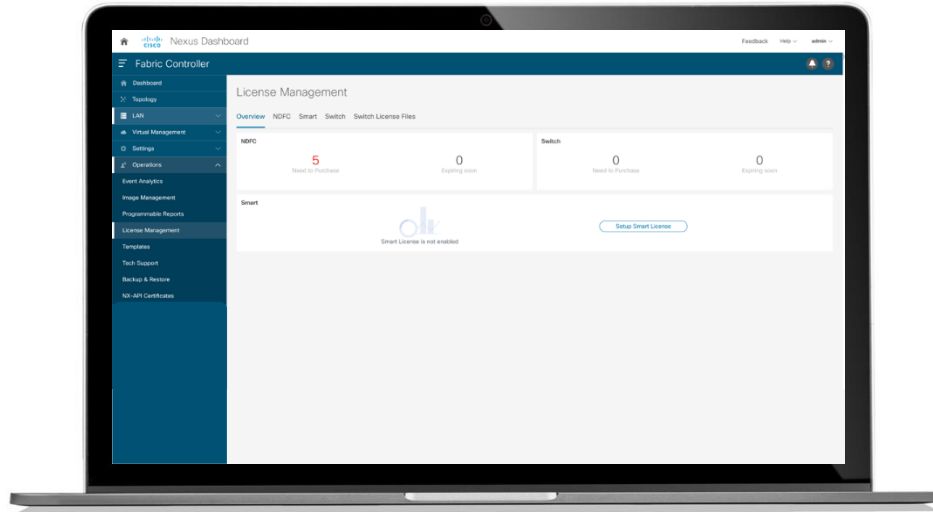


RMA for defective switch is required

Easily perform RMAs from NDFC UI

License management

NDFC offers unified
license management
for NX-OS and
MDS deployments



Easily activate and
configure Smart
Licensing from
NDFC UI

Benefits

Easily license your devices

Monitor license usage

Ensure compliance

Management for non-Nexus platforms

Configuration management for Cisco
IOS-XR devices



VXLAN EVPN management for Cisco
IOS-XE Catalyst devices

Discovery and basic monitoring for
third-party devices



Visibility and monitoring



Get comprehensive monitoring

Enhanced topology views

Compute and endpoint visibility

OAM support with NDFC

Obtain detailed inventory, health, resource consumption information on devices

End-to-end visibility, monitoring and troubleshooting

Integrate with Day 2 operations

Benefits

Intuitive

Deep visibility

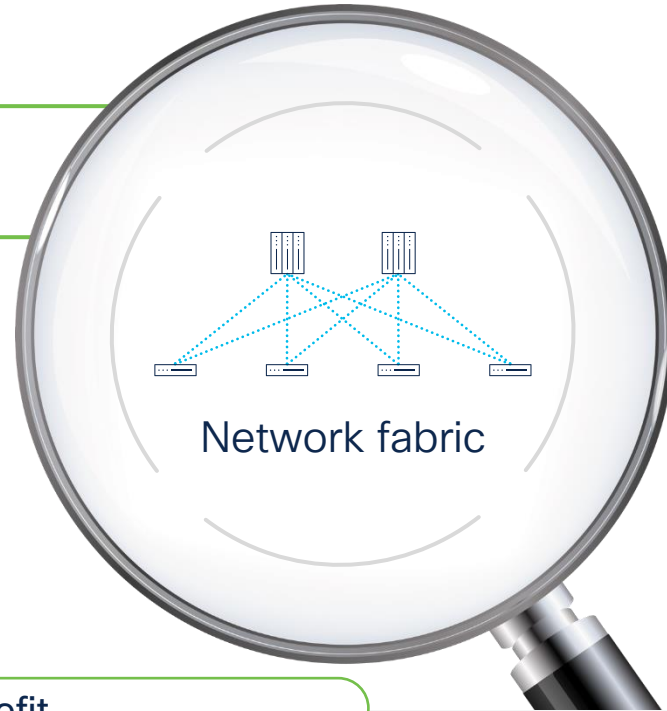
Enhanced monitoring

Compute visibility

Dynamic fabric topology views

Visibility from network fabric
and infrastructure

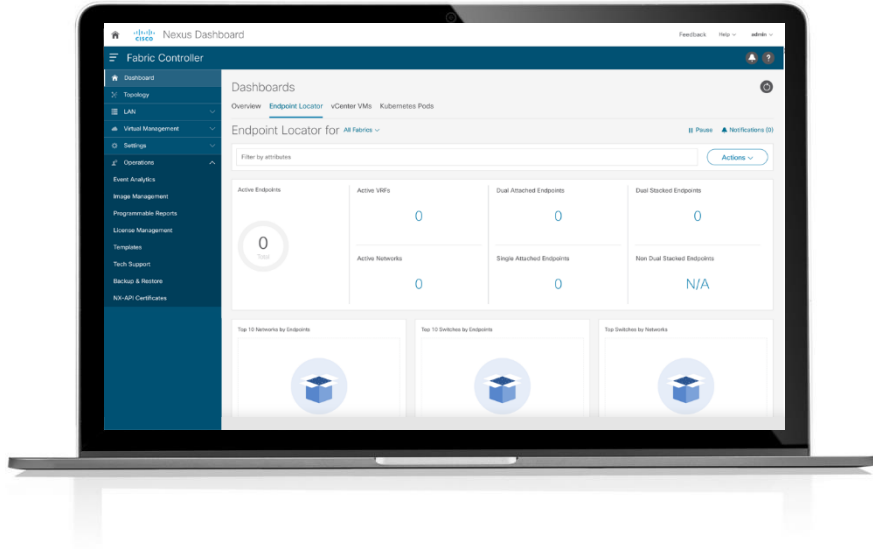
Kubernetes and VM level visibility



Benefit

Single point of management providing in depth visibility and information

Endpoint visibility



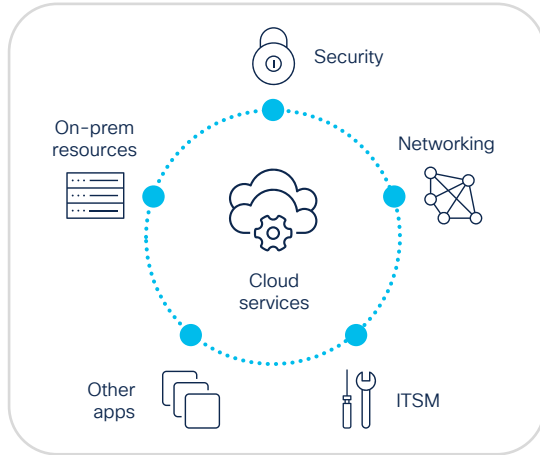
Almost real-time data on active endpoints
Consolidated in single view with endpoint locator dashboard

Obtain information on:

- Endpoint life and history
- Active VRFs
- Active networks

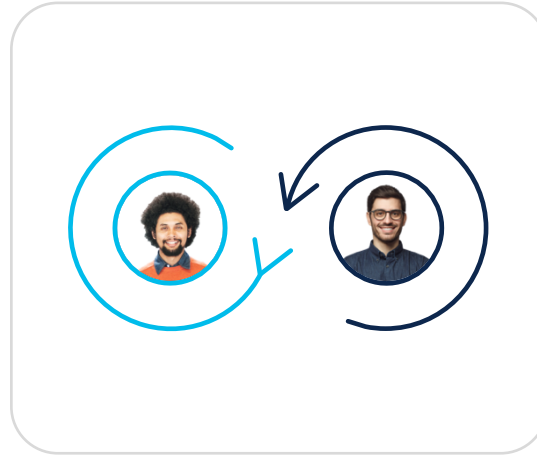
Cisco Nexus Dashboard Insights

360-degree visibility



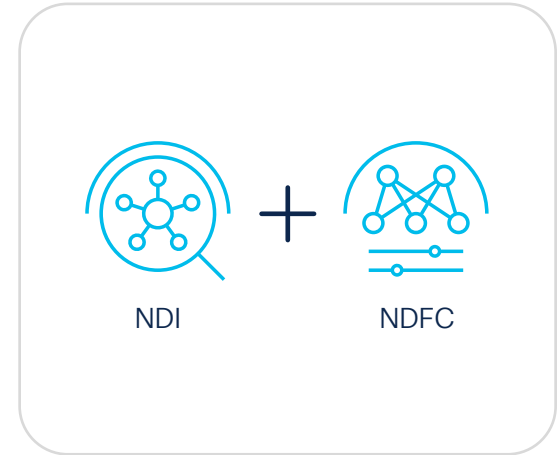
Network,
applications, integrations

Analytics



Digitization,
telemetry, correlation

Integrate with NDFC



Unprecedented
visibility into data
center environments

Cisco Nexus Dashboard Fabric Discovery

Run fabric discovery for LAN deployments:
Enable inventory, discovery, monitoring only

Enable Cisco Nexus Dashboard's Day 2
operations capabilities without deploying
fabric controller

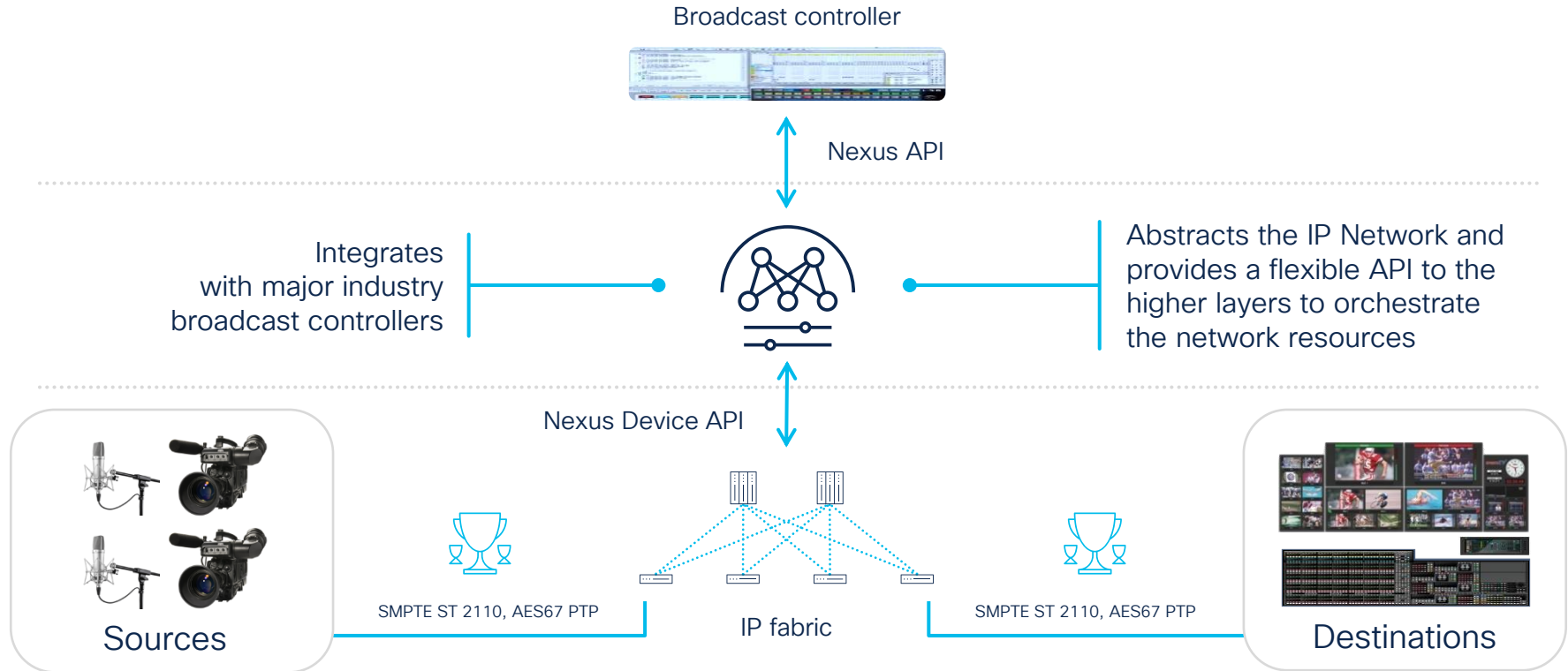


Benefit

Deep visibility into deployments

IP Fabric for Media

NDFC provisions and monitors IP Fabric for Media

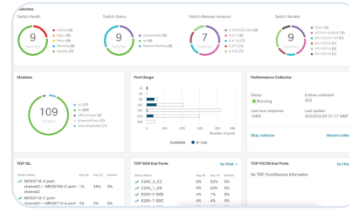


Cisco Nexus Dashboard SAN Controller

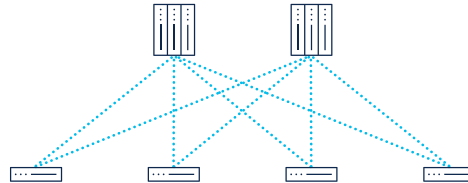
NDFC provisions and monitors Storage Area Networks



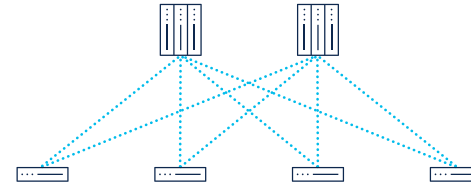
Manages and monitors
Cisco MDS and Nexus
switching and integrates
with Cisco UCS



Single Pane of glass for
day-to-day SAN management
and SAN Analytics



Fabric A



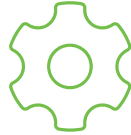
Fabric B

NDFC summary and benefits

NDFC solution benefits



Streamlined
lifecycle
management



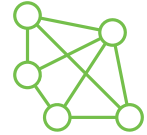
Automate and
configure your
networks with ease



Maintain
compliance and
detect errors



Extensive visibility,
monitoring and
modernized
topology views



Expand your
network with
integrations with
NDO and NDI



Q&A with Matthew Taylor from NterOne



The bridge to possible

Thank you

CISCO *Live!*

#CiscoLive

Technical Session Surveys

- Attendees who fill out a minimum of four session surveys and the overall event survey will get Cisco Live branded socks!
- Attendees will also earn 100 points in the Cisco Live Game for every survey completed.
- These points help you get on the leaderboard and increase your chances of winning daily and grand prizes.



Cisco Learning and Certifications

From technology training and team development to Cisco certifications and learning plans, let us help you empower your business and career. www.cisco.com/go/certs

Pay for Learning with Cisco Learning Credits

(CLCs) are prepaid training vouchers redeemed directly with Cisco.



Learn

Cisco U.

IT learning hub that guides teams and learners toward their goals

Cisco Digital Learning

Subscription-based product, technology, and certification training

Cisco Modeling Labs

Network simulation platform for design, testing, and troubleshooting

Cisco Learning Network

Resource community portal for certifications and learning



Train

Cisco Training Bootcamps

Intensive team & individual automation and technology training programs

Cisco Learning Partner Program

Authorized training partners supporting Cisco technology and career certifications

Cisco Instructor-led and Virtual Instructor-led training

Accelerated curriculum of product, technology, and certification courses



Certify

Cisco Certifications and Specialist Certifications

Award-winning certification program empowers students and IT Professionals to advance their technical careers

Cisco Guided Study Groups

180-day certification prep program with learning and support

Cisco Continuing Education Program

Recertification training options for Cisco certified individuals

Here at the event? Visit us at **The Learning and Certifications lounge at the World of Solutions**



Continue your education

- Visit the Cisco Showcase for related demos
- Book your one-on-one Meet the Engineer meeting
- Attend the interactive education with DevNet, Capture the Flag, and Walk-in Labs
- Visit the On-Demand Library for more sessions at www.CiscoLive.com/on-demand

CISCO *Live!*



#CiscoLive