

The background is a vibrant, abstract graphic. It features a series of overlapping, wavy bands of color in shades of red, orange, yellow, green, and blue, creating a sense of movement and energy. On the right side, there is a bright, multi-colored sunburst or starburst effect that radiates outwards, adding to the dynamic feel of the image.

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The bridge to possible

Zero Trust Security for Network and Cloud

With Software-Defined Access

Kanu Gupta, SD-Access Product Manager
Adrian Finemel, Director of Network Services, UCLA Health
BRKENS-1401

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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 9, 2023.



<https://ciscolive.ciscoevents.com/ciscolivebot/#BRKENS-1401>

Agenda

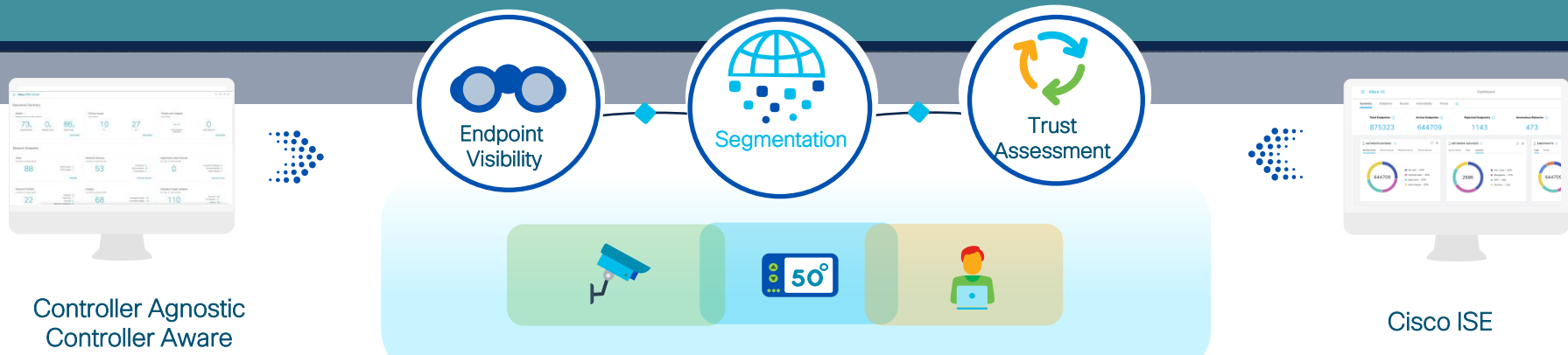
- SD-Access: Driving Relevance and Adoption
- Key Use cases
- Product Strategy and Evolution
- Real-World Insights: UCLA Health's SD-Access Success Story

SD-Access: Driving Relevance and Adoption





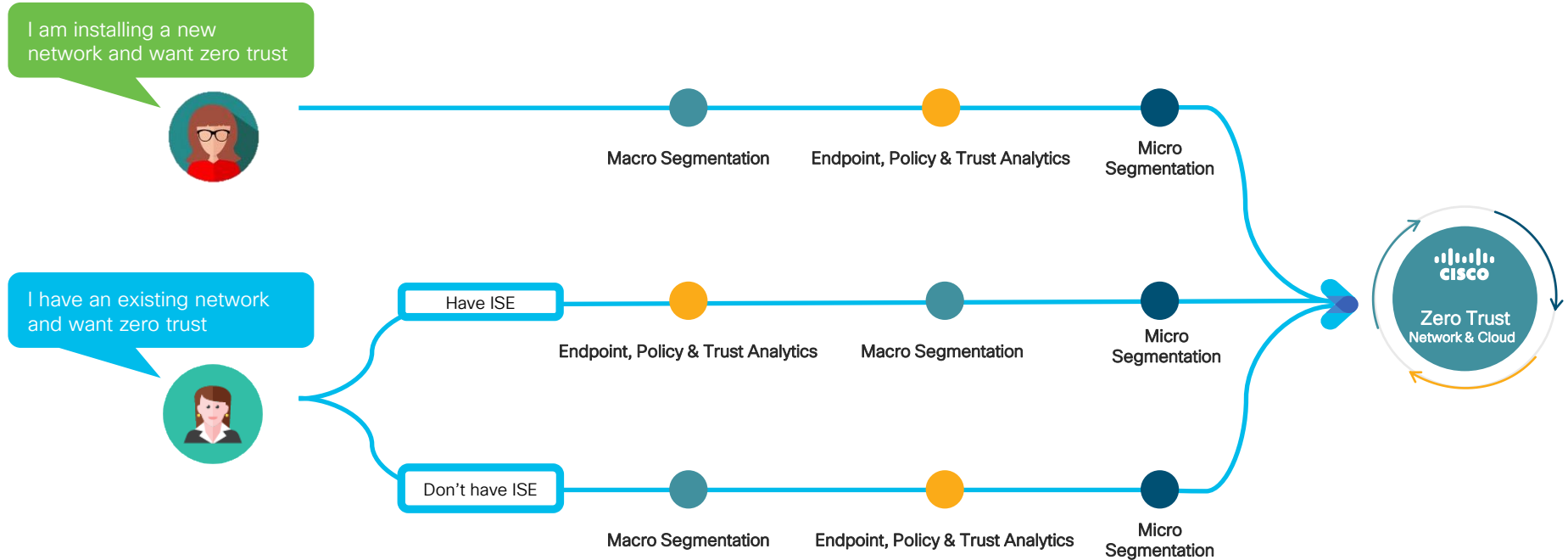
Zero Trust Security for Network and Cloud



Enabled on Cisco Catalyst 9K Infrastructure



Flexible Options for Quick Value



Analytics use cases require ISE

Offering phased implementation for an extensible network!

Zero-Trust Momentum Accelerates

4800+
Customers

70% deployments with Wireless

270K+ Devices
29M+ Endpoints
Aggregate

Adopted by 28% of Fortune25 Companies

761K Endpoints

2,907 Sites

3,227 Devices

Largest Deployments

SD-Access Provides *Industry Leading Campus Architecture*

SD-Access Driving Customer Business Outcomes

Network Simplification

Unified Wired/Wireless Policy

Seamless L2 Mobility

**UCLA
Health**

*Higher Education &
Research*

BBVA
Financial

**Fiona Stanley
Hospital**
Healthcare

Volkswagen
Manufacturing

TOYOTA
Manufacturing

NHS
Healthcare

Integrated Zero Trust

IT/OT Integration

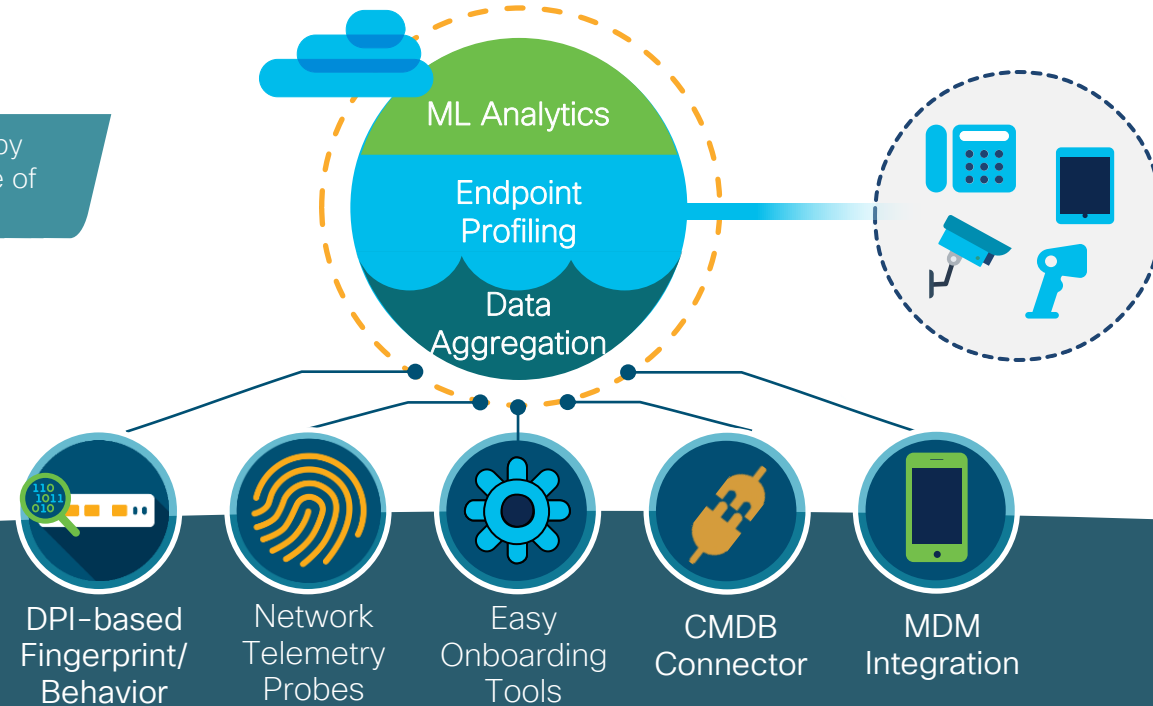
Endpoint Analytics *and* Trust Analytics



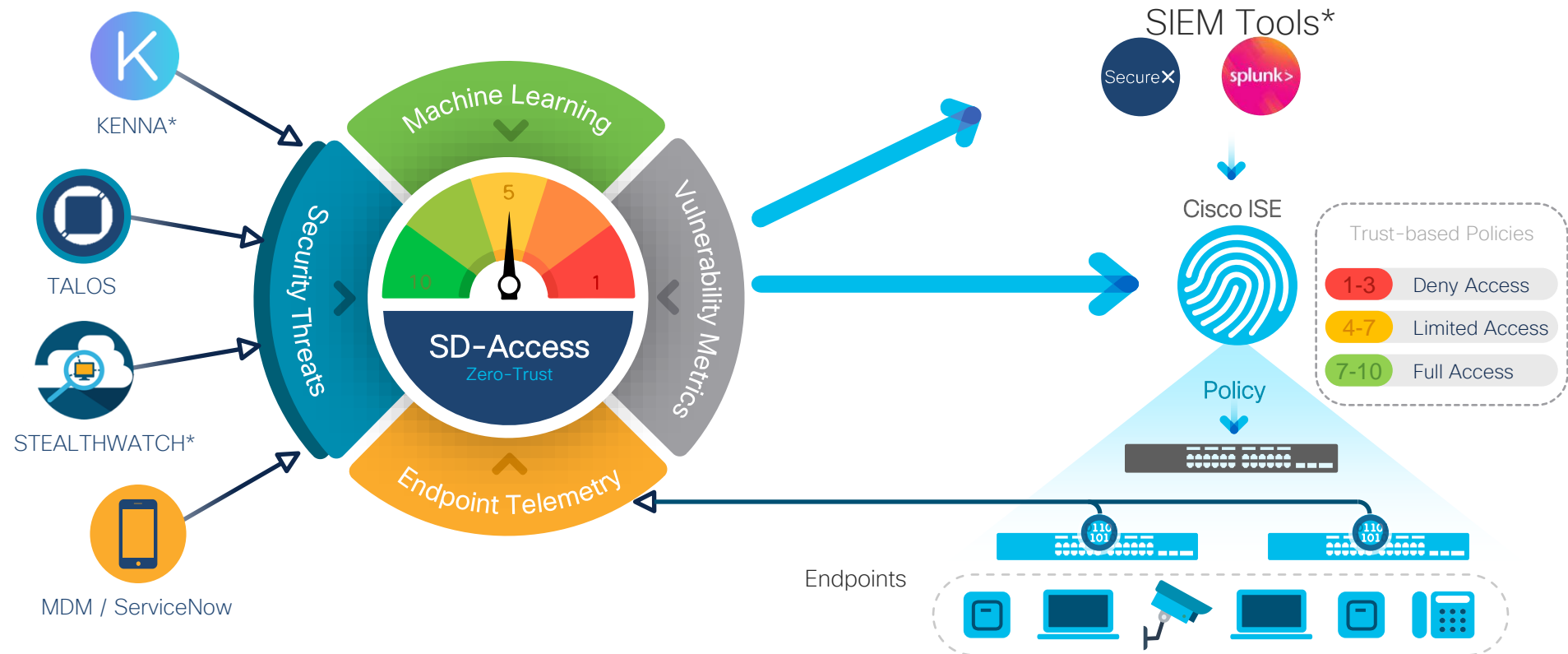
Endpoint Analytics on Access Infrastructure

High Fidelity Visibility

Rapidly reduce unknowns by aggregating various source of device fingerprints



Ecosystem integrations for Trusted Analytics



SD-Access



SD-Access *Evolution*: A testament to Innovation!



Focus: Improved Experience!

SD-Access *Evolution*: A testament to Innovation!

NOW

Resilient
Architecture

Multi-site

Migration

OT Integration

Shipping

NEXT

Flexibility

Serviceability

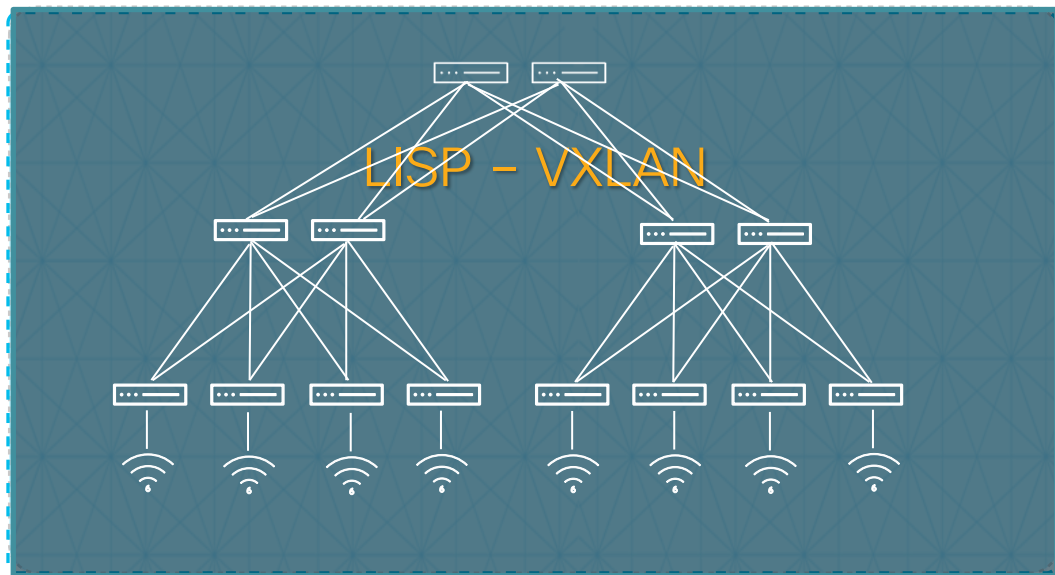
FUTURE

Cross
Domain
Policy *

*Timeline: TBD

Available Today!

Robust Fabric Architecture: Enabling Powerful Outcomes



Drastic Network Simplification

Power of the Layer3 Underlay

Seamless Layer2 Mobility

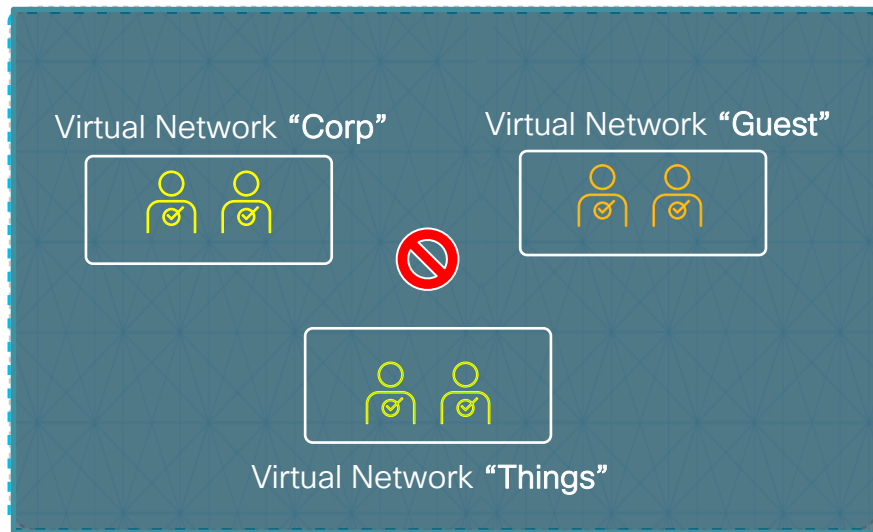
Native Wireless Integration

Unmatched Scale & Resiliency

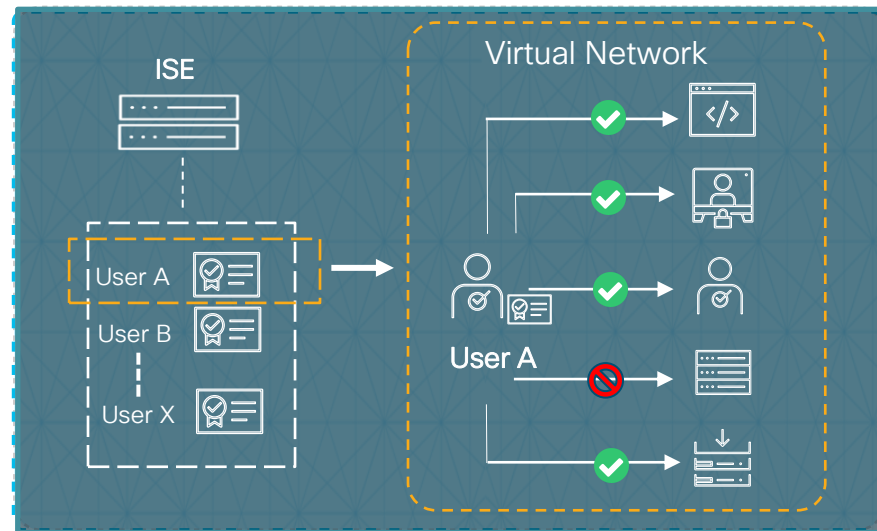
LISP Control Plane for faster convergence

Simplifying IT, Everywhere, at every Scale

Zero Trust Access for Wired/Wireless Infrastructure!



Macro Segmentation
Without Defining ANY Security Policies



Micro Segmentation (using Identity)
Defines Access Rules inside a Virtual Network

Simplifying Policy Administration

Simplifies *IT/OT Integration* in Manufacturing

Campus Fabric



Extended Enterprise



IT/OT specific views & functions
under one tool

Discover, monitor & configure devices
& endpoints

Consistent security policies while maintaining
logical separation

Visibility of IACS devices and communication

*Resilient connectivity for IACS devices: sensors,
actuators, controllers*

Plant & Cell-area zone security and segmentation

Seamlessly connecting 14k Fabric Sites , 265k devices & 4M endpoints!

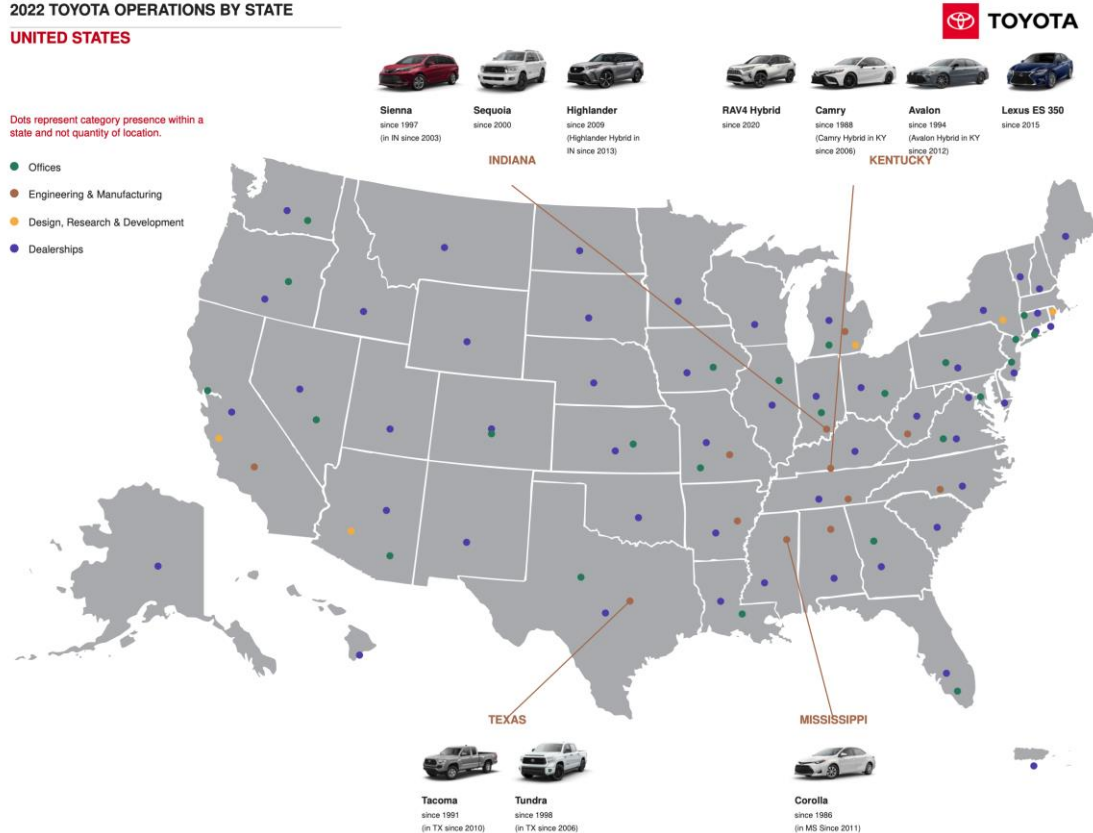
TOYOTA: Customer Network by the Numbers !

2022 TOYOTA OPERATIONS BY STATE

UNITED STATES

Dots represent category presence within a state and not quantity of location.

- Offices
- Engineering & Manufacturing
- Design, Research & Development
- Dealerships



4,550

Network Switches

47,428

Total Wired Clients

51,415

Wireless Clients

10,887

Wireless Access Points

FIONA Stanley Hospital: Network by the Numbers!

2

Data Centers

15,000+

Switch ports

2,200

Access Points

30+ Protocols

700 Subnets

Complex L2 Stretch



3 Protocols

20 Subnets

Campus Wide L2 Stretch

37,000

Patients per year

110,000

ER Patients per
year

30,000

Ambulance Visits

SD-Access Evolution: A testament to Innovation!

NOW

Resilient
Architecture

Multi-site

Migration

OT Integration

Shipping

NEXT

Flexibility

Serviceability

Nov'23

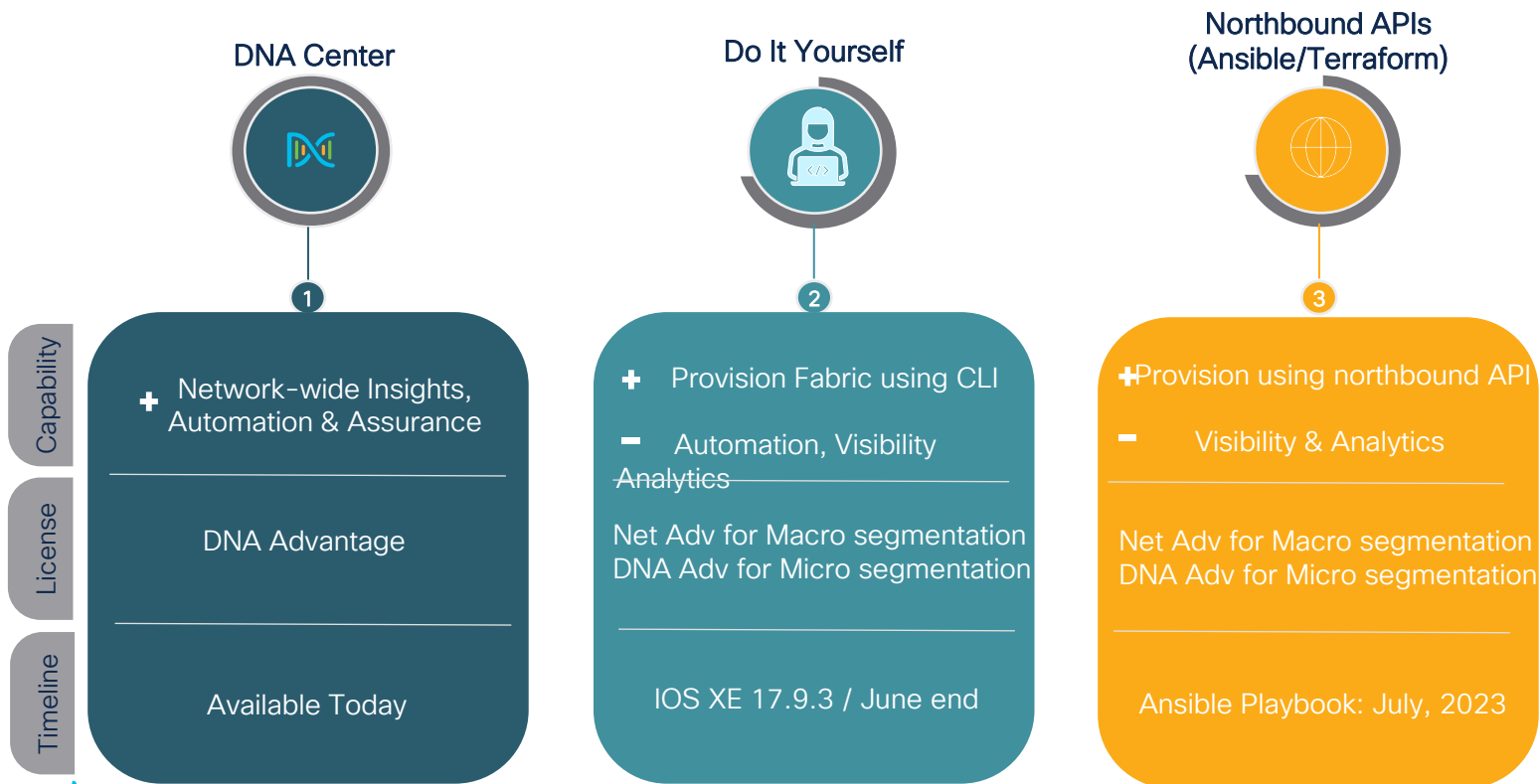
FUTURE

Cross
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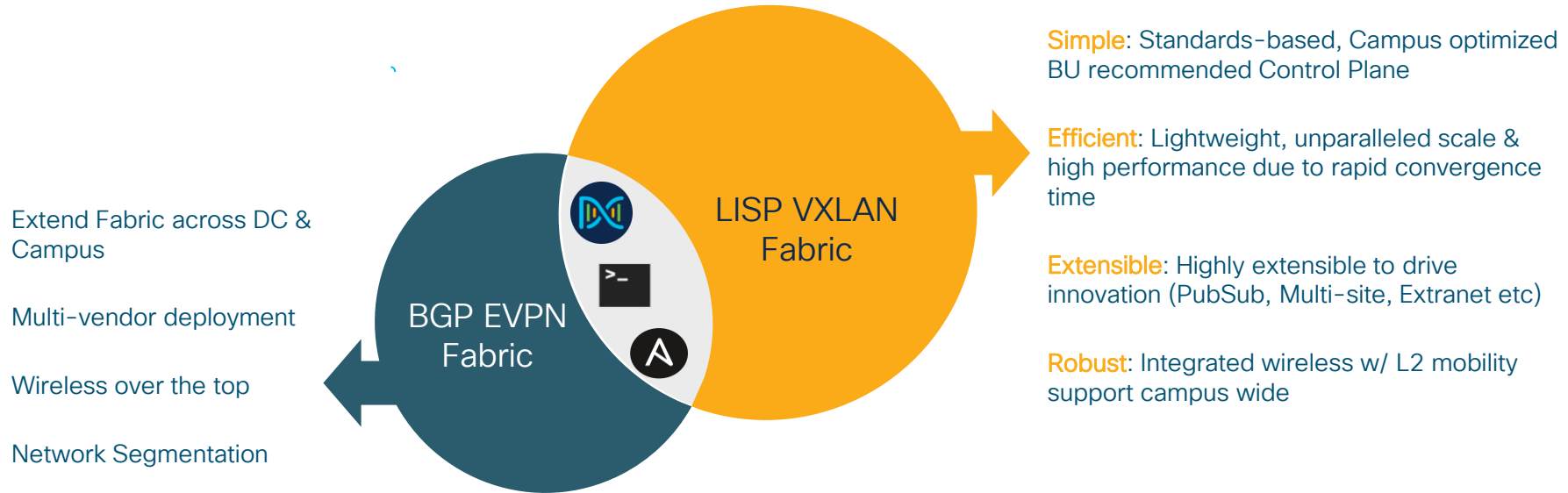
Focus: Improved Experience!

Flexible Options to enable LISP Fabric in Campus



Effortlessly deploy the *Fabric of choice*

LISP Fabric is the *leading* choice for Enterprise customers !



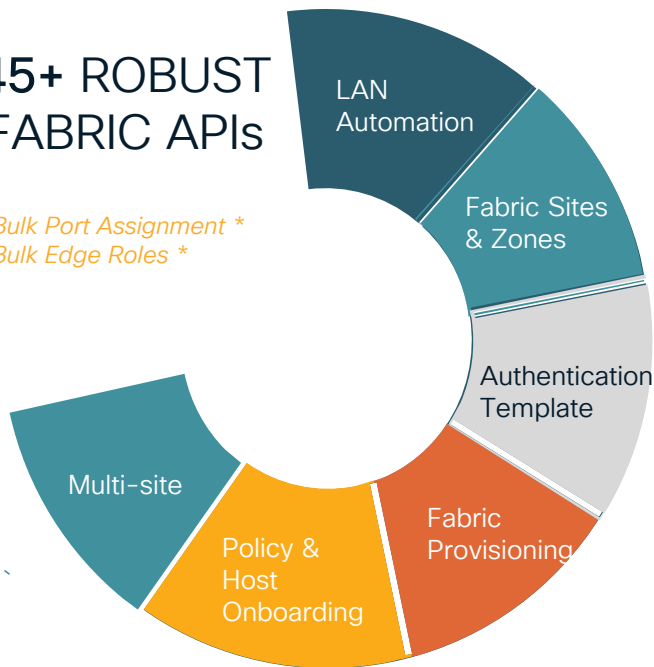
DNAC-based EVPN Fabric : EFT Nov'23, FCS March 2024

One Infrastructure | Single Data plane | Consistent Zero-Trust Experience

Automate Your Fabric Operations with LISP *Fabric APIs*

**45+ ROBUST
FABRIC APIs**

*Bulk Port Assignment **
*Bulk Edge Roles **



API FIRST INITIATIVES

Backward Compatibility

Update APIs while certifying no breakage to existing automation suite

Completeness

Address functional gaps. Improved scale & concurrency limits.

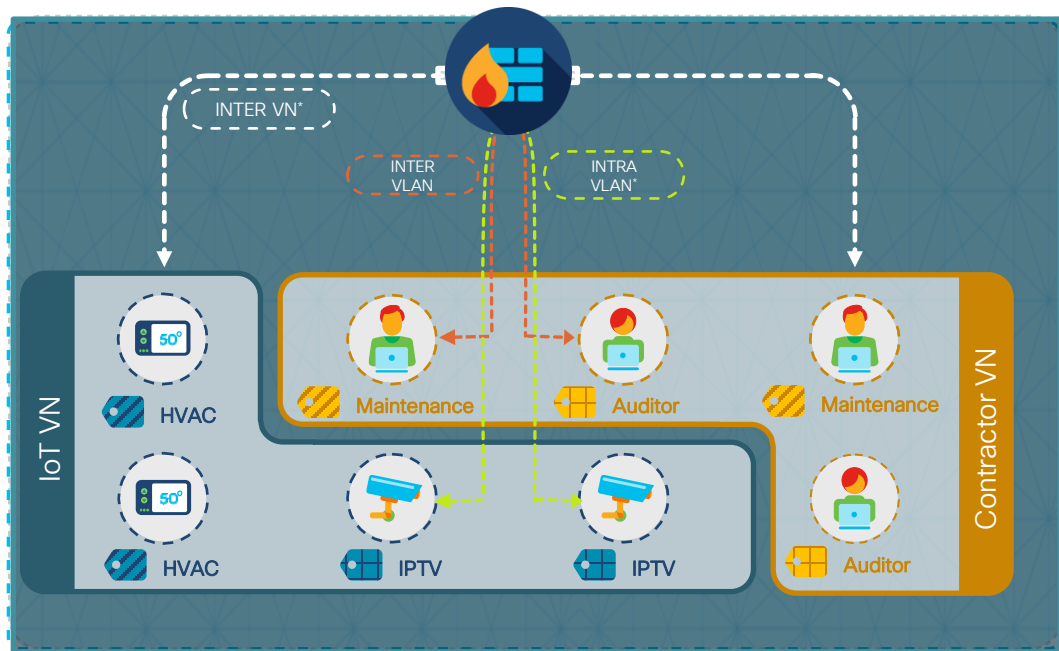
Conformance to OAS

Encompasses API Design, REST Style, Conventions, Patterns, Versioning & Security

** Coming Soon*

Available Now!

Security Service Insertion for East-West Traffic in Campus



* Planning

Select steering of Traffic

Based on SGT, VLANs, VNs, Apps

Topology-Agnostic Security
Services rollout

Saves time

Reduce number of firewalls

Save on OpEx & CapEx

Selective Traffic Steering to Firewalls

Delivering Excellence for *Enhanced User Experience*

Experience the difference!

Device Robustness

App Robustness

Upgrade

Serviceability

Usability



Preview New SD-Access

BETA

Take a Tour

Your Journey to SD-Access Zero-Trust Workplace

Zero Trust Workplace

20%

Your journey to
Zero-Trust
Workplace

Recommended Steps

2 of 14 Current Step



Endpoint Labeling

Labels Endpoints using AI-based endpoint clustering, crowd-sourced labeling, and a profiling rule recommendation engine.

ROI Report

1 Month

4 D 22 Hr
TIME SAVED

2.8K USD
COST SAVED

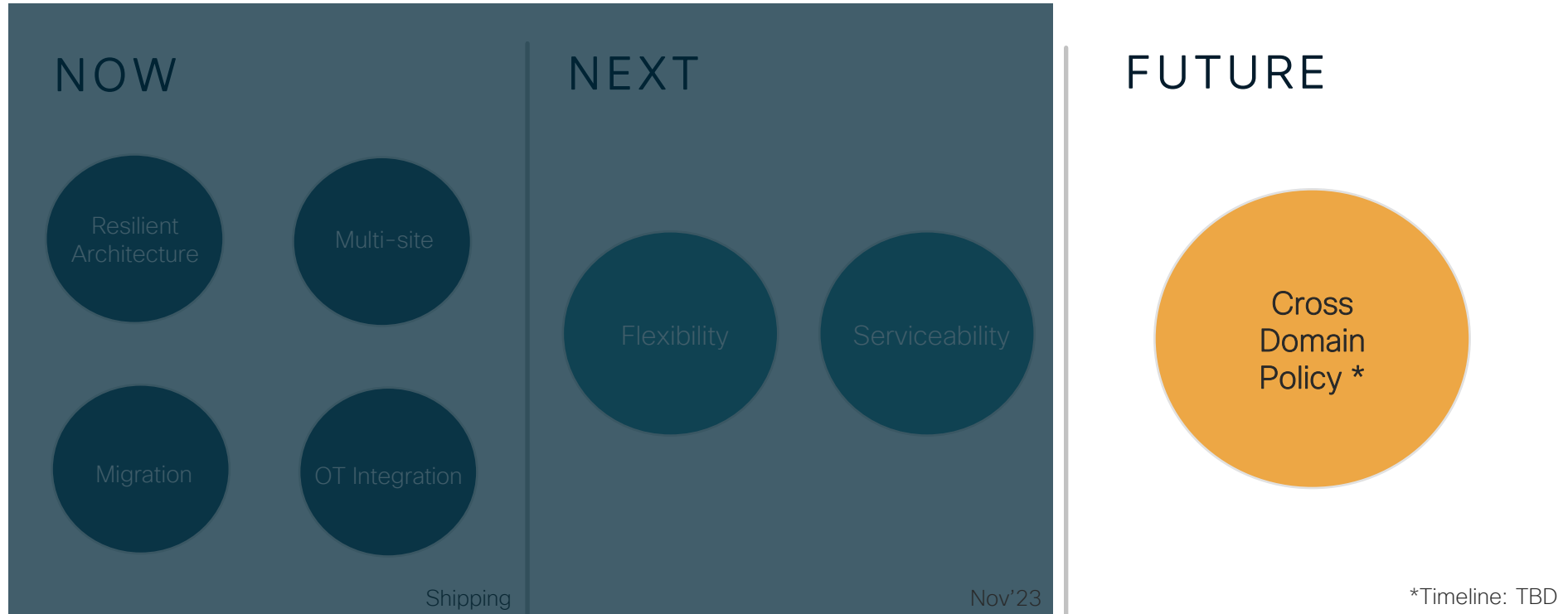


Customize your path to Zero Trust

Enhanced UI with Bulk update operations

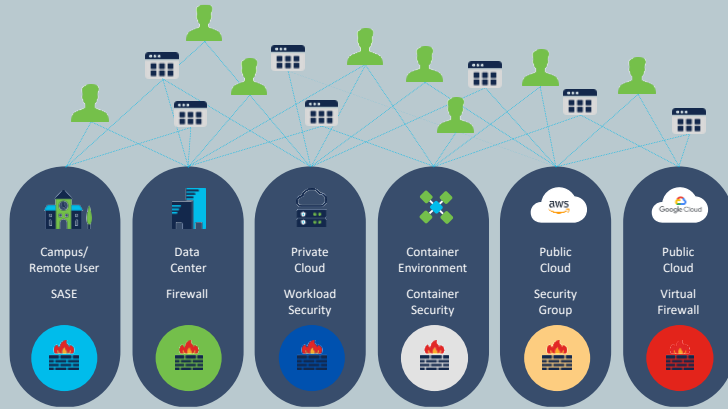
CISCO *Live!*

SD-Access Evolution: A testament to Innovation!



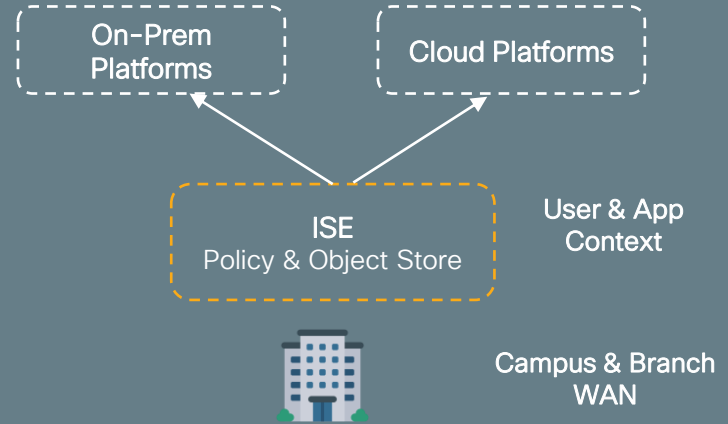
Coming Soon!

Common Policy: Integrating across Platforms



Policy Complexity

Multiple groups, policy models, enforcement points
Inconsistent and siloed islands of policy controls



Simplifying user-to-application Policy

Create context anywhere
Share context everywhere

Simplifying policy configuration and migration

SD-Access Resources

General

cisco.com/go/sdaccess

[SD-Access At-A-Glance](#)
[SD-Access Ordering Guide](#)
[SD-Access Solution Overview](#)
[SD-Access YouTube Channel](#)
[*New* SD-Access Design Tool](#)

Technical

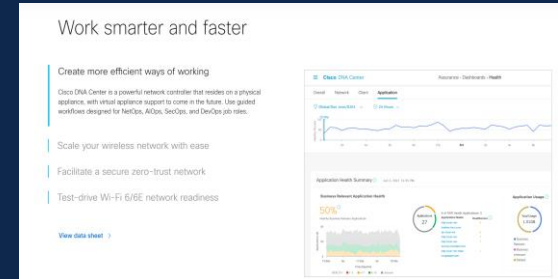
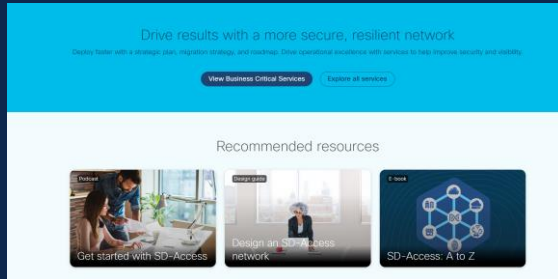
cs.co/en-cvds

[SD-Access Solution Design Guide](#)
[SD-Access Deployment Guide](#)
[SD-Access Segmentation Guide](#)
[SD-Access Book for Industry Verticals](#)

Related

cisco.com/go/dnacenter

[Cisco DNA Center At-A-Glance](#)
[Cisco DNA Center ROI Calculator](#)
[Cisco DNA Center Data Sheet](#)
[Cisco DNA Center User Guide](#)
[Cisco DNA Center YouTube Channel](#)
[Cisco DNA Center Solution Builder](#)





The bridge to possible

UCLA Health – Information Technology

David Geffen School of Medicine IT (DGIT) SDA Journey

Adrian Finemel, Director of Enterprise Network Services, UCLA Health



#CiscoLive

UCLA Health – Information Technology

UCLA Health Information Technology

UCLA Health IT maintains the infrastructure and provides technology solutions throughout UCLA Health and the Health Sciences schools to support the delivery of leading-edge patient care, research, and education.



ISS

Information Services & Solutions (ISS) maintains the central technology infrastructure for UCLA Health and provides services and development for business, financial and clinical applications such as CareConnect.



OHIA

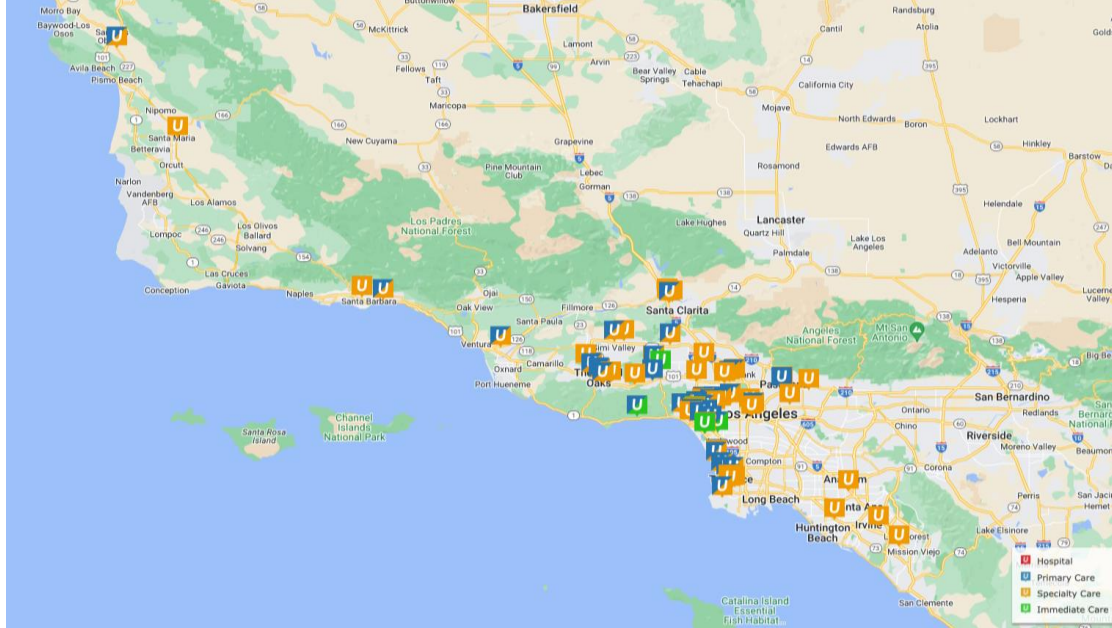
Office of Health Informatics and Analytics (OHIA) serves the data and analytics needs of across UCLA Health, Faculty Practice Group, and David Geffen School of Medicine.



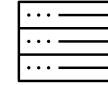
DGIT

Standing for 'digital technology', DGIT serves the IT needs of the UCLA Health Sciences schools and other UCLA Health Science units.

UCLA Health IT by the numbers



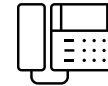
240+
locations



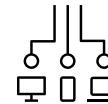
1300+ Network
Devices



4000+ Access
Points



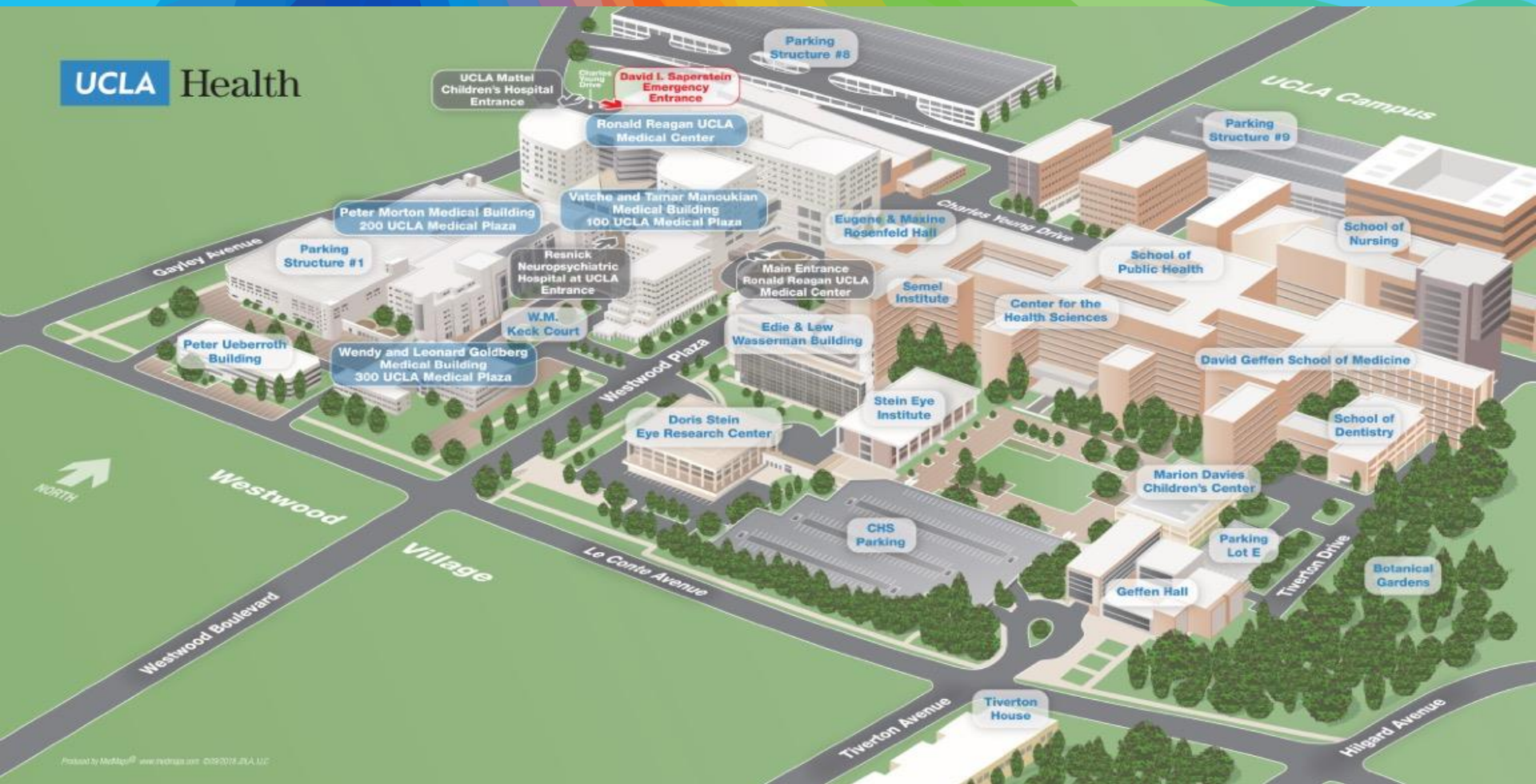
15000+ VoIP
Endpoints



77,000+ Active
Interfaces



2 L1 Trauma Centers
- 800 beds



Produced by MapInfo® www.mapinfo.com ©2017 JVA LLC

Why Software Defined ?

Next-Gen Infrastructure needed

- Current infrastructure was delivering for DGIT, but there was a need to keep up with new demands
- **Manual IT Operations, where configuration was error prone**
- Scalability concerns for the future – bandwidth needs to move from 10/40G to 100/400G due to research demands

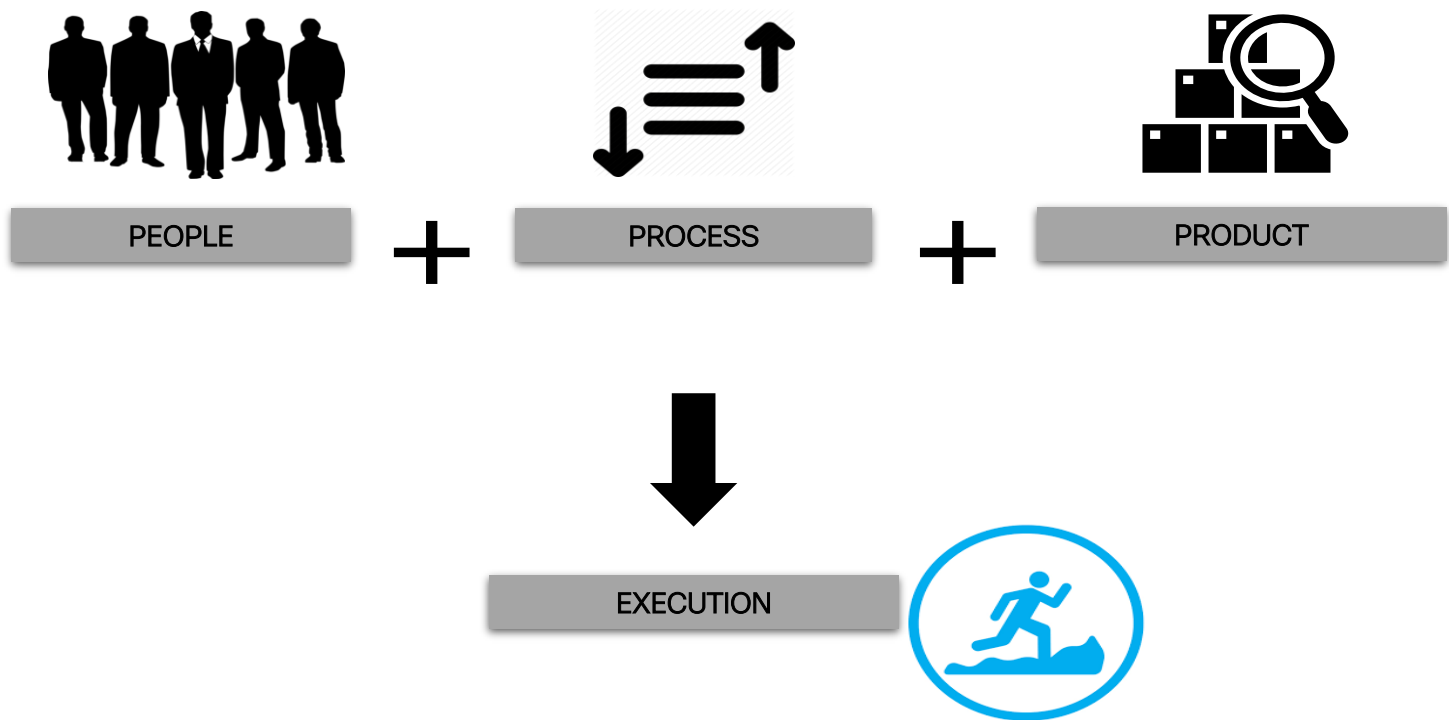
Fragmented Visibility & Security Policies

- Lack of centralized policy engine
- Limited capability to reduce network attack surface for IOT devices
- Manual discovery & quarantine of compromised assets
- **Workflow automation limited eg. Onboarding, profiling, posture, quarantine etc.**

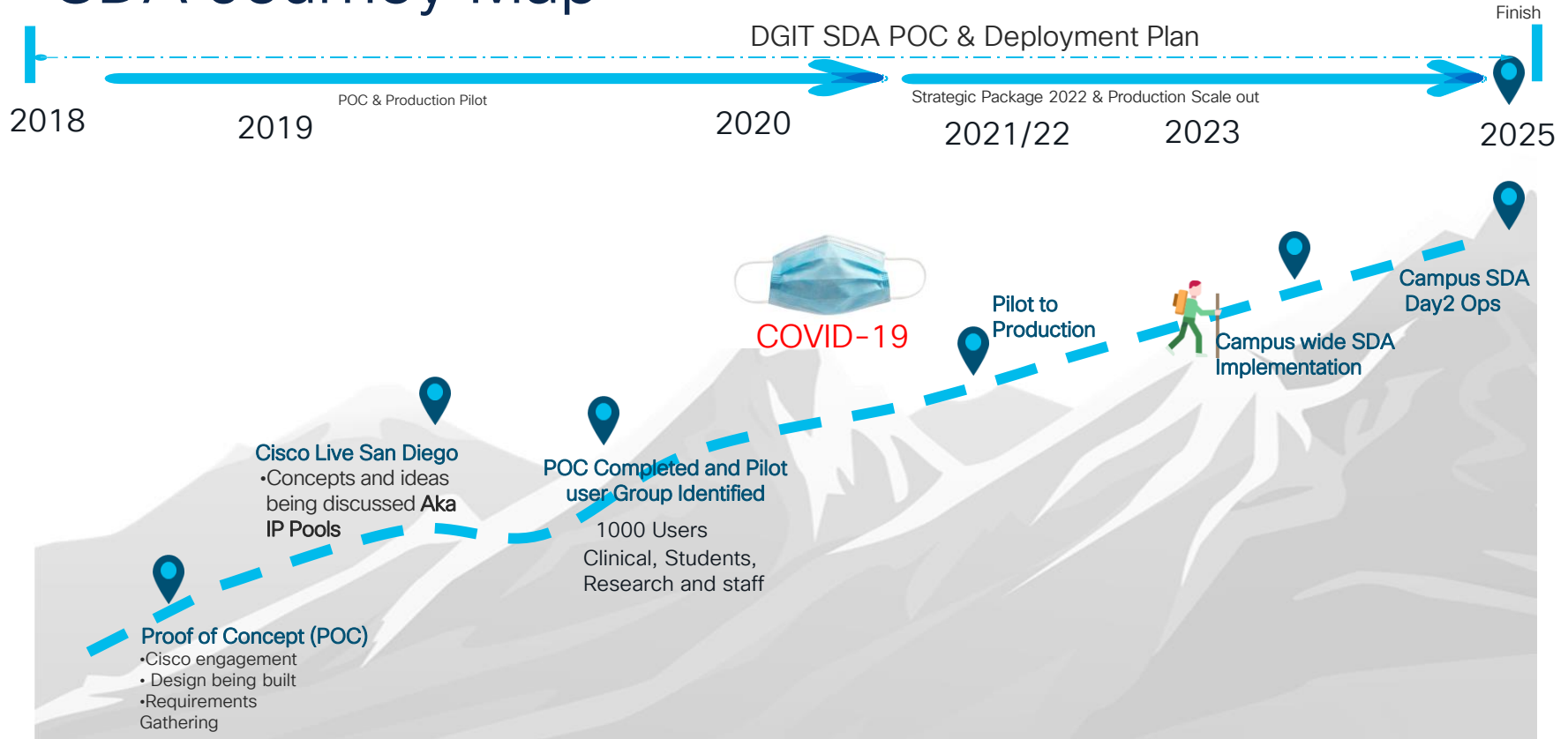
Ease of Technology Consumption

- Combination of perpetual licenses and subscription licenses expiring at different times
- **License & Maintenance sprawl. Staggered renewals and Software subscription renewals adding complexity**
- Unpredictable OpEx spend which made consumption of Cisco technologies arduous

Comprehensive approach for Next Generation Network



SDA Journey Map



Key Business Drivers for UCLA David Geffen IT

Modernize Network Services

- Enhance research & Academic missions at UCLA Health
- Implement technologies that scale to the need of research

Simplify consumption IT Infrastructure

- New Model for consuming hardware, software & support needed
- Simplify consumption of HW, SW & Services

Deliver on project timelines

- Reference Architecture model for 5 year roadmap
- Plan and order early as much as possible

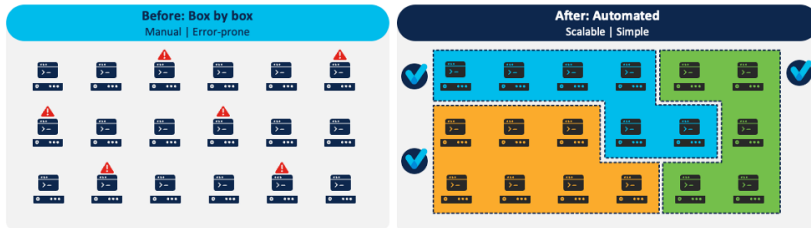
Maintain predictable IT Spend

- Roll 5-year roadmap into yearly predictable spend
- Reduce cost and lock in 5 year pricing where possible

Why CISCO SDA FOR DGIT?

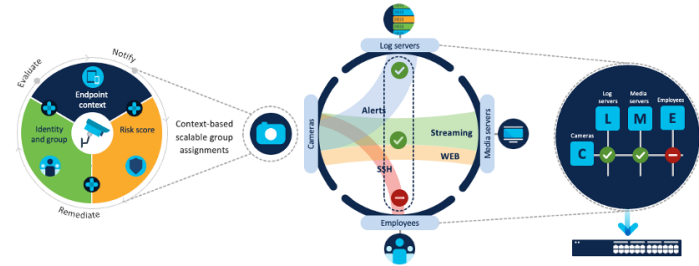
MACRO & MICRO-SEGMENTATION

Separation between clinical & general assets with granular controls



ZERO TRUST & CENTRALIZED POLICY

Edge workflow w/ onboarding, profile & posture using ISE as the central policy engine



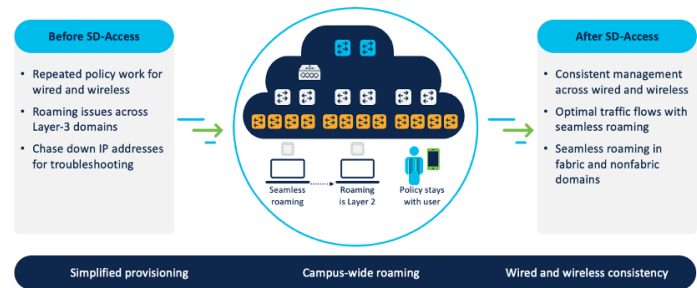
AUTOMATION & ANALYTICS

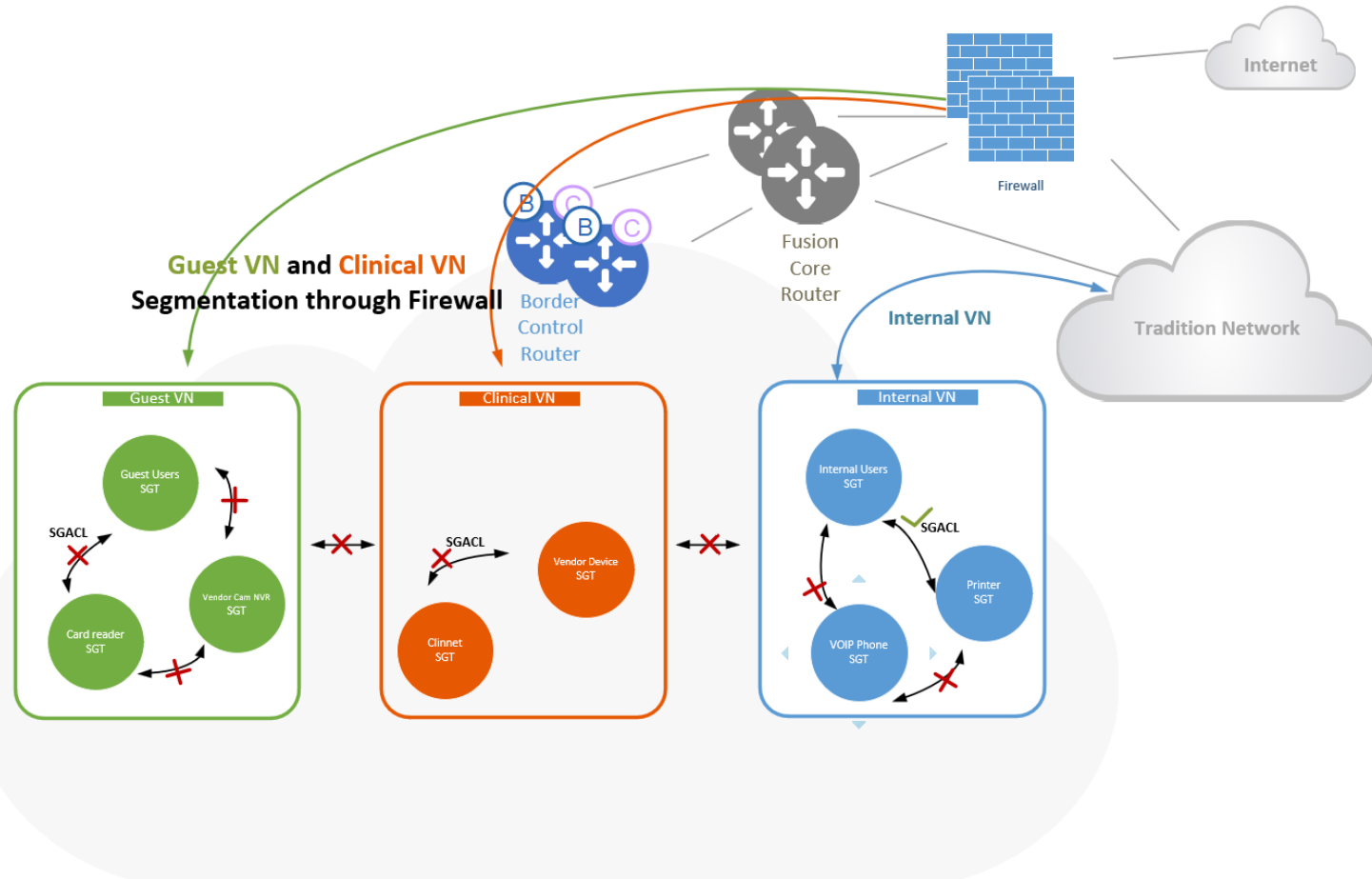
Full Automation of workflows and Performance Insights on Apps & Users



SOFTWARE DEFINED UNIFIED NETWORK SERVICES

Consistent policy on wired and wireless significantly reduced MTTR





Fill out your session surveys!



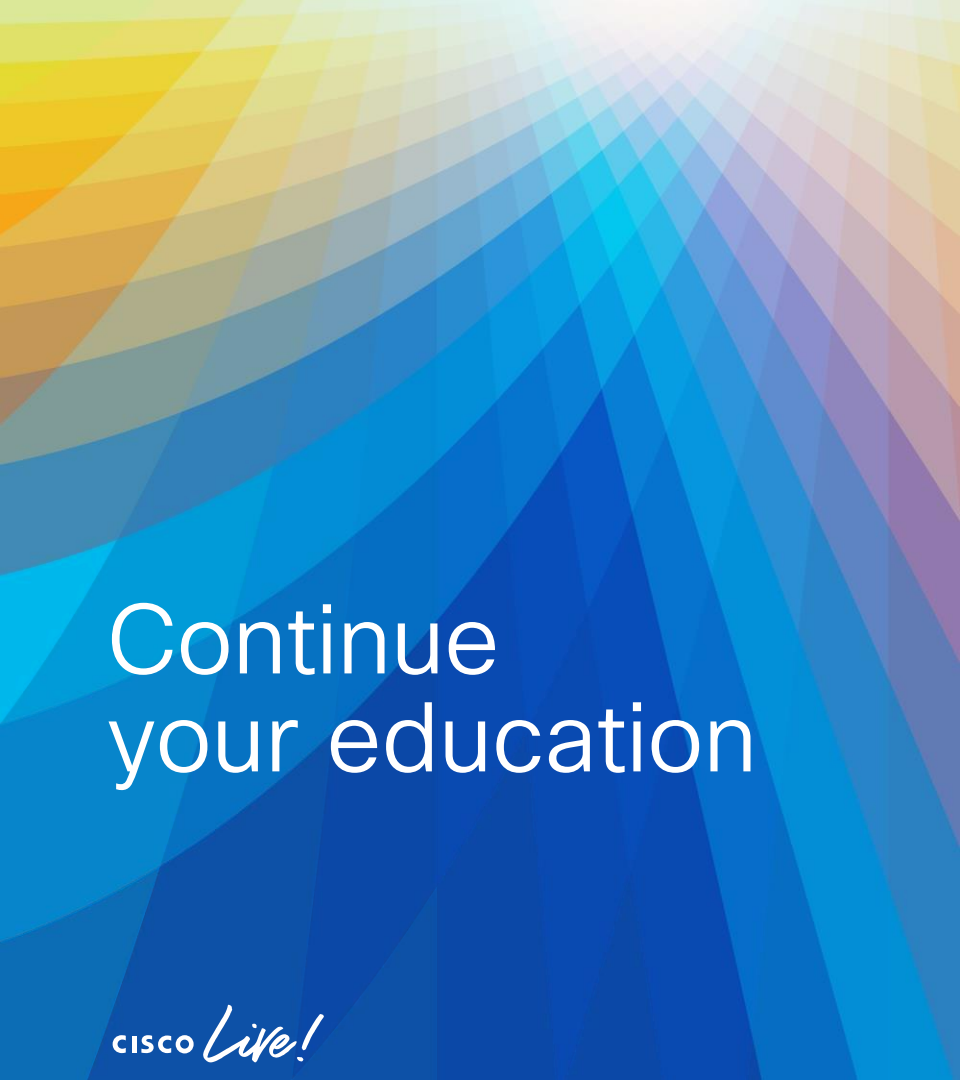
Attendees who fill out a minimum of four session surveys and the overall event survey will get **Cisco Live-branded socks** (while supplies last)!



Attendees will also earn 100 points in the **Cisco Live Challenge** for every survey completed.



These points help you get on the leaderboard and increase your chances of winning daily and grand prizes



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



The bridge to possible

Thank you

CISCO *Live!*

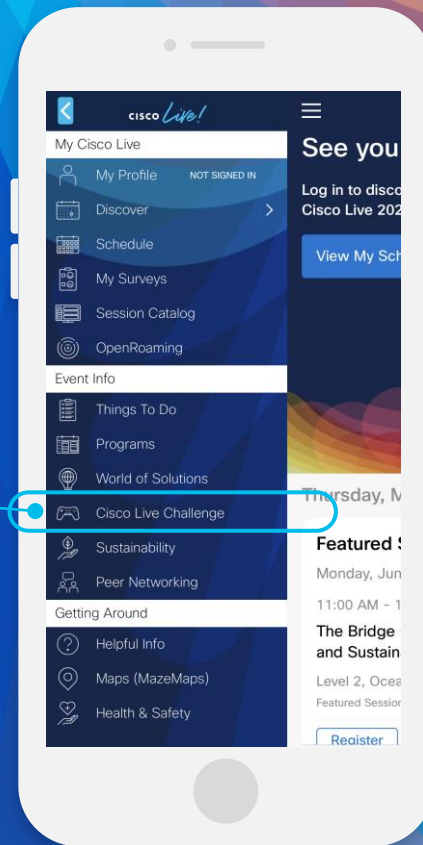
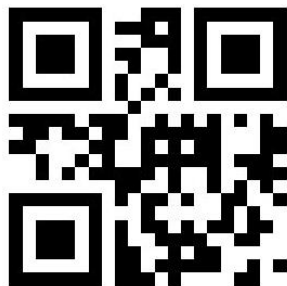
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Get points for attending this session!

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- 1 Open the Cisco Events App.
- 2 Click on 'Cisco Live Challenge' in the side menu.
- 3 Click on View Your Badges at the top.
- 4 Click the + at the bottom of the screen and scan the QR code:



The background is a vibrant, abstract graphic. It features a central bright white light source from which numerous colorful rays emanate, creating a sunburst or starburst effect. The rays transition through a spectrum of colors: yellow, orange, red, and then various shades of blue and green. Overlaid on this are several large, semi-transparent, wavy shapes in similar color tones, giving the overall image a sense of motion and energy.

cisco *Live!*

Let's go

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