



You make **possible**



Intent-Based Networking Across Multiple Domains. Why?

Tjerk Bijlsma
Technology Officer DC & Networking, EMEAR
@tbijlsma

PSO-2449

CISCO *Live!*

Barcelona | January 27-31, 2020



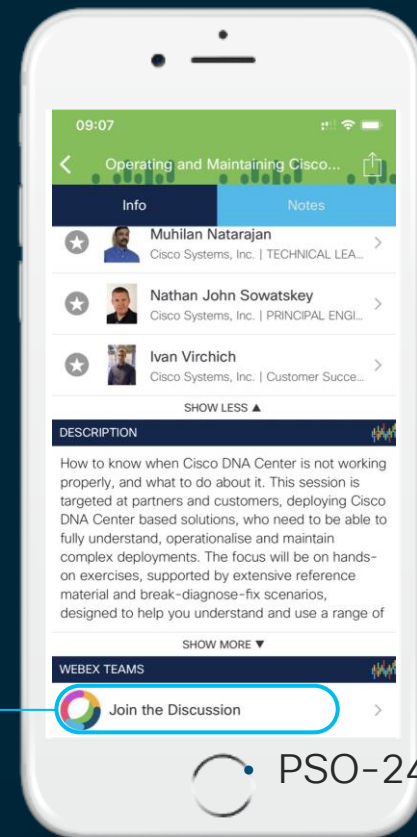
Cisco Webex Teams

Questions?

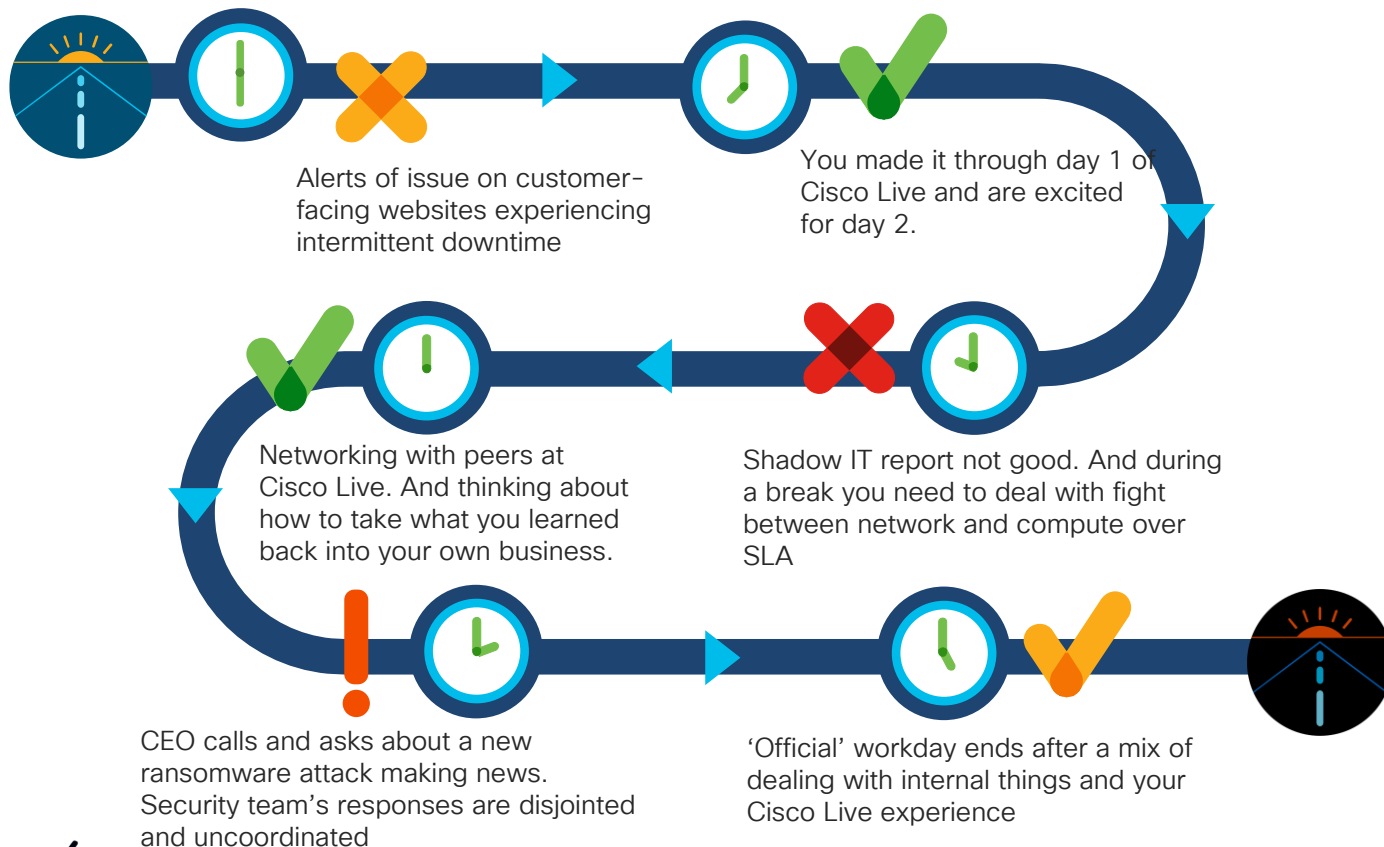
Use Cisco Webex Teams to chat with the speaker after the session

How

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



Is This Your Day?



Expanding Role of the IT department

Current Responsibilities

Equipping an agile and mobile workforce

Tackling risk and compliance

Bridging the talent gap



New Expectations

Leading digital transformation

Optimizing for innovation

Supporting exceptional customer experience

A photograph of the Golden Gate Bridge in San Francisco, viewed from a low angle looking down the length of the bridge towards the other side. The bridge's red-orange towers and suspension cables are prominent against a clear blue sky. The water below is a deep blue, and the distant hills are visible in the background.

“Between every user and application, there is a bridge”

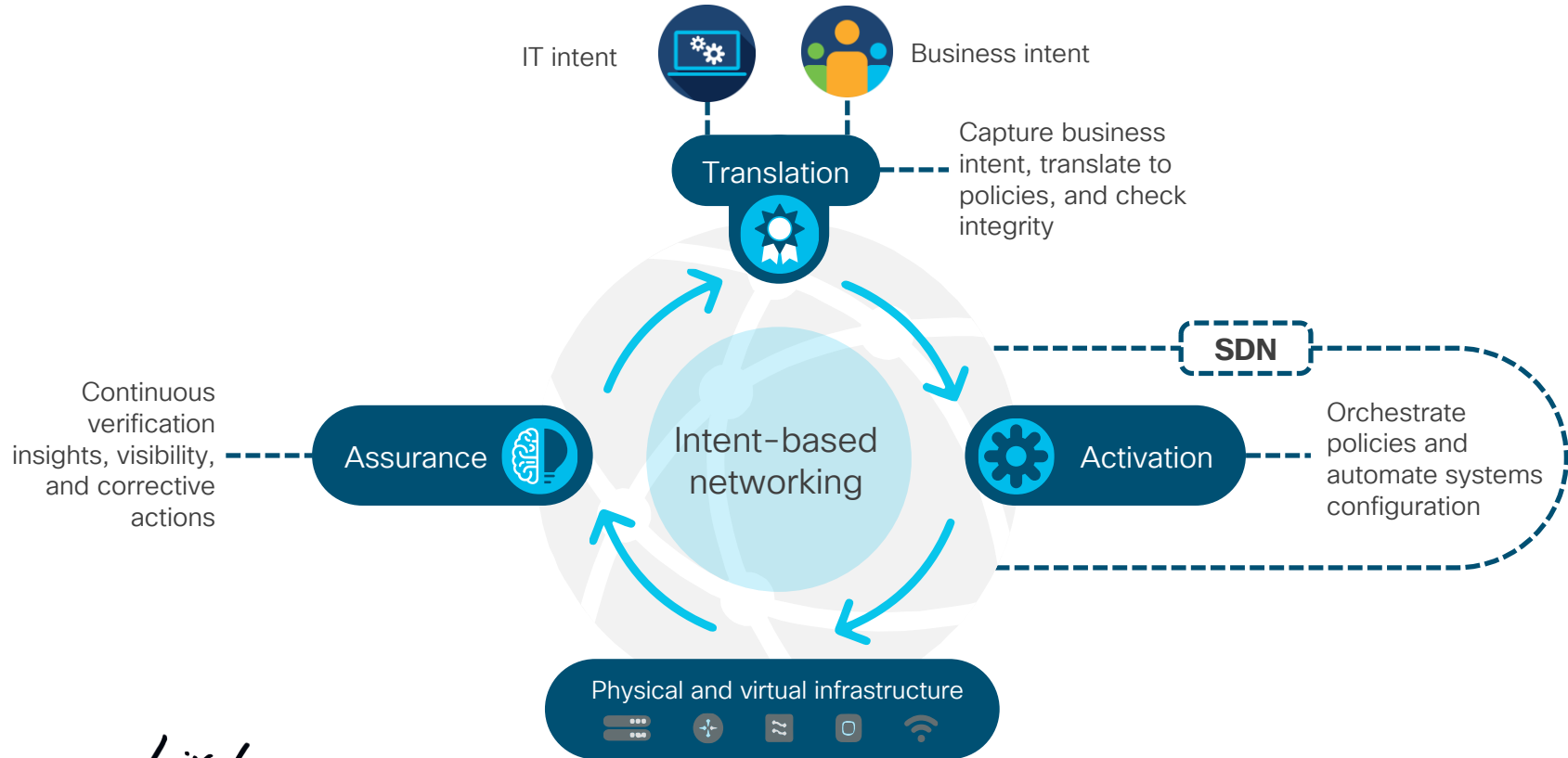


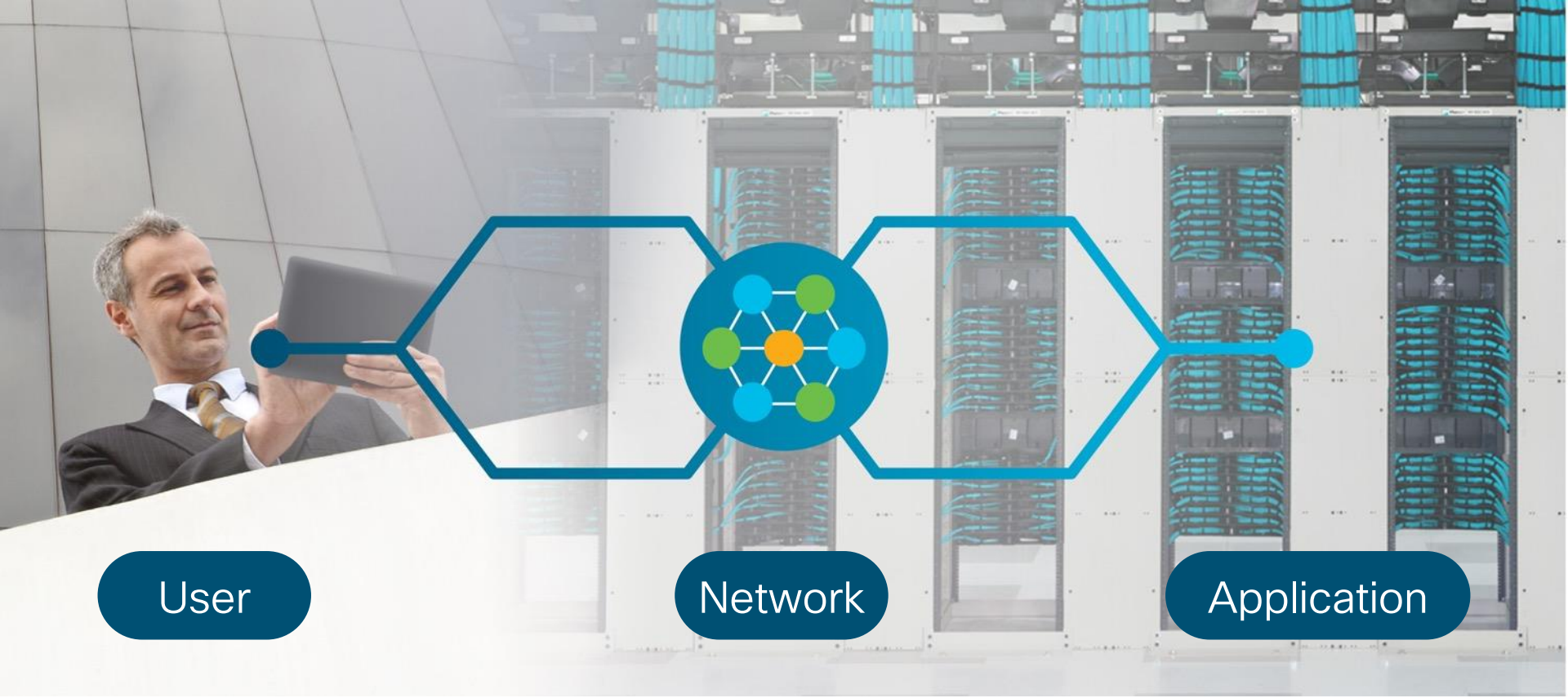
Introducing the Multi Domain Architecture

Governance

AGENDA

Introducing Intent Based Networking

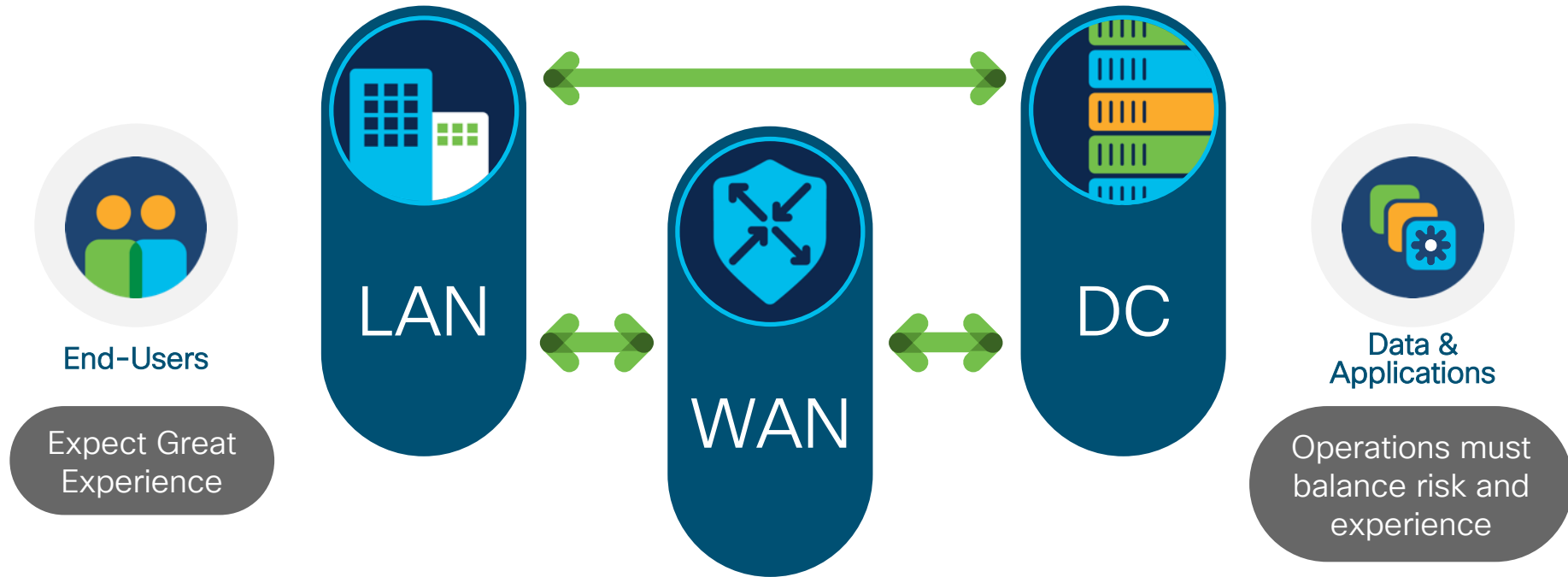




Experience versus Business Risk

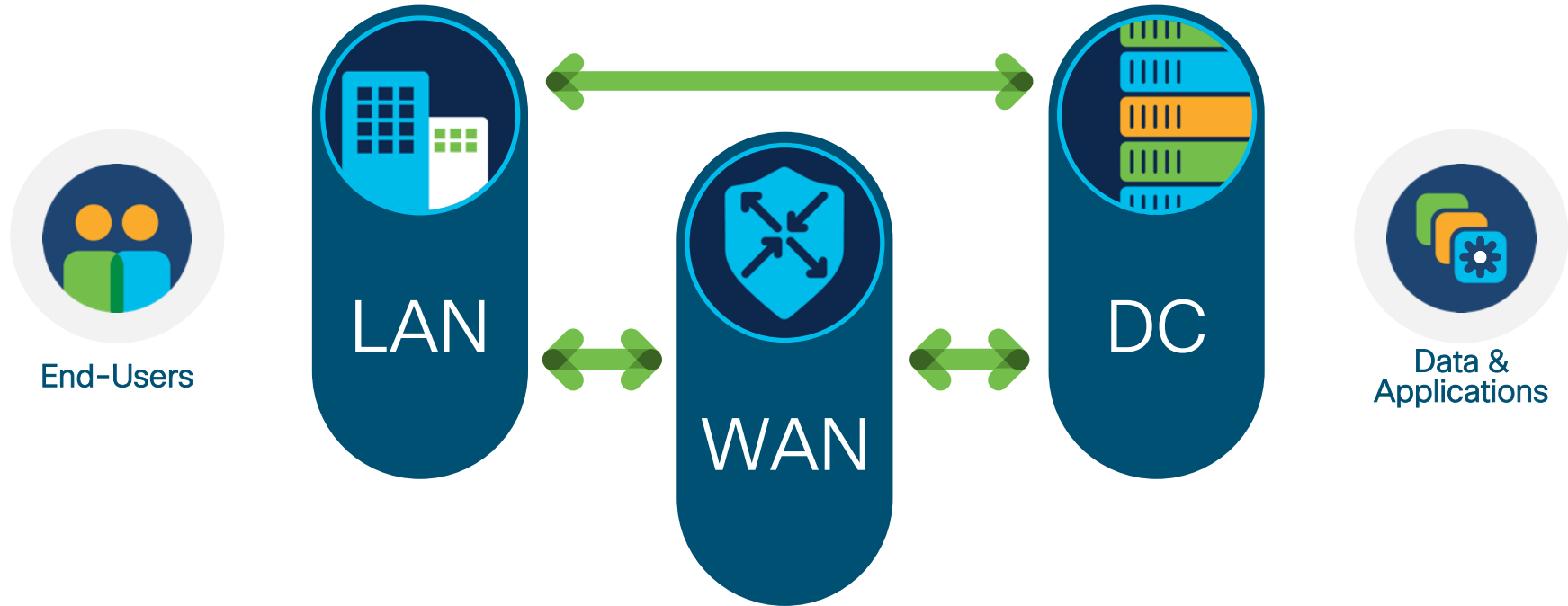
Experience versus Risk

Between users and applications, there is a network



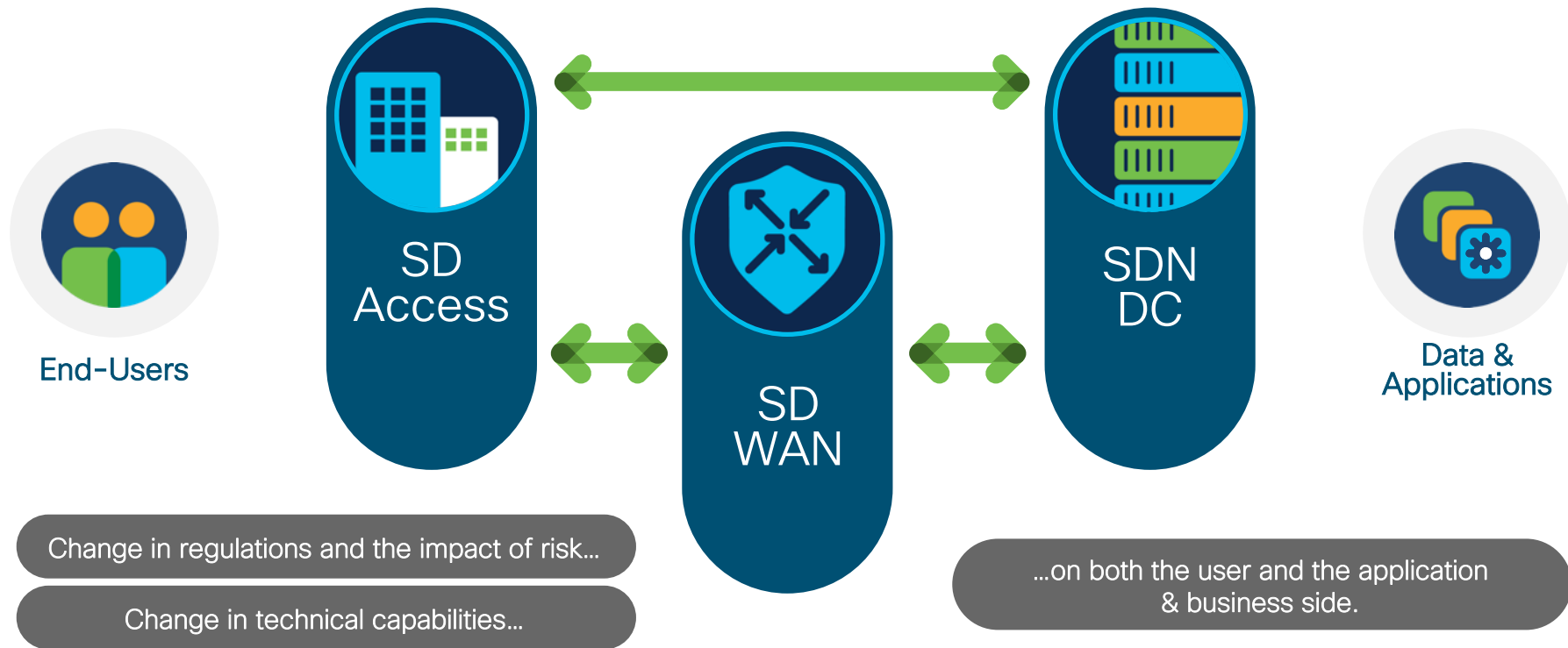
It used to be much simpler

Networks were relatively static



Time has brought change...

Intent Based Networking





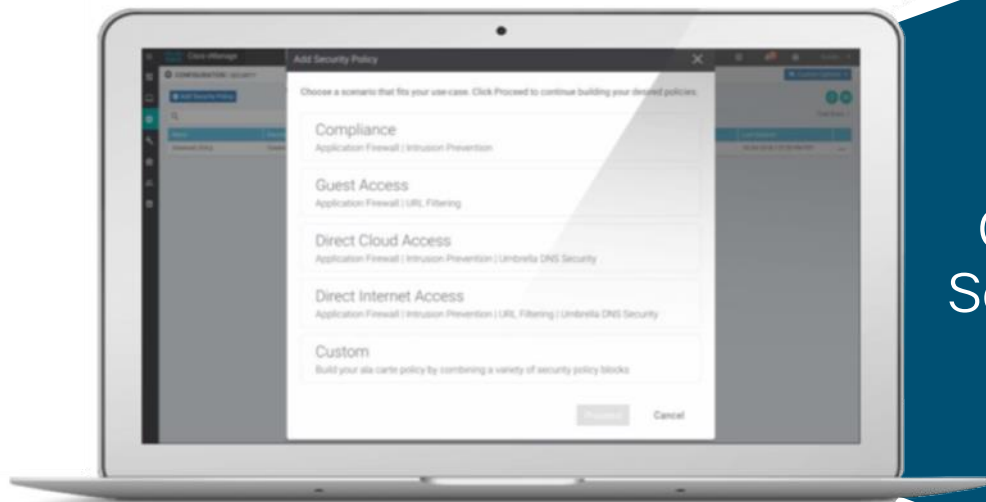
DEFINITION

Cloud Edge

“A set of **functional capabilities** related to **security** and/or **connectivity**. These are available for deployment both in a **centralized** as well as **distributed** method.”

One Cloud Edge solution example:

Bringing Together SD-WAN and Security



Cisco SD-WAN

Cisco
Security

Enterprise Firewall

+1400 layer 7 apps classified

Intrusion Protection System

Most widely deployed IPS engine in the world

URL - Filtering

Web reputation score using 82+ web categories

Simplified Cloud Security

Easy deployment for Cisco Umbrella

Advanced Malware Protection

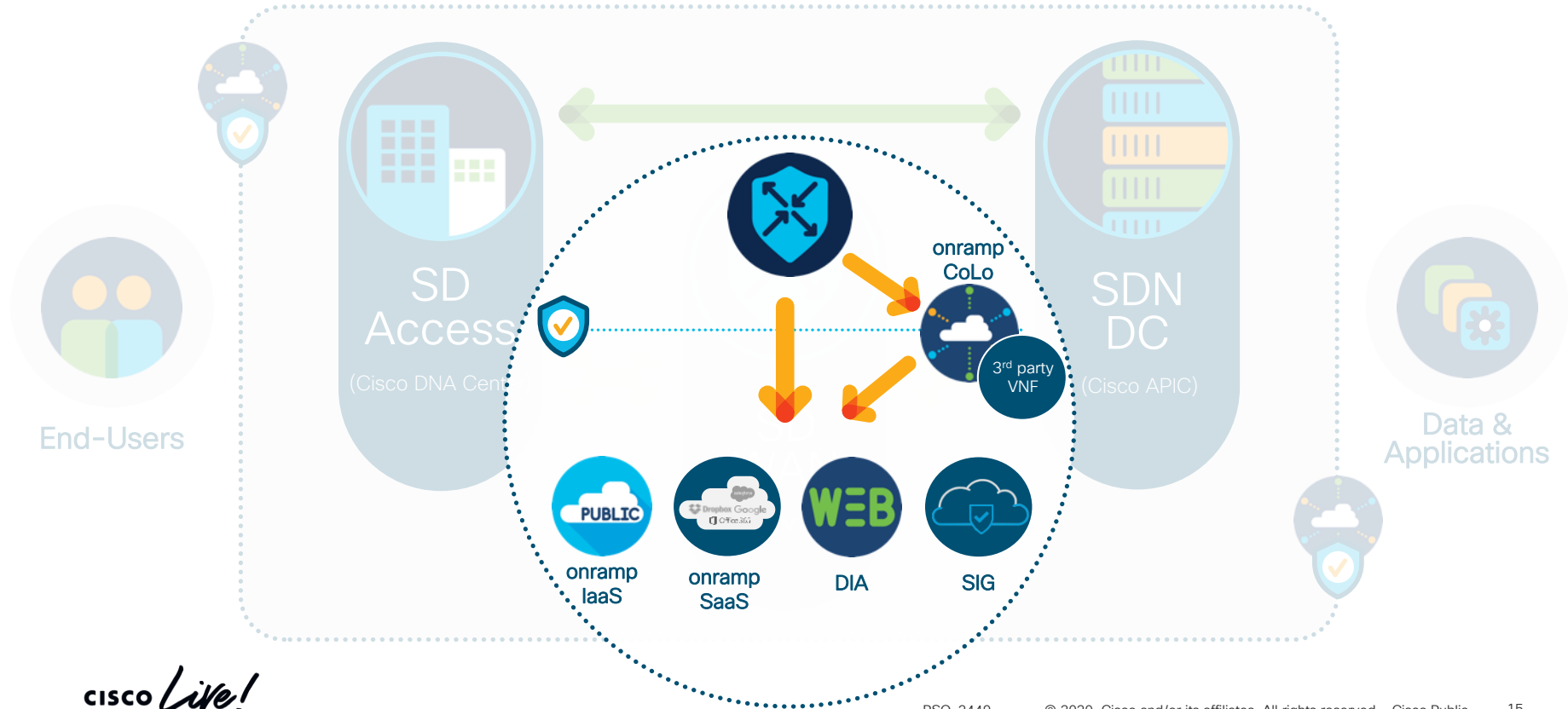
With File Analysis

Common security architecture across Viptela and Meraki powered by **TALOS**

With a trust boundary and Cloud Edge

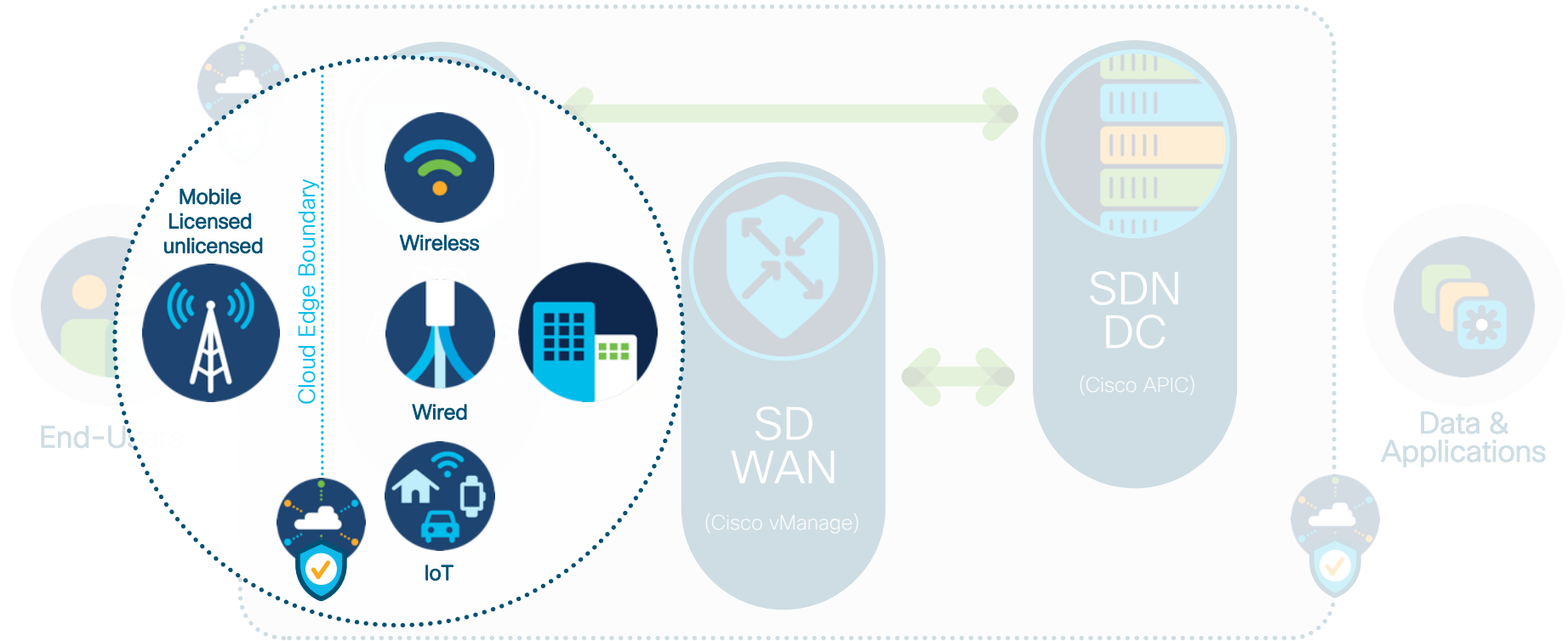


... with Hybrid Cloud Connectivity Needs

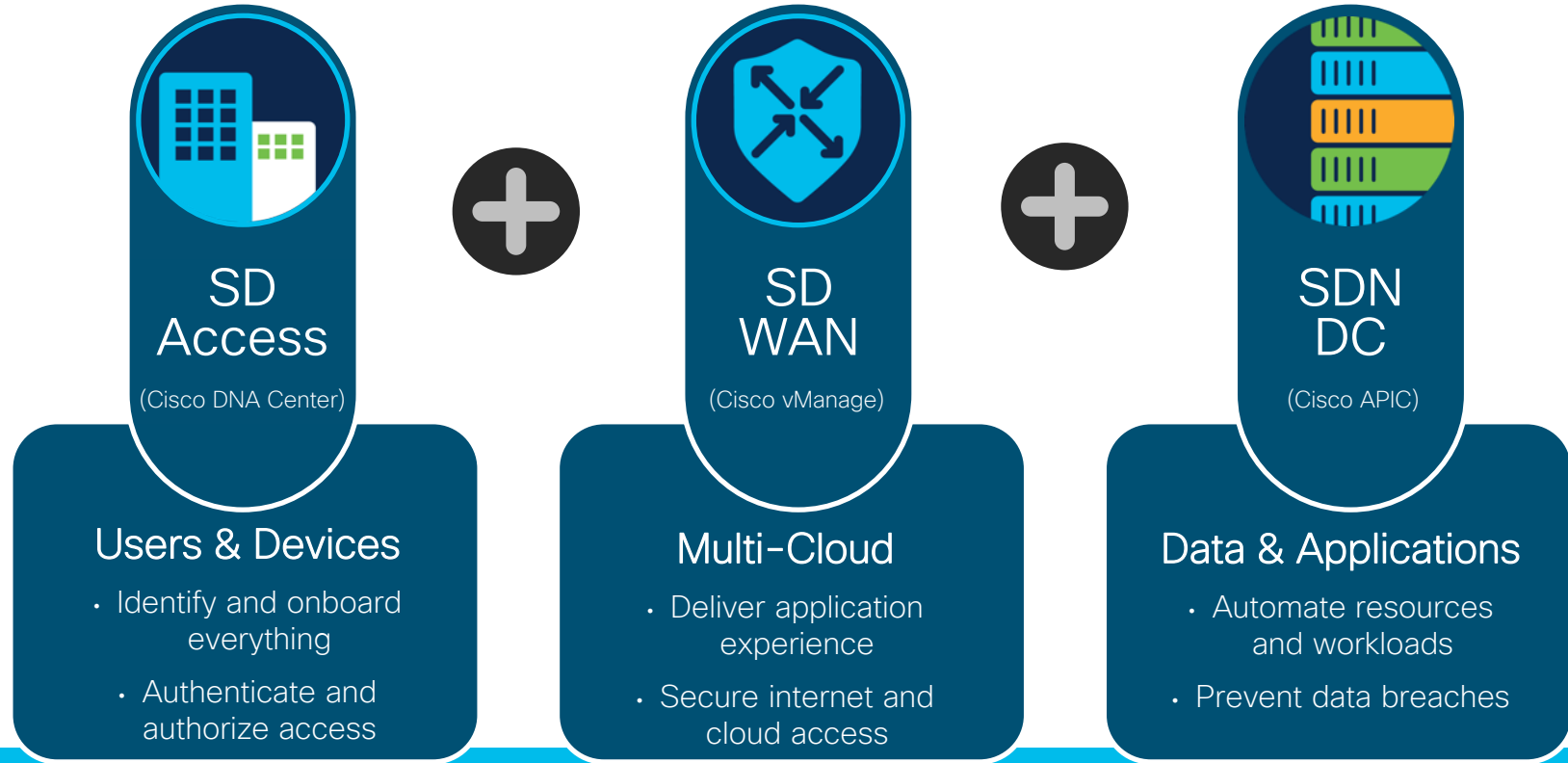


... and Consistent Access for Users and Devices

With a trust boundary and Cloud Edge

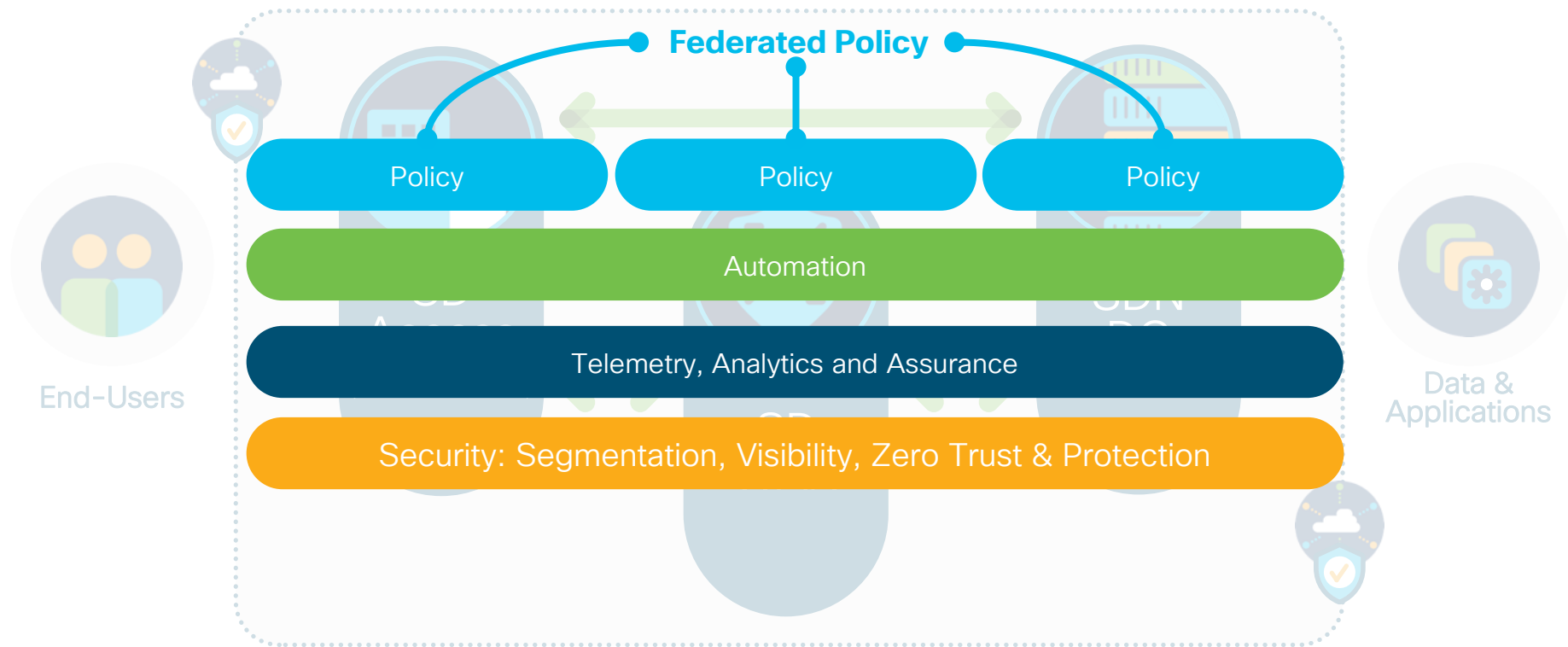


Each Domain Supports Its Unique Role



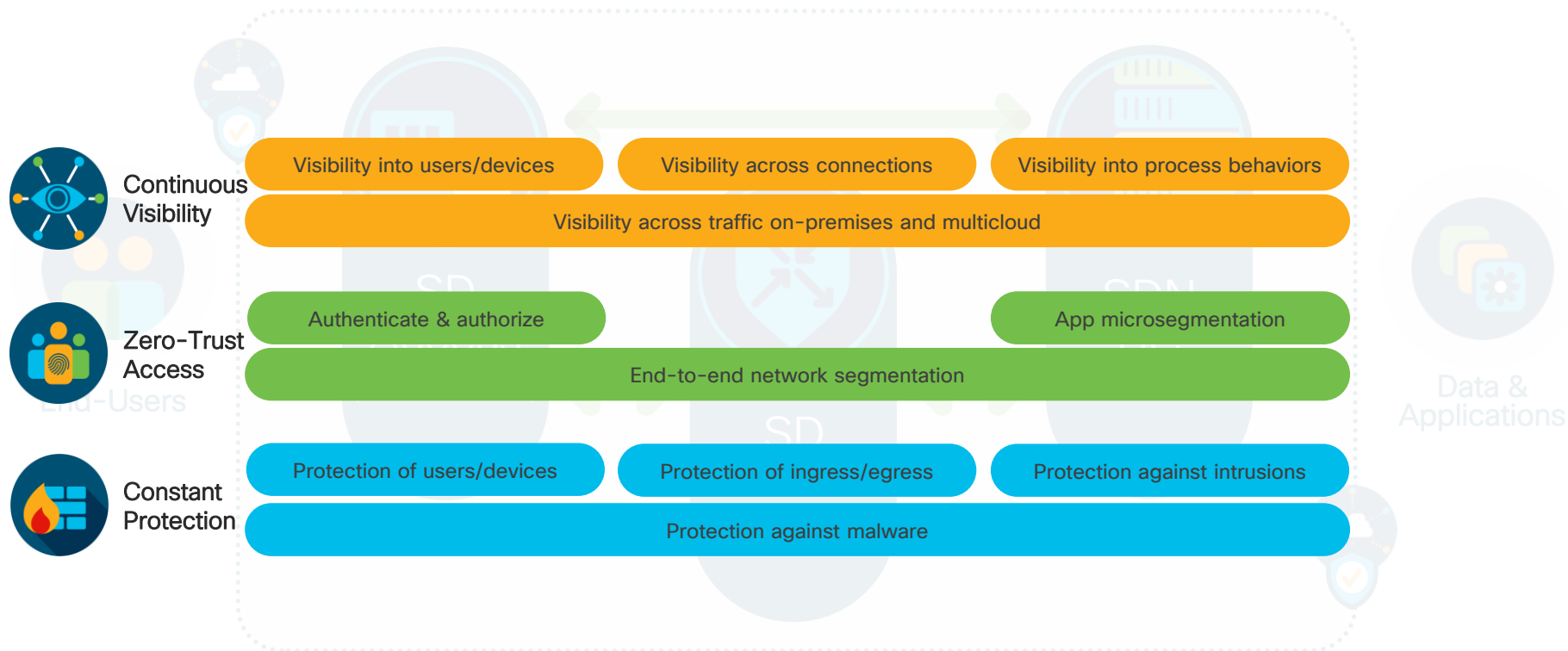
AND the domains must cooperate to meet business intent
Segmentation | App SLA | Security

Our Direction



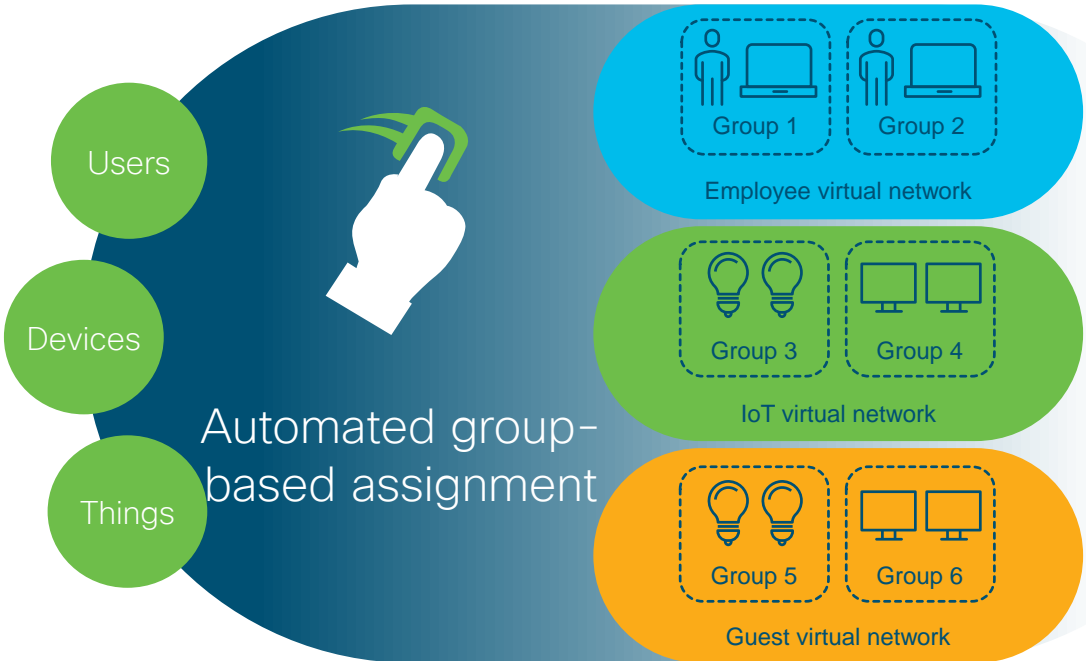
Infrastructure Security

A great user experience requires it



Use-Case: End-to-End Segmentation

Enforce Group Based Policies across multiple domains, automatically



IT simplicity

- No VLAN, ACLs or IP Address management required
- Single network fabric
- Define one consistent policy

Security

- Simplified micro-segmentation
- Policy enforcement

Completely automated | Policy follows identity | Minimize lateral threat movement

Multi Domain

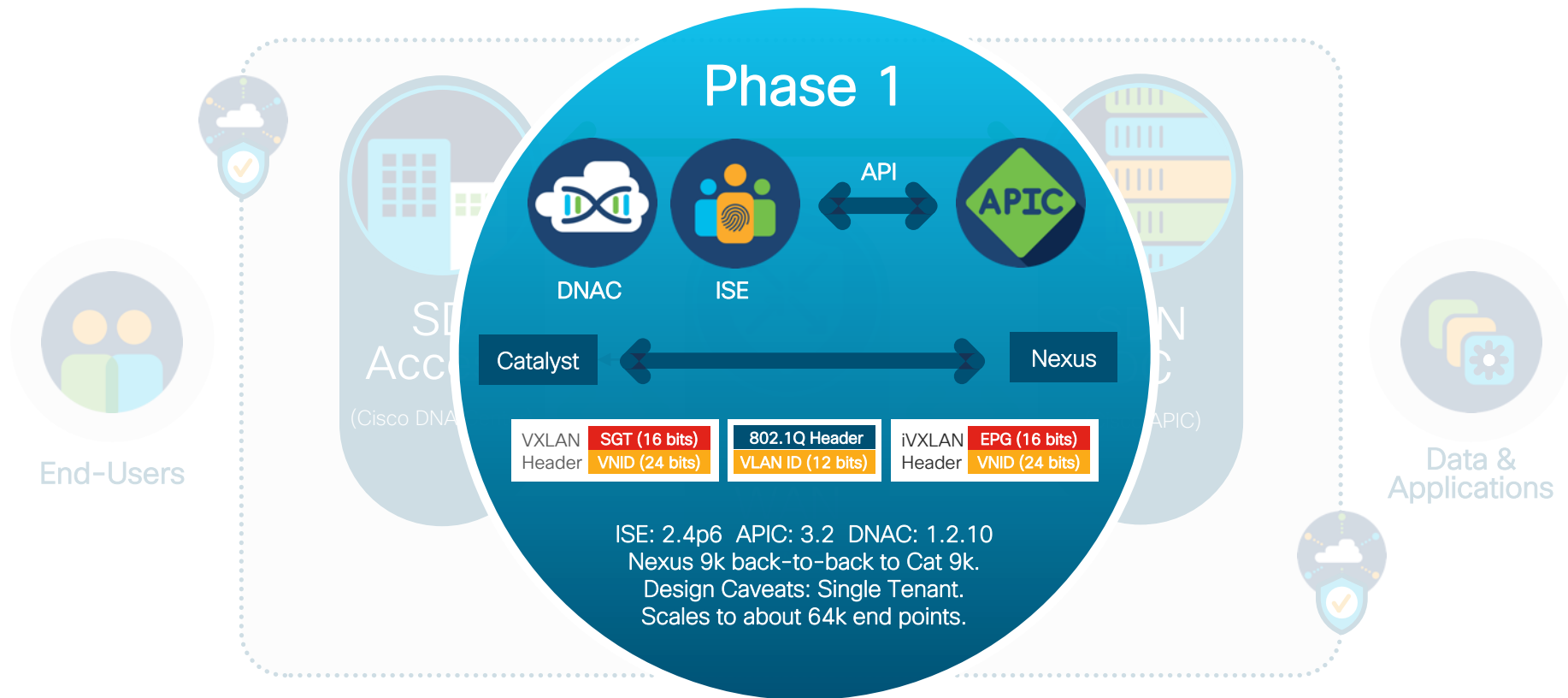
Pair-wise Integration Details

Disclaimer: The next section has forward looking information. That information can change.

Integration Details

Between SD-Access and SDN-DC (ACI)

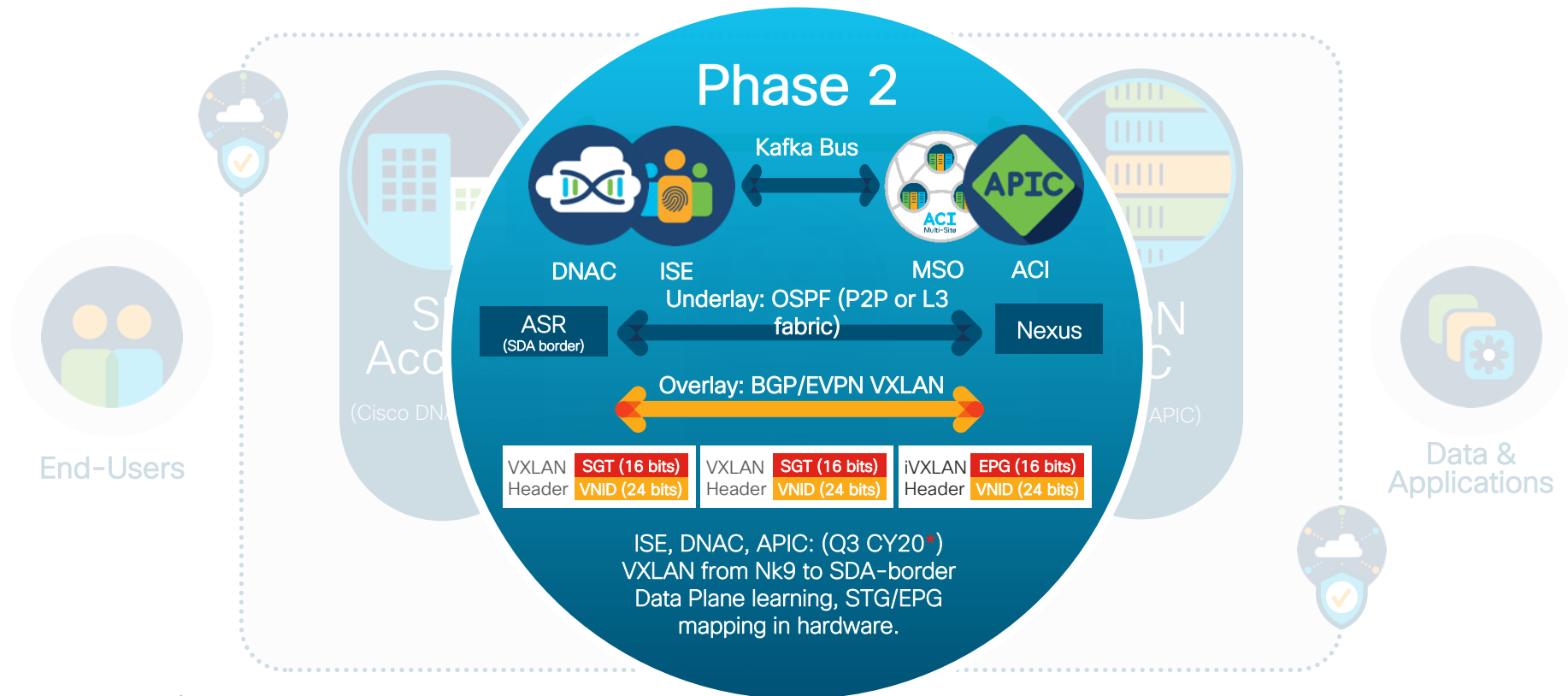
Shipping



Integration Details

Between SD-Access and SDN-DC (ACI)

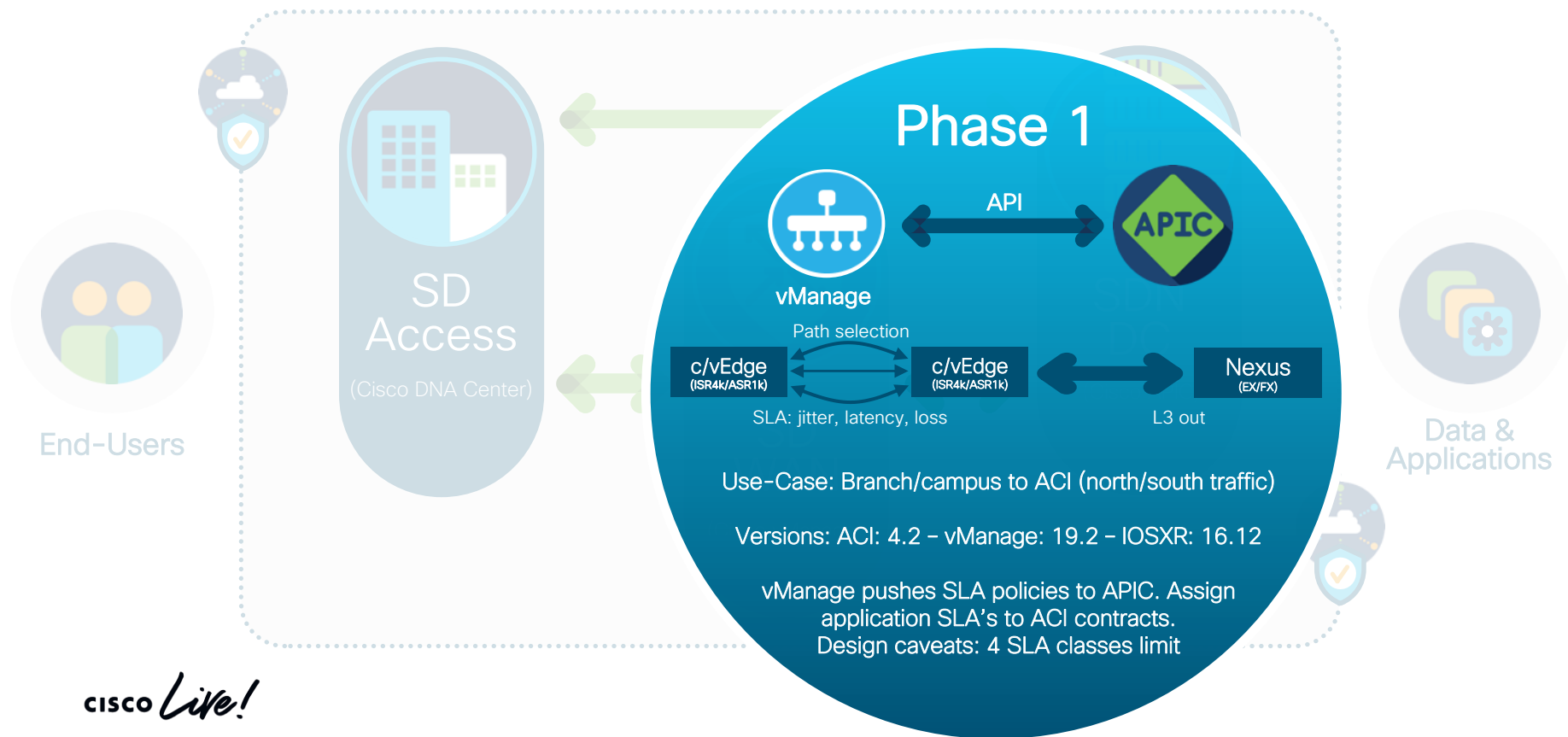
Future



Integration Details

Between SDN-DC and SD-WAN

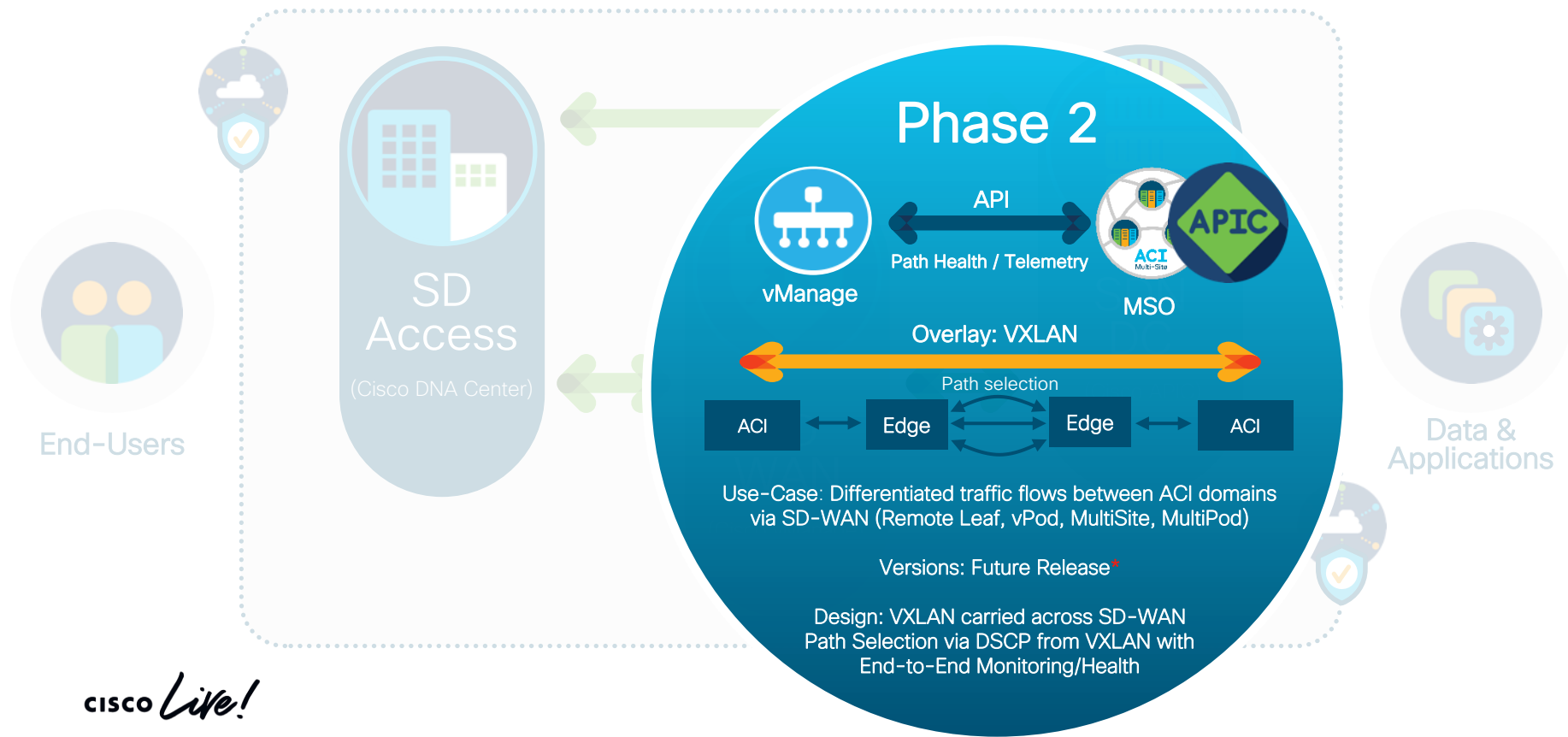
Shipping



Integration Details

Between SDN-DC and SD-WAN

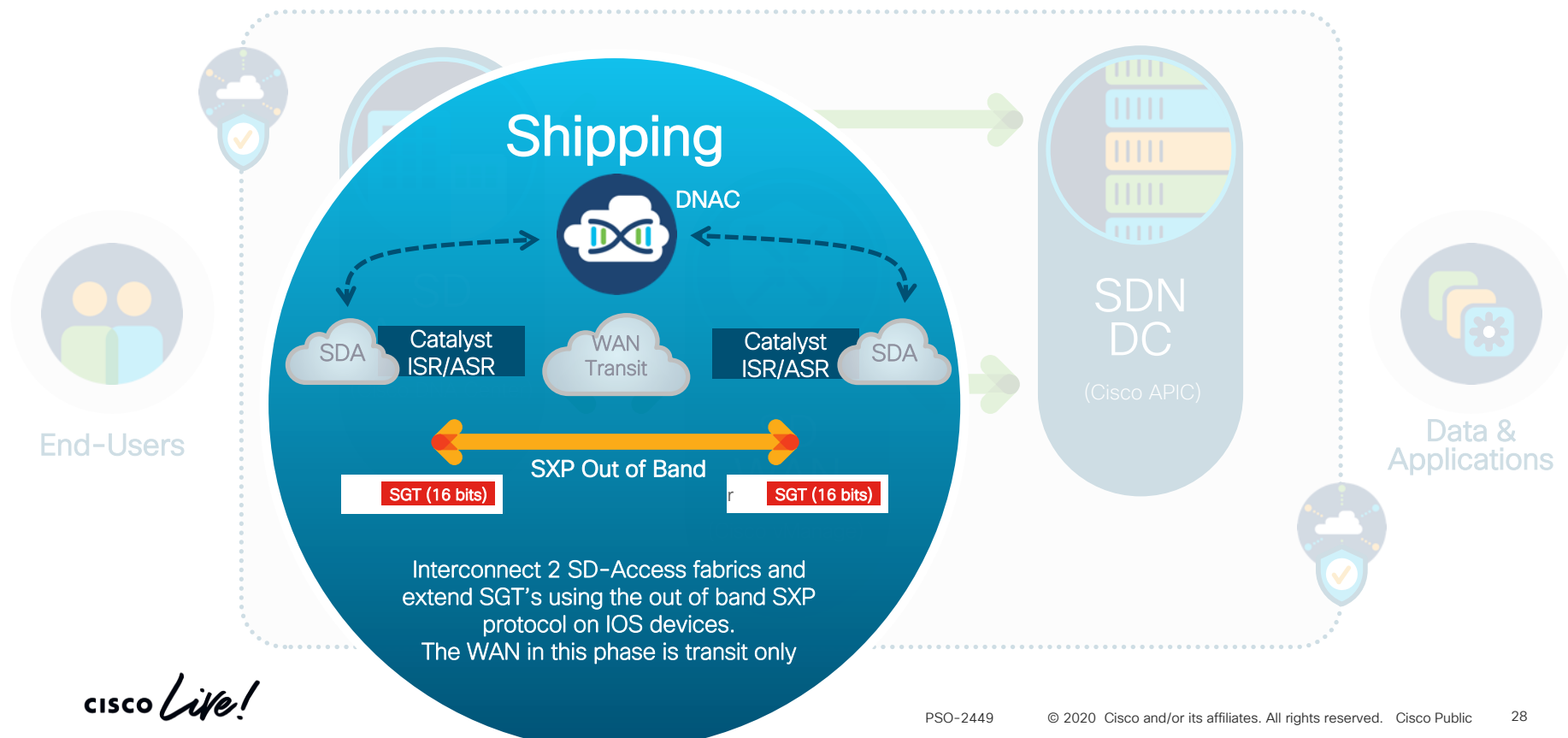
Future



Integration Details

Between SD-Access and SD-WAN

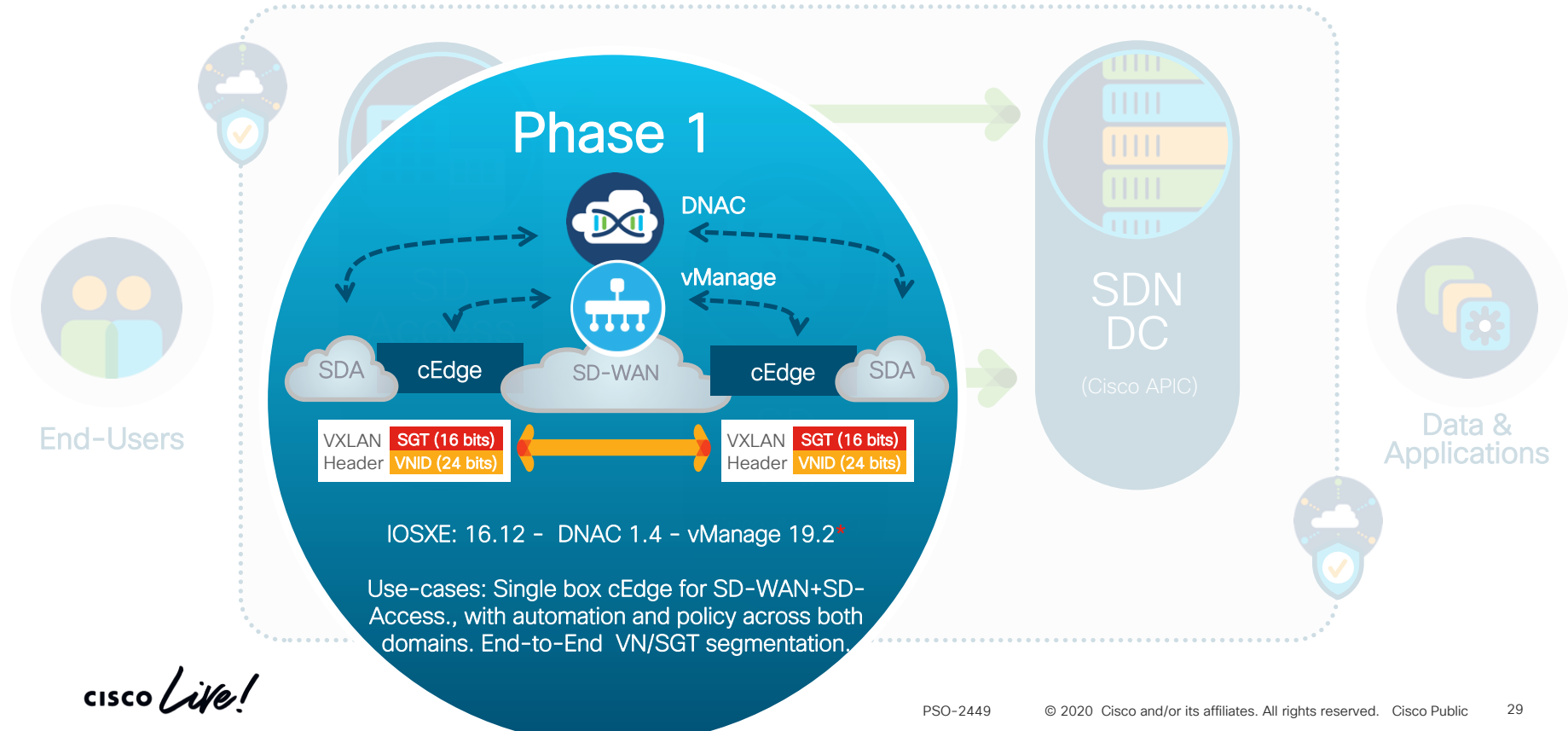
Shipping



Integration Details

Between SD-Access and SD-WAN

Future



A photograph of the Golden Gate Bridge in San Francisco, viewed from a low angle looking down the length of the bridge towards the other side. The bridge's red-orange towers and suspension cables are prominent against a clear blue sky. The water below is a deep blue, and the distant hills are visible in the background.

“Between every user and application, there is a bridge”



Introducing the Multi Domain Architecture

Governance

AGENDA

Helping individuals grow



Cisco's expanded certification suite

Cisco Certifications

	Associate Level	Specialist Level	Professional Level	Expert Level
Engineering				
Software				

cisco *Live!*



The Network is Open for Business!

Create connections never before possible.

Integrate devices from any provider.

Transform slow, manual processes into fast, automated workflows.

See Automation Use Cases



Move faster

Quickly deploy new networks and devices, automate key activities, and reduce touchpoints by centralizing monitoring and control.



Save money

Avoid unnecessary manual effort, manage global sites from anywhere, and save time by creating repeatable, automated processes.



Know more

Derive new insights from data, optimize network health, and reduce risk through end-to-end, proactive communication.

developer.cisco.com

Complete your online session survey



- Please complete your session survey after each session. Your feedback is very important.
- Complete a minimum of 4 session surveys and the Overall Conference survey (starting on Thursday) to receive your Cisco Live t-shirt.
- All surveys can be taken in the Cisco Events Mobile App or by logging in to the Content Catalog on ciscolive.com/emea.

Cisco Live sessions will be available for viewing on demand after the event at ciscolive.com.

Continue your education



Demos in the
Cisco Showcase



Walk-In Labs



Meet the Engineer
1:1 meetings



Related sessions



Thank you





You make **possible**