

The background is a vibrant, abstract composition of numerous colorful rays and shapes radiating from a central point. The colors include dark blue, light blue, green, yellow, orange, and red. Some shapes are elongated and pointed, while others are more rounded or circular. The overall effect is dynamic and energetic.

# TURN IT UP

CISCO *Live!*

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The bridge to possible

# Updated Cisco SD-Access Migration Strategies

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CCIE#17805 (R&S, SEC), CCDE#2013::3  
BRKENS-2008



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# Agenda

- Introduction
- Flexible Cisco SD-Access
- New Feature Summary
- Example Migration
- Layer 2 Access
- From Enterprise MPLS to Cisco SD-Access
- Conclusion

# Introduction



# Introduction

- The comprehensive history:
  - Locate [DGTL-BRKENS-3822](#) on [www.ciscolive.com](http://www.ciscolive.com)
  - Enjoy (?) 3 hours of migration tools, strategies and demos

# Introduction

- The comprehensive history:
  - Locate [DGTL-BRKENS-3822](https://www.ciscolive.com/DGTL-BRKENS-3822) on [www.ciscolive.com](https://www.ciscolive.com) .
  - Enjoy (?) 3 hours of migration tools, strategies and demos.
- Added for your entertainment: background antics!



# Introduction

- The plan for today:
  - Important updates to the comprehensive history in 45 minutes...

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  - Important updates to the comprehensive history in 45 minutes...





# There will be Questions

- This presentation breaks the rules, for the right reasons, I hope.
- Ask the Cisco Sales or CX teams for help.
- Leverage the Cisco SD-Access communities: <http://cs.co/sda-community> .

# The “Best” Solution

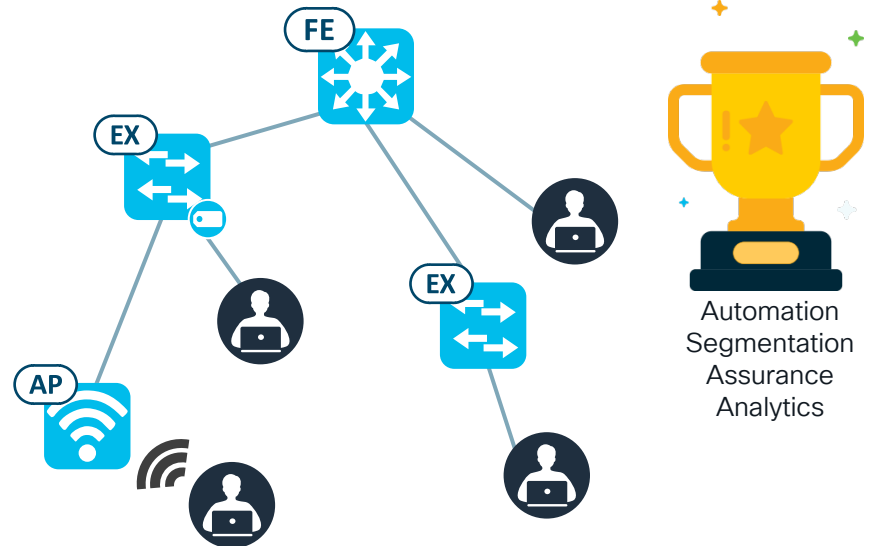
- Cisco **SD-Access to the Campus Edge** of the network is the **gold standard** of Automation, Segmentation, Assurance and Analytics.



Automation  
Segmentation  
Assurance  
Analytics

# The “Best” Solution

- Cisco **SD-Access to the Campus Edge** of the network is the **gold standard** of Automation, Segmentation, Assurance and Analytics.
- This means every endpoint in the campus or branch is connected to one of the following:
  1. Fabric Edge Node
  2. Policy Extended Node
  3. Extended Node
  4. Fabric-Enabled Wireless SSID



# The Reality of Some Networks

- Cisco SD-Access to the entire Campus Edge is not always possible on day 1, and sometimes, it may never be possible.



# Nomenclature

- **Macro-segmentation**. Separation of routing or switching domains. Traditionally a VRF or VLAN, but in the context of this presentation, L3VN and L2VN.
- **Endpoint Analytics**. Endpoint visibility solution. Gathers context from your network and peripherals to classify endpoints. Classifications can then be referenced in ISE to assign an SGT or a profile. Aka EA.
- **Group Based Policy Analytics**. An application in DNA Center which helps administrators understand group to group interactions and build Group Based Policies. Groups can be SGTs, ISE profiles or Stealthwatch Host Groups.
- **Scalable Group Tag**. A tag associated or attached to IP traffic from entities with equal security policy requirements. Aka SGT.
- **Group Based Policy**. Permit/Deny connectivity controls between different SGTs. Aka GBP or micro-segmentation.
- **Fabric**. In the context of this presentation, an overlay-based connectivity solution implemented by a Cisco SD-Access Border Nodes, Control Plane Nodes, Edge Nodes and optionally Fabric-Enabled Wireless.

# Flexible Cisco SD-Access

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# Flexible Cisco SD-Access

## What and When?

Feature	DNA Center
Interop with traditional Cisco or 3 <sup>rd</sup> party switching	2.1.2 – Available now
Fabric without ISE	2.1.2 – Available now
Add ISE to an operational fabric	2.1.2 – Available now
Customizable VLAN ID	2.2.2 – Q2CY2021
L2VN (Layer 2 Virtual Network)	Q3CY2021
Overlapping IP range in L3VN (Layer 3 Virtual Network)	Q3CY2021

# Flexible Cisco SD-Access

## Why?

Customizable and phased implementation of an extensible network, capable of delivering a suite of Cisco value vectors best aligned to your needs.

### Macro-Segmentation (w/ Optional ISE)



### Deep Endpoint Visibility (w/ Optional Fabric)



### Micro-Segmentation (w/ Optional Fabric)



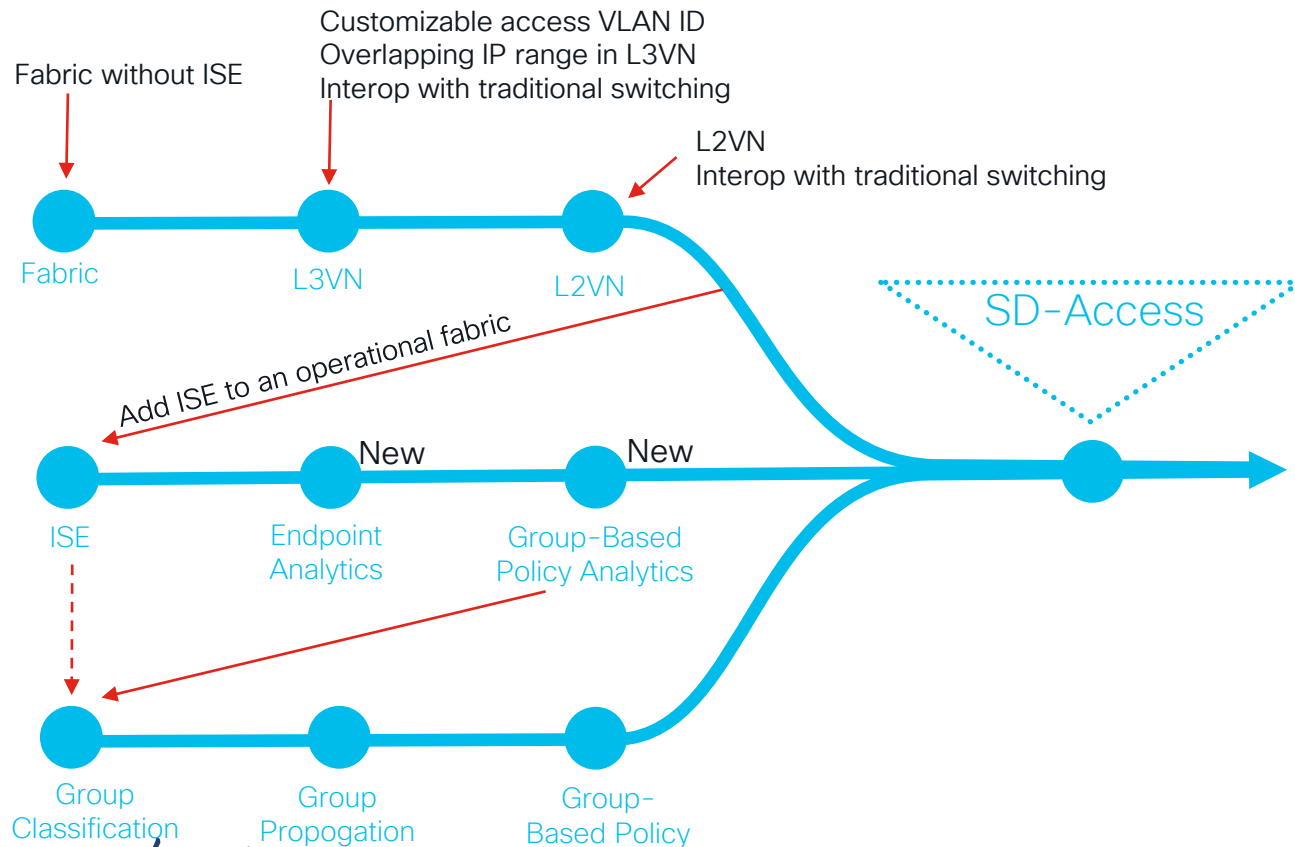
## SD-Access

- **Network Segmentation:**  
Leverage Fabric to provide L3, L2 Connectivity & network operations across Multi-Site LAN & WLAN with integrated identity-context
- **Endpoint Visibility:**  
Identify and group endpoints. Map their interactions and define access policies
- **Group Segmentation:**  
Enforce group-based access policies and secure network through segmentation



# Flexible Cisco SD-Access

## How?



- **Network Segmentation:**  
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- **Endpoint Visibility:**  
Identify and group endpoints. Map their interactions and define access policies
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Enforce group-based access policies and secure network through segmentation

# New Feature Summary



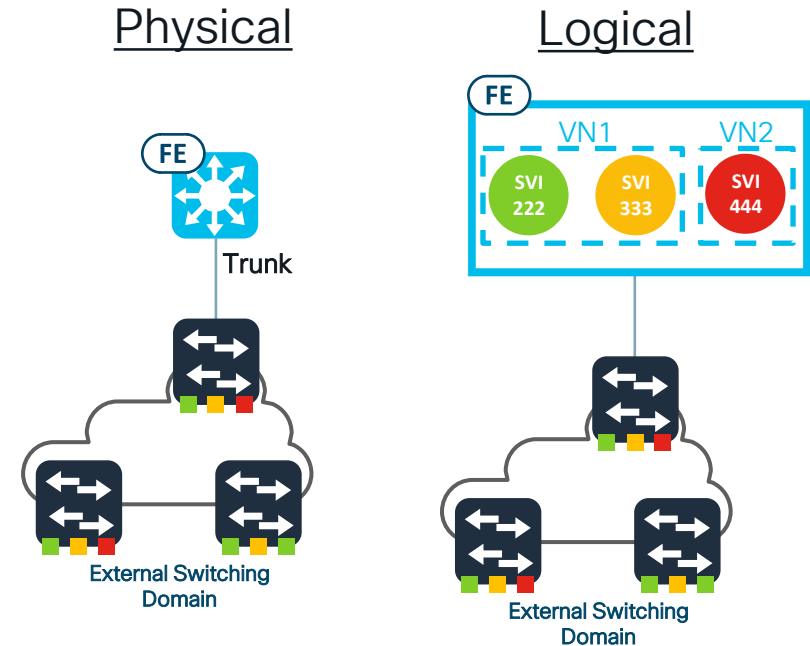
# Custom VLAN ID

## Summary

- Edge Node access VLAN ID is customizable to match external switching domain.
- Available in DNA Center 2.2.2 – ETA Q2CY2021.

## More Details

- VLAN name will no longer be auto-generated by DNA Center. Efficient ISE policy design requires common VLAN names at different fabric sites.
- Custom VLAN ID also enhances L2 and L3 handoff flexibility on Border Node.
- See BRKENS-2006 or future Custom VLAN release collateral for more information.



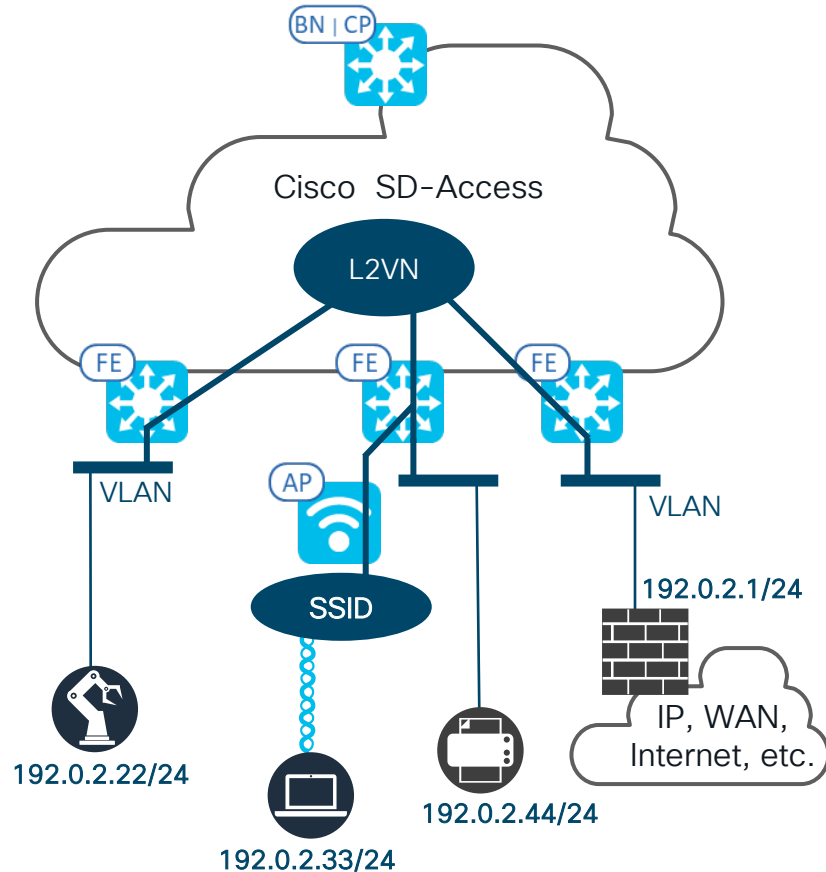
# Layer 2 Virtual Network

## Summary

- L2VN provides Layer 2 connectivity between wired and wireless endpoints, analogous to VLAN in traditional networking.
- L2VN is fabric site wide and topology agnostic.
- Used when IP gateway is not required within the SD-Access fabric.
- L2VN was always automatically created when IP gateway was inside the fabric (IP Pool anycast gateway).
- Availability ETA Q3CY2021.

## More Details

- Specific functionality, design considerations and prerequisites will be shared in future L2VN release collateral.



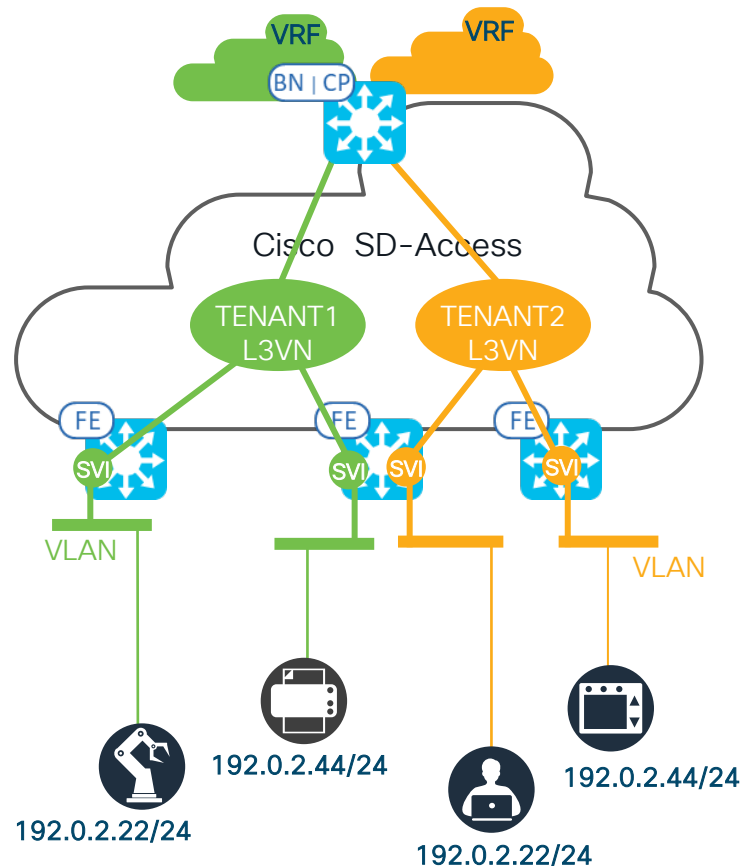
# Layer 3 Virtual Networks with Overlapping IP Ranges

## Summary

- Overlapping IP range can operate in different L3VNs in the same fabric site.
- Availability ETA Q3CY2021.

## More Details

- Specific functionality, design considerations and prerequisites will be shared in future L3VN overlapping IP range release collateral.



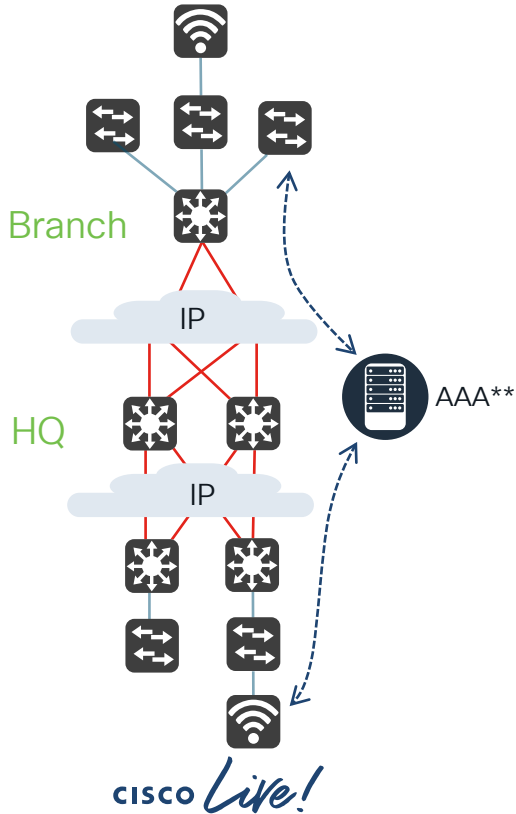
# Example Migration



# Cisco SD-Access for Macro-Segmentation

## Example

Step 0. Existing network.

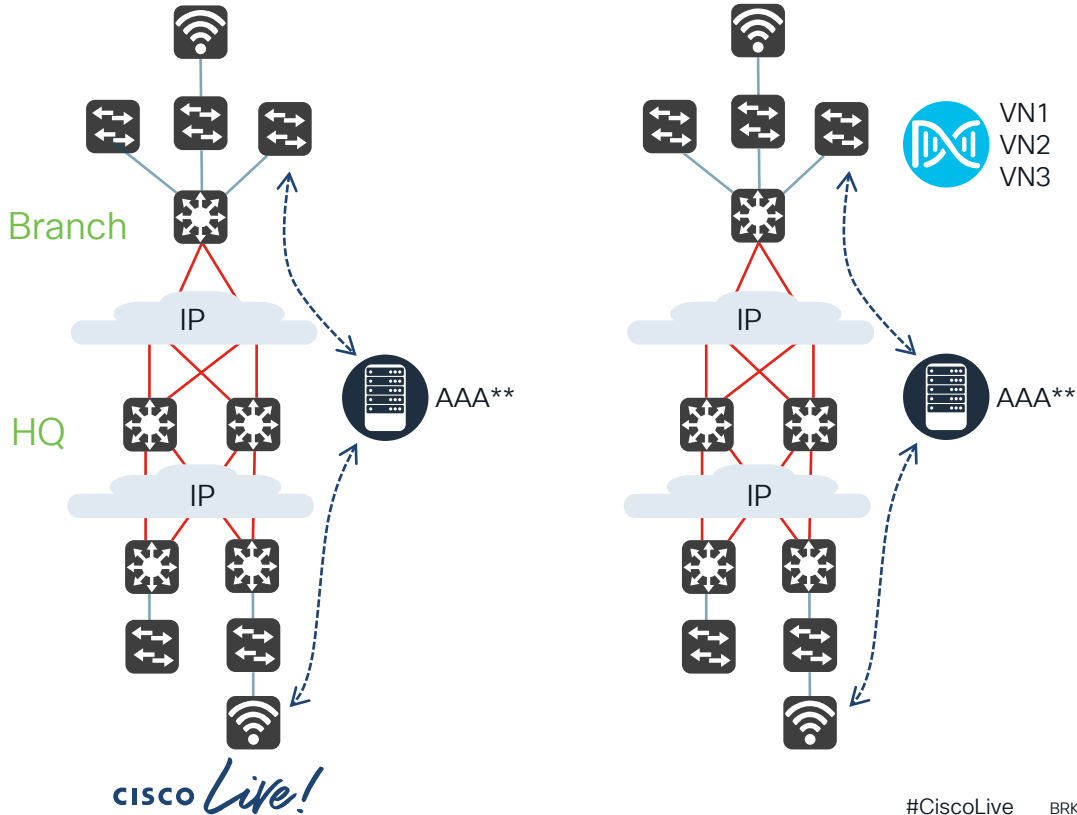


\*\*ISE or 3<sup>rd</sup> party AAA

# Cisco SD-Access for Macro-Segmentation

## Example

Step 0. Existing network. → Step 1. Add Cisco DNA Center. Define VN3.



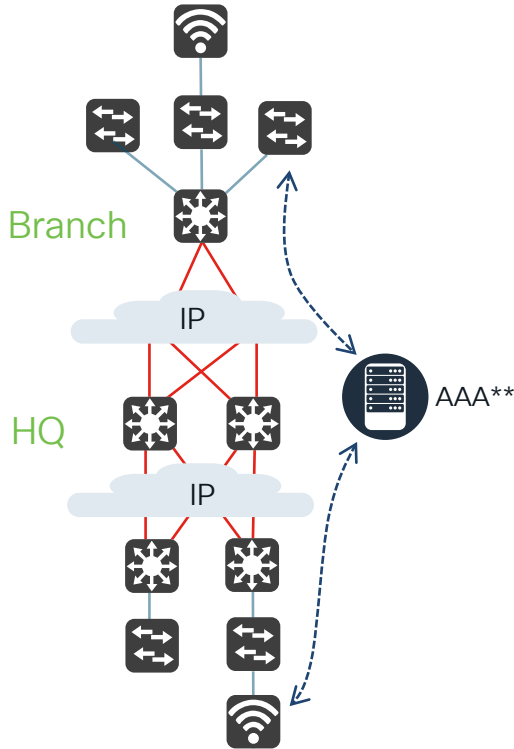
\*\*ISE or 3rd party AAA



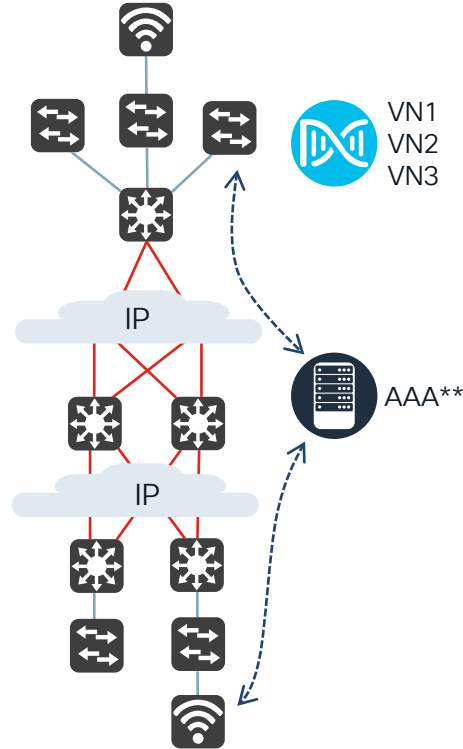
# Cisco SD-Access for Macro-Segmentation

## Example

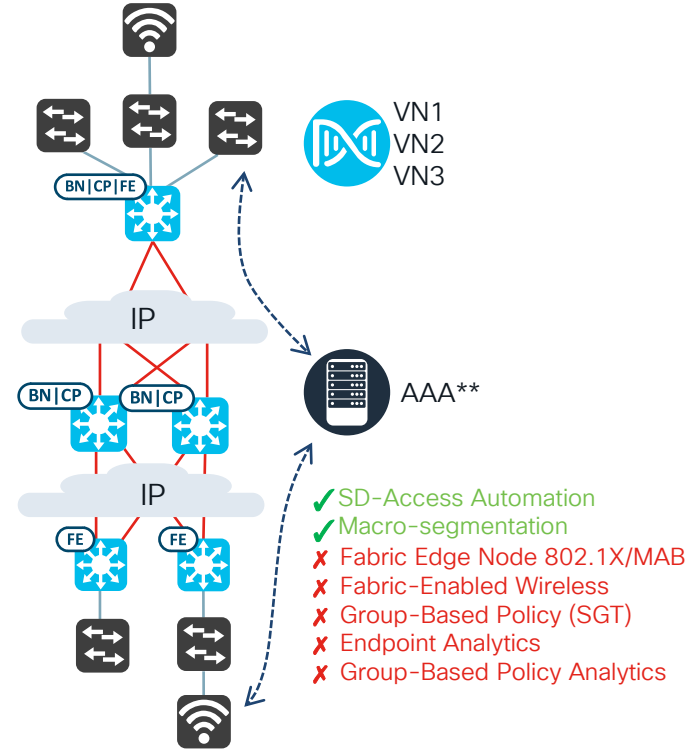
Step 0. Existing network.



Step 1. Add Cisco DNA Center. Define VNs.



Step 2. Provision Fabric Nodes for VN-based macro-segmentation





# Cisco SD-Access Everywhere for Full Functionality

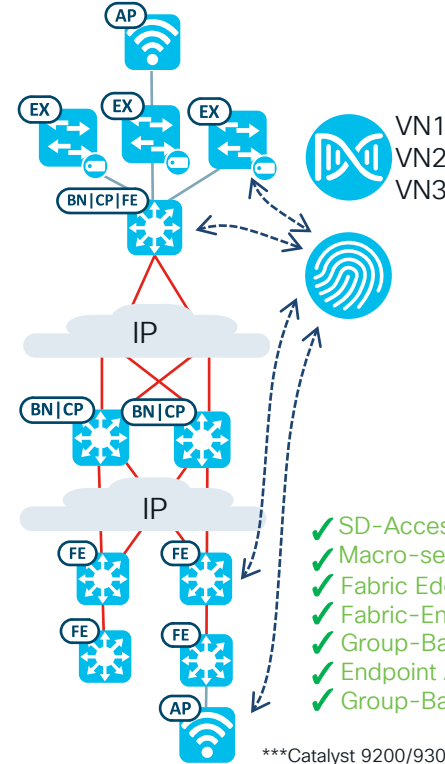
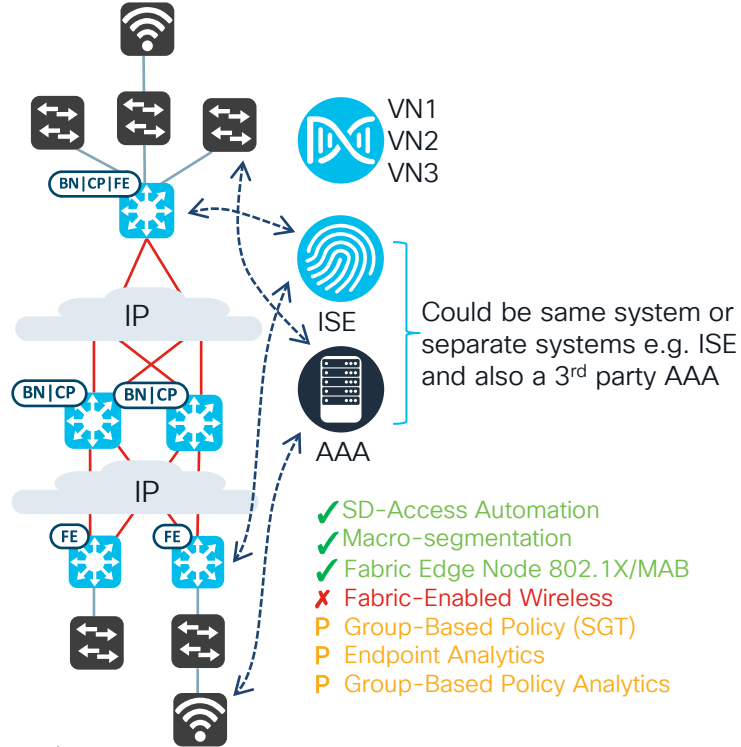
## Example

Step 3. Integrate DNA Center and ISE. Provision ISE to existing SD-Access fabric as AAA server

Step 4. Upgrade switching and wireless to SD-Access

Branch

HQ



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P = Partial. Situationally dependent

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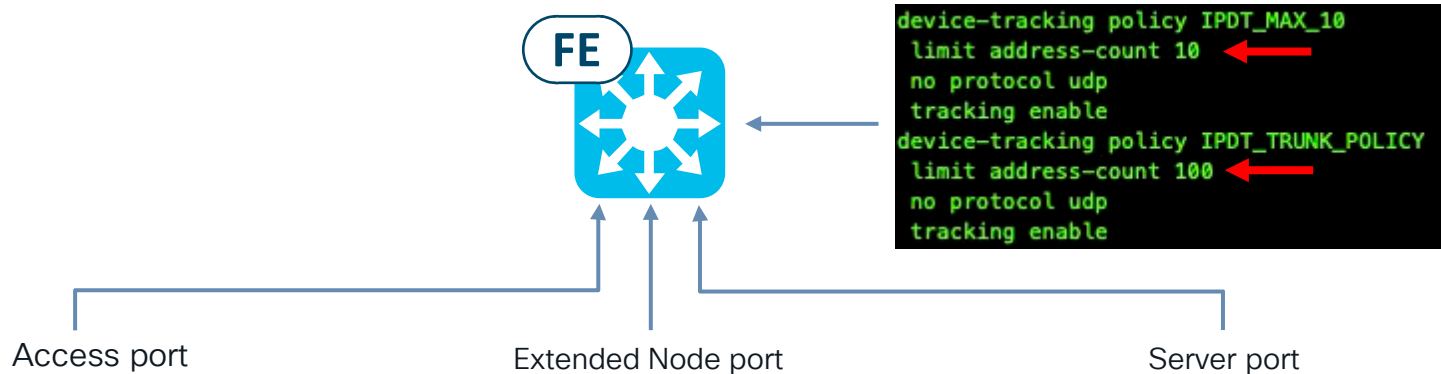
\*\*\*Catalyst 9200/9300/9400 for Edge Node switching  
\*\*\*Telemetry Traffic Appliance for Fabric-Enabled Wireless

# Layer 2 Access



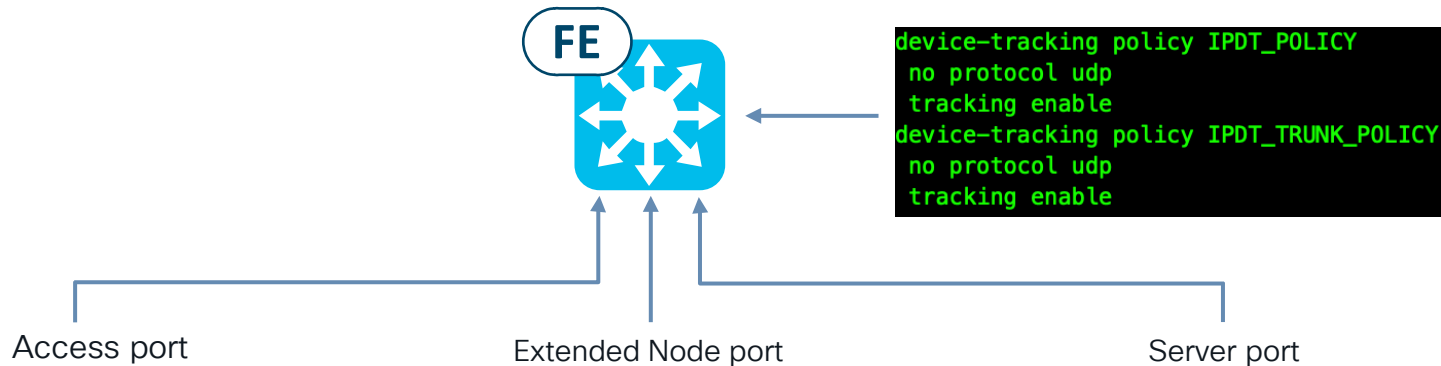
# Fabric Edge Node IP Address Limits Removed

- Previously on an Edge Node:
  - Access ports were limited to ten (10) IP addresses
  - Server ports and Extended Node ports were limited to 100 IP addresses



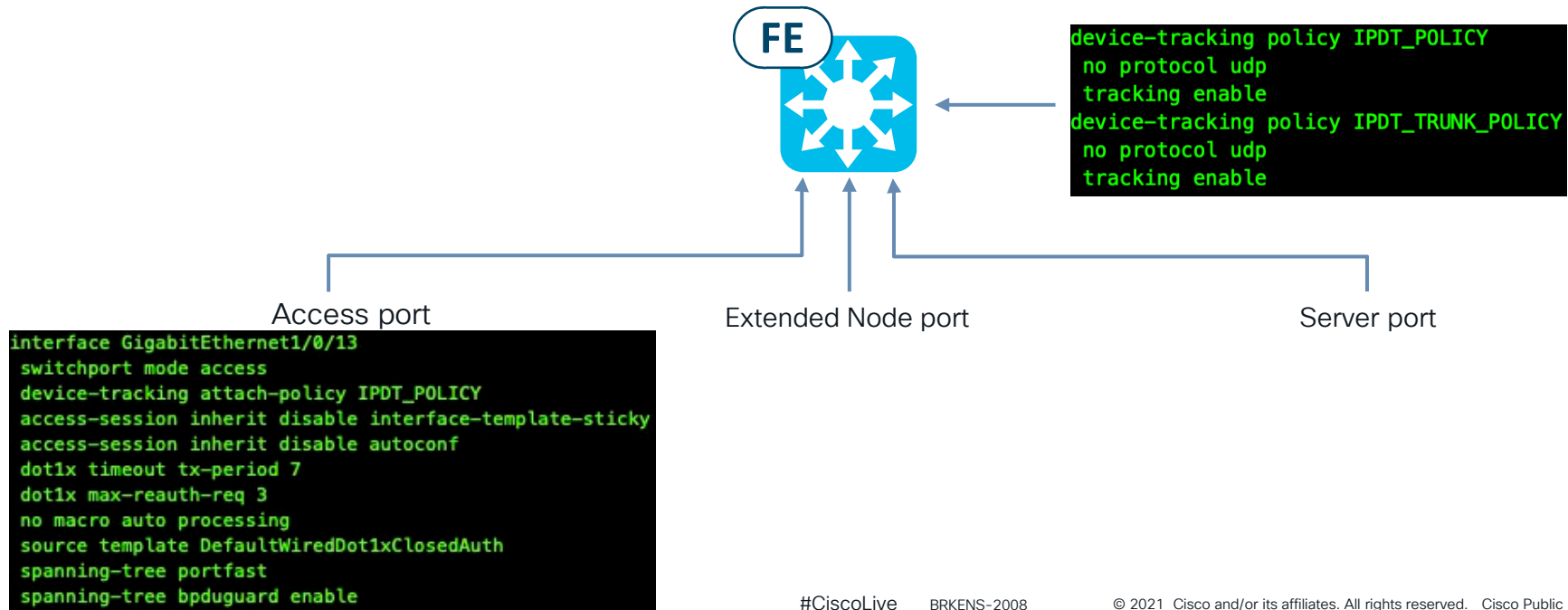
# Fabric Edge Node IP Address Limits Removed

- As of Cisco DNA Center 2.1.2, all Edge Node port IP address limits have been removed.



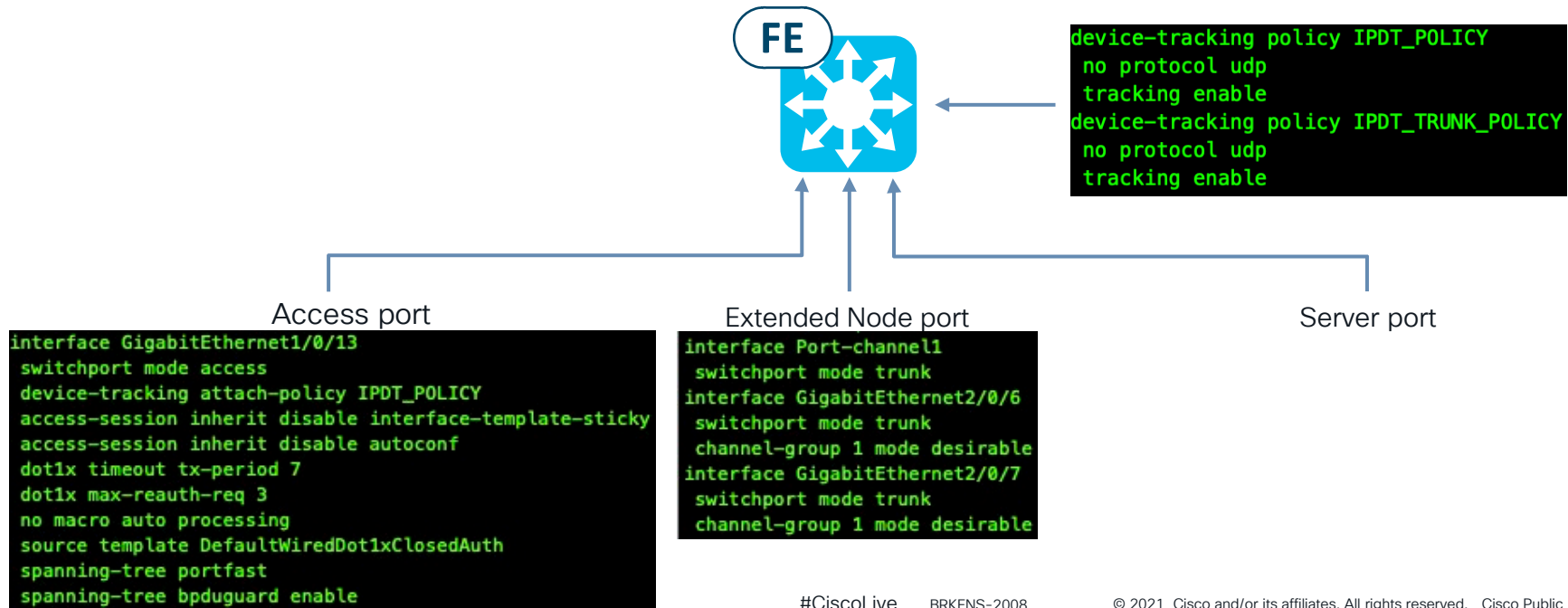
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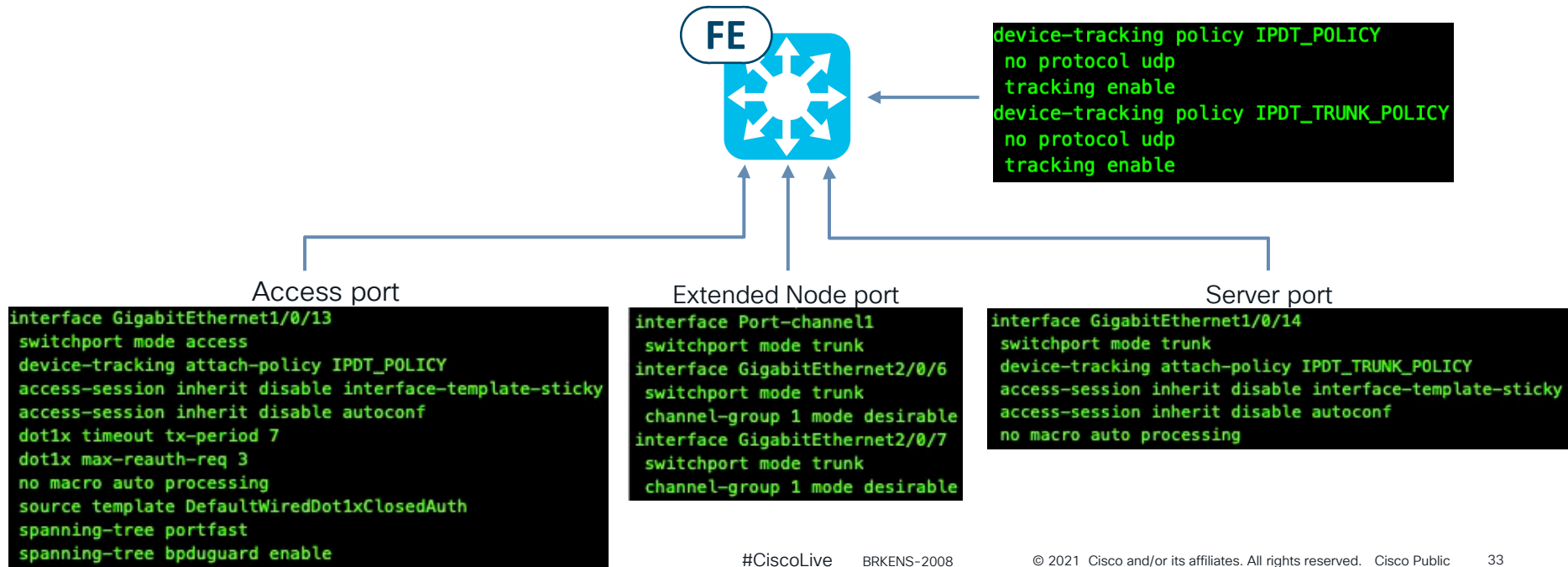
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# Fabric Edge Node IP Address Limits Removed

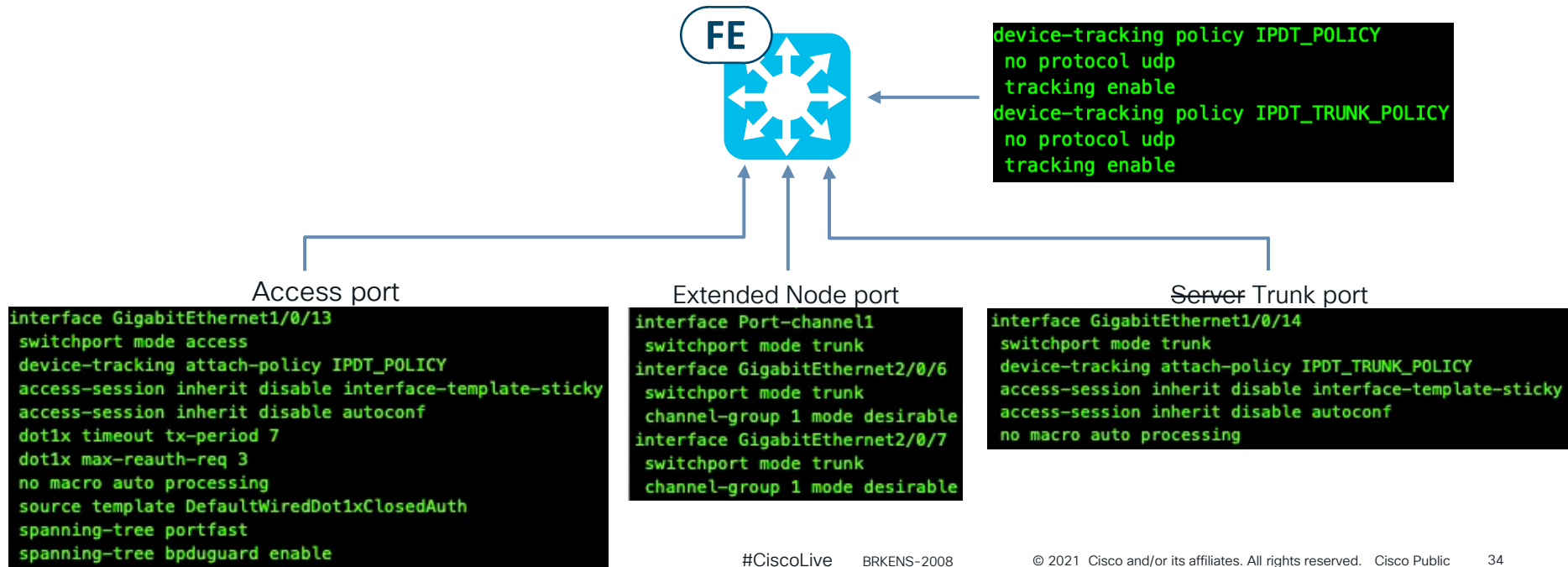
- As of Cisco DNA Center 2.1.2, all Edge Node port IP address limits have been removed.



# Fabric Edge Node IP Address Limits Removed

- In Cisco DNA Center 2.2.2\*, “Server” port has been renamed to “Trunk” port.

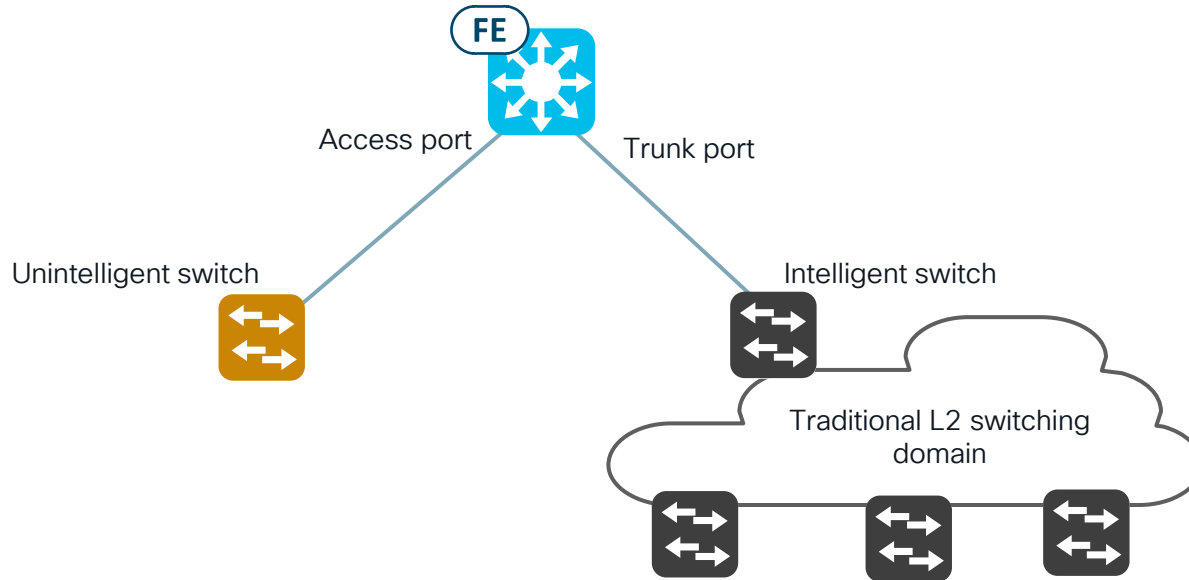
\*ETA Q2 CY 2021



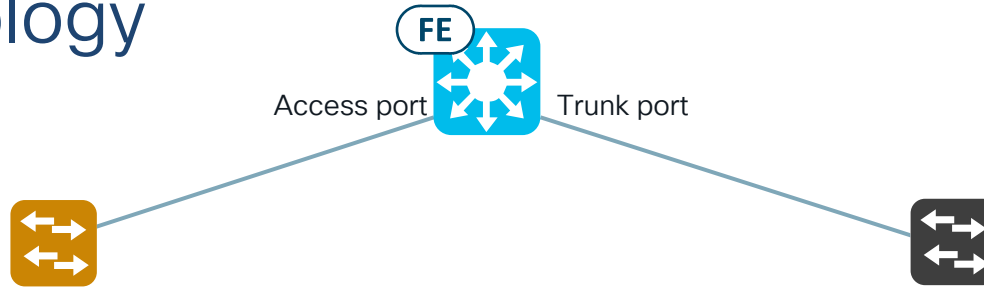
# Fabric Edge Node Address Limits Removed

Why remove the Fabric Edge Node port IP address limits?

- a. An *Unintelligent* switch connected to Edge Node access port
- b. Traditional Layer 2 switching domains connected to Edge Node trunk port



# Terminology



## Unintelligent switch

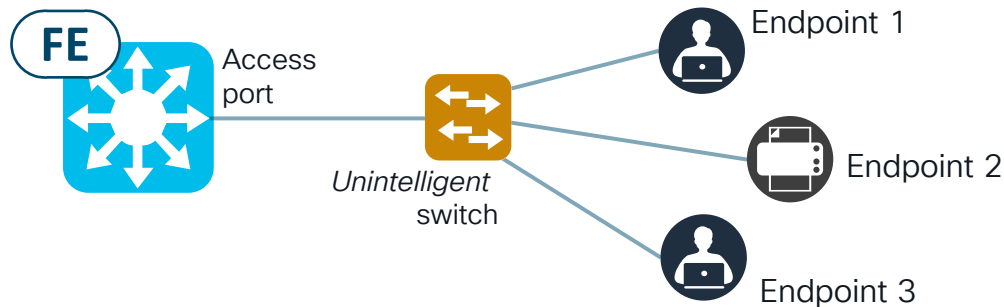
- Not configurable
- Does not support VLANs
- Does not generate STP BPDUs
- Does not consume EAPoL
- Not part of the Cisco SD-Access fabric
- Connects to Edge Node “Access” port

## Intelligent switch

- Configurable
- Supports VLANs
- Generates STP BPDUs
- Consumes EAPoL
- Not part of the Cisco SD-Access fabric
- Connects to Edge Node “Trunk” port

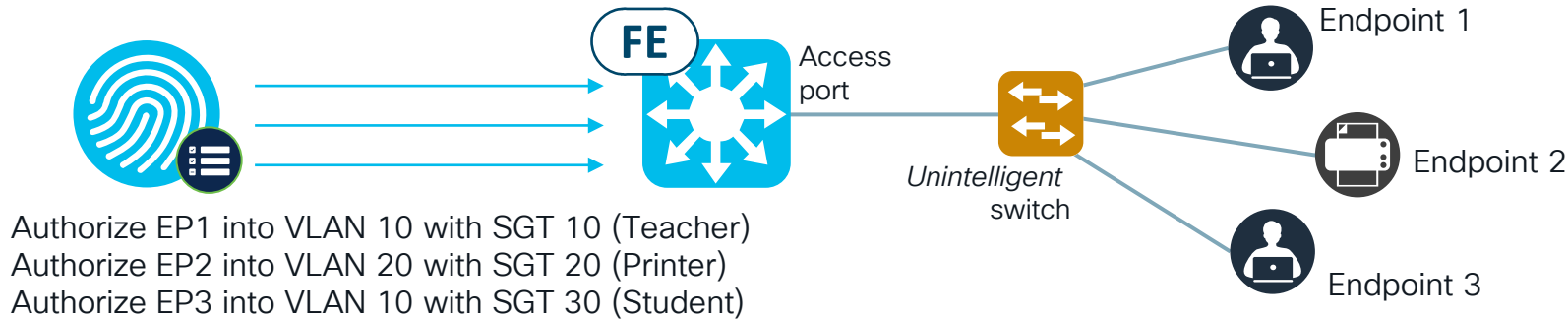
# Unintelligent Switch Connected to Fabric Edge

- If the switch between the Edge Node and endpoints consumes EAPoL, then it breaks 802.1X.
- Finding an *Unintelligent* switch is responsibility of partner / customer.
- Unintelligent switch tradeoffs:
  - Micro-segmentation between endpoints physically connected to the switch is not possible.
  - Cisco DNA Center Assurance and Automation are not possible for the unintelligent switch.
  - Cisco TAC does not support the unintelligent switch.



# Unintelligent Switch Connected to Fabric Edge

- If authentication is enabled on the Edge Node access port, then each endpoint can be dynamically authorized into a different VLAN and SGT, if required.
  - This does **NOT** solve for micro-segmentation within the unintelligent switch.
  - Multi-Auth Per User VLAN and SGT assignment is an ISE and Switch platform capability and documented in the appropriate Switch [Configuration Guide](#).



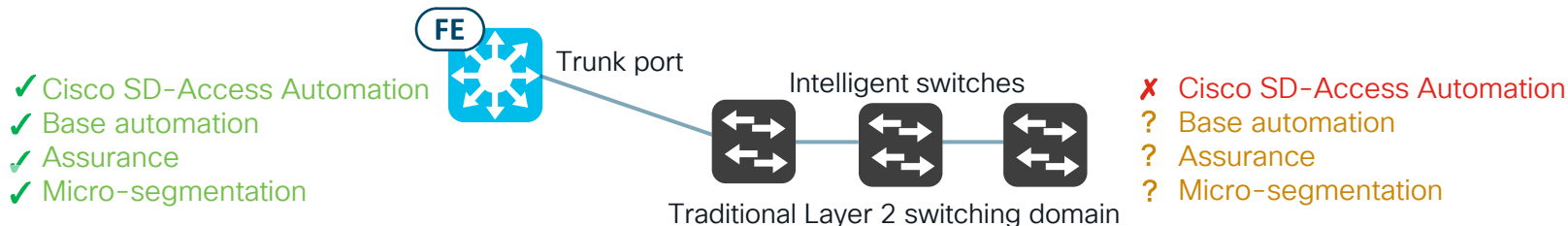
# Traditional Switching Domain Connected to Edge Node

## Significant use cases:

- Cisco DNA Center automated segmentation (VN and SGT) over an IP core
- Phased migration to Cisco SD-Access
- Connection of third-party networking solutions
- Anycast IP gateway – any IP address anywhere

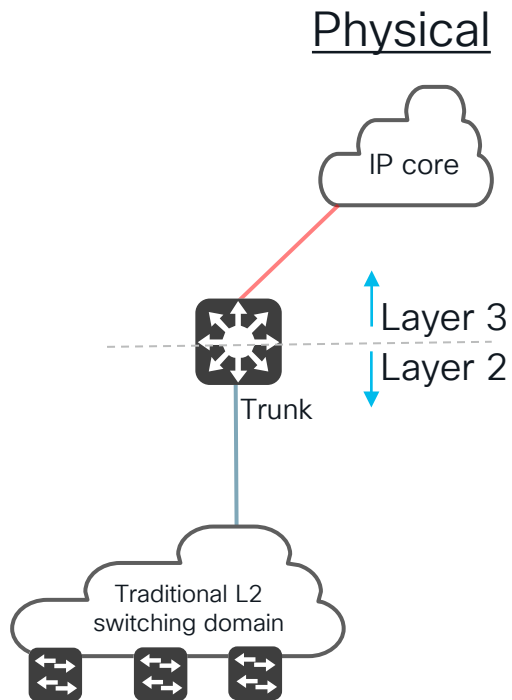
## Tradeoffs for the traditional Layer 2 switching domain:

- Not automated by the Cisco SD-Access workflows
- Unlikely to support Group-Based Policy.
- GBP could start at the Edge Node.
- May not receive the benefits of Cisco DNA Center base Automation and Assurance



# Traditional Layer 2 Switching Domain Connected to Fabric Edge

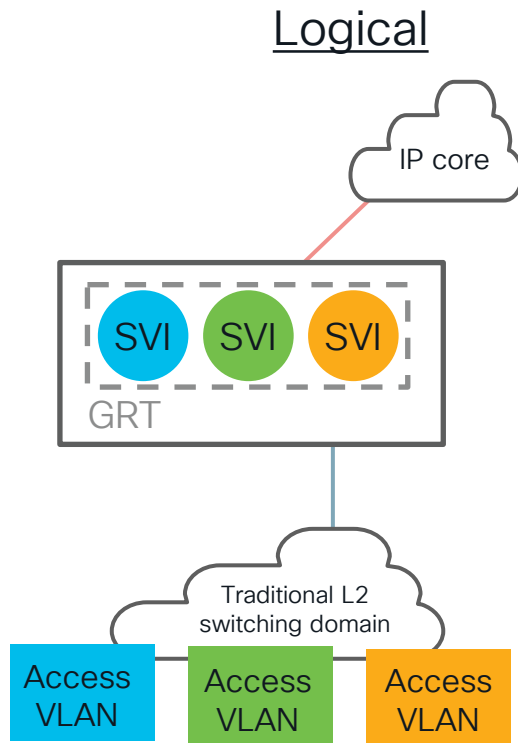
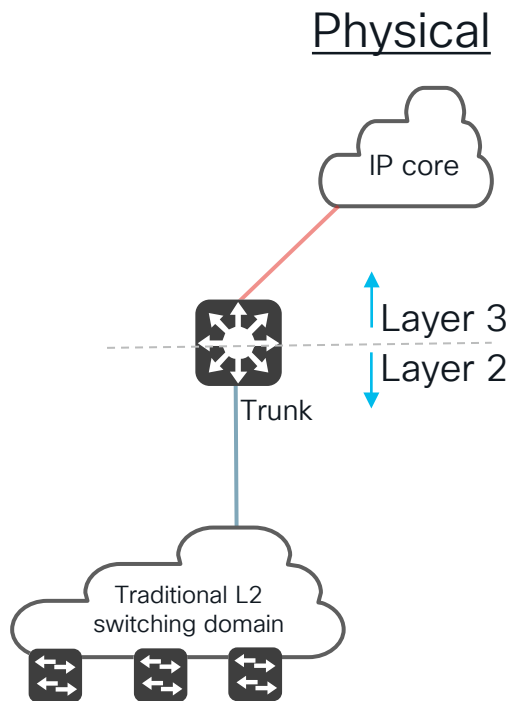
Use Case 1. Automated VN-based macro-segmentation over an IP core





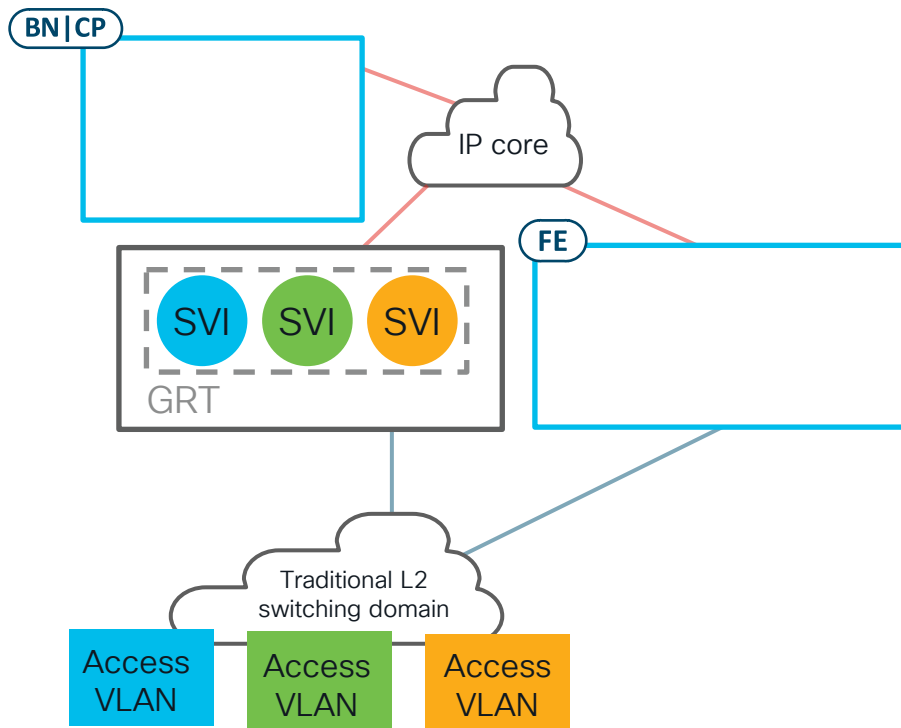
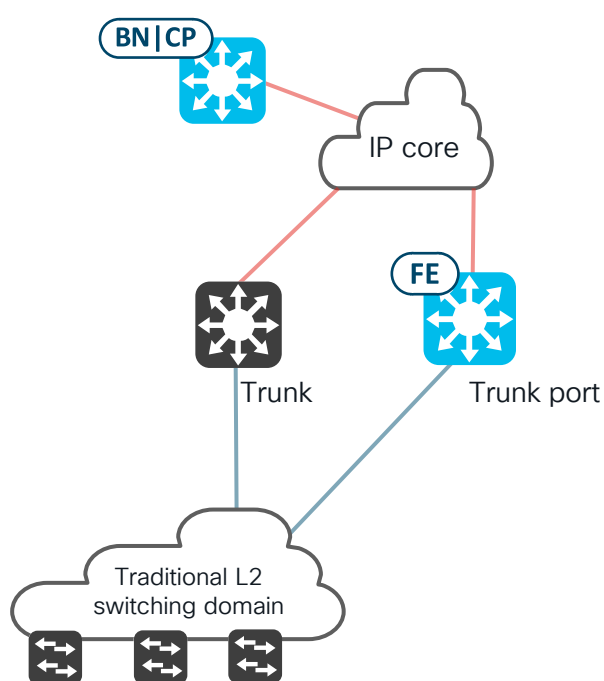
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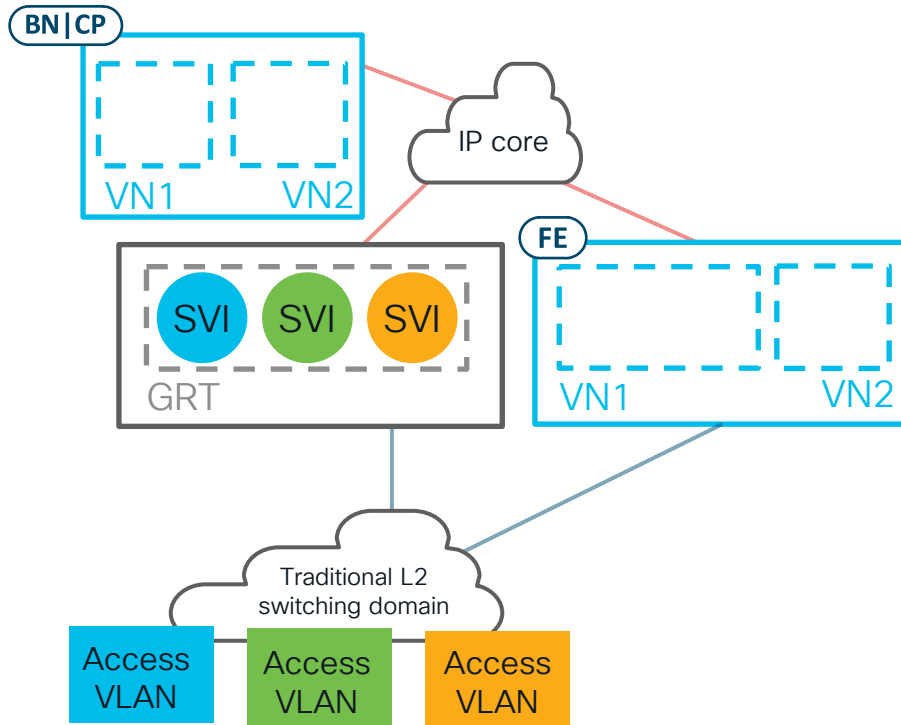
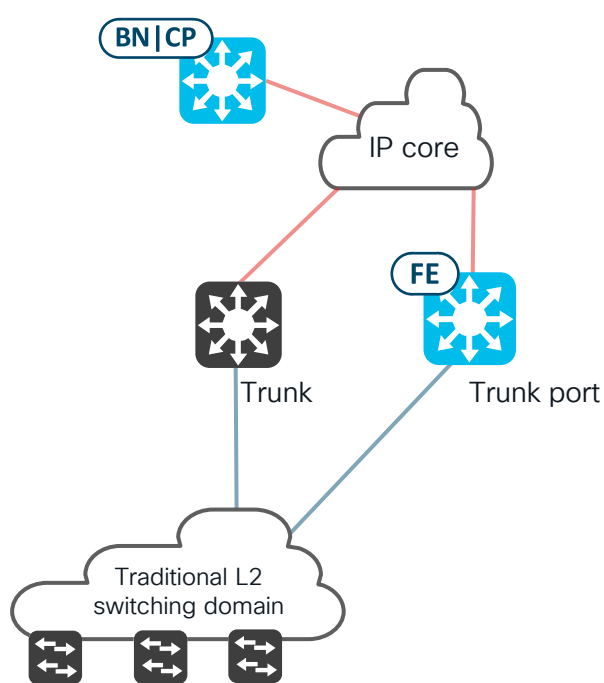
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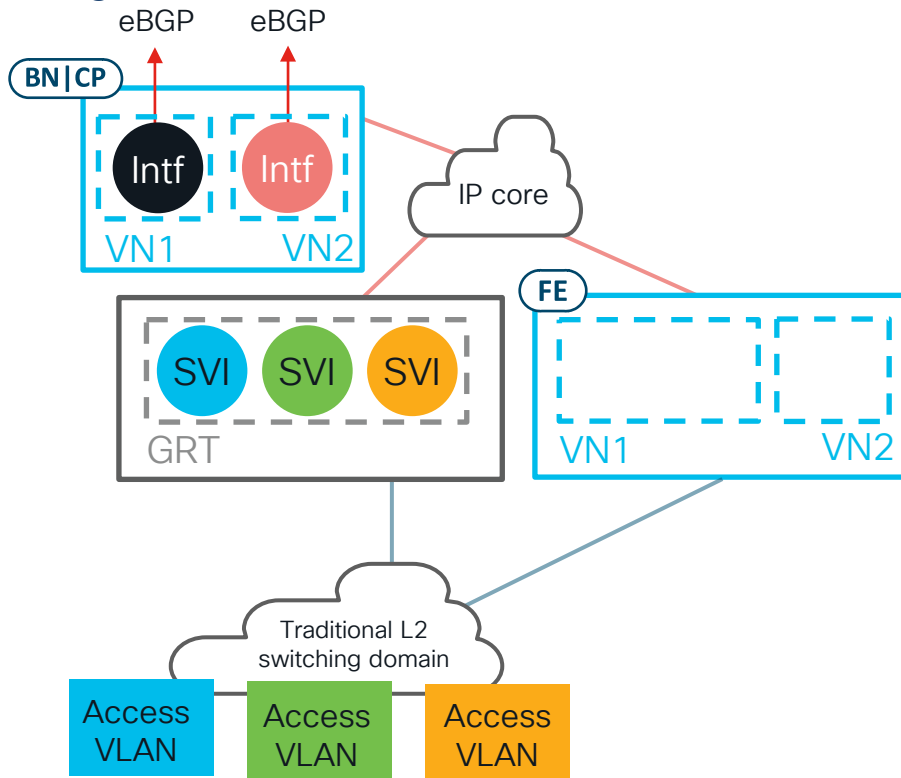
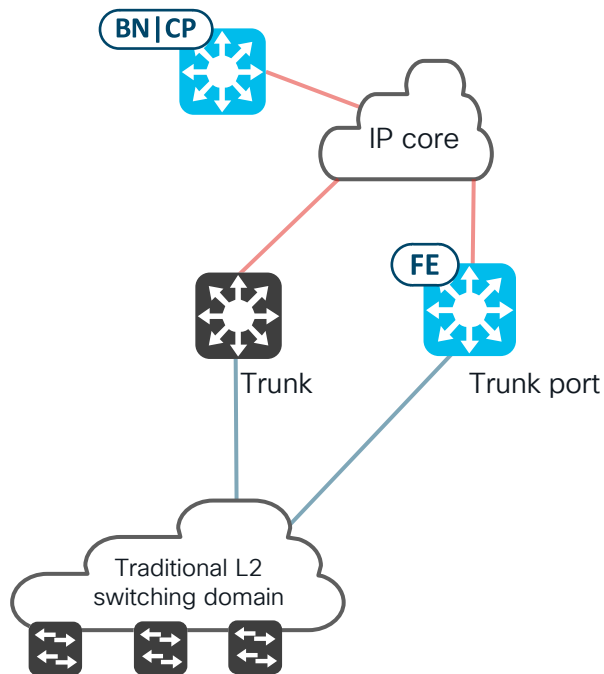
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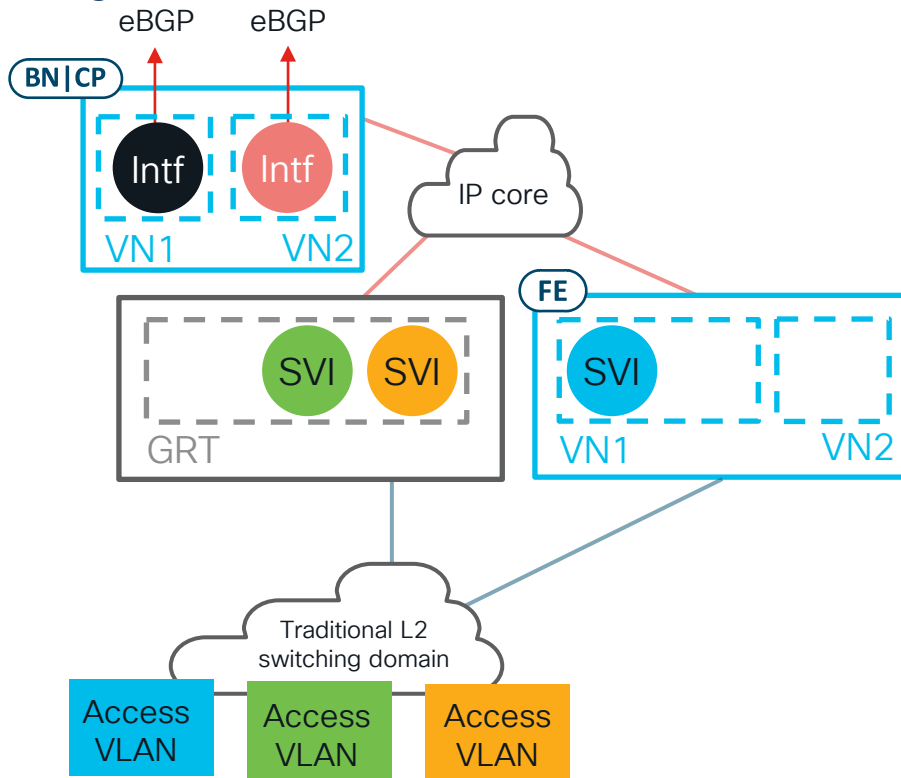
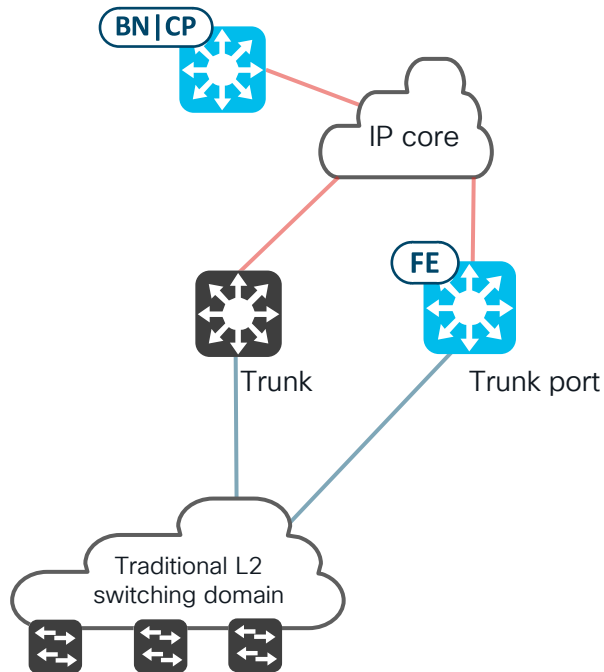
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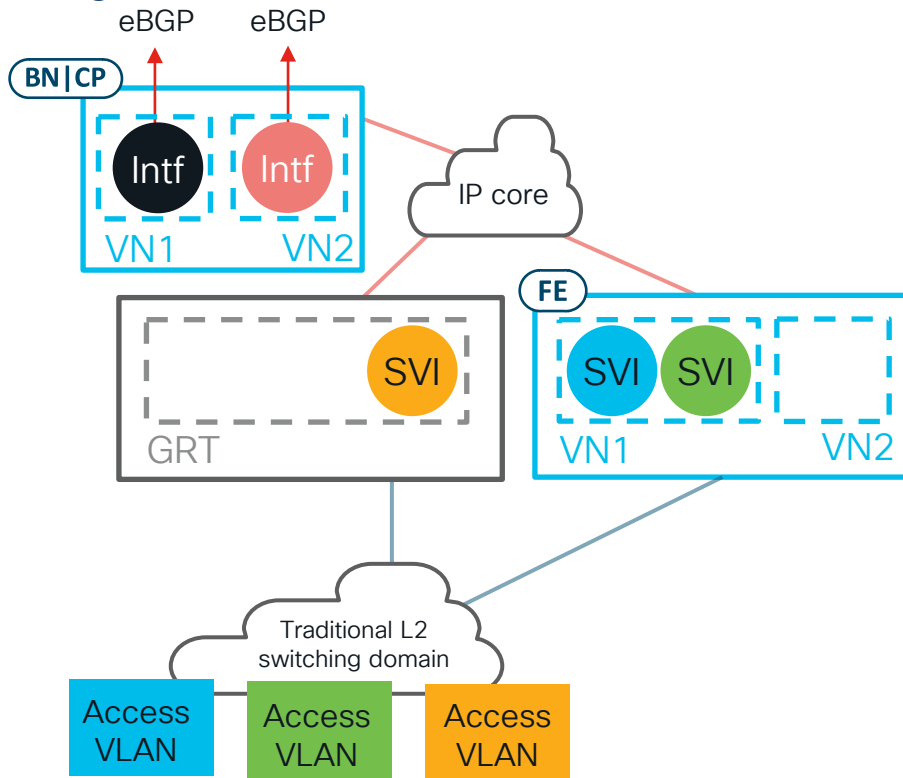
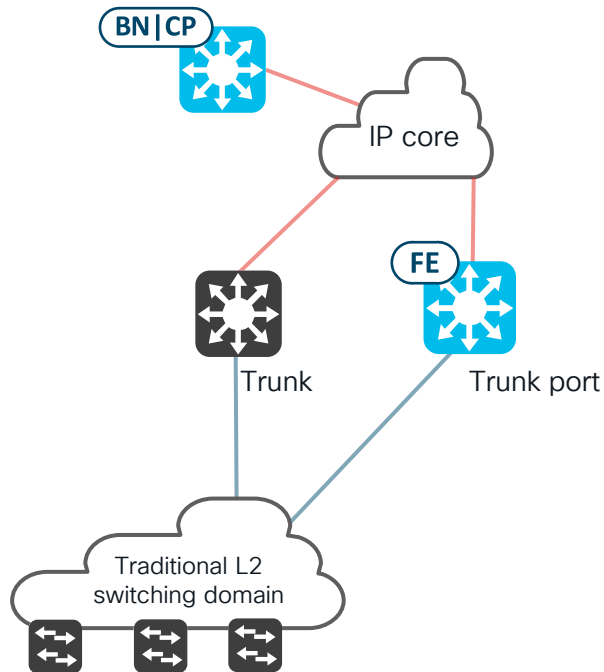
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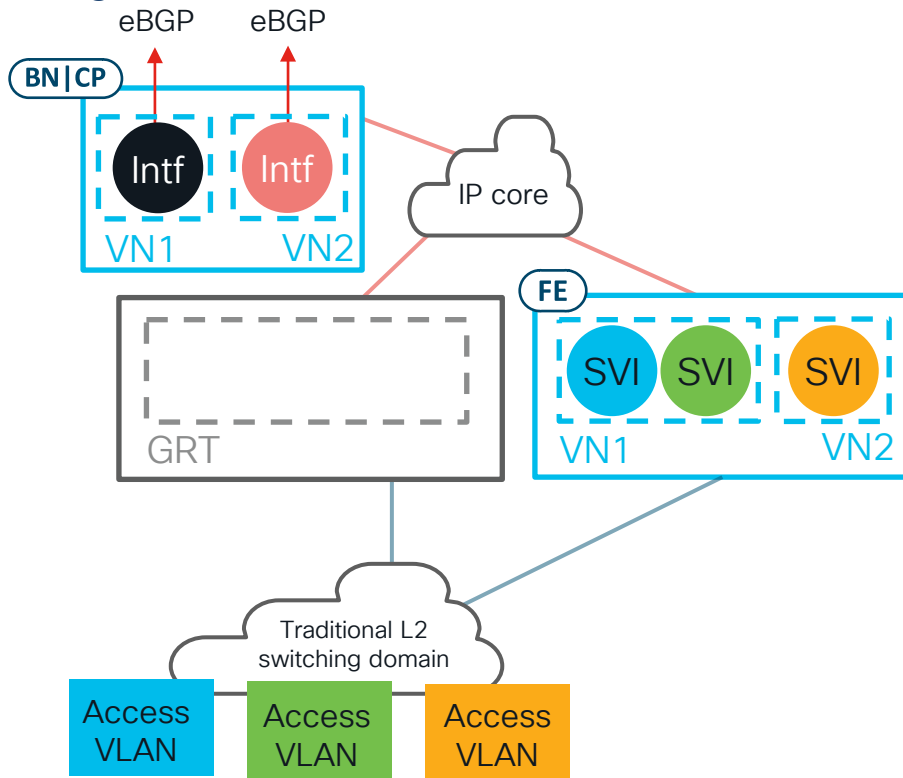
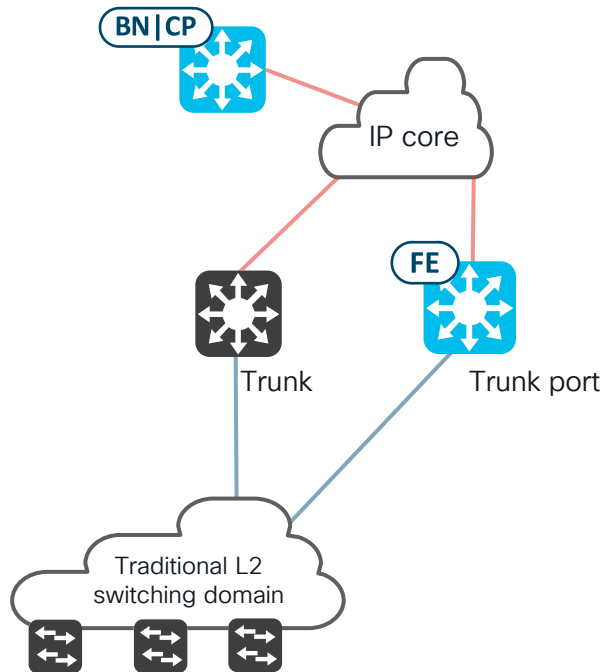
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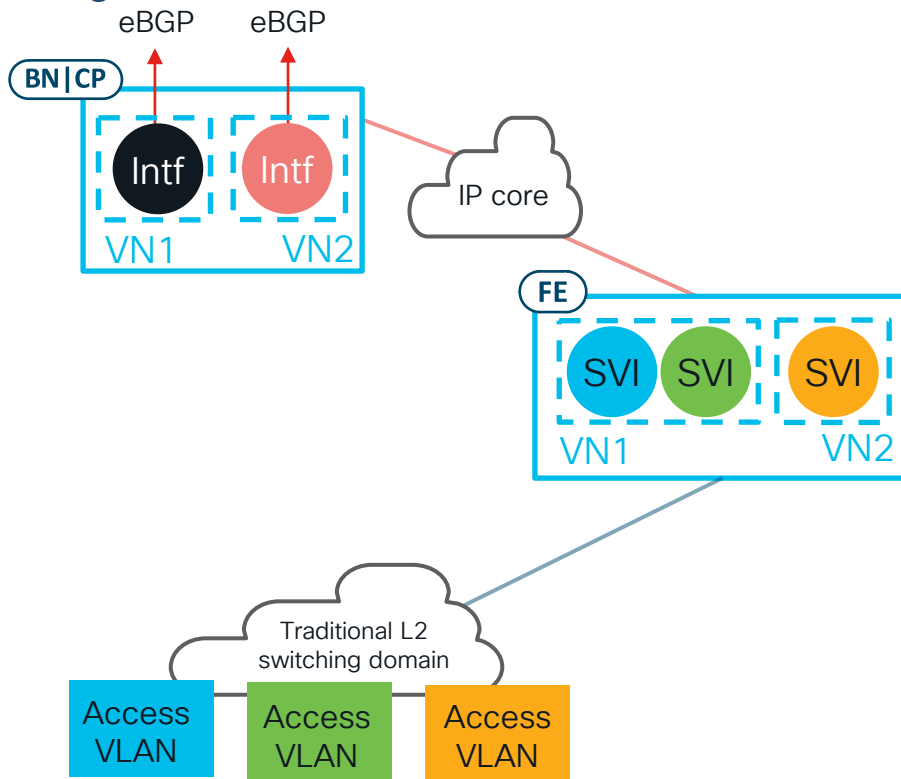
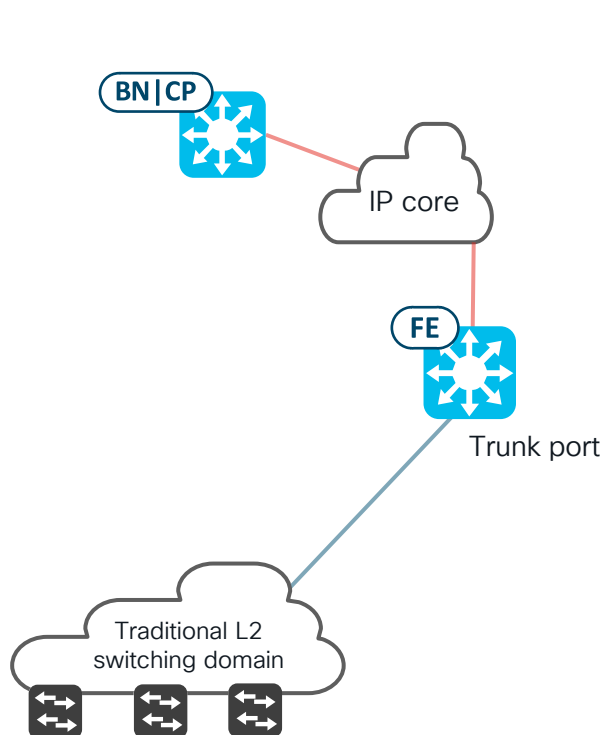
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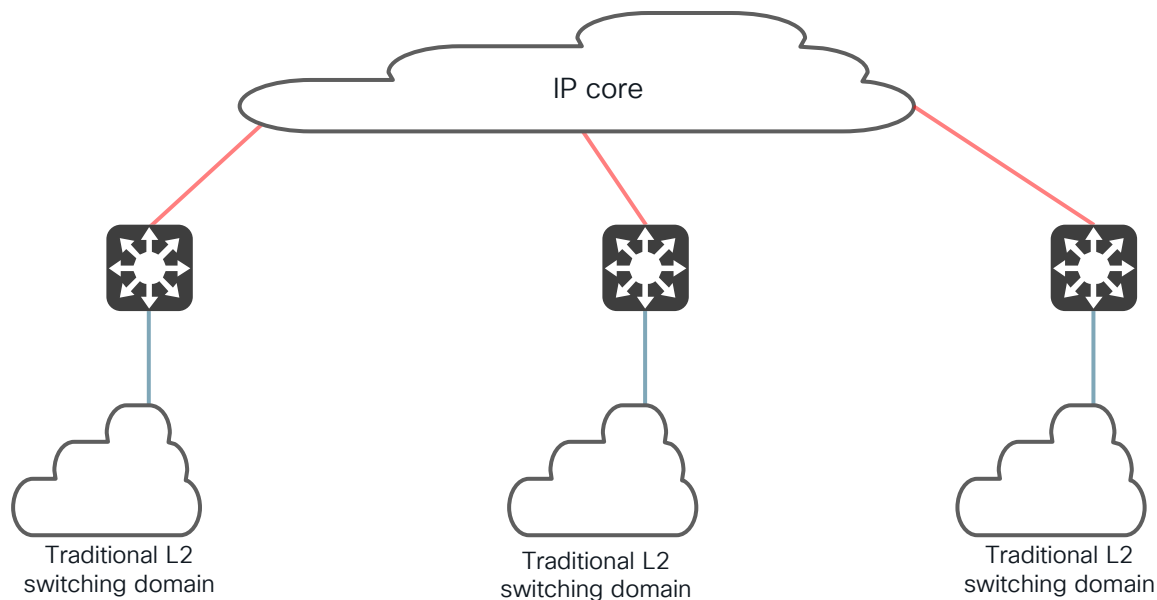
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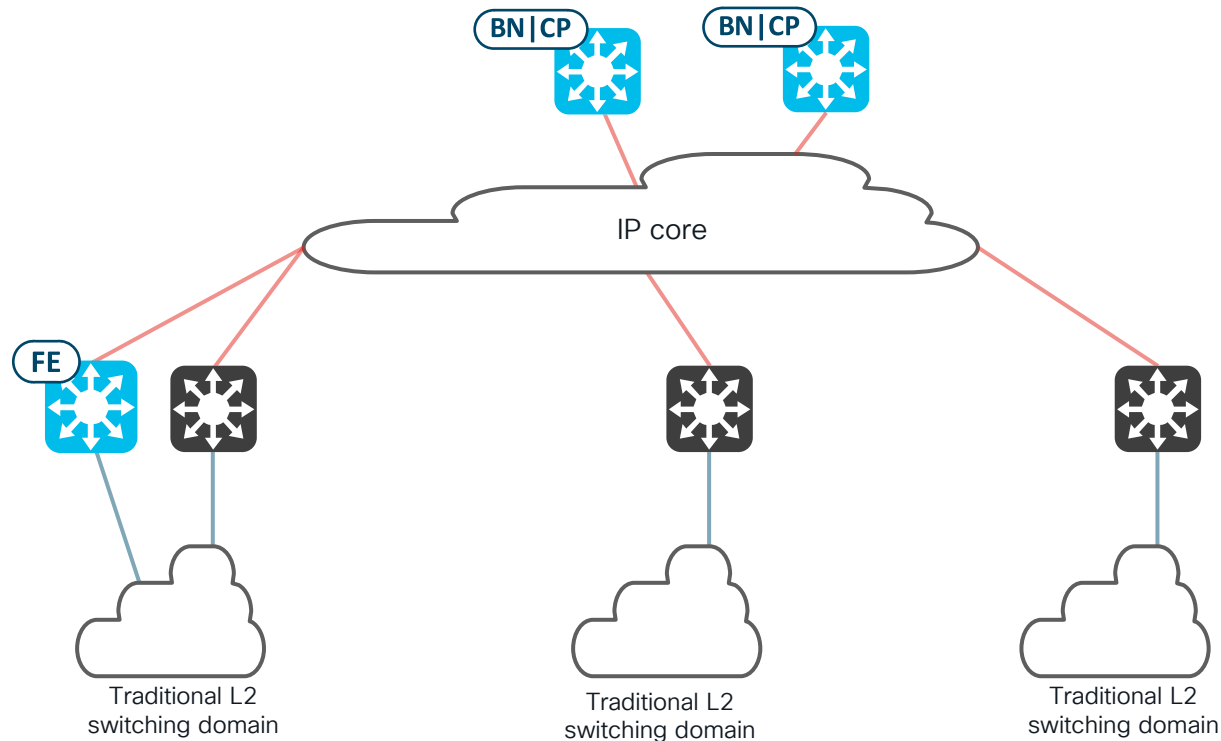
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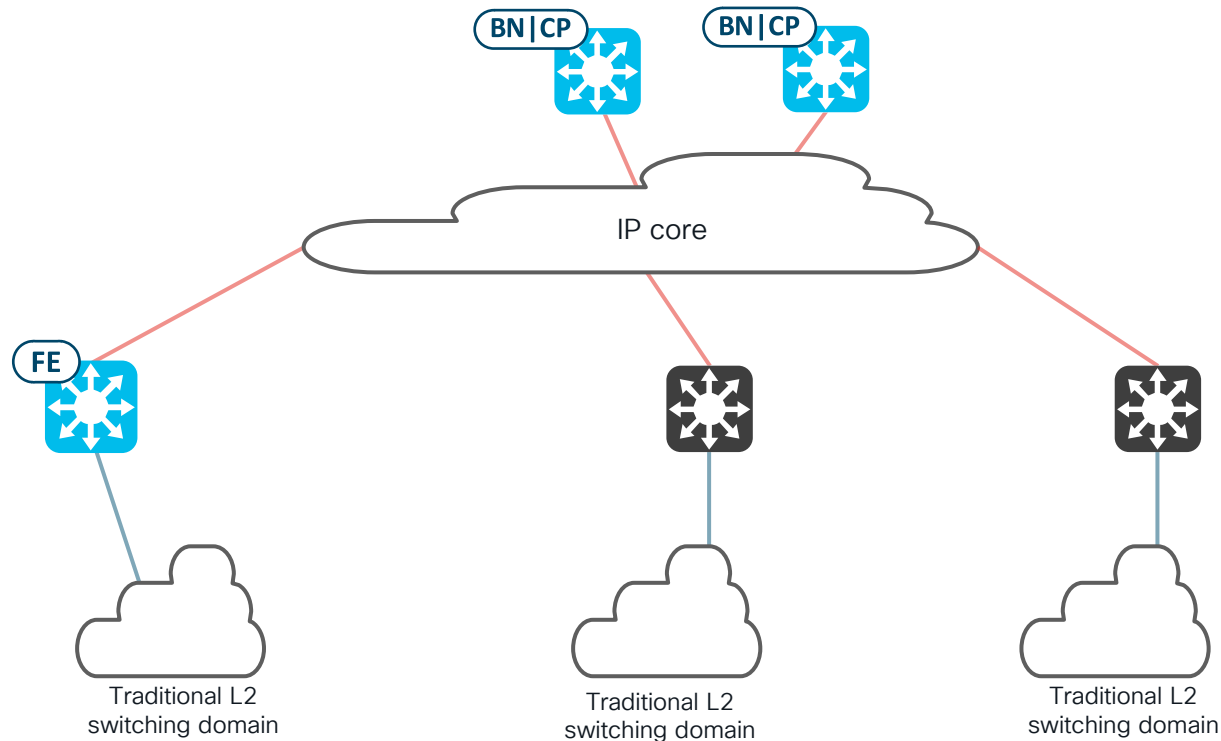
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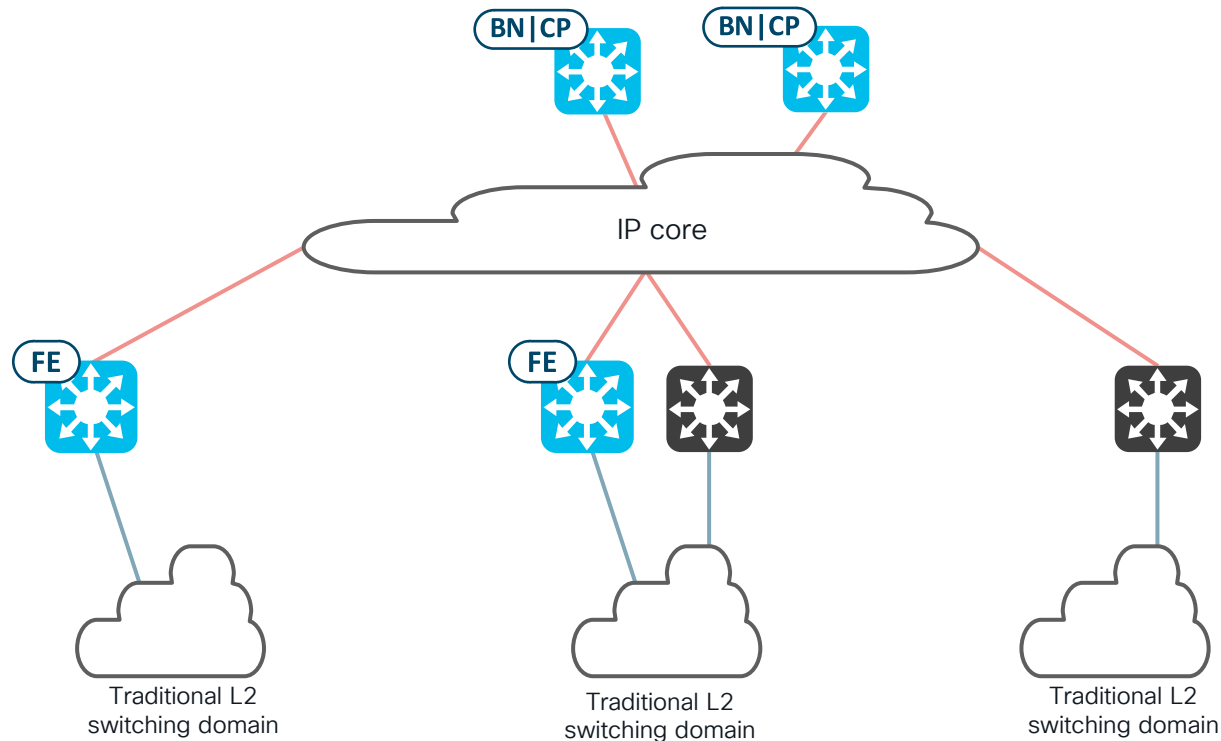
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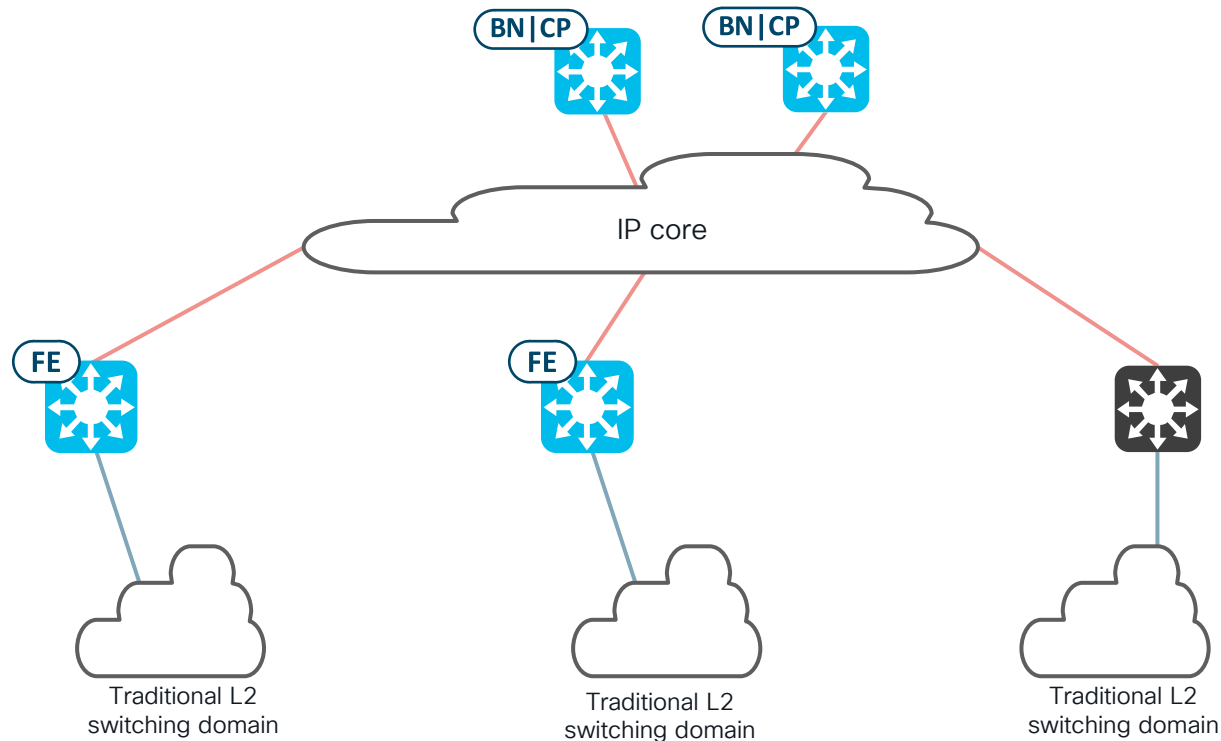
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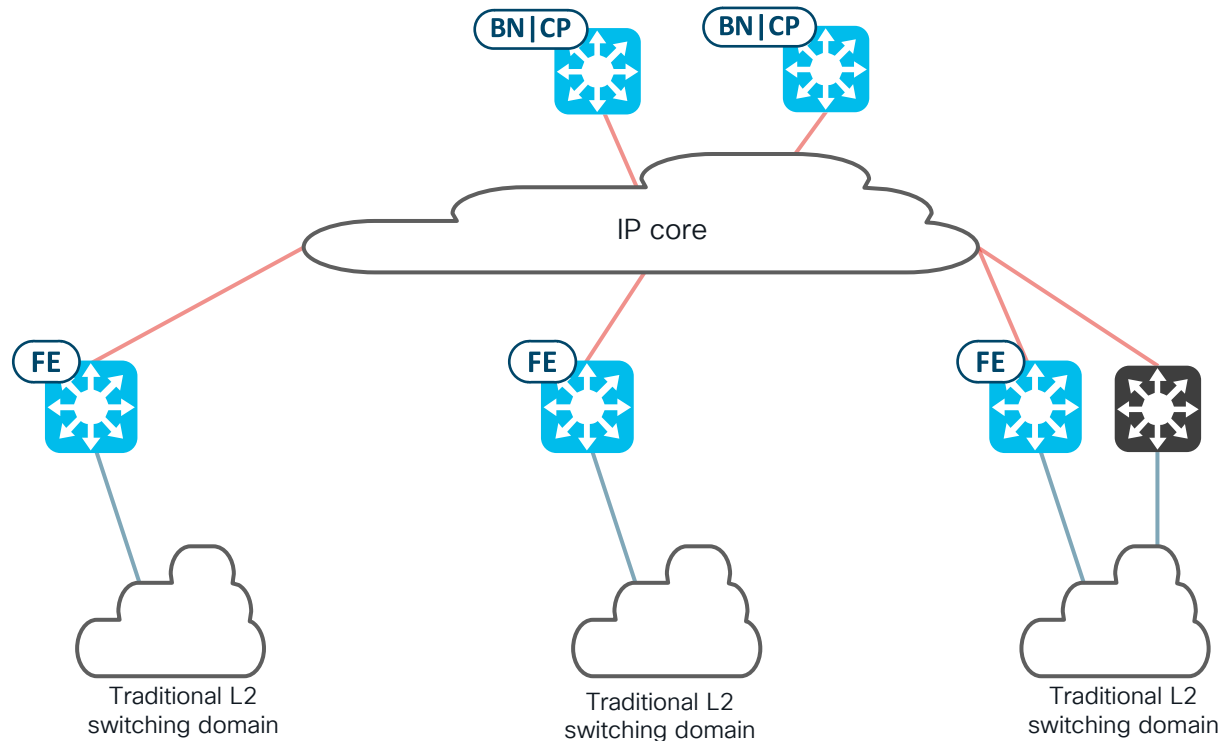
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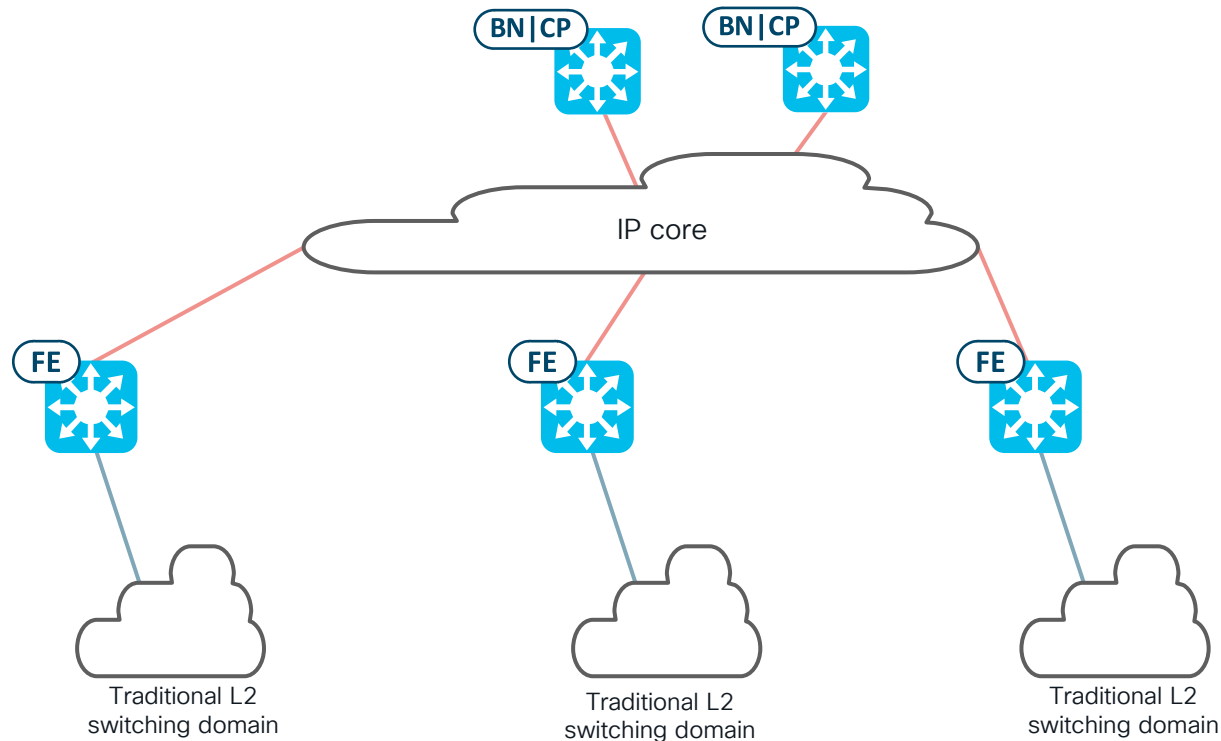
# Traditional Layer 2 Switching Domain Connected to Fabric Edge

Use Case 1. Automated VN-based macro-segmentation over an IP core



# Traditional Layer 2 Switching Domain Connected to Fabric Edge

Use Case 1. Automated VN-based macro-segmentation over an IP core



# Traditional Layer 2 Switching Domain Connected to Fabric Edge

## Use Case 1. Important Considerations

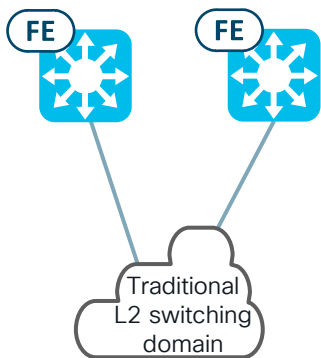




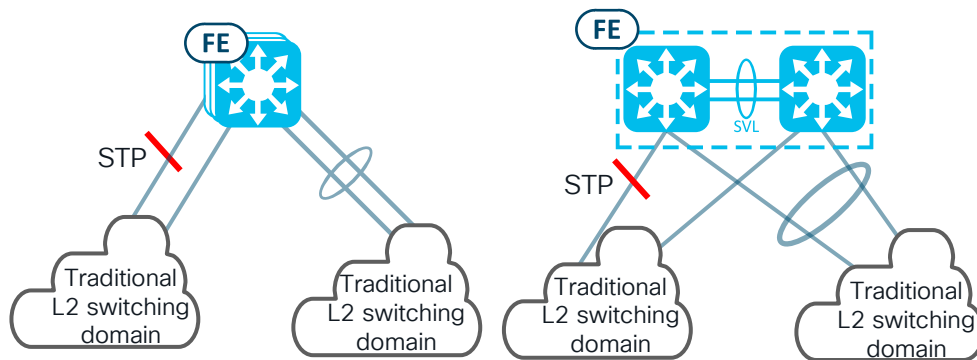
# Traditional Layer 2 Switching Domain Connected to Fabric Edge

## Use Case 1. Important Considerations

- Switching loops, StackWise (hardware stacking), and StackWise Virtual



**X** Same VLAN connected to two different Edge Nodes = switching loop



**✓** Same VLAN connected to different ports on a StackWise or StackWise Virtual switch is fine.

Use STP or port-channel(s) to prevent loops between Edge Nodes and traditional Layer 2 switching domain.

# Traditional Layer 2 Switching Domain Connected to Fabric Edge

## Use Case 1. Important Considerations

- No roaming latency concerns for Fabric-Enabled Wireless and Over The Top (concentrator-based) wireless.
- For endpoints roaming between SD-Access Edge Nodes, the endpoint roaming latency will be inappropriate for real-time roaming applications, such as Voice over flex or flex-like wireless.
- Feature for fast roaming between Edge Node switch ports is in planning now.

Typical Wireless Roaming Times with Cisco SD-Access 2.1.2

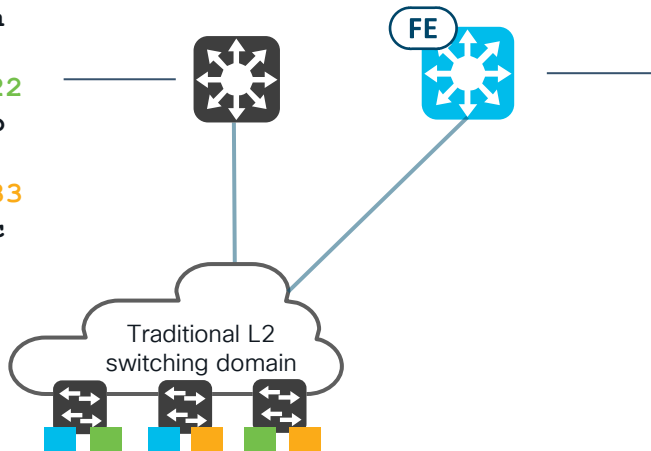
Wireless Deployment Type	Roam Pattern	Average Observed Roam Latency
SD-Access Wireless	APs connected to the <b>same</b> edge node	70 ms
SD-Access Wireless	APs connected to <b>different</b> edge nodes	85 ms

# Traditional Layer 2 Switching Domain Connected to Fabric Edge

## Use Case 1. Important Considerations

- Cisco SD-Access Custom VLAN ID\* feature is required to match already-configured traditional L2 switching domain VLAN ID.

```
interface VLAN111
  ip address aaa
  shutdown
interface VLAN222
  ip address bbb
  shutdown
interface VLAN333
  ip address ccc
  no shutdown
```

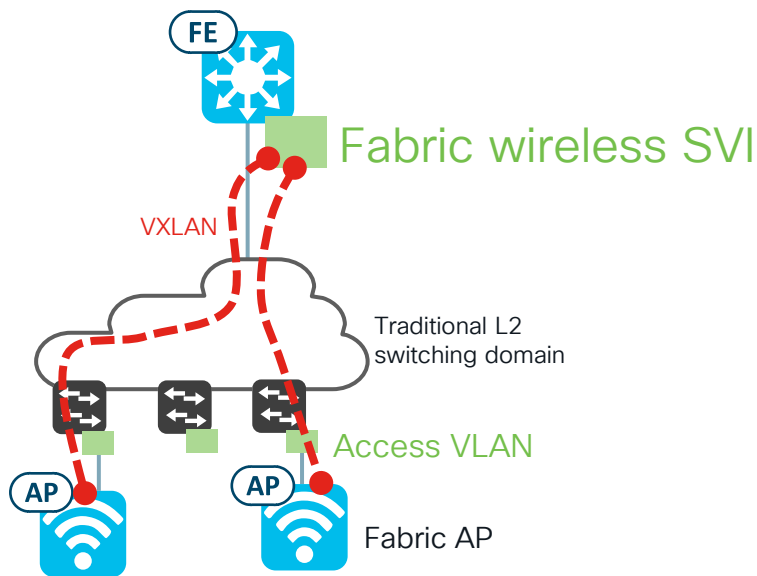


```
interface VLAN111
  vrf forwarding CORP
  ip address aaa
  no shutdown
interface VLAN222
  vrf forwarding CCTV
  ip address bbb
  no shutdown
```

# Traditional Layer 2 Switching Domain Connected to Fabric Edge

## Use Case 1. Important Considerations

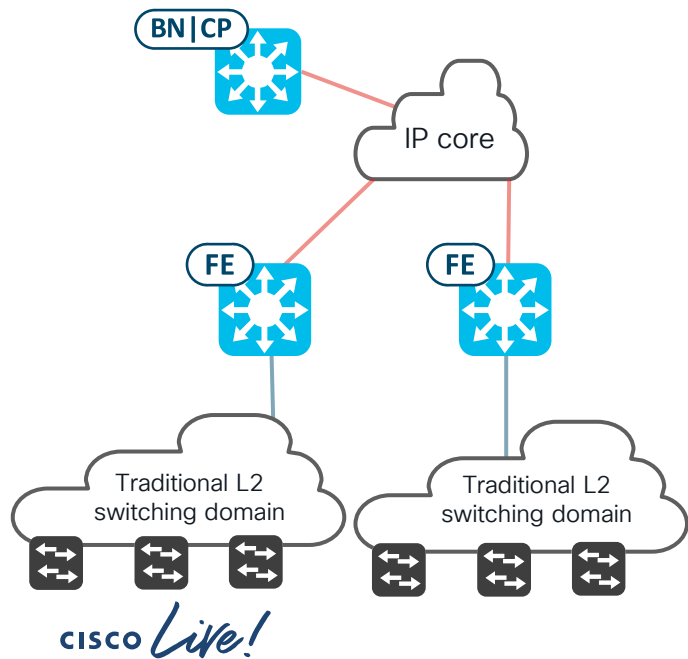
- Fabric APs connected to traditional L2 switching domain are already supported.
- This enables a rapid realization of the benefits of Fabric-Enabled Wireless (SGT, Automation, Assurance, wireless data plane switched locally on Edge Node, etc.)



# Traditional Layer 2 Switching Domain Connected to Fabric Edge

## Use Case 1. Important Considerations

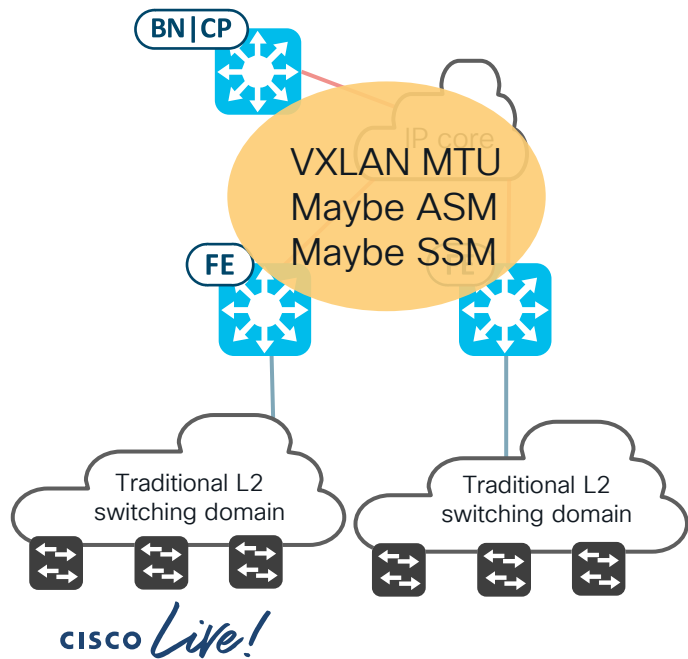
- The IP core may need to support multicast and jumbo MTU (depends on size of overlay packets).
- Covered heavily in [DGTL-BRKENS-3822](#). But in short:



# Traditional Layer 2 Switching Domain Connected to Fabric Edge

## Use Case 1. Important Considerations

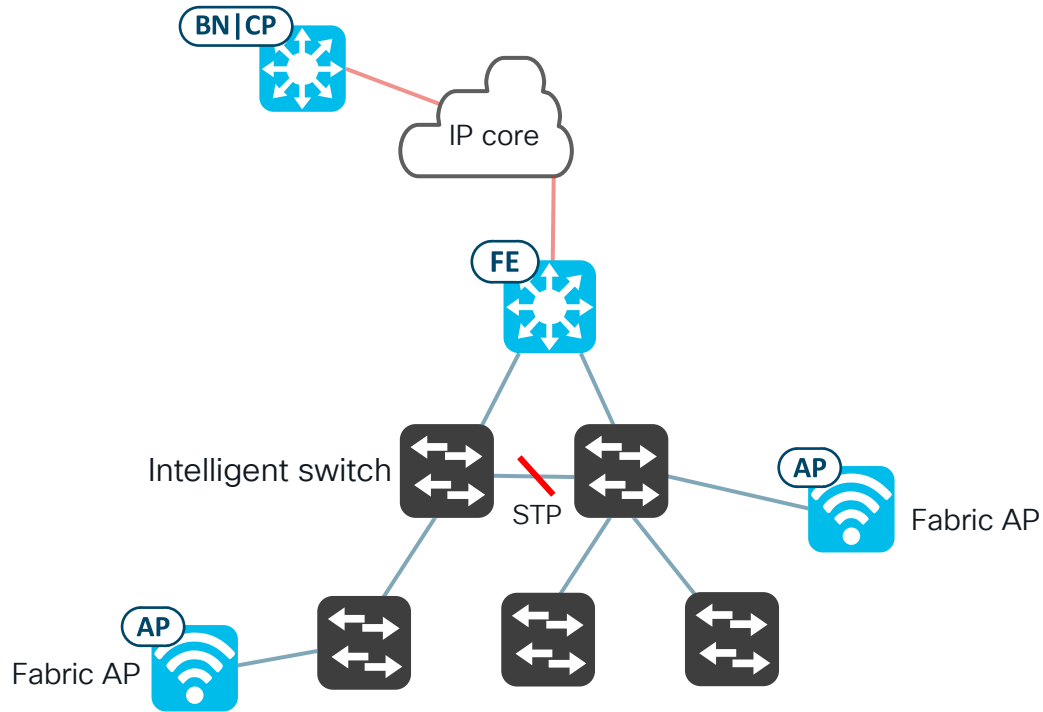
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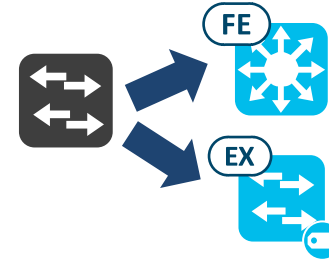
- Fabric Edge Node SVIs cannot fragment overlay payloads.
- The IP core will need to accommodate the Cisco SD-Access VXLAN MTU.
  - VXLAN cannot be fragmented.
  - The Overlay can use *TCP adjust-MSS* for large TCP flows.
  - Large UDP in Overlay needs to be addressed outside of fabric e.g. external Layer 3 device or on the endpoint.
- IP core may need to support ASM and SSM
  - SD-Access Layer 2 Flooding feature uses underlay ASM.
  - SD-Access Native Multicast feature uses underlay SSM.

# Traditional Layer 2 Switching Domain Connected to Fabric Edge

## Use Case 2. Phased migration to Cisco SD-Access



# Recap: Convert a Traditional Switch to Cisco SD-Access Mode

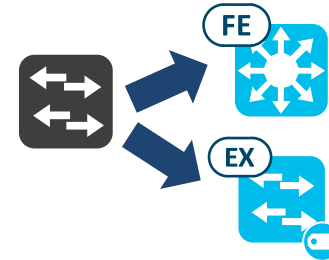




# Recap: Convert a Traditional Switch to Cisco SD-Access Mode

Rebuild the switch:

1. IOS XE version complies with the [SD-Access Compatibility Matrix](#).
2. License level / subscription level sufficient.

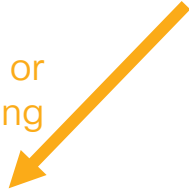


# Recap: Convert a Traditional Switch to Cisco SD-Access Mode

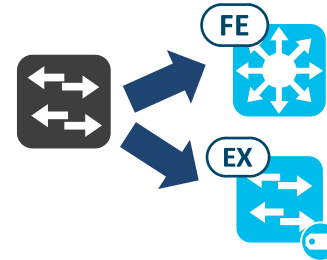
## Rebuild the switch:

1. IOS XE version complies with the [SD-Access Compatibility Matrix](#).
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LAN Automation or  
Extended Node Onboarding



3. Factory reset the switch as per [LAN Automation Deployment Guide](#).
4. Execute LAN automation or Extended Node onboarding.
5. Add to Fabric Site as Edge Node or Extended Node.
6. Provision Edge Node ports in Host Onboarding.



# Recap: Convert a Traditional Switch to Cisco SD-Access Mode

## Rebuild the switch:

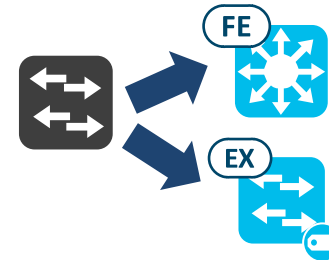
1. IOS XE version complies with the [SD-Access Compatibility Matrix](#).
2. License level / subscription level sufficient.

LAN Automation or  
Extended Node Onboarding

Manual conversion  
to Fabric Edge Node

3. Factory reset the switch as per [LAN Automation Deployment Guide](#).
4. Execute LAN automation or Extended Node onboarding.
5. Add to Fabric Site as Edge Node or Extended Node.
6. Provision Edge Node ports in Host Onboarding.

3. Replace startup configuration with tailored startup configuration and reload the switch:
  - Routed p2p uplinks, Loopback0
  - MTU that accommodates VXLAN overhead
  - Multicast routing and PIM, if required
  - SSH and SNMP credentials
4. Modify distribution layer to have routed downlinks or repatch switch to new distribution.
5. Discover just-reloaded switch in Cisco DNA Center, Provision, and add to fabric site as Edge Node.
6. Provision Edge Node ports in Host Onboarding, if required.



# Recap: Convert a Traditional Switch to Cisco SD-Access Mode

## Rebuild the switch:

1. IOS XE version complies with the [SD-Access Compatibility Matrix](#).
2. License level / subscription level sufficient.

LAN Automation or  
Extended Node Onboarding

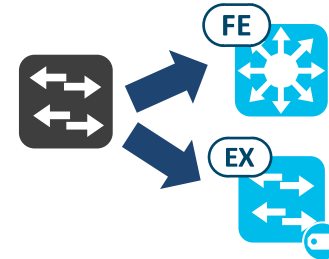
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6. Provision Edge Node ports in Host Onboarding.



~40K ports migrated

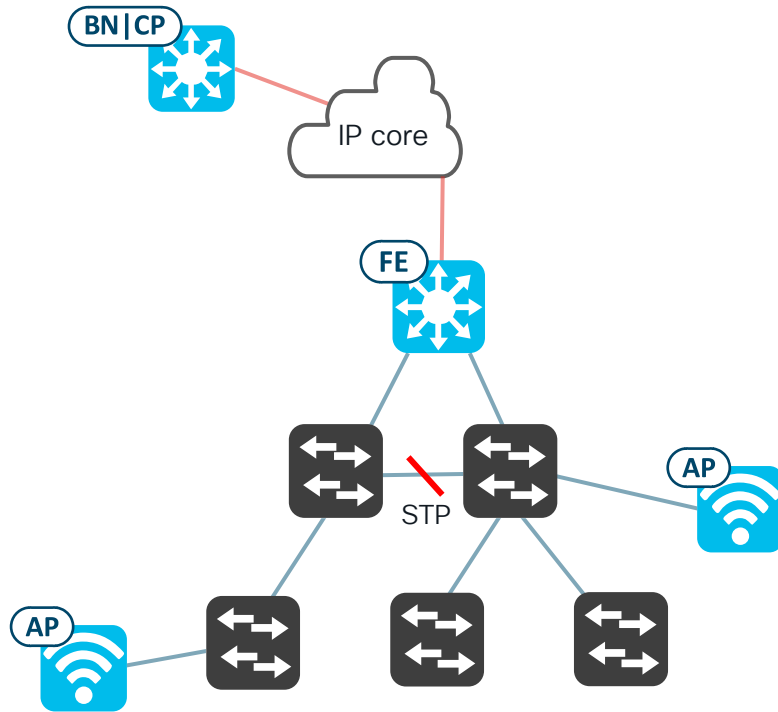
Manual conversion  
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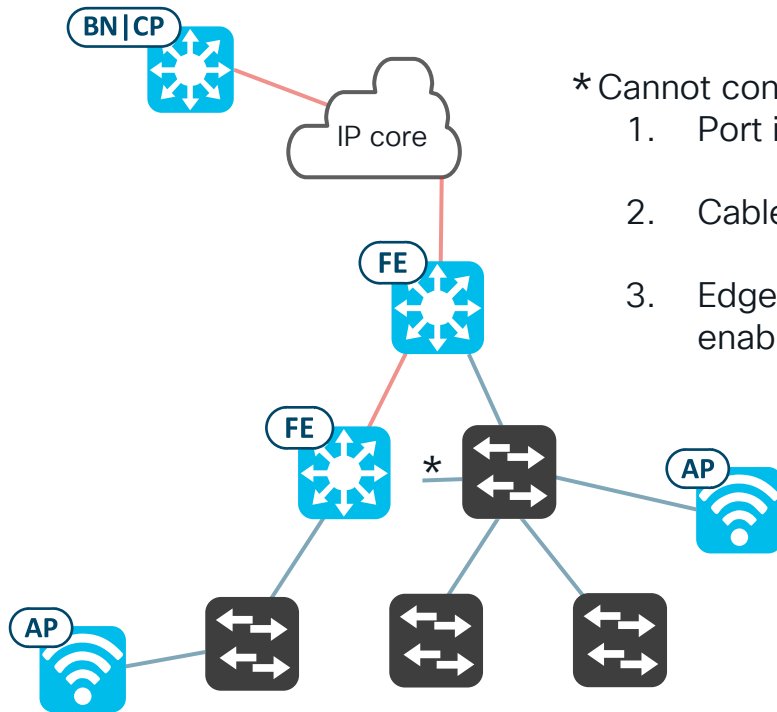
# Traditional Layer 2 Switching Domain Connected to Fabric Edge

## Use Case 2. Phased migration to Cisco SD-Access



# Traditional Layer 2 Switching Domain Connected to Fabric Edge

## Use Case 2. Phased migration to Cisco SD-Access

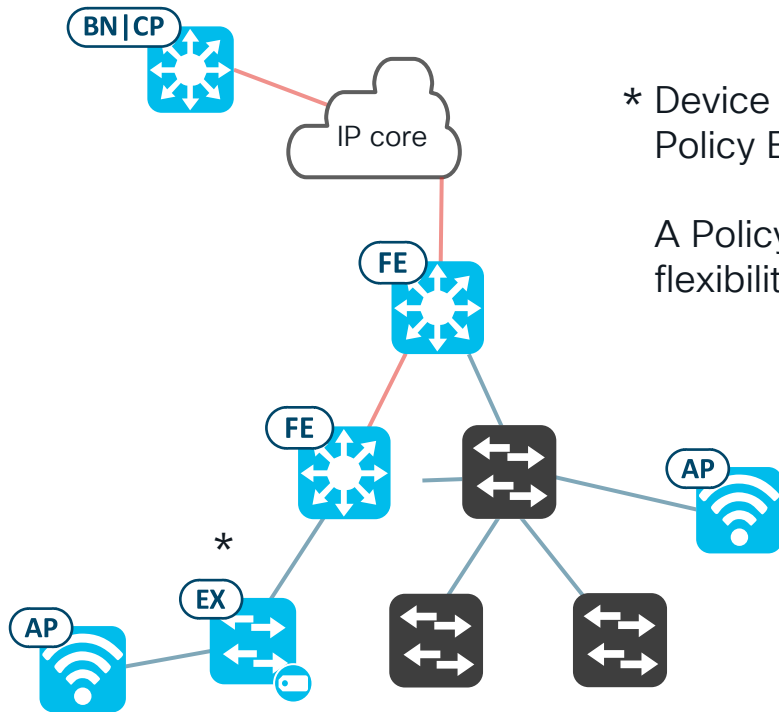


\* Cannot connect same Layer 2 domain to two Edge Nodes. Thus:

1. Port is shutdown on the Edge Node
- or-
2. Cable is temporarily disconnected
- or-
3. Edge Node port is Closed Authentication so that trunk is not enabled

# Traditional Layer 2 Switching Domain Connected to Fabric Edge

## Use Case 2. Phased migration to Cisco SD-Access

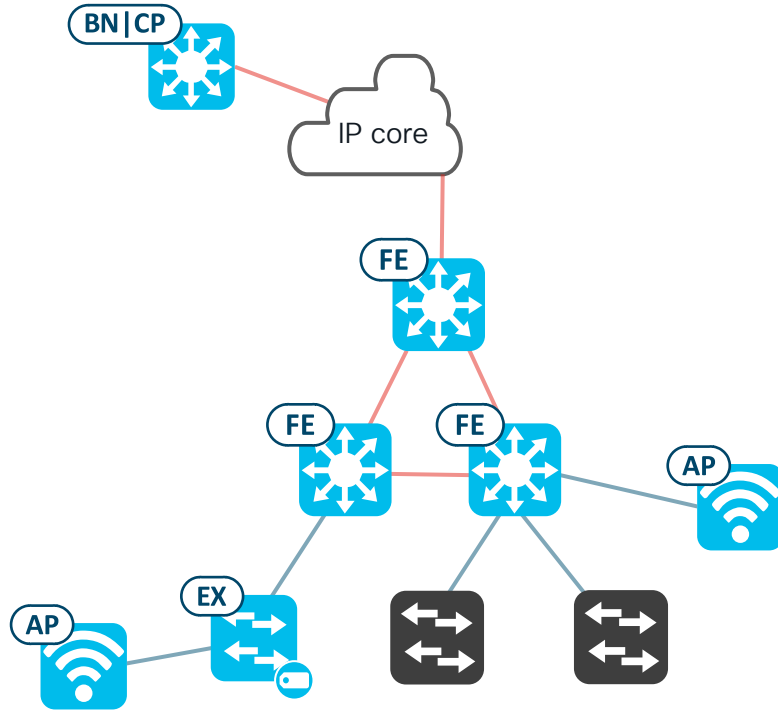


\* Device could be provisioned as an Edge Node or Policy Extended Node.

A Policy Extended Node is depicted to showcase flexibility of options.

# Traditional Layer 2 Switching Domain Connected to Fabric Edge

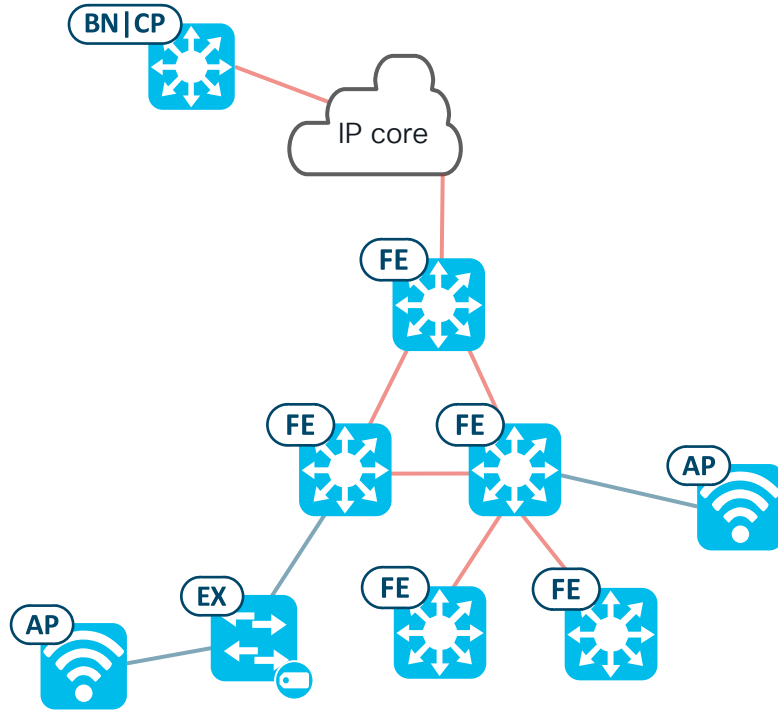
## Use Case 2. Phased migration to Cisco SD-Access





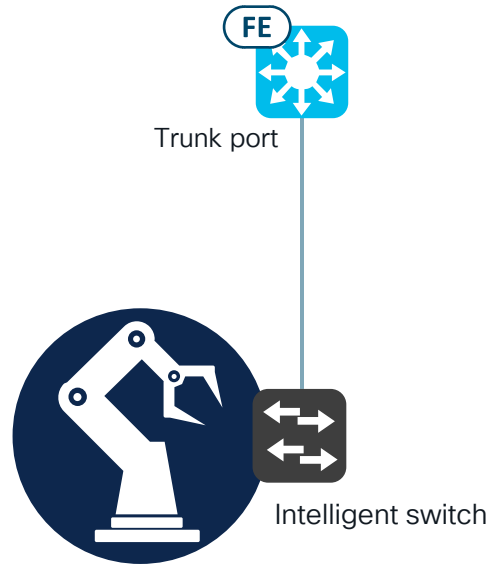
# Traditional Layer 2 Switching Domain Connected to Fabric Edge

## Use Case 2. Phased migration to Cisco SD-Access



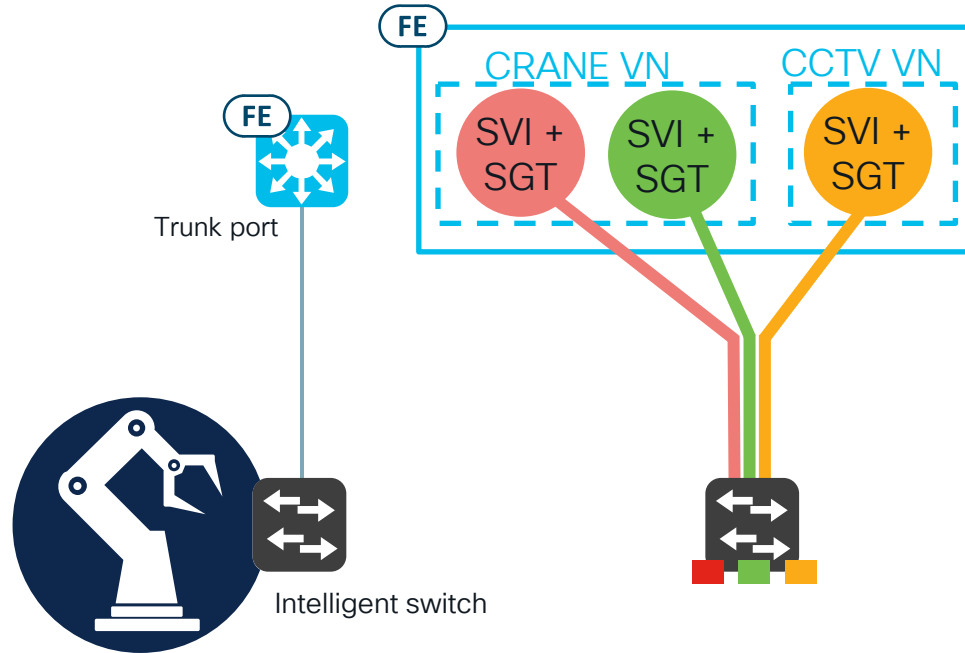
# Traditional Layer 2 Switching Domain Connected to Fabric Edge

## Use Case 3. Third-party networking connected to Cisco SD-Access



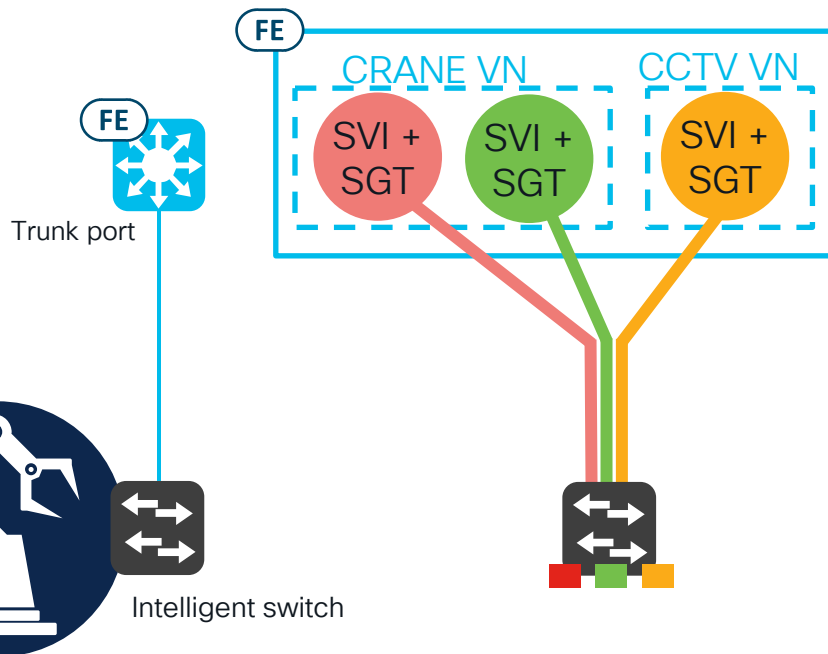
# Traditional Layer 2 Switching Domain Connected to Fabric Edge

## Use Case 3. Third-party networking connected to Cisco SD-Access



# Traditional Layer 2 Switching Domain Connected to Fabric Edge

## Use Case 3. Third-party networking connected to Cisco SD-Access



```
FABRIC_EDGE_NODE#show vrf | sec CRANE|CCTV
CCTV                                     <not set>          ipv4      Vlan1026
                                           <not set>          ipv4      LI0.4100
CRANE                                    <not set>          ipv4      Vlan1025
                                           <not set>          ipv4      Vlan1024
                                           <not set>          ipv4      LI0.4101

FABRIC_EDGE_NODE#show ip inter brief | i 102[4-6]
Vlan1024      10.4.4.1      YES manual up
Vlan1025      10.4.0.1      YES manual up
Vlan1026      10.3.0.1      YES manual up

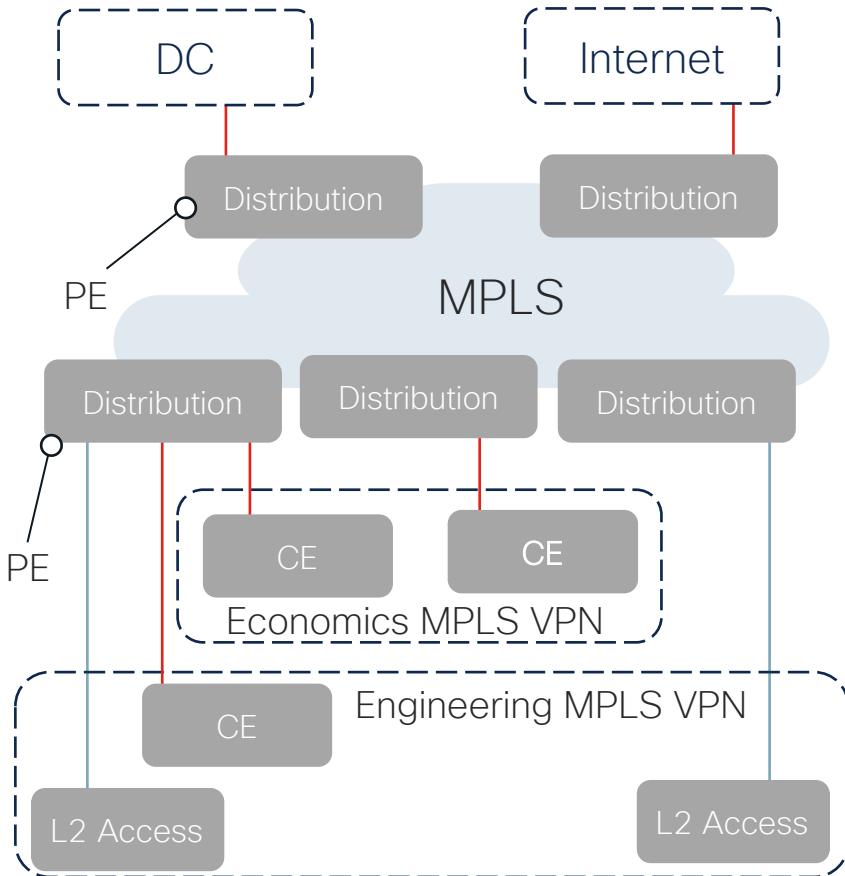
FABRIC_EDGE_NODE#show run | i cts role-
cts role-based sgt-map vlan-list 1025 sgt 8
cts role-based sgt-map vlan-list 1024 sgt 18
cts role-based sgt-map vlan-list 1026 sgt 19
cts role-based enforcement
cts role-based enforcement vlan-list 1021,1023-1026
FABRIC_EDGE_NODE#
```

- No endpoint authentication/authorization on Edge Node trunk port
- Access VLAN is statically mapped to an SGT from Cisco DNA Center Host Onboarding screen
- All endpoints in the VLAN without dynamic ISE-assigned SGT receive the Group-Based Policy for static SGT.

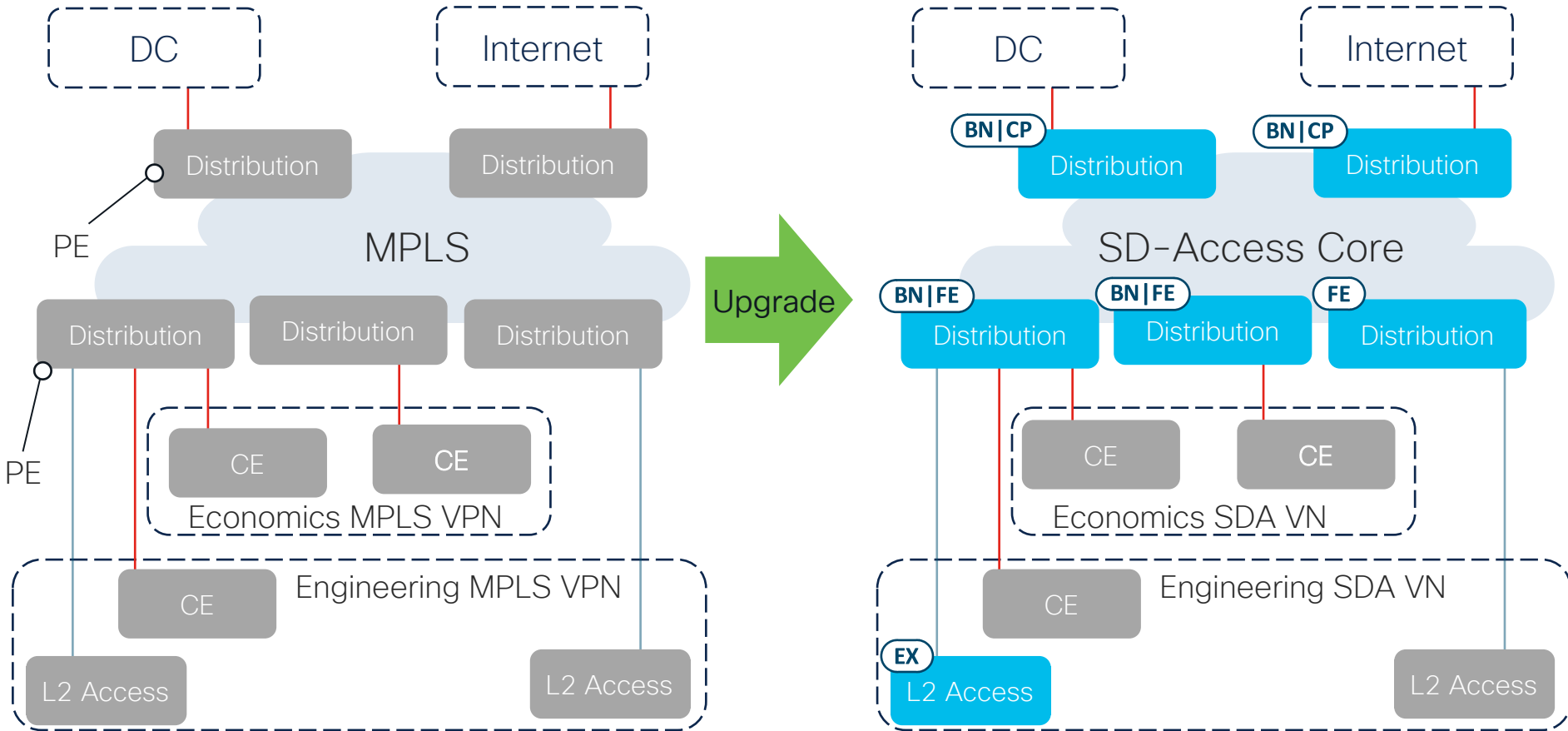
# From Enterprise MPLS to Cisco SD-Access



# Cisco SD-Access as an Enterprise Core



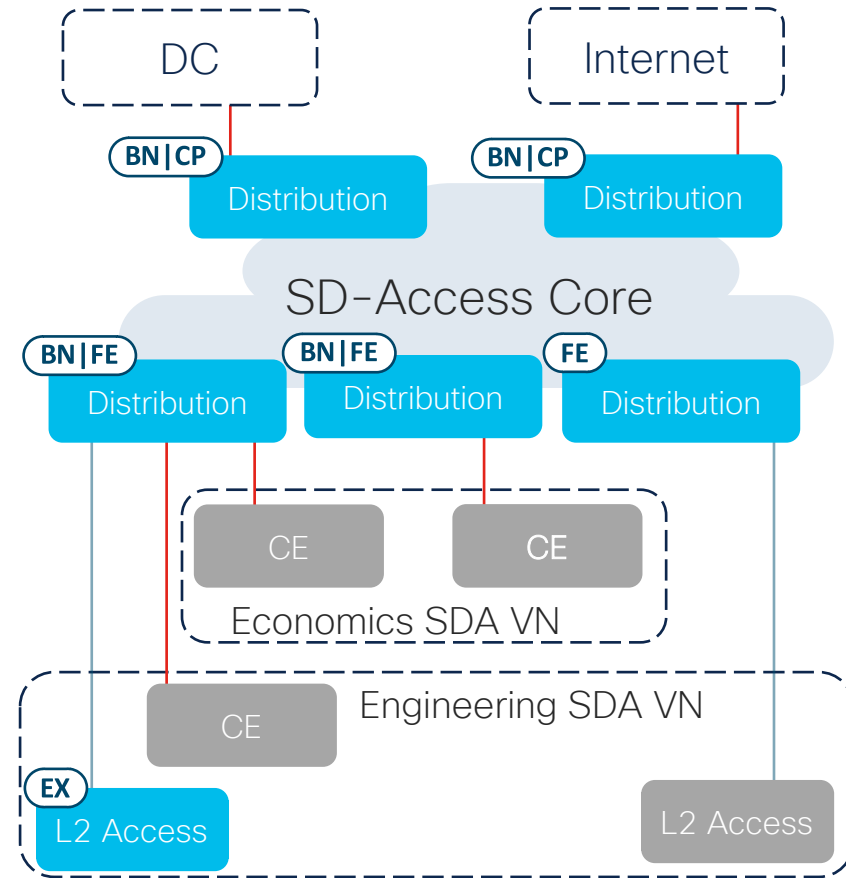
# Cisco SD-Access as an Enterprise Core



# Cisco SD-Access as an Enterprise Core

## Why?

- Cisco SD-Access automation supplants manual box-by-box MPLS configuration / management.
- SD-Access overlay (VXLAN) provides native support for Group-Based Policy (SGT / micro-segmentation) in the wired and wireless domains.
- Prepare the network to receive the present and future benefits of Cisco SD-Access and DNA Center e.g. Automation, Assurance, Fabric-Enabled Wireless, Endpoint Analytics, Group Based Policy Analytics, Group-Based Policy (micro-segmentation), etc.





# Conclusion



# Summary

- Thank you. We can't do this without you! 😊
- Keep sharing the feedback. We are listening.
- Go deep. Familiarize yourself with [DGTL-BRKENS-3822](#).
- Ask the Cisco Sales or CX teams for help.
- Ask questions on the Cisco SD-Access communities:  
<http://cs.co/sda-community> .
- Go Cisco SD-Access!

# Cisco Live 2021 – SD-Access Resources

Would you like to know more?



- [BRKENS-2006](#) – What's New in Cisco SD-Access
- [BRKENS-2007](#) – Top Design Questions for Cisco SD-Access
- [BRKENS-2008](#) – Updated Cisco SD-Access Migration Strategies
- [BRKENS-2000](#) – Applying Zero Trust Security Policies to Your Workplace
- [BRKENS-2022](#) – The Value and Details of Multidomain Pairwise Integration Between Cisco SD-Access and Cisco SD-WAN



The bridge to possible

# Thank you

CISCO *Live!*

#CiscoLive



The background is a vibrant, abstract composition of numerous colorful rays and shapes radiating from a central point. The colors include dark blue, light blue, green, yellow, orange, and red. Some shapes are solid, while others have white circular cutouts. The overall effect is dynamic and energetic.

# TURN IT UP

CISCO *Live!*

#CiscoLive