

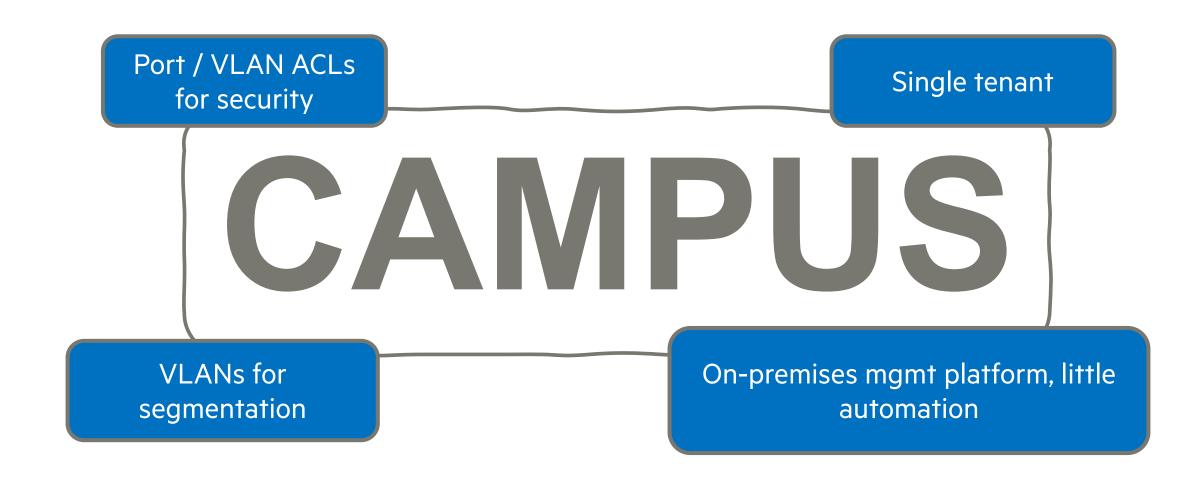
# OTHERS BELGIUM

# Aruba Central NetConductor: An Overview

**Dik van Oeveren,** Consulting Systems Engineer EMEA All credits for this presentation go to Joe Neville

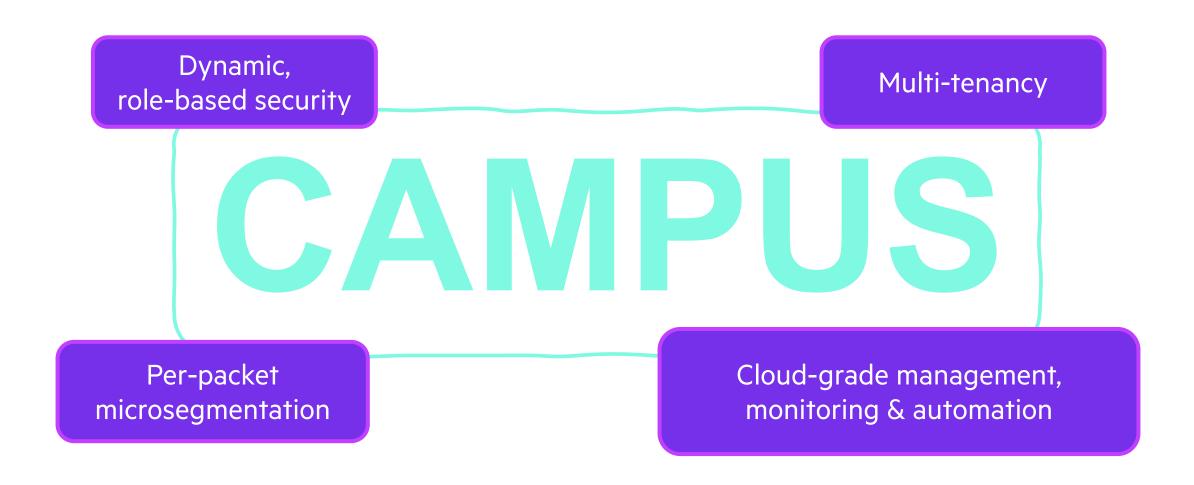
October 19, 2023

### **Traditional Enterprise Networks**

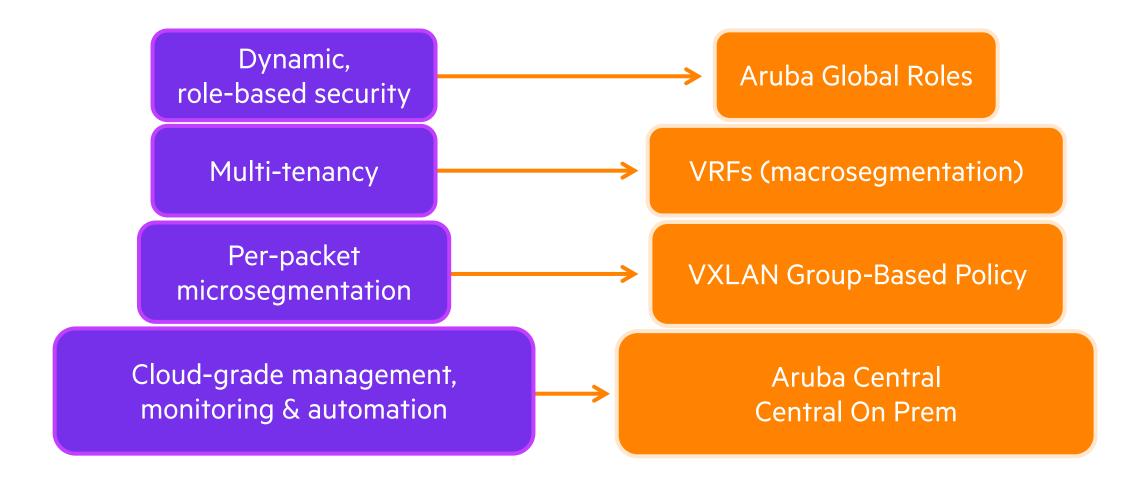


## Customer Asks

### **Customer Asks**



### **Customer Asks**



# Aruba Central NetConductor (ACN)

# But what is it?

Connectivity

**Security** 

Management

**Connectivity** 

**Security** 

**Management** 

#### **Aruba Central**

#### **Aruba Central NetConductor**

**Global Role-to-Role Enforcement** 

**Unified Fabric** 

**AOS 10** 

**AOS-CX** 

**EdgeConnect** 

#### **Aruba Central NetConductor**

#### **Enforcement Models**

**Centralized** 

Small site

**Distributed** 

Large Site

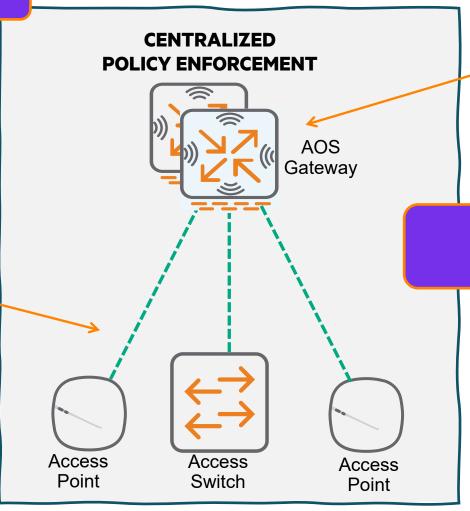
**SD-WAN** 

Multi-Site

#### Centralized

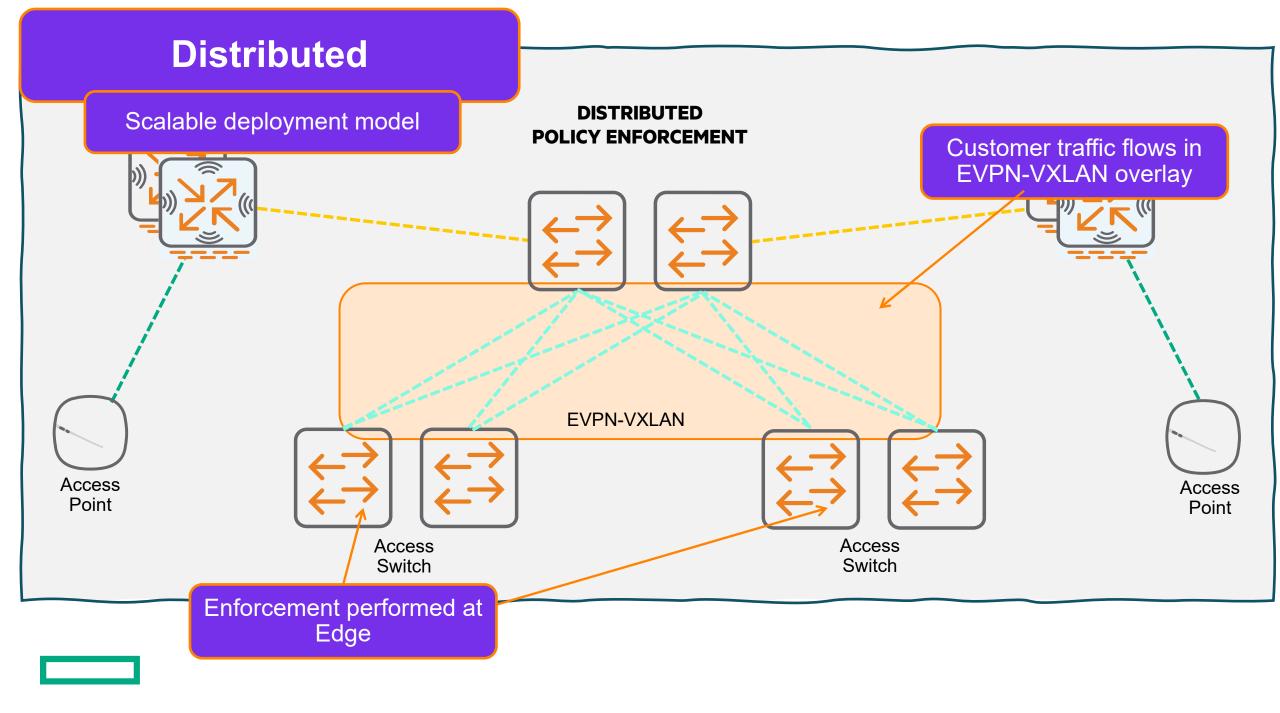
Smaller site deployment model

- Traffic GRE tunneled back to AOS Gateway
- Uniform wired/wireless approach



Enforcement performed at AOS Gateway

Great if traffic North/South
But inefficient for East-West



#### **SD-WAN** VXLAN-GBP (role ID) transported between sites in IPSEC/GRE AOS Gateways for point-to-point WAN tunnels AOS AOS AOS Gateway Gateway Gateway Access Access Access Access Access Access Access Access Access **Point Switch Point Switch Point Point Point Switch Point**

#### **Aruba Central NetConductor**

#### **Enforcement Models**

**Centralized** 

Small site

**Distributed** 

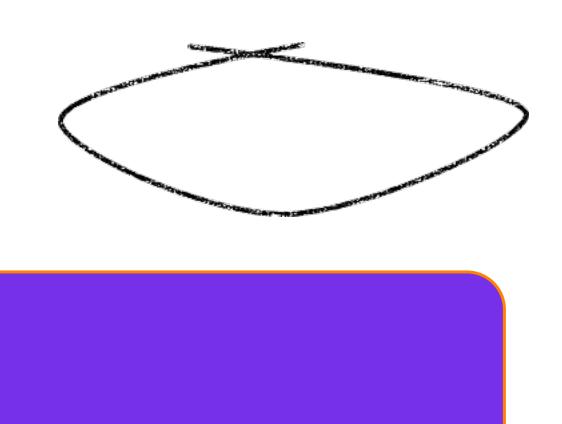
Large Site

**SD-WAN** 

Multi-Site

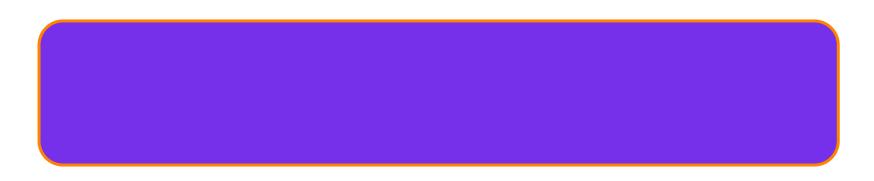
Not mutually exclusive! Interoperation by design ACN is not all or nothing but evolution of existing Aruba design

# ACN Distributed Fabrics with EVPN-VXLAN









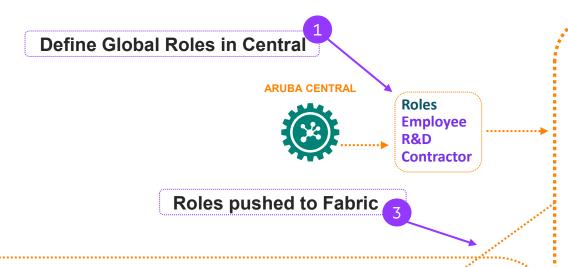




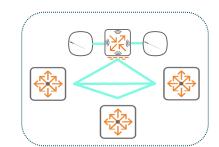
**State** Routing Protocol for fabric

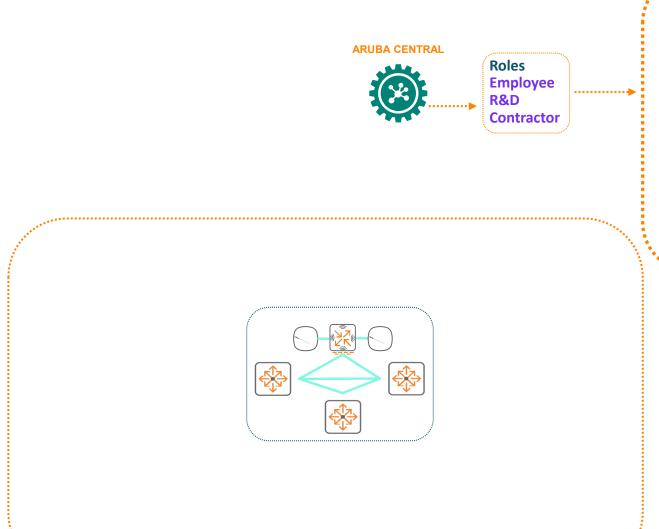
# Dynamic Role-based Security



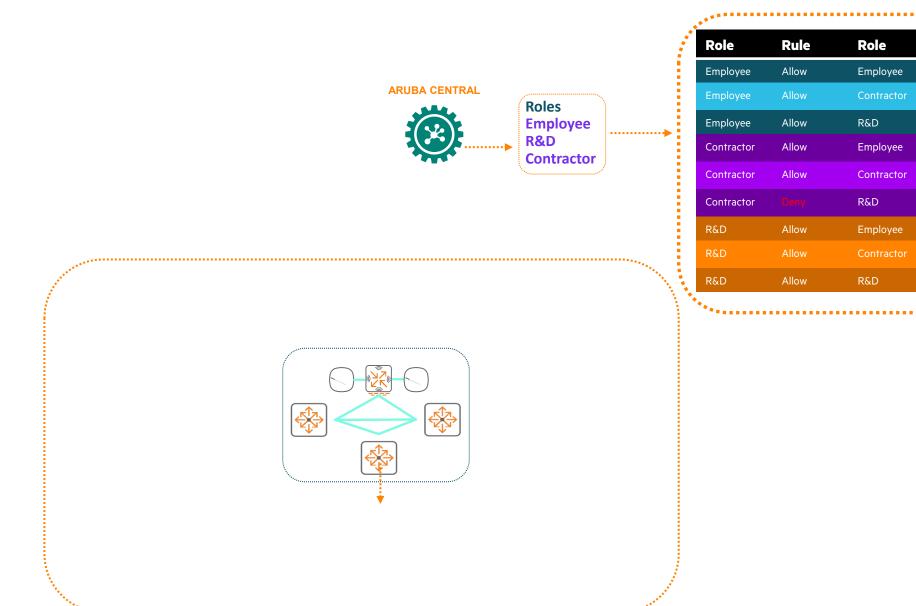






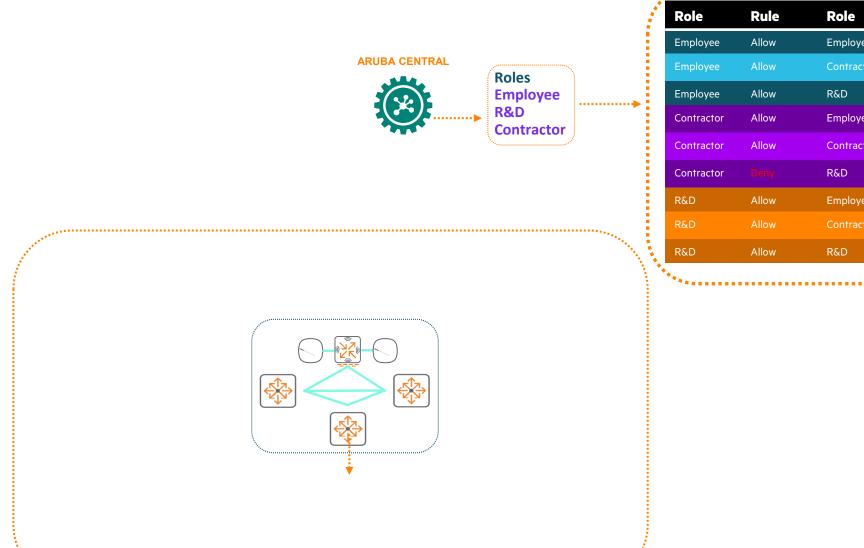


Role	Rule	Role	GBP
Employee	Allow	Employee	100
Employee	Allow	Contractor	
Employee	Allow	R&D	
Contractor	Allow	Employee	200
Contractor	Allow	Contractor	
Contractor		R&D	
R&D	Allow	Employee	300
R&D	Allow	Contractor	
R&D	Allow	R&D	

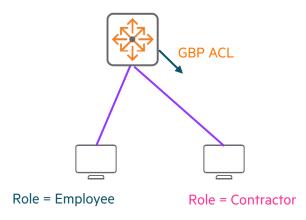


**GBP** 

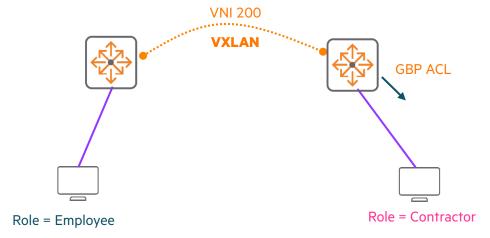
100



#### **Single device Enforcement**

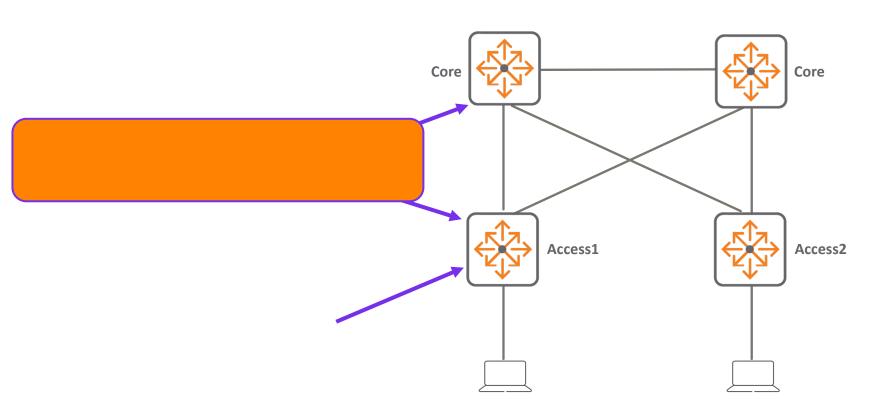


#### **Policy enforcement on egress VTEP**

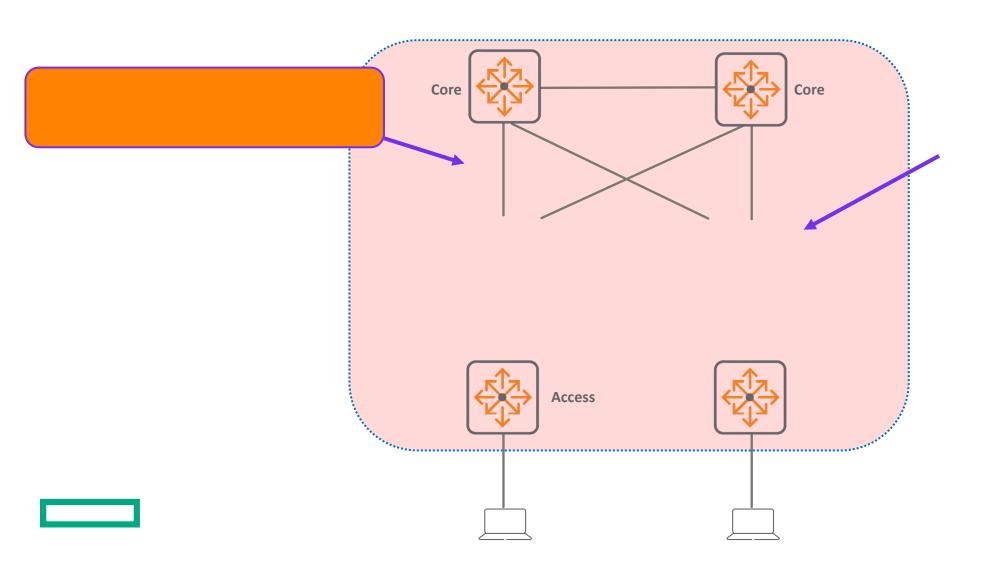


# ACN Design Notes

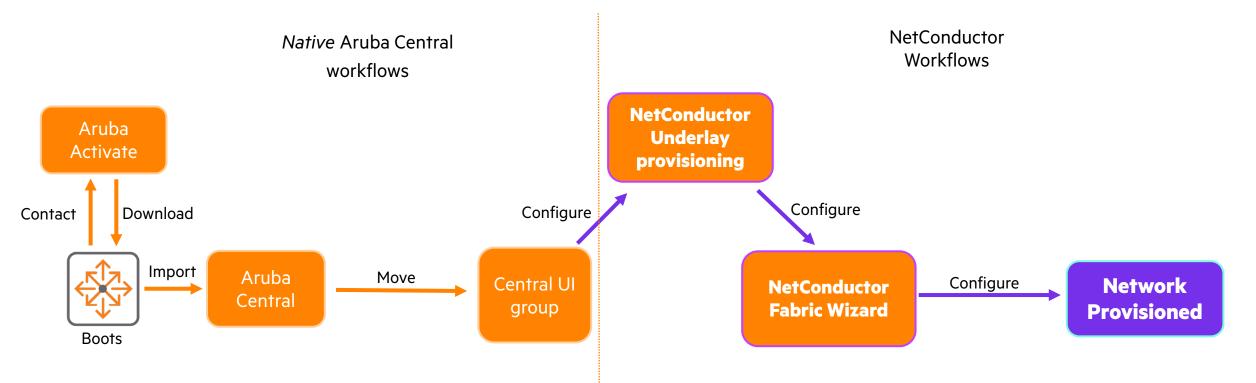
### **ACN Fabric Build**



### **ACN Fabric Build**

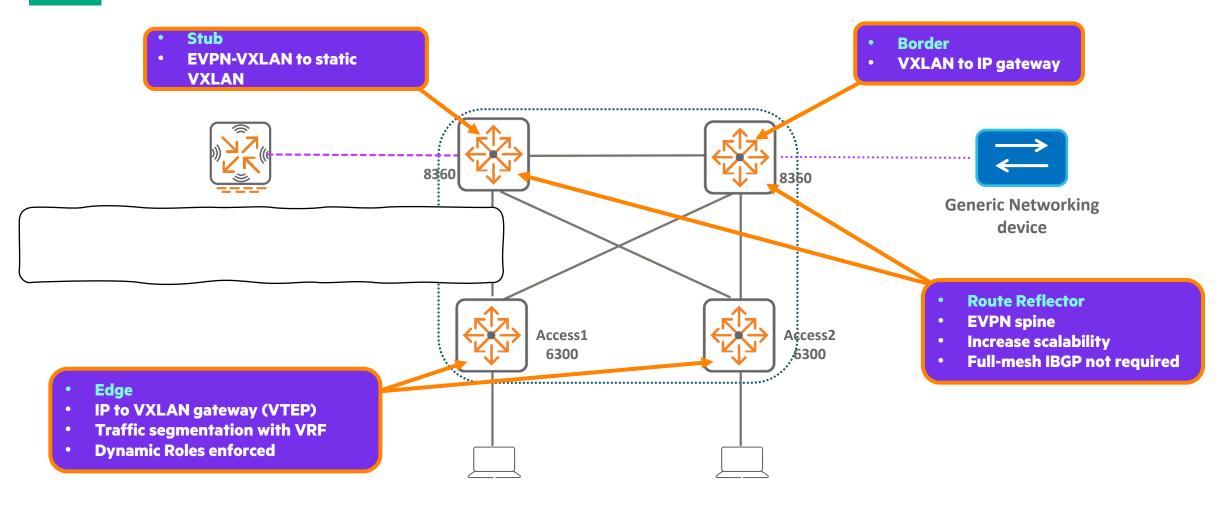


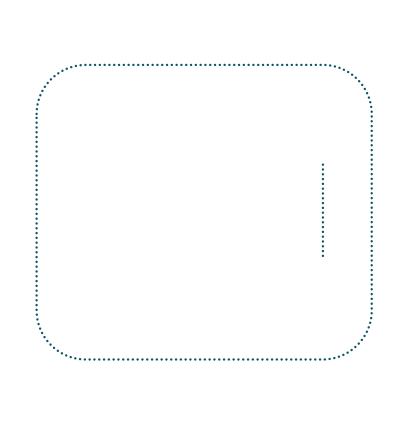
### **ACN Provisioning Workflow**



# ACN Fabric Buildout with Personas

### **ACN Fabric Buildout with Personas**





## Demo

# ACN Specifics & Future

### **ACN Specifics**

### **ACN Future**

# Q&A