

Hewlett Packard Enterprise

Channel Webinar: DCN Competitive Overview and How to Win with HPE Aruba Networking



Competitive TME Thuy D. Pham July 15th, 2024

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Before we begin...



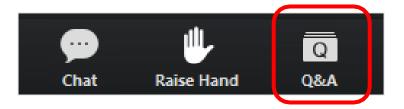
• Listen by computer audio or dial-in



• All lines are muted during the webinar



• Ask *questions by selecting "Q&A"* and to report any webinar difficulties





• Webinar is being recorded & will be emailed to all attendees

Partner Technical Webinar Series *HPE Aruba Networking Competitive Overview*

Session 1: Data Center Switching Competitive Overview Monday, July 15, 2024 at 9 AM PT / 12 PM ET

Session 2: Network Management Competitive Overview Monday, August 26, 2024 at 9 AM PT / 12 PM ET

Session 3: Security SSE Competitive Overview Monday, September 23, 2024 at 9 AM PT / 12 PM ET

(<u>Click here</u>) to register and view session recordings for the webinar series series

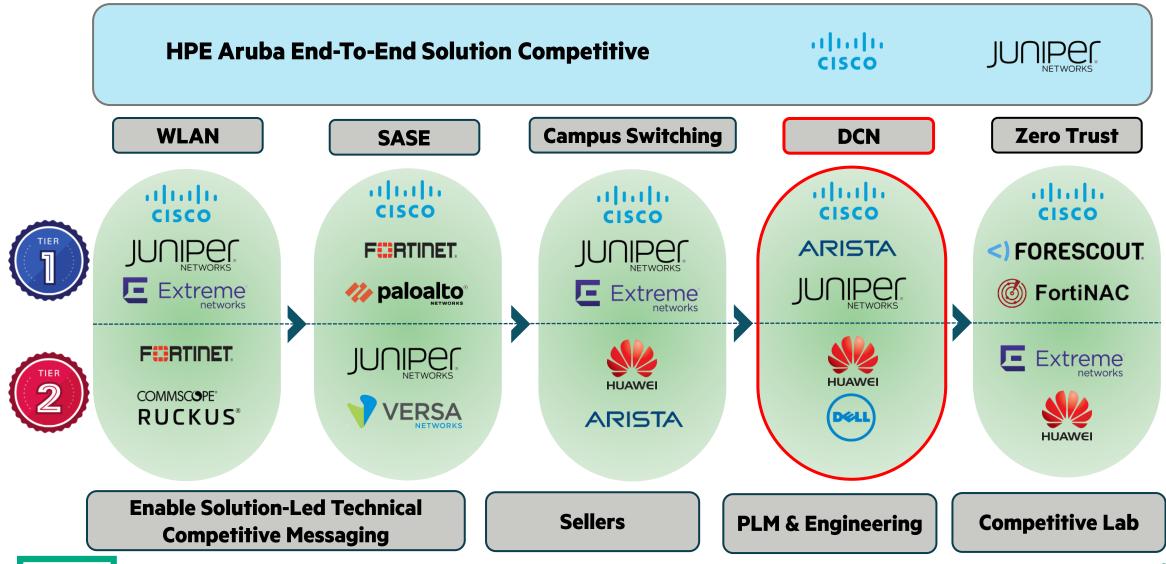
Disclaimer

- ★ All competitor information is from public sources, analyst reports, HPE Aruba sellers, and the Internet.
- ★ Technical & Commercial Competitive data presented in this deck are current as of this date.
- ★ All slides are strictly HPE internal only, and not meant to be shared outside.

Today's Agenda

1	DCN Landscape Overview
2	Cisco DCN Portfolio Overview
3	Arista DCN Portfolio Overview
4	Juniper DCN Portfolio
5	How to Win with HPE Aruba Networking
6	Q&A

Know your competition – Data Center Networking



Cisco

• This set of slides covers high level overview of Cisco



Cisco: At a Glance

History

• Founded in 1984, headquartered in San Jose, California

Unique selling point

• Comprehensive hardware and application portfolios that addressees a large customer base

Sales strategy

• Global internal sales and partner channel enables it to meet presales and procurement requirements worldwide

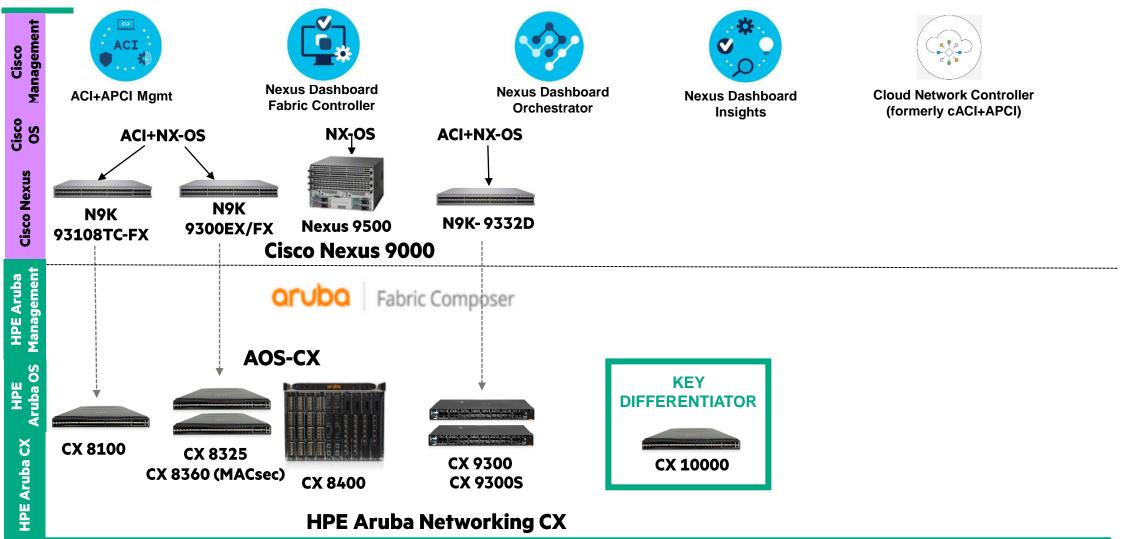
Latest update

• Cisco Vision - Common user interface across Cisco networking platforms

Future trajectory

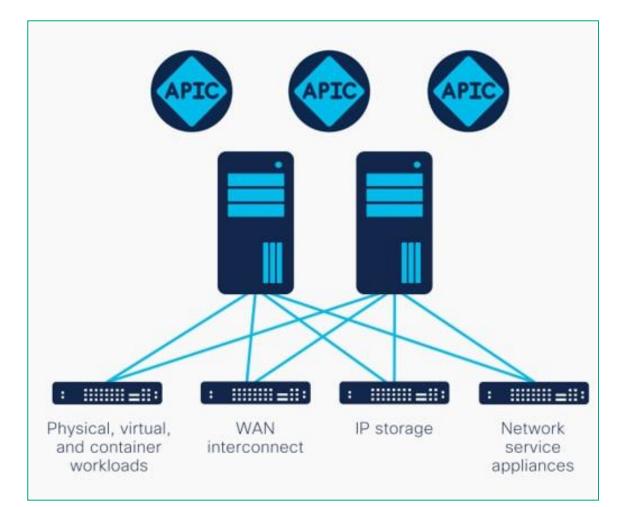
• License models - Perpetual & Subscriptions – Sneaks into Advanced tier for DCN

Product Comparison - HPE Aruba Networking and Cisco for DCN



HPE Aruba Networking DCN Portfolio and Cisco DCN Portfolio

Cisco ACI (Application Centric Infrastructure): Overview



- Cisco SDN solution for data center fabric
- Nexus 9000 family used for h/w infrastructure (leaf & spine switches)
- Application Policy Infrastructure Controller (APIC) cluster for policy management and automation
- Underlay connectivity: ISIS
- Overlay control+data plane
 - Control: COOP (Council of Oracle Protocol)
 - Data: VXLAN
- Endpoints, LST/GST tables, L2Out, L3Out, Endpoint Group, Policy/Contract

Cisco ACI vs HPE Aruba Networking CX 10000 with AFC

CISCO ACI	HPE ARUBA NETWORKING CX10000 with AFC	
Proprietary Control + Data Plane, Vendor lock-in	Open Architecture	
Interop Challenges, Migration difficult	Interoperable with other vendors	
APIC: Complex workflow, Cumbersome Interface	AFC: Simple, Intuitive interface	
Extra tools for monitoring (Tetration, NIR, NAE, NIA) - > more licensing	AFC: one portal for fabric, policy provisioning, monitoring	
Troubleshooting is difficult	Troubleshoot with ease	
Limited uSeg (ACI seg using microseg EPGs) Scale	Security/Services at high scale	

Cisco – Strengths and Challenges

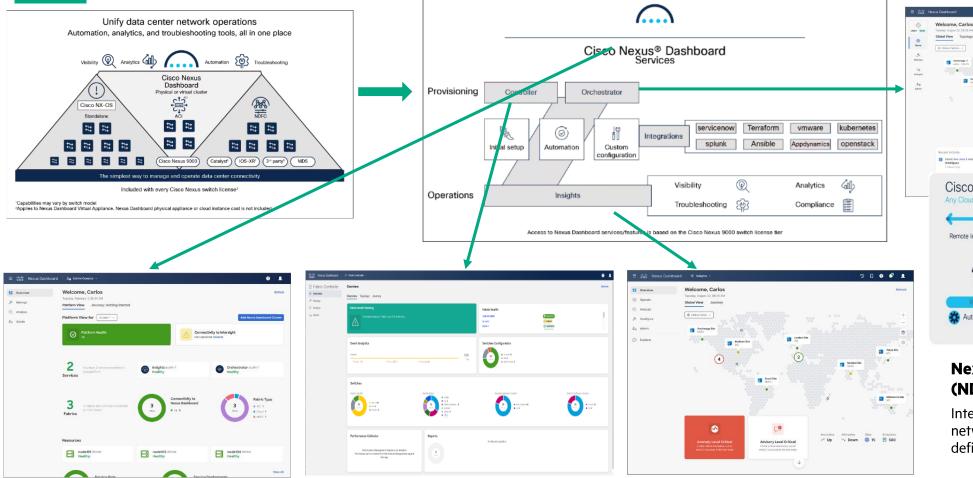
<u>Strengths</u>

- Breadth of hardware portfolio
- Management Story Nexus Dashboard (eg DCCN), Tetration Analytics Platform, APM (AppD), ACI
- SDN Story in both WAN and LAN

Challenges

- Multiple "panes" of management (WAN/LAN/SDWAN), ACI, ND Services, ND Console, NDFC, NDO, ND Insights
- Deployment Complexity and Learning Curve Require multiple OS (ACI or NX-OS mode Nexus deployment), significant amount of HW resources which lead to longer implementation times and increased operational costs.
- Licensing Costs HW, multiple SW licensing tiers, and on-going maintenance costs can be substantial.
- Vendor Lock-In Cisco's proprietary and protocols can create vendor lock-in, making it challenging to switch.
- Distributed network/security services require separate appliances.

Cisco Nexus Dashboard Overview



Nexus Dashboard Admin Console

Displays health of the various clusters, fabrics, and infrastructure services



Nexus Dashboard Fabric Controller (NDFC)

Consolidates management for multiple NX-OS—based switches, bringing automation and monitoring for LAN, EVPN VXLAN, and SAN fabrics

Nexus Dashboard Insights

Monitors network health across Cisco ACI and Cisco NX-OS-based networks

Image: Security Image: Security

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Nexus Dashboard Orchestrator (NDO) and ACI

Interconnect fabrics over any routed network and rendering configurations defined in the Cisco ACI DC controller

Cisco – How To Compete?

What They Claim.

Cisco Networking Cloud is one platform for the entire on-premises and cloud-based DCN environment.
 Simple licensing model

What They Hide!

> Multiple platforms and OS to run DCN environment – ACI or NX-OS or Nexus Dashboard (for cloud)

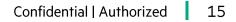
> Multi-tier DCN licensing models required when purchase Nexus – Essentials, Advantage, and Premier

Questions to Ask?

- > Can you provide a breakdown of the total cost of ownership (TCO) for your DCN solutions?
- Can you provide details on Cisco's approach to distributed network/security services such as stateful E-W Firewall, ACL, IPSec Encryption, NAT, DDoS, & Micro-segmentation?

Arista

• This set of slides covers high level overview of Arista



Arista: At a Glance

History

• Founded in 2004 at Santa Clara, CA

Unique selling point

• Known for Data Center Networking

Sales strategy

• Use Data Center success to expand into Enterprise and Cloud Market

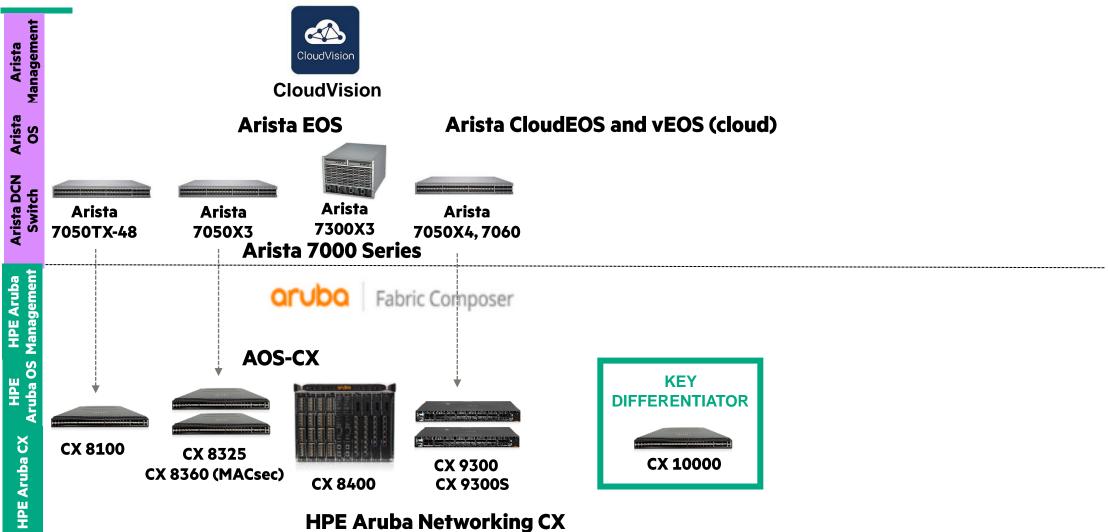
Latest update

• CloudVision: Turnkey solution for automation, control, telemetry and diagnostics

Future trajectory

• Innovate in software-driven cloud networking principles and portfolio

Product Comparison - HPE Aruba Networking and Arista for DCN



HPE Aruba Networking DCN Portfolio and Arista DCN Portfolio

CloudVision Portal (CVP): One Tool for Everything

- Deployment formats: On-premises virtual appliance (CVP), on-premises physical appliance (CVA), Saas/Cloud offering (CVaaS) but referred to as CVP, in general
- Started as on-premises option, but has a cloud offering now
- Initially Mojo Wireless Manager was a separate, but has been integrated into both on-prem and SaaS CVP
- One tool in on-premises and SaaS formats, with wireless and wired support for campus and DC networks.

Virtual appliance Hypervisor: KVM, ESXi, Single-node (lab use) or 2N+1 Cluster (production) Single-node: 8 core CPU, 22 GB RAM, 135 GB Disk, 20 MB/s disk thput 3-node: 28 core CPU, 52 GB RAM, 1 TB Disk, 40 MB/s (per node) disk thput

Physical appliance X86 h/w with OVA installed (CV-100, 200-CV and 250-CV)

Arista – Strengths and Challenges

Strengths

- EOS stability
- Expanding portfolio
- Cloud Vision

Challenges

- Slow to invest in new markets
- Lack of innovation, follow the cloud
- High lead times
- Complexity for Smaller Deployments its DCN solutions are designed for large-scale DC with complex networking requirements. This can lead over engineering and increased costs for smaller organizations.
- Costs HW, SW, and on-going maintenance costs can be substantial
- Licensing costs multiple licensing tiers EOS license Base, E, FLX Lite, FLX, V2, Z CloudVision subscription tiers – Lite or Premier
- Limited Diversification and Campus Networking Focus Lacks diversification into other networking domains. This limits its ability to provide end to end networking solutions.

Arista – How To Compete?

What They Claim.

- CloudVision One tool for everything
- Simple licensing model

What They Hide!

Multiple deployment formats – on-prem virtual(CVP), on-prem physical (CVA), SaaS/Cloud (CVaaS)
 Multiple licensing tiers – EOS license - Base, E, FLX Lite, FLX, V2, Z – CV subs tiers – Lite or Premier

Questions to Ask?

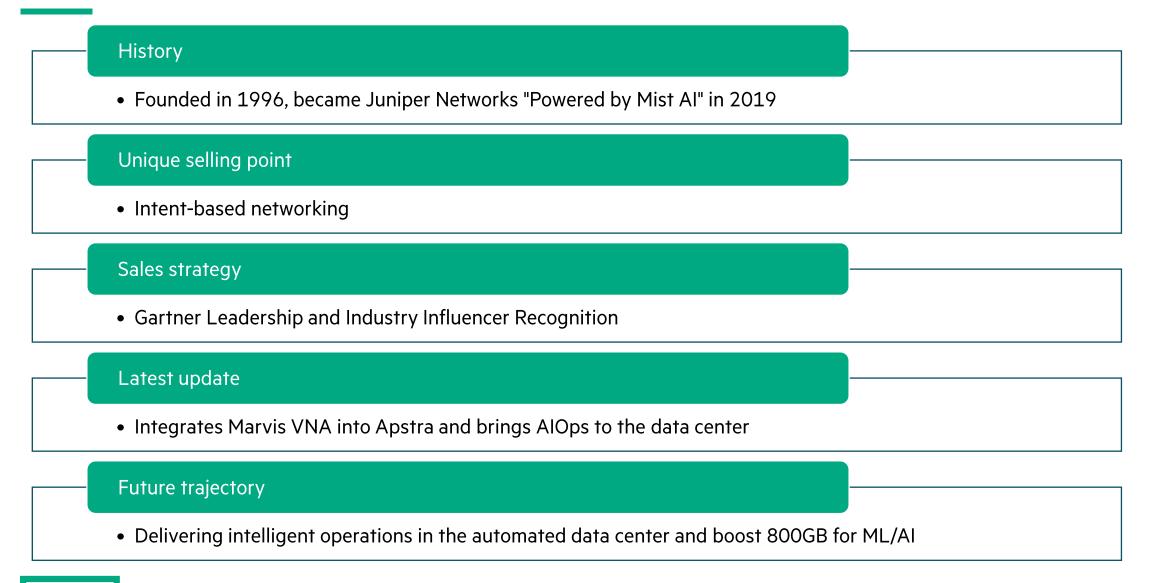
> Can you provide a breakdown of the total cost of ownership (TCO) for your DCN solutions?

Can you provide details on Arista's approach to distributed network/security services such as E-W Firewall, Macro & Micro-segmentation?

Juniper

• This set of slides covers high level overview of Juniper as a company, Juniper Data Center Networking switching series.

Juniper: At A Glance



Management Juniper Juniper Apstra[™] **Security Director** Mavis VNA for DC Juniper QFX, Juniper SRX, Routers OS JunOS & JunOS & JunOS JunOS **JunOS Evo JunOS Evo JunOS Evo** -----QFX 10002. QFX 5230 **QFX 5110** QFX 5130 QFX 5120 **QFX 5700** 10008, 10016 **QFX 5240** SRX Series - NGFW MX, PTX, ACX Routers **Juniper QFX** Managemen **HPE** Aruba aruba Fabric Composer **AOS-CX** uba OS **KEY** HPE DIFFERENTIATOR **HPE Aruba CX** CX 8100 CX 8325 CX 10000 CX 9300 CX 8360 (MACsec) CX 8400 **CX 9300S** HPE Aruba Networking CX

Product Comparison - HPE Aruba Networking and Juniper for DCN

HPE Aruba Networking DCN Portfolio and Juniper DCN Portfolio

Juniper APSTRA

- APSTRA Intent-based networking and automation software (design, deploy, operate)
- Four Challenges APSTRA is claimed to solve:
 - Infrastructure Composition
 - Change Reliability
 - Extensibility
 - Scalability
- Provides intent-based analytics
- Provides root-cause identification

HPE Aruba Networking AFC vs Juniper Apstra

Factor	HPE Aruba Networking AFC	Juniper Apstra	Comments
Under Lay Protocol	OSPF and eBGP (not recommended/validated)	eBGP - Recommended	Equivalent
Overlay Protocol	iBGP	iBGP/eBGP	Equivalent
Configuring overlay and underlay	First configure OSPF underlay, then configure BGP overlay	Configure both underlay and overlay together	Equivalent
Workflow to configure VSX/MC- LAG	VSX can be configured at the service aggregation	Juniper uses ESI LAG.	Equivalent
Configure Fabric if switches are not online	Not Supported	Supported	Advantage Juniper

Juniper – Strengths and Challenges

Strengths

- Strong router portfolio
- JunOS stable EVPN fabric
- Improving lead times

Challenges

- Quality perceptions on QFX line
- APSTRA configuration limitations "workaround with configlets"
- Support (TAC) perception
- Complexity and Learning Curve its DCN offerings are more advanced, complex, and have a steeper learning curve for DCN admin. This can lead to longer implementation times, increased operational costs, and training requirements.
- Costs Its DCN solutions come with a premium price tag for HW, SW, and on-going maintenance.
- Integration Challenges Integrating its DCN's solutions with existing or non-Juniper is challenging due to proprietary protocols.
- Licensing costs multiple licensing tiers Standards, Advanced, and Premium.

Juniper – How To Compete?

What They Claim.

Solving infrastructure composition, change reliability, extensibility, and scalability with Apstra for DCN
 Simple licensing model

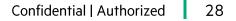
What They Hide!

- > Apstra for Day 2 automation and configurations are limited use configlets workaround for solving configurations
- > Multiple licensing tiers Standard, Advanced, and Premium

Questions to Ask?

- > Can customers easily configure Apstra without using scripts or manual configuration?
- > Can you provide a breakdown of the total cost of ownership (TCO) for your DCN solutions?

How to Win with HPE Aruba Networking



HPE Aruba Networking Strengths/ Advantages

Simplified Operations

- Common OS, features, management
- Security-first, Al-powered networking solutions
- Modern UI, workload centric, easy-touse

Pre-engineered Solutions

- Easily integrates with HPE compute and storage
- Integrates with third-party vendor environments using pre-validated reference architectures
- Reduces time, risk and cost of standing up complex IT solutions

Distributed Network and Security Services

- Stateful firewall services East-West traffic, stateful ACLs, encryption, DDoS, NAT
- Zero-trust segmentation
- Pervasive telemetry/IPFIX

Cost Savings

- Reduces hardware and infrastructure cost
- Reduces deployment and maintenance complexities
- Streamlining operational overhead

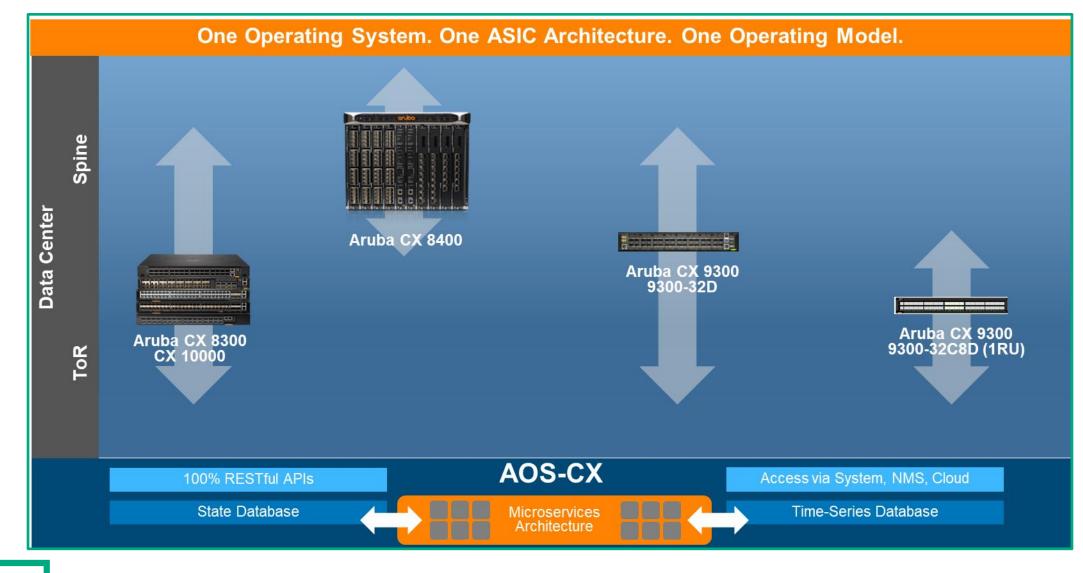
How to Win with HPE Aruba Networking – Data Center Networking

- HPE Aruba Networking is #1 or #2 in every IT/DC category compute, storage, cloud, services and networking.
- HPE Aruba Networking's architecture is based on open standards, open AP, and a large data center technology ecosystem.
- HPE Aruba Networking solutions are full interoperable with 3rd party/multivendors environments.
- We offer best-of-breed Security-first, AI-powered networking solutions that are essential to Zero Trust and integrate with your current security systems.

DCN - How to Overcome Customer's Objections

Customer Objections	HPE Aruba Networking Response	
HPE Aruba Networking's data center experience "HPE Aruba Networking isn't a data center player."	HPE Aruba Networking is #1 or #2 in every IT/DC category – compute, storage, cloud, services and increasingly networking.	
Interoperability, learning curve "We don't have time to deal with new technologies."	HPE Aruba Networking provides many validated reference architectures (pre-tested integrations with commonly used technology solutions our customers may have).	
Cisco/Arista/Juniper shop "We're a Cisco/Arista/Juniper shop – we're going to stay with Cisco/Arista/Juniper solutions."	HPE Aruba Networking solutions are full interoperable with 3rd party/multi- vendors environments and have open API integration with network/IT automation tools	
HPE Aruba Networking's new CX Technology will be disruptive "Aruba's new CX 10 switching technology is too new."	The HPE Aruba Networking CX10K switch can be seamlessly deployed as a ToR switch without disrupting your network design. It's easy to start small with one rack or POD.	
Data center security "Security is driving our vendor decision(s)"	We offer best-of-breed security/network solutions that are essential to Zero Trust -and integrate with your current security systems. HPE Aruba Networking's CX 10K switching is the industry's first and only switch with embedded firewall services capabilities on all ports	

Why HPE Aruba Networking for DCN?



Quick Answer: What are my options for VMware NSX, given the changes arising from the Broadcom acquisition?

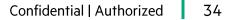
What are my options for (agentless) NSX / Microsegmentation

1 - Upgrade to VCF 2 - network or Server DPUs 3 - Do nothing/VLANs "The network switch will be the enforcement point for microsegmentation. The local network switch must also be the default gateway for all connected workloads and employ anycast to enforce microsegmentation at the switch connecting the host. Vendors: Cisco (ACI) and Hewlett Packard Enterprise (HPE) Aruba (CX10000)"

Gartner, Quick Answer: What Are My Options for VMware NSX, Given the Broadcom Acquisition?, Nauman Raja, Andrew Lerner, Jorge Aragon, May 2024

HPE Aruba CX 10000 vs. Agent-based Firewall, Security (e.g., VMware NSX)

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HPE Aruba CX 10000 Distributed Services Switch	Design and TCO Considerations	Virtualized software security agent
Security/network services embedded into network fabric	Architecture	Software-agents deployed across 100-1,000's servers
 Distributed E-W Firewall, Microseg, NAT, IPsec 	Security functionally	 ✓ Distributed E-W Firewall, Microseg, IDS
None - DPU based acceleration	Impact on servers	High - 20-30% CPU Tax
✓ 800G Stateful Firewall	Performance	 Limited to server CPU/NIC
Low - up to 65% less when compared to software-agents	Overall TCO	High – based on costly, annual server licensing subscriptions
Simple integration into any virtual, bare metal or brownfield DC	Deployment flexibility	Hypervisor dependent, admin complexity for brownfield DC



HPE Aruba Networking Integration

HPE GL PCE, storage, compute, solutions and customer wins

HPE GreenLake for Private Cloud Enterprise

CX 8360 and CX 8325 used for OOBM and leaf/spine network

HPE Storage Networking Ethernet Storage Fabric, Mellanox replacement

CX 9300, CX 8325 with new half-width 8325 switches coming Q3

HPE HPC / AI testing Security-first, AI ready Data Center Network

Rail-optimized, 2-node fabric with 9300-32D (400G) support 64 GPUs

HPE GreenLake for Networking DCN Service Packs

CX 8000/9000/10000 available for NaaS consumption

HPE Reference Architectures - link

HPE Aruba Networking integration into dozens of HPE RAs

vmware^{*}

Microsoft







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HPE GL Wins with HPE Aruba







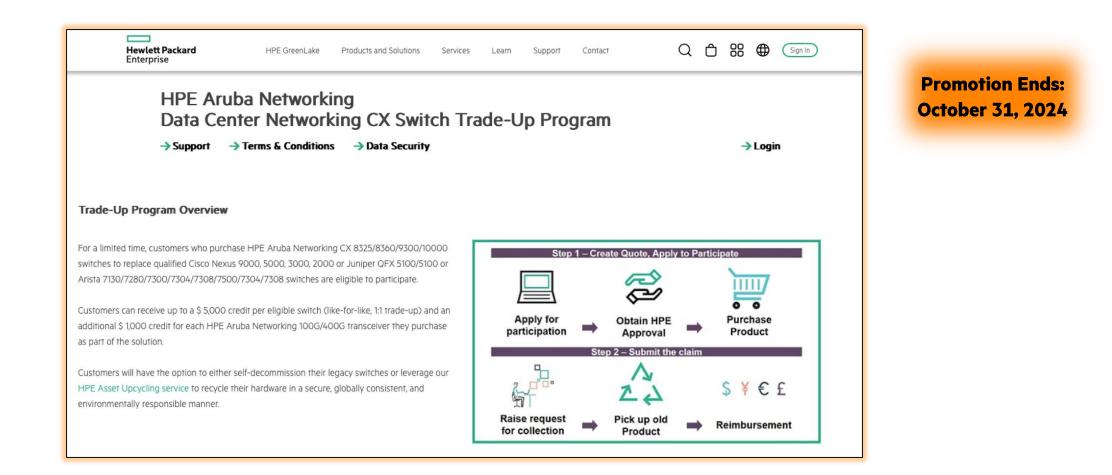
We create chemistry



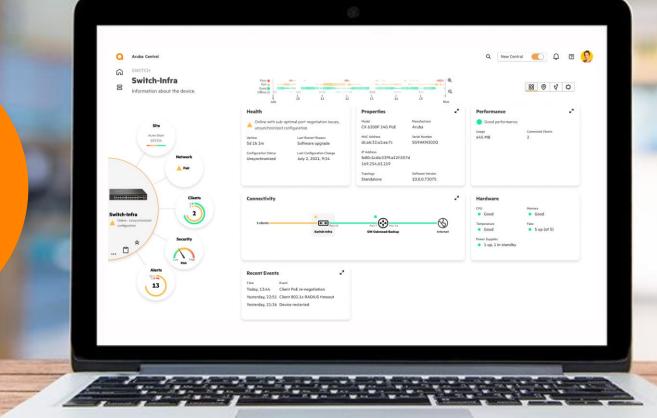
HPE Aruba Networking DCN CX Switch Trade-Up Program

Apply HERE: www.hpe.com/partners/dcncxtradeup

Learn More! (DCN WinBook on SalesEdge)



Introducing Next Generation Central Cloud Management



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AI-POWERED

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Campus-DCN Group based policy Network Optimizer Digital twin

HPE Aruba Networking - Data Center Industry Recognition

HPE or ubo networking

QR - Get the Reprint



"One of HPE Aruba's differentiating features is its Distributed Services Switch, which provides stateful firewall services at every top-of-rack configuration ..."



Data Center 50: The Coolest Data Center Companies of 2023









https://research.gigaom.com/reprint/gigaom-radar-for-data-center-switching-hpe/

Questions





Useful Links

Aruba Technical Enablement home page

https://afp.arubapedia.arubanetworks.com/arubapedia/index.php/Technical_Enablement

Aruba Data Center Information: Tons of great links

https://afp.arubapedia.arubanetworks.com/arubapedia/index.php/Category:Data_Center_Switches

Aruba Fabric Composer Test Drive! Hands on!

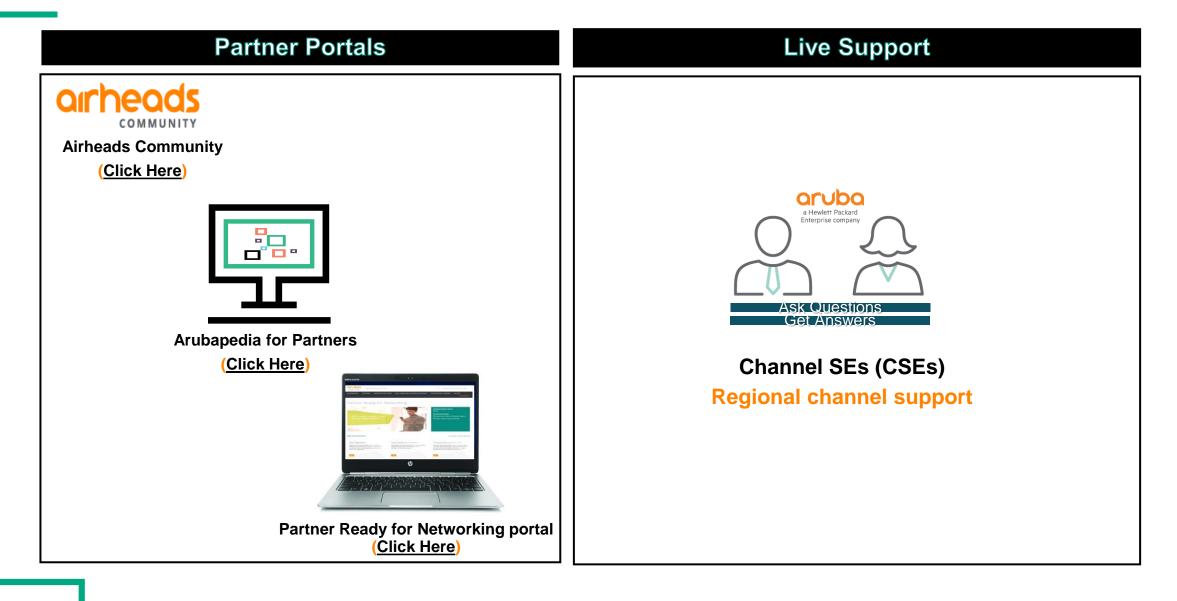
https://www.arubanetworks.com/afc-demos/

Data Center Evolution with Pensando

https://arubaversity.arubanetworks.com/student/path/1315140-data-center-evolution?sid_i=0



Partner Resources



Partner Technical Webinar Series

HPE Aruba Networking Competitive Overview

Session 1: Data Center Switching Competitive Overview Monday, July 15, 2024 at 9 AM PT / 12 PM ET

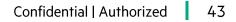
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(<u>Click here</u>) to register and view session recordings for the webinar series

Thank you

Competitive TME - <u>aruba-competitive-tme@hpe.com</u>



Backup Slides



Building the next-gen IT service delivery platform





DXC Technology (NYSE: DXC) helps global companies run their mission-critical systems and operations while modernizing IT, optimizing data architectures, and ensuring security and scalability across public, private and hybrid clouds.

Pre-deployment

- More than 100 global, multi-tenant data centers
- End-to-end Cisco ACI deployment
- Scale-up services appliances

Challenges

- Complexity and cost (infrastructure sprawl, overlapping IPs, inefficient traffic patterns)
- Poor security posture
 - Limited intra-data center security
 - Unencrypted flows

Solution: distributed services

- Aruba Fabric Composer
- HPE Aruba Networking CX 10000
 - Distributed E-W firewall, NAT, IPSec
- >70% increase in workload security posture within DC
- Up to 83% reduction in DC security infrastructure footprint

• SD-Branch

• User Experience Insights (UXI)

Customer Profile

Campus sits on nearly 10 square miles, has 13K+ faculty and 56K+ students. Looking to transform their academic experiences and support pioneering research that enables students, faculty, and staff to make a significant societal impact. The strategy for the future infrastructure is to modernize edge and data center networks to deliver ultrahigh performance, secure connectivity.

Opportunities

Advanced data security capabilities eliminate the need to purchase separate hardware appliances, software, and licenses to provide the cybersecurity capabilities required. When researches include 100GbE connectivity in proposals, it improves their chances of winning grant funds nationally and worldwide.

University of Illinois Urbana-Champaign – DCN Win

Challenges

Campus needs change quickly. There is a high need for usage visibility and analytics insight to pivot quickly to changing needs.

Competitive situation

Already partnered with HPE Aruba Networking for wired and wireless edge networking, Illinois determined that adopting HPE Aruba Networking Data Center solution was the best choice.

Solution

HPE Aruba Networking Hardware

- WiFi 6E Access Points
- CX Access Switches
- CX Core and Data Center Switches
- HPE Cray Supercomputing

HPE Aruba Networking Software

- Central on Premises
- ClearPass Policy Manager



- Delivers 100GbE that enables attracting research grants
- Achieves \$200K savings by reducing data center complexity
- Streamlines management and troubleshooting significantly



Doane University – DCN Win

Customer Profile

Campus sits on 300 acres and encompasses 21 buildings, including 6 residence halls. Two satellite locations exist for nontraditional students. Stated vision is to have a fully digital education journey with every aspect of daily life enabled by a mobile device.

Opportunities

Doane's hyper-connected vision included a data security review and refresh as its legacy firewall was unable to deliver the necessary performance for achieving the new hyper-connected vision. Requirements included adopting future-ready AI-enabled, networking infrastructure, Securing personal data using zero-trust, SASE approach, and gaining a flexible, expandable cloud-managed solution.

Challenges

Doane first considered deploying a traditional firewall that was double the size of existing equipment, although this would somewhat improve traffic flow, Doane determined that bottlenecks would return.

Competitive situation

Cisco

Business outcome

- Enables cutting-edge academic innovation like AI, analytics, and IoT
- Provides 10x throughput and reduces Wi-Fi incidents 60%
- Saves nearly 30% on costs versus leading competitor
- Safeguards personal data institution-wide with rapid 9-week deployment

Solution

- 630 Indoor Access Point Series
- 570 Outdoor Access Point Series
- 550 Indoor Access Point Series
- 505H Remote Access Point Series
- Central
- ClearPass
- CX 6300 Switch Series
- CX 10000 Switch Series



Kyndryl – DCN Win

Customer Profile

kyndryl

Kyndryl is the world's largest provider of IT infrastructure services serving thousands of enterprise customers in more than 60 countries. With their strategic technology partners and thousands of customers worldwide, they cocreate solutions to help enterprises reach their peak digital performance.

Opportunities

Modernization of Kyndryl's colocation facilities needs to be transformational in terms of reduction in Capex & Opex, compliance and security expenditure. TCO benefits need to be multi-faceted across security, sustainability, and performance through infrastructure consolidation.

Challenges

Securing scaling of managed cloud services across global colocation sites. Each colocation facility must handle multiple terabits of encrypted data traffic with ever growing bandwidth requirements.

Business outcome

Kyndryl's Global Network Peering Platform evolution with the CX 10000 is being rolled out across their worldwide hosted hybrid IT datacenters, providing security services for Cloud, C4i and resiliency services clients, delivering radical TCO savings in legacy infrastructure retirement and consolidation, without forcing a compromise between choosing between delivering the necessary performance to meet customer SLA's and security.

Moved from 40RU+ in rackspace down to 2RU with a pair of CX10000s.

Solution

- CX 10000 Smart Switch
- HPE Aruba Networking Premium Service for CX 10000
- HPE ANW 8100
- HPE ANW Central SW (5-year)

Kyndryl News Announcement: <u>https://www.kyndryl.com/us/en/about-us/news/2024/02/private-5g-network-services-with-hpe</u> Datacenterdynamics.com announcement: <u>Kyndryl strikes private 5G partnership with HPE - DCD (datacenterdynamics.com)</u>

Cisco Hypershield

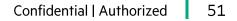
• This set of slides covers high level overview and our response to Cisco Hypershield recent announcement.

Cisco Hypershield Announcement

- On April 18th, 2024, Cisco announced Cisco Hypershield: Security reimagined hyper-distributed security for the AI-scale data center.
- Cisco claims that the It's the first truly distributed,
 - Al-native system that puts security wherever it needs to be:
 - In every software component of every application running on your network; on every server;
 - And in your public or private cloud deployments.

What Cisco Hypershield Really Is

- A Cisco security architecture NOT currently supported in a Cisco switching platform.
- Cisco Hypershield is a two-tier software only, subscription service. The first release is only supported on server deployment.
- Cisco Hypershield can be installed as an agent in public/private cloud, VM, and container workloads.
- Cisco Hypershield is built on open source eBPF that provides visibility of the server at the OS/kernel. Required kernel level modifications which can be very risky.
- Cisco Hypershield Architecture still requires their NGFW (ASA) and is a centralized firewall service. Selective East-West traffic still needs to be hairpin back to and from fabric.
- Cisco Hypershield software version is expected to be available sometime in August 2024.



HPE Aruba Networking Key Differentiators

- Powers a simplified and less complex Data Center Distributed Services Architecture (DSA) without software agents and a CPU tax.
- Avoids appliances sprawl and traffic hair pinning when East-West traffic inspections and segmentation are required.
- Security-first and AI-powered approach for Data Center Networking.
- CX 10000 is a Distributed Services Switch (DSS) that provides service chaining solution with East-West Firewall (FW), IPsec Encryption, Network Address Translation (NAT), Telemetry and other advanced services simultaneously with extensive scale.

How to Win and Key Takeaway

HOW TO WIN:

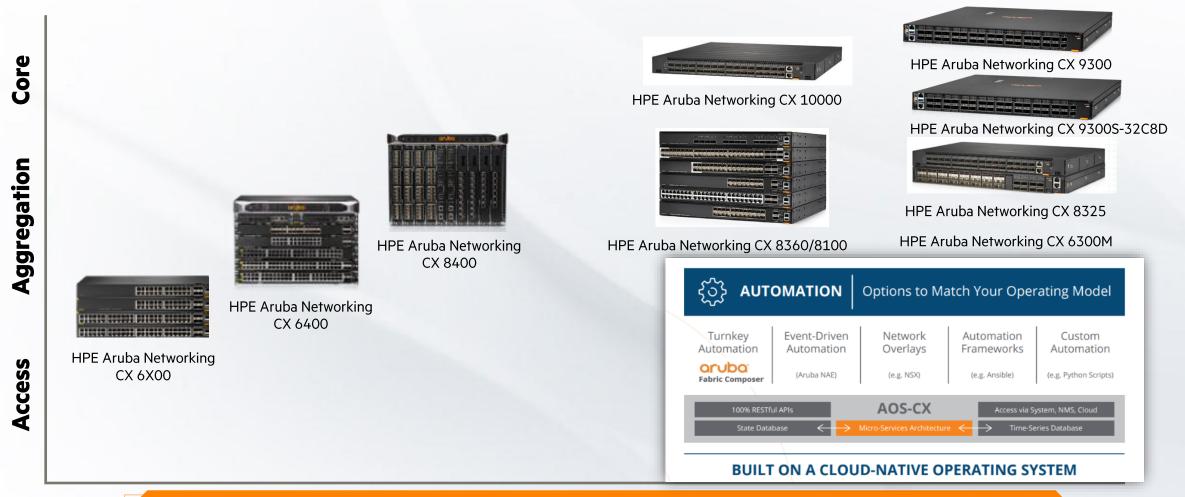
- Simplify network and security deployment and operation.
- Distribute services closer to applications for secure, streamlined management.
- Improve security while limiting appliance scrawl for a lower overall cost.
- Optimize network bandwidth, performance, and user experience.
- Seamlessly integrates into existing compute, storage, and virtualized IT infrastructure.

KEY TAKEAWAYS: BENEFITS OF HPE ARUBA CX10000 SERIES SWITCH

- Lower total cost of ownership
- Single point of management = easier automation
- Zero Trust Secure Networking
- Automated Insights & Diagnostics

Connect: Unified edge-to-cloud switching

Data center—leaf-spine, 25/100/400G, On premises, private cloud, colocation



AOS CX

Common operating model - campus edge to DC, cloud managed

End-to-end portfolio for the enterprise

Confidential | Authorized

Industry-First SmartSwitch

Driving the 4th Generation Data Center









AI/ML AND VISUALIZATION INTEGRATIONS

