



Hewlett Packard
Enterprise

HPE Aruba Networking

Data Center Switching Sales Play and Opportunities

Tony Low, Data Center Sales
John P. Gray, Sr. Global Product Marketing Manager

Before we begin...



- Listen by computer audio or dial-in



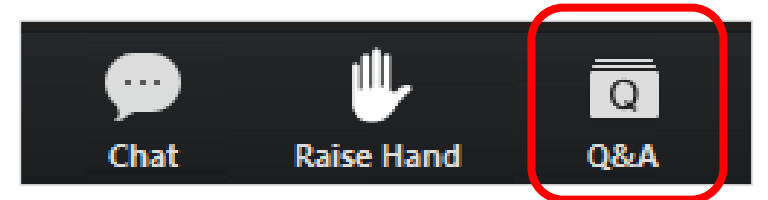
- All lines are muted during the webinar



- *Ask questions by selecting “Q&A” and to report any webinar difficulties*



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



Partner Sales Webinar Series

Win More Deals with HPE Aruba Networking's Next-Gen Data Center Switching Portfolio

Session 1: Data Center Switching Sales Play and Opportunities

Tuesday, March 12th at 11 AM PT / 2 PM

Session 2: Beat the Competition with Aruba's New Data Center Switching Solutions

Tuesday, April 9th at 11 AM PT / 2 PM ET

Session 3: Win More Data Center Switching Deals with Unique Differentiation and Best Practices from the Field

Tuesday, May 7th at 11 AM PT / 2 PM ET

([Click here](#)) to register for the webinar series

Today's Agenda

1

Data Center Trends and Challenges

2

HPE Aruba Networking Data Center Solution Overview

3

HPE Aruba Networking Sales Plays

4

How to engage and handle objections

5

Key Takeaways and Additional Resources



HPE Aruba Networking - Data Center Industry Recognition



QR - Get the Reprint



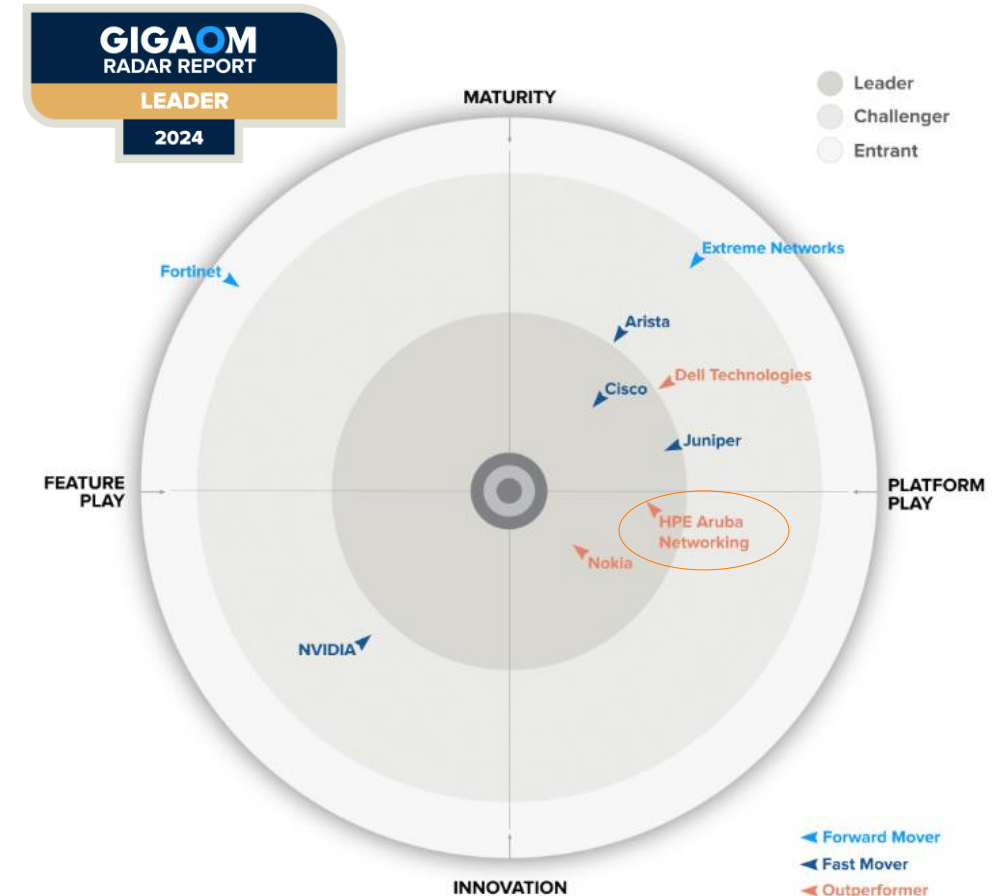
“One of HPE Aruba’s differentiating features is its Distributed Services Switch, which provides stateful firewall services at every top-of-rack configuration ...”



Data Center 50:
The Coolest Data Center Companies of 2023



HPE Aruba Networking CX 10000



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

HPE ARUBA

EDGE TO CLOUD LEADERSHIP

\$28.4 Billion Revenue
\$870 Million Net Income
GreenLake Growth +97% YoY
Channel GL Growth +112% YoY
SI GL Growth +151% YoY



HYBRID CLOUD WORKLOADS



#1 WORLDWIDE TOTAL **SERVER** REVENUE¹

#1 WORLDWIDE TOTAL **HPC** REVENUE²

#1 PROACTIVE STORAGE SUPPORT INFOSIGHT³

#2 WORLDWIDE TOTAL **STORAGE** REVENUE⁴

#2 WORLDWIDE TOTAL ON-PREMISE **PRIVATE CLOUD INFRASTRUCTURE** REVENUE⁵

#1 OF THE **TOP 500 SUPERCOMPUTERS**⁶

INTELLIGENT EDGE



#1 GARTNER - HIGHEST SCORE FOR 5 OUT OF 6 USE CASES FOR **WIRED & WIRELESS LAN ACCESS** Out of 17 vendors⁷

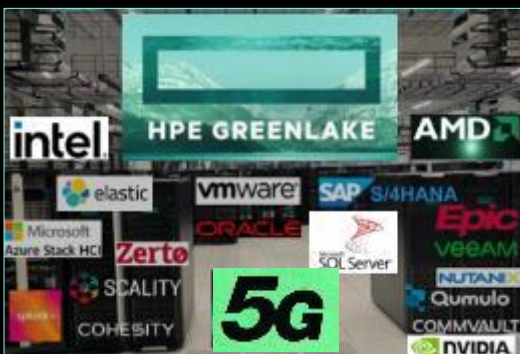
#1 WORLDWIDE NEXT GENERATION **WLAN (802.11AX)** REVENUE⁸

#2 WORLDWIDE **WIRELESS LAN AND CAMPUS SWITCHES** (Excluding China)⁹

#1 IT TECHNOLOGY RENEWAL CENTER & REMARKETER OF IT ASSETS

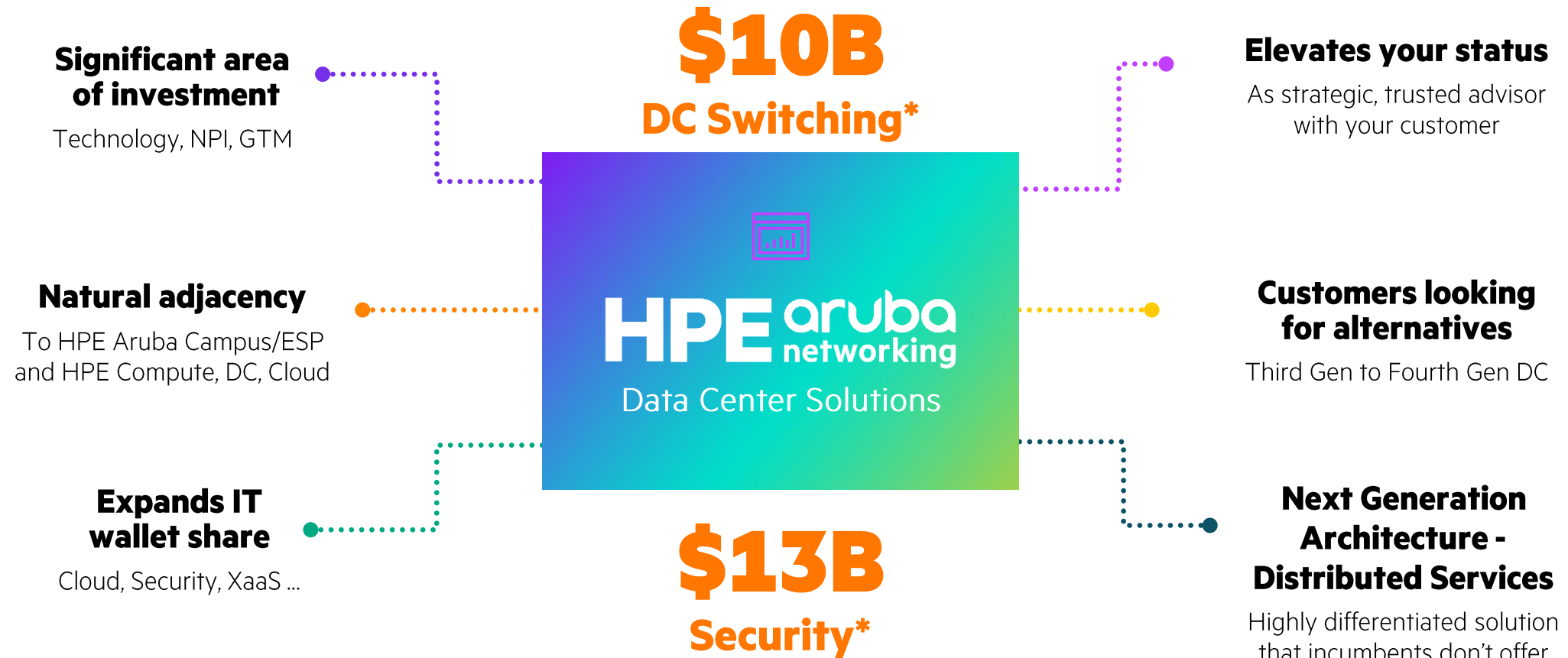
1ST IN INDUSTRY TO PROVIDE CIRCULAR ECONOMY TRACKING

#2 IT CAPTIVE FINANCING COMPANY



Leading Edge to Cloud Advisory and Management Services

Why Partner with HPE Aruba Networking in the Data Center?



*10/25/100/400 GbE , Leaf-Spine Switching, DC security adjacencies Enterprise Market - IDC

2024 Data Center / IT Trends and Challenges

Generative AI - board level IT investments in apps, GPU based servers, and supporting infrastructure (200/400GbE) AI “Clusters”

Ongoing IT/DC/App modernization driving “traditional” compute, storage, network refresh cycle (reduce risk, increased availability, BC/DR)

Security (Zero Trust) – improving visibility, telemetry, unifying policies and control

Simplifying operations, lowering cost – IT automation, unifying Netop/SecOps. Budget/spending re-prioritize (needing compelling ROI).



Customers are also telling us

Simpler IT

If I could get help and expertise with the routine stuff, our people could do so much more.

Business agility

I need to move a lot faster – if IT could only be ahead of business initiatives for once.

Lower IT costs

I need to align our costs to business benefits, and I'm constrained by our budget.

Evolving Roles

Our personnel is asked to do more than traditional networking or IT.

Proper control

I'm worried about our ability to control performance, security, compliance, and our data.



HPE Aruba

**Delivering Next Generation
High Value Data Centers**



POLL



Simplification and accelerate service delivery and security

HPE Aruba Networking delivers modern networking solutions for “Centers of Data” connectivity

Cloud native switching architecture



Software-defined fabric automation / orchestration



Distributed services architecture



HPE Aruba Networking IT integration (compute, storage, HCI, SAP, HPE GreenLake ...)

UP TO 35% LOWER TCO
optimized form-factors and licensing

UP TO 10X FASTER provisioning vs
traditional manual CLI models

UP TO 100X SCALE vs traditional
centralized DC designs

Unified Infrastructure, edge-to-cloud

Core
Aggregation
Access

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



HPE Aruba Networking
CX 6X00



HPE Aruba Networking
CX 6400



HPE Aruba Networking
CX 8400



HPE Aruba Networking CX 10000



HPE Aruba Networking CX 8360/8100

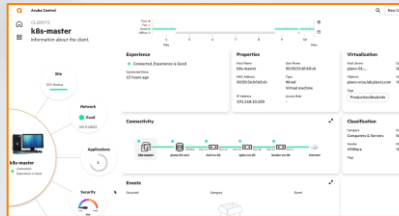


HPE Aruba Networking CX 9300



HPE Aruba Networking CX 8325

HPE Aruba Networking CX 6300M



HPE Aruba Central and AOS CX

Common operating model - campus edge to DC, cloud managed



AOS-CX

Built on cloud-native principles

Modularity

Faster innovation with independent processes

Programmability

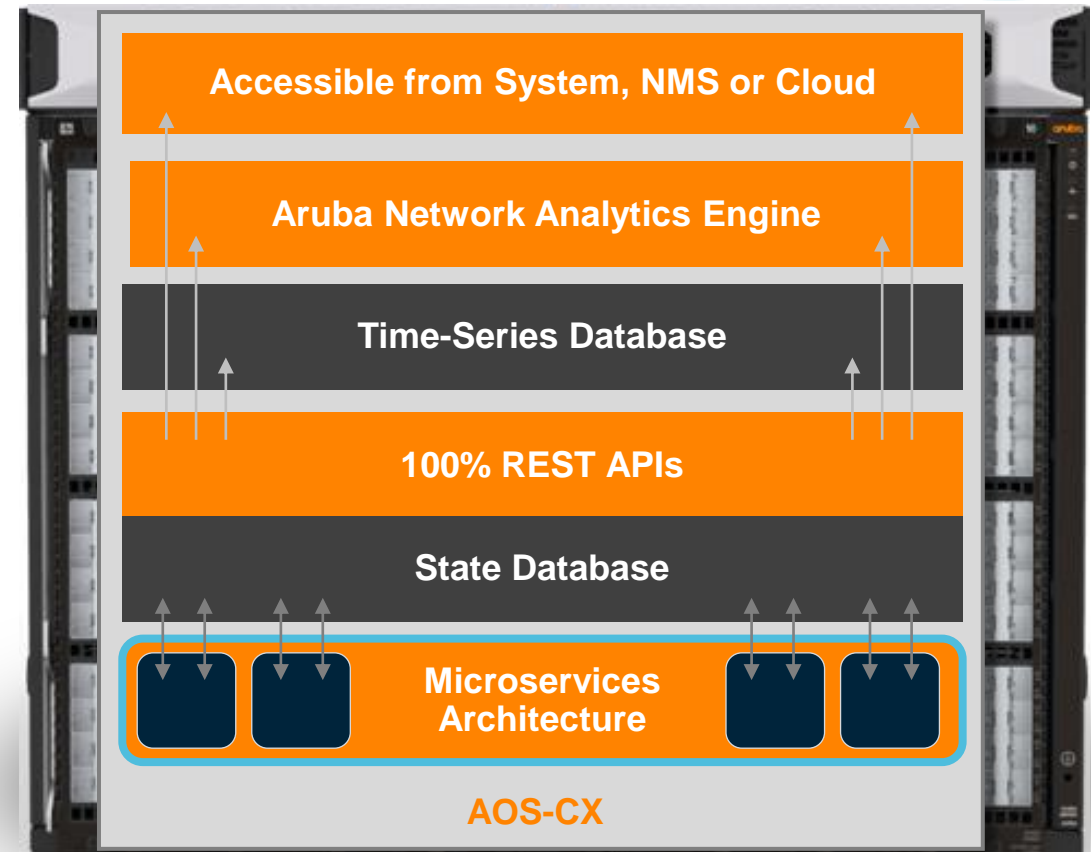
Simplified operations through automation

Resiliency

Stable and reliable microservices design

Elasticity

One operating model from edge access to data center



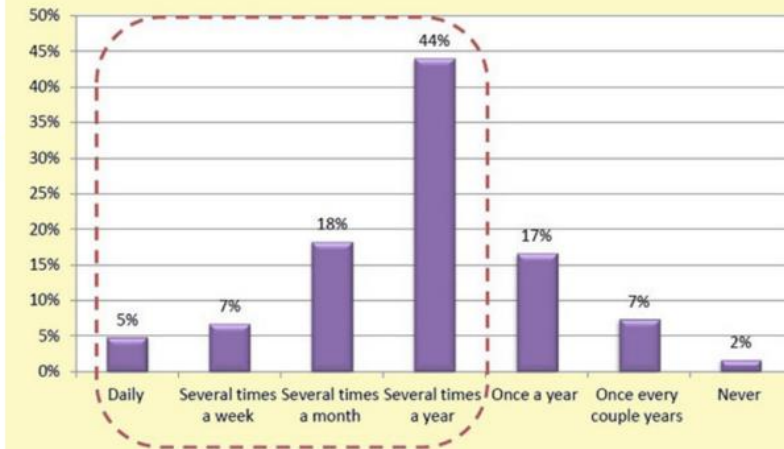
Gartner



Top 10 Causes of Outages

1. Faults, errors or discards in network devices
2. Device configuration changes
3. Operational human errors and mismanagement of devices
4. Link failure caused due to fiber cable cuts
5. Power outages
6. Server hardware failure
7. Security attacks such as denial of service (DoS)
8. Failed software and firmware upgrade or patches
9. Incompatibility between firmware and hardware device
10. Unprecedented natural disasters and ad hoc mishaps on the network such as a minor accidents, or even as unrelated as a rodent chewing through a network line, etc.

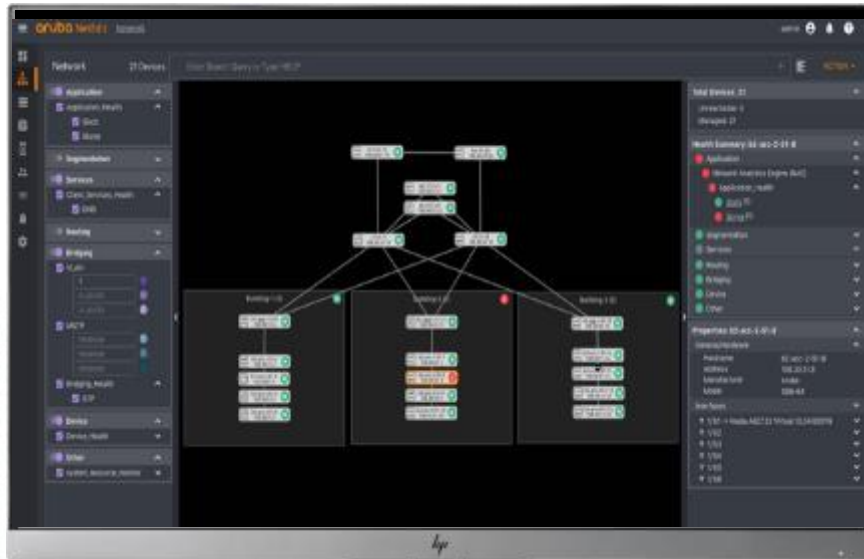
Frequency of network changes that lead to an outage or performance issue



Analytics and Automation Powered Network Operations

Automated config management with Aruba NetEdit

- Search
- Edit
- Validate
- Deploy
- Audit
- Troubleshoot



Aruba CX Mobile App

Management Simplicity

- Topology for fast view into network health, including devices with config issues
- GUI-driven solution configs to implement common configurations easily across multiple systems
- Auto-Change Verification to minimize change windows and reduce errors
- Continuous Validation to monitor for deviations from intended policy or design

Visibility and Analytics via NAE

- Embedded analytics with real-time health status and diagnostics for efficient root cause analysis
- Health reports on devices, apps, and network services
- Script tags indicate what layer is contributing to issues, speeding root cause analysis

Workflow Integration with 3rd Party Tools

- Immediate notifications from Slack, TOPdesk, ServiceNow, etc.

One Touch Deployment with Aruba CX Mobile App

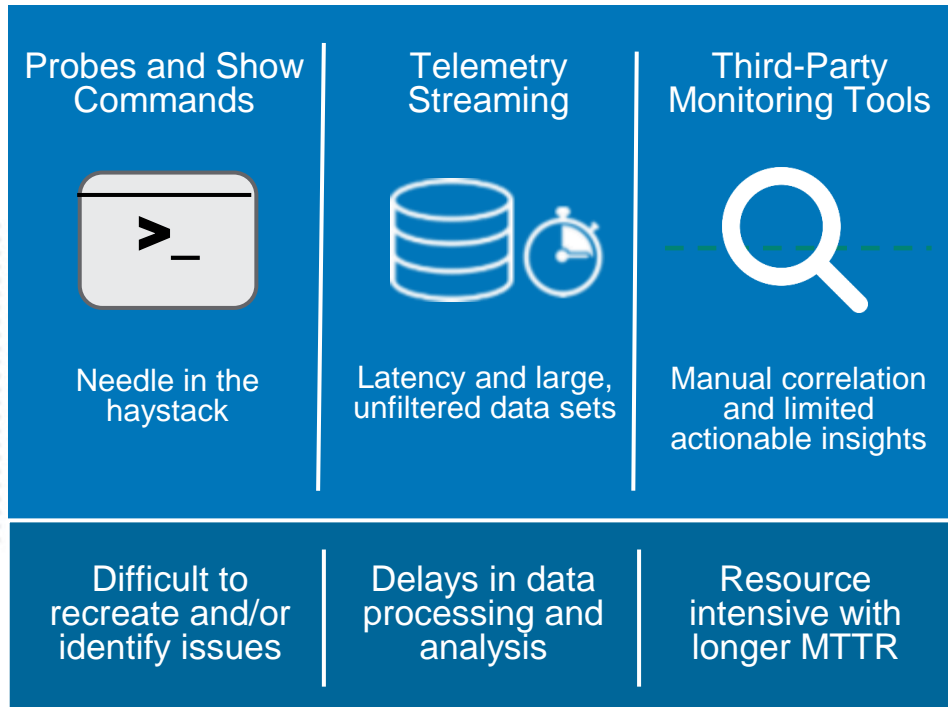
- Accelerate day zero config, view and manage using your mobile device



Turning Network Telemetry into Actionable Insights

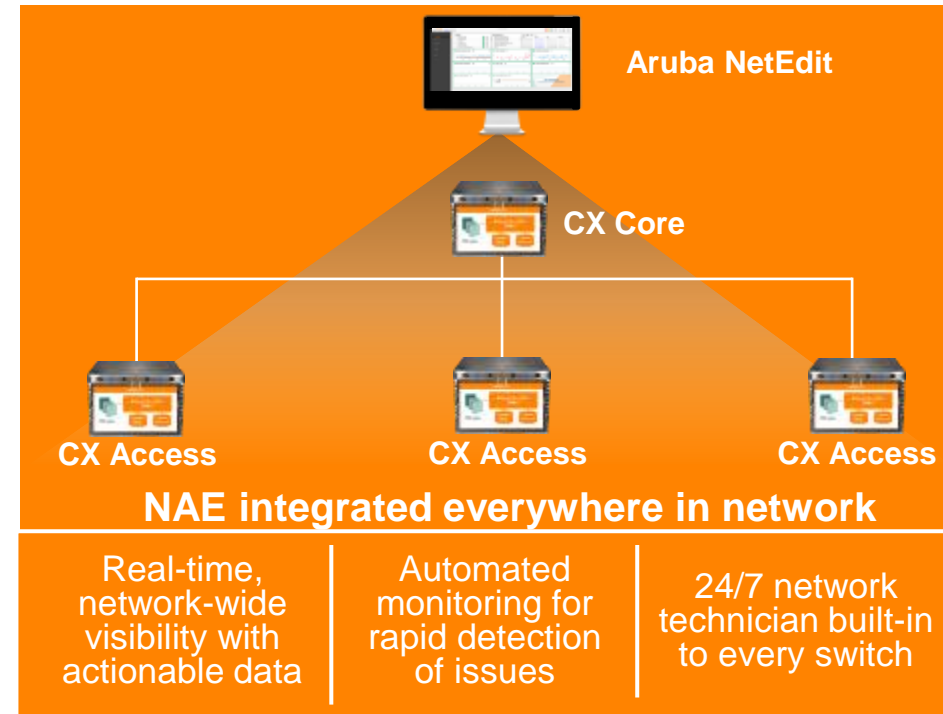
Intelligent pre-processing with Aruba Network Analytics Engine

Legacy Approaches



VS

Aruba CX Approach



Simplifying the Operator Experience

From Day 0 through Day 2 operations

Install a new switch
using mobile app and
connect to management



New switch and its config
are **automatically**
imported

**Resolve issues using
always-on monitoring**
with built-in diagnostics and
dynamic actions within
every node

**Manage, automate,
validate, and verify
configuration** and network
state including compliance

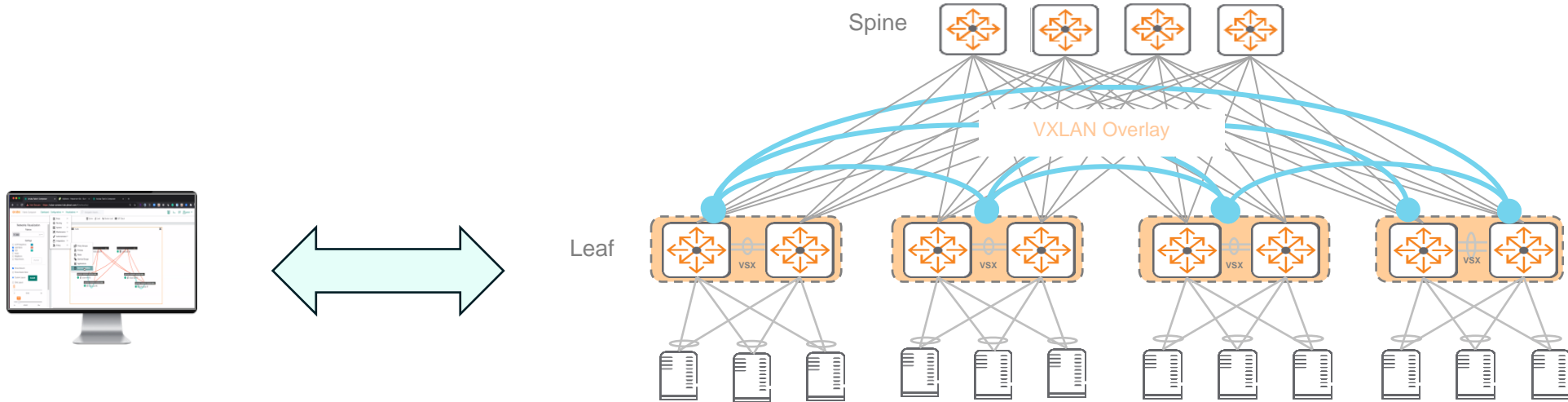


Aruba Fabric Composer

Data-first modernization requires a modern, next generation data center fabric



Data Centers Deployments – Made Easy!



Automate deployments
Maintain, monitor & optimize

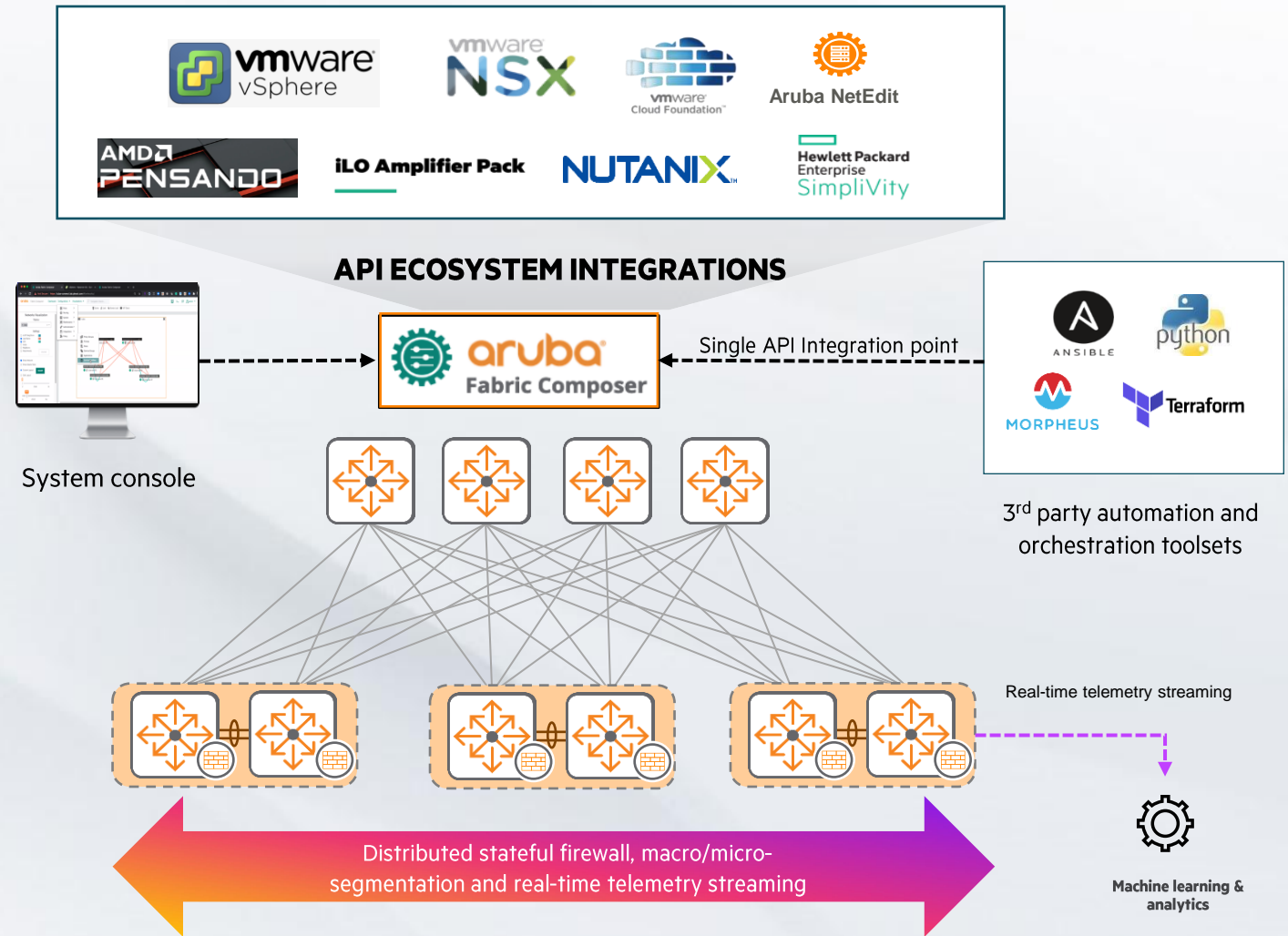
With less than 30 minutes of training, an engineer with basic networking knowledge can implement a complex topology in under 5 minutes.



Network and security policy automation with full visibility

Hyperscale-like efficiencies for enterprise DC/private cloud

- Deployment automation
- Easy-to-install API integration packs
- Automate everyday networking tasks
- Simplified troubleshooting
- Centralized policy management
- Real-time telemetry streaming



Automated VLAN Provisioning

Auto-Discovery & Configuration

- ESX Auto discovery
- Automated discovery of VMs, vSwitches, NICs, Port Groups
- Powerful end-to-end visualization of virtual and physical components
- Fabric optimization
- Visualization simplifies troubleshooting
- vSphere Plugin

VLAN Auto-Configuration

- Automatically respond to VM lifecycle events
- Auto-configure VLANs on Switch ports
- Learns & displays vswitches and PGs
- Supports VM migrations across switches



Create



Start



Move



VM Migrations



Shutdown

GUI and automation drives all

The dashboard displays several key sections:

- SWITCHES:** 6 Switches in Fabric
- FABRIC INVENTORY:** 90 MAC Attachments, 10 LLDP Neighbors, 0 LAGs
- VMWARE INVENTORY:** 12 VMware VMs, 3 ESX Hypervisors, 18 VM/Kernel Adapters
- VMWARE NSX-T INVENTORY:** 12 VMs, 6 Transport Zones, 1 Tier-0 Gateway, 9 N-VDSS
- HPE SIMPLIVITY INVENTORY:** 7 Segments, 3 Host Transport Nodes, 1 Tier-1 Gateway, 0 Clusters
- FABRIC:** Aruba Fabric (6) with a progress indicator
- INTEGRATIONS:** VMware vSphere (1 Configuration, v5.0.0) - CONNECTED, VMware NSX-T (1 Configuration, v5.0.0) - CONNECTED, HPE SimpliVity (0 Configurations, v4.0.0) - NOT CONFIGURED
- AUDITS:** Alarms, Events

Dashboard includes information about fabrics, switches, hosts, VMs, ...

- Ports
- Routing**
 - VRF
 - BGP
 - OSPF
 - EVPN
- System
- Maintenance
- Administration
- Integrations

Workflow Automations and Guided Setup

Guided Setup

Perform the following steps to initialize and configure your system.

- FABRIC**: Add a Fabric to the system.
- SWITCHES**: Discover new Switches.
- ASSIGN SWITCH TO FABRIC**: Assign Switches to a Fabric.
- NTP CONFIGURATION**: Configure Switch NTP.
- DNS CONFIGURATION**: Configure Switch DNS.
- VSX CONFIGURATION**: Configure VSX Switch Pairing.
- LEAF SPINE CONFIGURATION**: Configure Leaf Spine Connections.
- OVERLAY CONFIGURATION**: Configure Overlay/Underlay.
- EVPN CONFIGURATION**

Network and Switch Visualizations

The Networks Visualization interface shows a network topology with nodes like Core-1, Core-2, R-1, R-2, CT-1, and CT-2. It includes filters and settings for the visualization.

This view shows the integration of various components into the fabric:

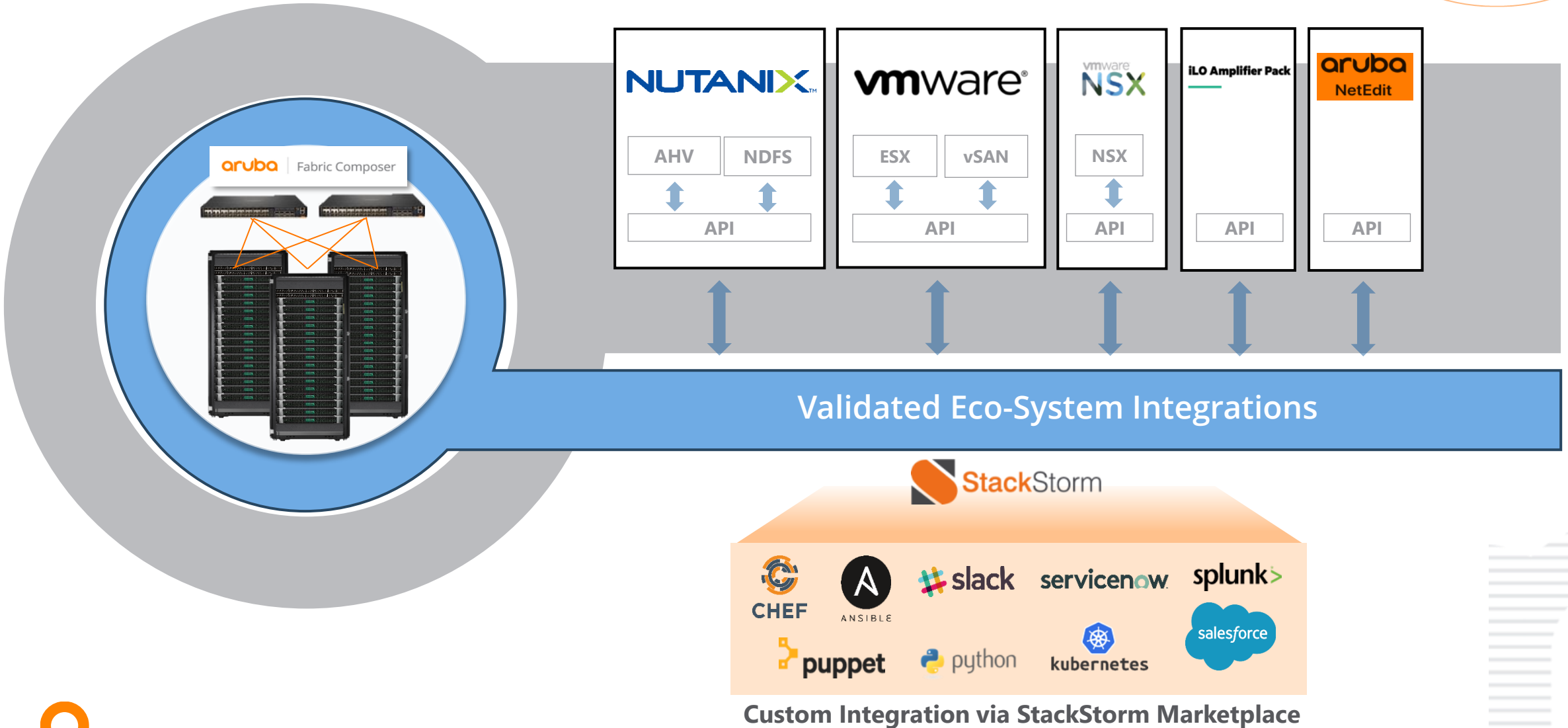
- Aruba NetEdit
- HPE iLO Amplifier
- Nutanix Prism
- VMware NSX-T
- VMware vSphere

The network diagram shows connections between physical switches (pbx-mpo-sw3, pbx-mpo-sw4) and virtualized hosts (ahv-node-c, ahv-node-d) connected to a central vm-network. A detailed view of a port (Port ID 33) shows its configuration: Mode Access, Link State Link Up, Speed 1Gbps, Port Type SFP, VLANs 100, 180, Native VLAN 1, and Port Security Disabled.

Integrations and End to End Host Visibility



THE POWER OF integration delivers automation and visibility



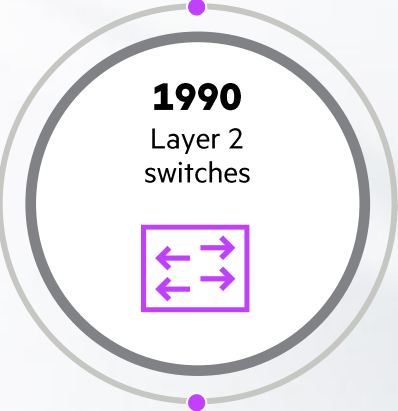
HPE Aruba

4th Generation Data Center Network Architecture



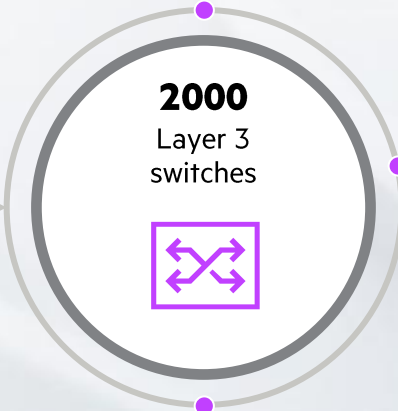
Data Center Network Architecture Evolution

1st generation



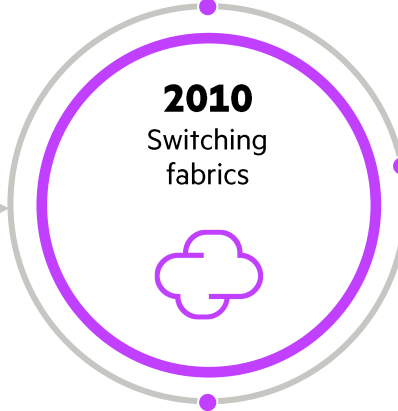
Flat networks, spanning tree, protocol agnostics

2nd generation



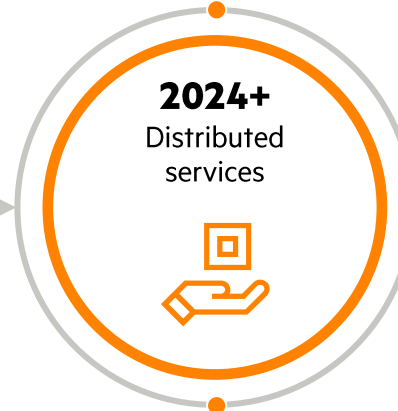
IP becomes the dominant protocol, L3 switching
Core-distro-access designs
Mostly north/south traffic

3rd generation



Clos topology, spine-leaf underlay and overlay, VXLAN/VTEPs
Built for east/west traffic
Centralized L4 Architecture

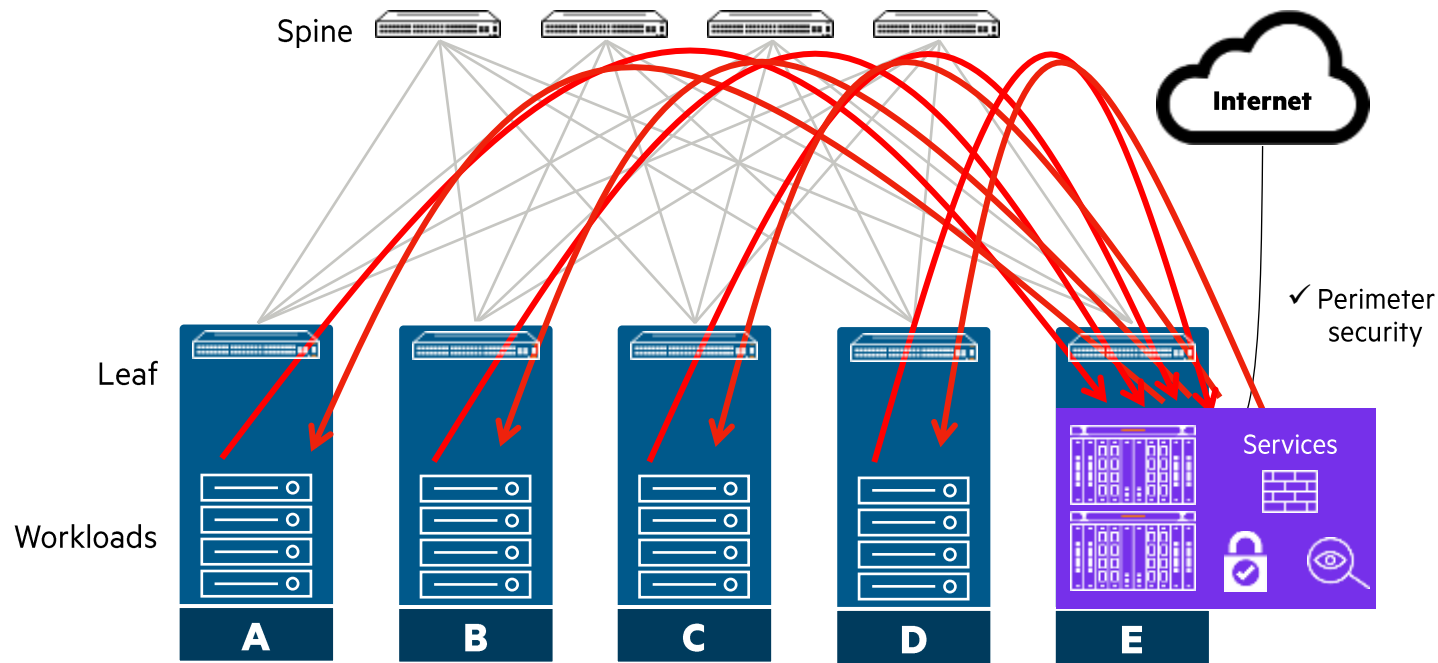
4th generation



Spine-leaf underlay/overlay
Rich collection of wire rate stateful services
No scalability limitations
Security services collocated - delivered inline/per port



Third gen: centralized services architecture



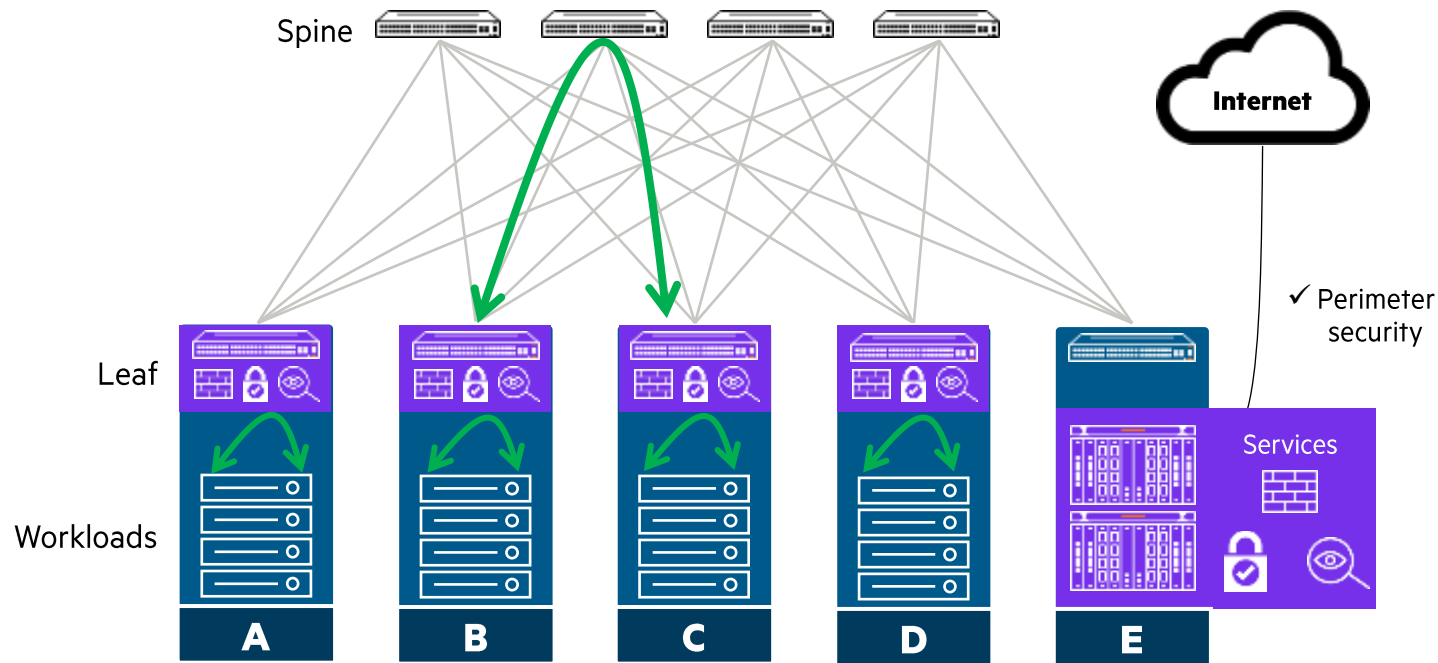
Centralized services architecture

Design challenges

- Traffic having to hairpin to L4-7 services leaf/rack
- Unable to scale to match volume/velocity e-w traffic
- High and cost complexity (appliance sprawl, licensing)



Fourth gen: distributed services architecture



Distributed services architecture

Design advantages

- Better security posture—firewall on every leaf port
- Lower TCO, cap/retire legacy appliances/software agents
- Real-time telemetry
- Automated network and security policy and provisioning
- Improved app latency/performance



Distributed services switch, a new switching category

HPE Aruba Networking CX 10000

AMD
PENSANDO



L4-7 stateful software services



Firewall



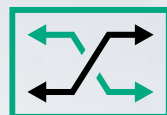
DDoS



Telemetry



Encrypt



NAT



SLB*

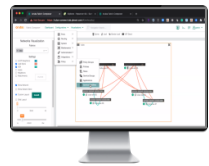
Full network functionality,
plus 800G firewall performance

A stateful firewall behind every switch port with
built-in telemetry streaming

*Eliminates/reduces need for appliances
and host software, delivering 100x scale,
10x performance at 1/3 TCO*

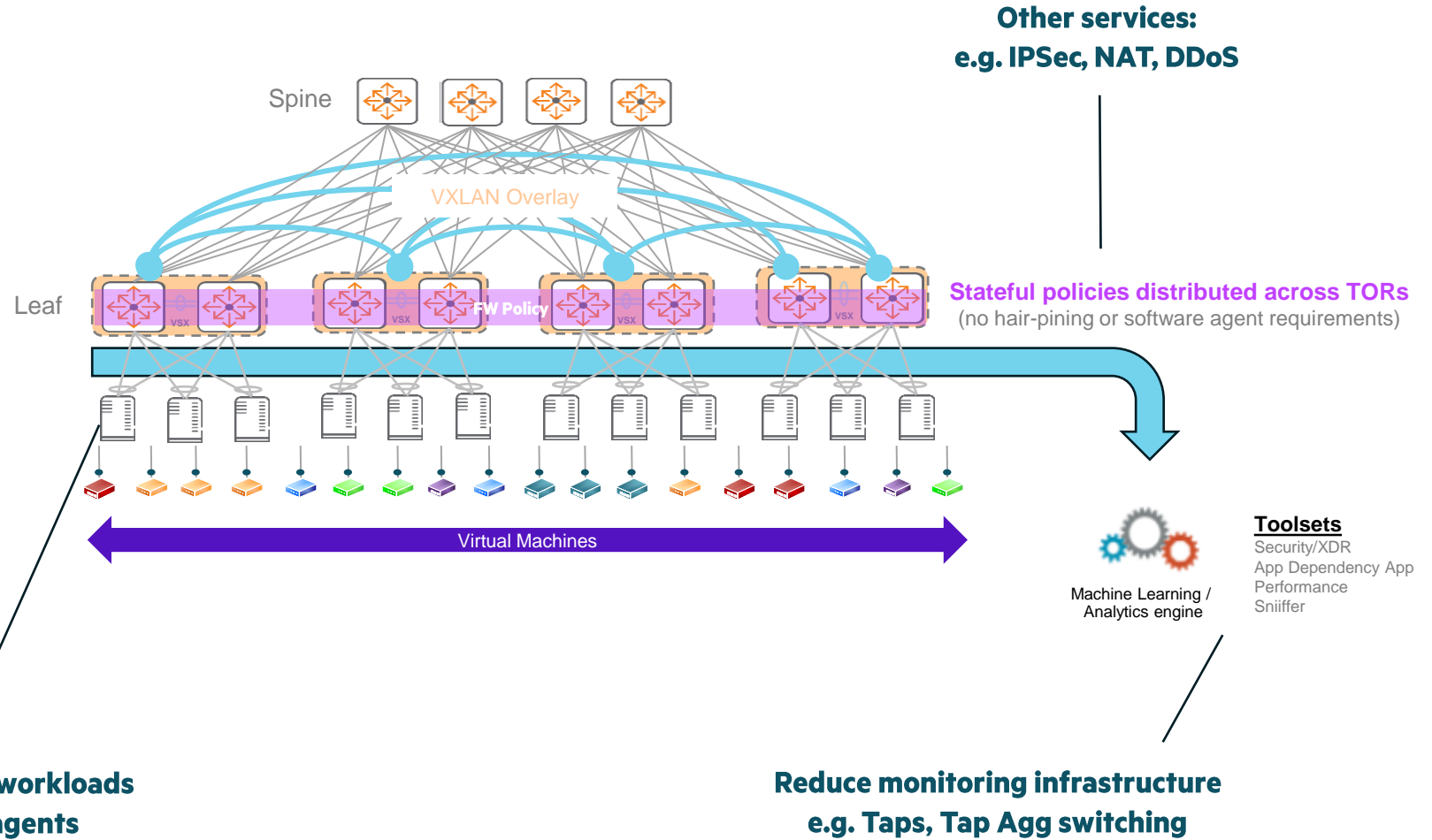
Enhance Your Data Center Ecosystem

Streamline operations



Automate deployments
Maintain, monitor & optimize

Optimize server workloads
e.g. Reduce agents



Reduce monitoring infrastructure
e.g. Taps, Tap Agg switching

The TCO Advantage of Fourth Generation Data Center Fabrics

3-Year TCO analysis - implementing Micro Segmentation (E-W Firewall) across 500 servers, 24 racks, 400 Gbps/rack with 75% E-W traffic

Traditional/Legacy

Third Generation

\$2.69M

\$321/Gbps

Traditional design configured with Standard L2/3 Top-of-Rack switches and Next-Gen Firewall appliances

Vs.

Next Generation

Fourth Generation

\$1.05M

\$125/Gbps

HPE Aruba Distributed Services Architecture using CX 10000 with embedded stateful services

Key advantages

61% lower total cost
Superior 4th Gen design -
Higher scale/performance
Future service insertion

VMware Sales Play

Compelling Event: Significant Increase VMware License Cost, CX 10K Opportunity

Market discontinuity creates opportunity

- Broadcom acquisition & 2024 licensing changes causing significant customer disruption – *VMware used in ~80% of all data centers*
- New **vSphere Foundation** license doesn't include NSX micro-seg or distributed firewall (DFW) capabilities anymore
- Customers must now purchase **VMware Cloud Foundation** license to get NSX security features, ~200-300% + license renewal cost
- Customers opting to deploy lower cost vSphere option are seeking a micro-seg/firewall alternative

HPE Aruba Networking alternative

- CX 10000 provides a superior micro-seg/firewall alternative;
 - Higher performing (800G stateful firewall) with ZERO CPU server impact
 - Hypervisor agnostic and seamless deployment
 - Additional high performance security services; 400G IPsec, TAP and telemetry



VMware Cloud Foundation™



VMware vSphere®



HPE Aruba Networking
CX 10000 with AMD Pensando

Value proposition:

*50% less TCO, 8-month ROI,
returning ~\$1.6M to the yearly IT budget
5-year TCO analysis with 500 servers*



Targeting/qualifying DC opportunities and personas



IDEAL ACCOUNT TYPES

- Established Aruba CX campus customers, NetOps friendly who also manage the DC network (value the benefits of Aruba ESP unified infrastructure).
- HPE compute/storage customers who are refreshing their servers or consolidating their data centers.
- Customers who may be unsatisfied with Cisco ACI and/or the VMware NSX deployment, due to complexity, poor performance, or cost.



Network/Security
Admin/Architect



IDENTIFYING OPPORTUNITY

- Are you experiencing issues with data center network performance, reliability, or business continuity? Do you have insight into your data flows in the data center?
- What is your Hybrid cloud / migration strategy?
- Are you migrating from 10-25-100GbE?
- Are you moving to a Zero Trust Security framework? Microsegmentation?



Director of Network/
Security Operations



LISTEN FOR:

- App modernization, hyperconverged, private cloud, storage networking
- New servers/apps ... driving a need for higher performing 25/100 GbE
- Poor application performance, outages
- Long network provisioning lead times, poor visibility, security issues/concerns
- Network segmented and/or multi-tenant DC environments



Virtualization or Server
Architect/Engineer

Data Center Marketing Campaign Q1 2024, Q3 2024

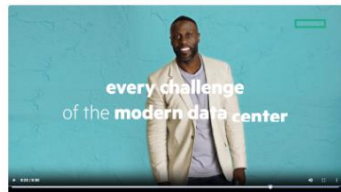
Primary assets: Four new DCN video ads



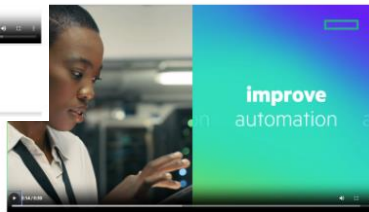
Video 1: Data center modernization



Video 2: Intelligent data center switching



Video 3: Reduce data center complexity



Video 4: Improve automation

Secondary content

Vertical brochures

- [A new era of intelligent data center networks for healthcare](#)
- [A simplified data center architecture for retailers](#)
- [Harnessing data center networks for manufacturing intelligence](#)
- [Financial services \(coming soon\)](#)

Blogs

- [Data is at the heart of your business success \(Network World\)](#)
- [Five design principles to get your data center out of first gear by William Choe](#)
- [Bringing the data processing unit \(DPU\) revolution to your data center by Mark Berly](#)
- [From outdated to outstanding—revolutionizing manufacturing data centers by Vinnie Strey](#)
- [Get rich data center telemetry with DPU-powered switches by Scott Stevens \(AMD\)](#)
- [Modernized data centers for retail—secure, efficient, and automated by Ryan McCarthy](#)

Customer stories: [Altorfer Cat](#), [Canterbury Christ Church University](#), [PQR](#)

Glossary pages: [What is a data center?](#) [What is data center security?](#) [What is an enterprise data center?](#)

Airheads Premium Tech Corner: [Switching and Data Center Networking](#)

New primary assets

Five design principles for a smarter data center



IDC: Achieve performance and security through a modern data center fabric



ESG: The benefits of fourth-generation, secure data center fabrics



HPE Aruba Networking DCN Awareness and Demand Generation

New content	Digital marketing	Account based marketing	Demand Generation
<ul style="list-style-type: none">4 new DCN videos2 new analyst papers1 new solution brochure4 new vertical brochures1 updated and 2 new glossary pages10 new DCN blogs2 new DCN customer stories30+ organic social posts	<ul style="list-style-type: none">75 million digital impressions785K responses1.05% CTR275K web visits61% bounce rate103 seconds average time on page1 in 3 visitors engaged with the campaign content	<ul style="list-style-type: none">7.5 million digital impressions22,548 ad clicks.55% LinkedIn CTR166,207 board visits878 Target Accounts Reached (90% more accounts targeted <u>QoQ</u>)52% Target Accounts Engaged26 reports in-market	<ul style="list-style-type: none">3,600 inquiries1,431 AQLs1 ABX outbound DCN specific meeting has been scheduledField & channel event in a box kitPartner Demand generation digital campaign and meeting maker kitCX Trade up program



Questions



Resources

For YOU



SalesEdge

- [Aruba Data Center Networking WinBook](#)

Aruba Data Center Networking (DCN) WinBook

Aruba's data center solutions help simplify IT operations, accelerate service delivery, and streamline IT deployment. These outcomes are achieved with:

- New orchestration software for Aruba CX switches that bring a cloud-like-operations to the data center edge
- New Aruba CX switch models designed for flexible, right-sized, cloud-managed switch options
- New pre-engineered HPE and partner solutions that integrate compute, storage, and networking infrastructure

Below you will find the key, strategic assets you need to understand and sell Aruba Data Center Networking.

Conversation Prep | Share with Customers | Sales Training | Demos | Support Services

Share with CUSTOMERS



arubanetworks.com

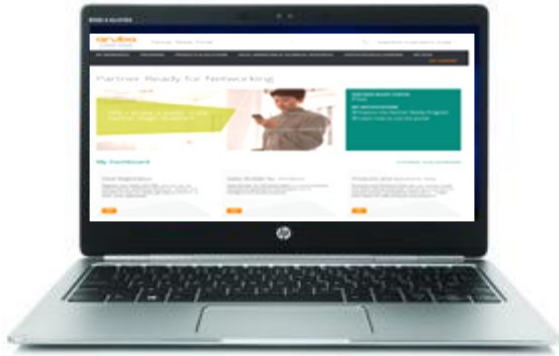
- [Modern data center networking](#)



YouTube

- [4th Generation Data Center Fabric \(4 mins\)](#)
- [4th Generation Data Center Fabric \(10 mins\)](#)

RESOURCES



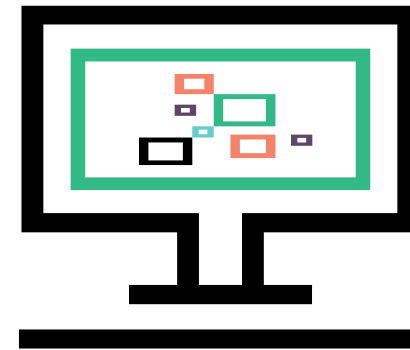
Partner Ready for Networking portal
[\(Click here\)](#)



Channel Account Managers (CAMs)
Regional channel support



My Learning / The Learning Center
[\(Click here\)](#)



Arubapedia for Partners
[\(Click here\)](#)



Partner Sales Webinar Series

Win More Deals with HPE Aruba Networking's Next-Gen Data Center Switching Portfolio

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Thank you

