Aruba Campus Switching

For the Cloud and IoT era



Mohamed Heiba Solutions Architect –HPE Aruba a Hewlett Packard

a Hewlett Packard Enterprise company

TECHNOLOGY DISRUPTIONS STILL ON THE RISE

MOBILE



70%

Of all enterprise employees are mobile workers

CLOUD



\$127BCloud Spending

IOT



7.6BEnterprise IoT
Devices

Gartner Forecast Overview: Enterprise Communications Services, Worldwide, 2017

IDC Forecast: Public IT Cloud Services

Gartner Forecast Overview: Devices, Worldwide, 2017 Update





EXTENDING THE MOBILE FIRST ARCHITECTURE TO CAMPUS AGGREGATION AND CORE



Aruba 8400

Carrier class high availability, 19.2 Tbps system with high speed, high density interfaces

"He's the **ultimate disrupter.** Keerti Melkote's technology vision has completely reshaped the networking landscape." **-CRN**

"Aruba...has **dethroned** Cisco for the first time ever in Gartner's 2017 Critical Capabilities for Wired and Wireless LAN Access Infrastructure report"

-CRN



ArubaOS-CX

Fully programmable OS for analytics and automation



Network Analytics Engine

Flexible troubleshooting and automated root cause analytics simplify and enhance visibility and control







EXTENDING THE MOBILE FIRST ARCHITECTURE TO CAMPUS AGGREGATION AND CORE

Aruba 8400

Optimized form factor and cost, carrier class availability, 10/25/40/100 GbE



Aruba 8320

Three (3) high performance compact 1U form factor and high availability products, providing 10/40 GbE

ArubaOS-CX

Programmable next-gen OS for switching, with massive Open Source leverage, and analytics to automate troubleshooting



Network Analytics Engine

Tightly integrated to policy management, analytics and management services





ARUBA 8400 SWITCH SERIES - HARDWARE

aruba

High performance 19.2Tbps switching w/ up to 1.2Tbps per slot

High speed connection

32-port 10GbE w/ MACsec 8-port 40GbE module 6-port 40/100G module

Convenient bundles simplify ordering

Dual redundant management modules for hitless failover

OOBM, console management ports
Status LEDs for fans, power
supplies and modules

Redundant Power supplies

N+N for hot swappable, redundant power supplies

Energy efficient 80

Plus Gold certification

Compact 8 slot chassis (8U)



Aruba 8400 Hardware Architecture: Built for Scalability & HA

N+N AC Power Supply 4x2.5KW PS

8 Payload Slots. Upto 1.2 Tbps

AC Inlets

3 Fabric Modules w/ N+1 Redundancy



8 Rack Units. 17.4" W x 13.8" H x 26.0" D

Redundant Management Modules with X86 CPU for scalability

3 Rows of 6 Fans w/ N+1 Redundancy

- Fully extensible design allows for seamless upgrades to future bandwidth scale
- IO Modules: 32Px10G, 8Px40G, 6Px100G
- 3 SFM with switching capacity of 19.2T
- 0 to 40 degrees C
- Front to Back Airflow
- Mountable on 19 inch, 2 post rack



ARUBA 8320 SWITCH SERIES - HARDWARE

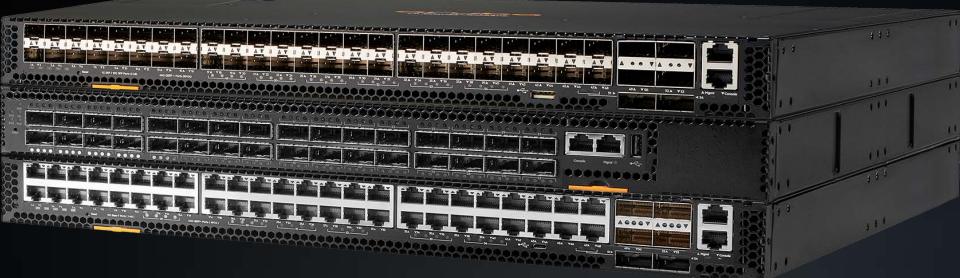
Convenient bundles to simplify ordering

includes 2 power supplies and 5 fans

High performance 2.3Tbps switching

Redundant Fans & Power supplies

N+1 for hot swappable, redundant power supplies



Compact 1U form factor

3 models with high speed connectivity

48p 10G SFP/SFP+ and 6p 40G QSFP+ Switch (JL479A)

32p 40G QSFP+ (JL579A)

48p 1G/10GBASE-T and 6p 40G QSFP+ (JL581A)

Management

OOBM and serial console management ports
USB port for file management
Status LEDs for fans, power supplies



Aruba-OS-CX Philosophy

Database driven

- All state expressed in an in memory DB.
- No inter process communication

Leverage Linux

Take advantage of the richness of open source community.

Fully programmable

Every thing must be configurable through programmatic API

Resilient

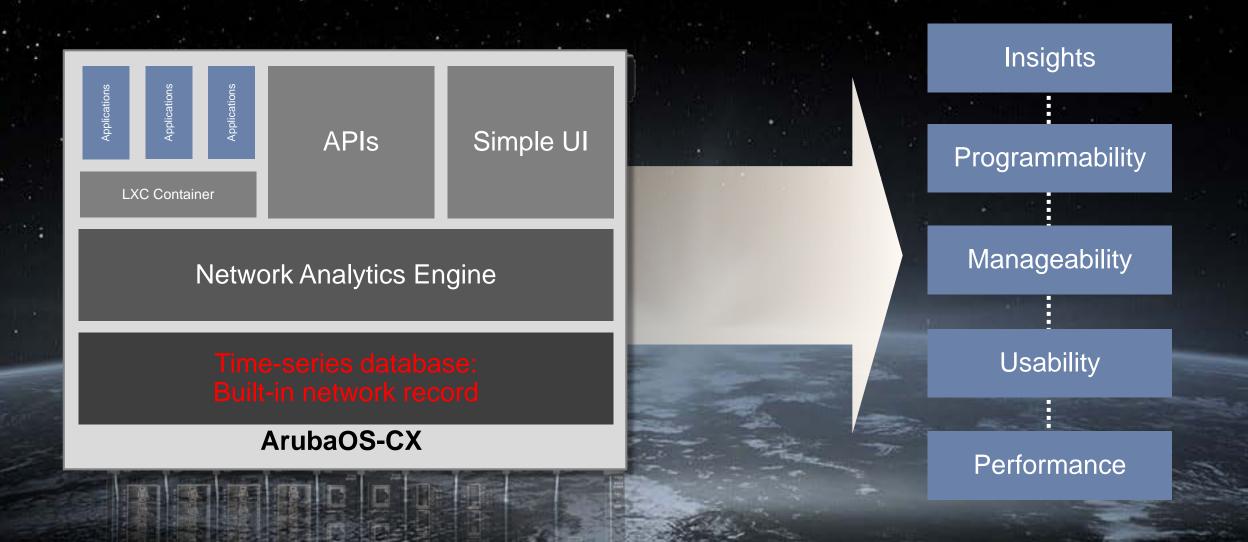
 Daemons must be able to restart with the same state as when they went down.

Supportable

Rich logging and debugging built in from the start

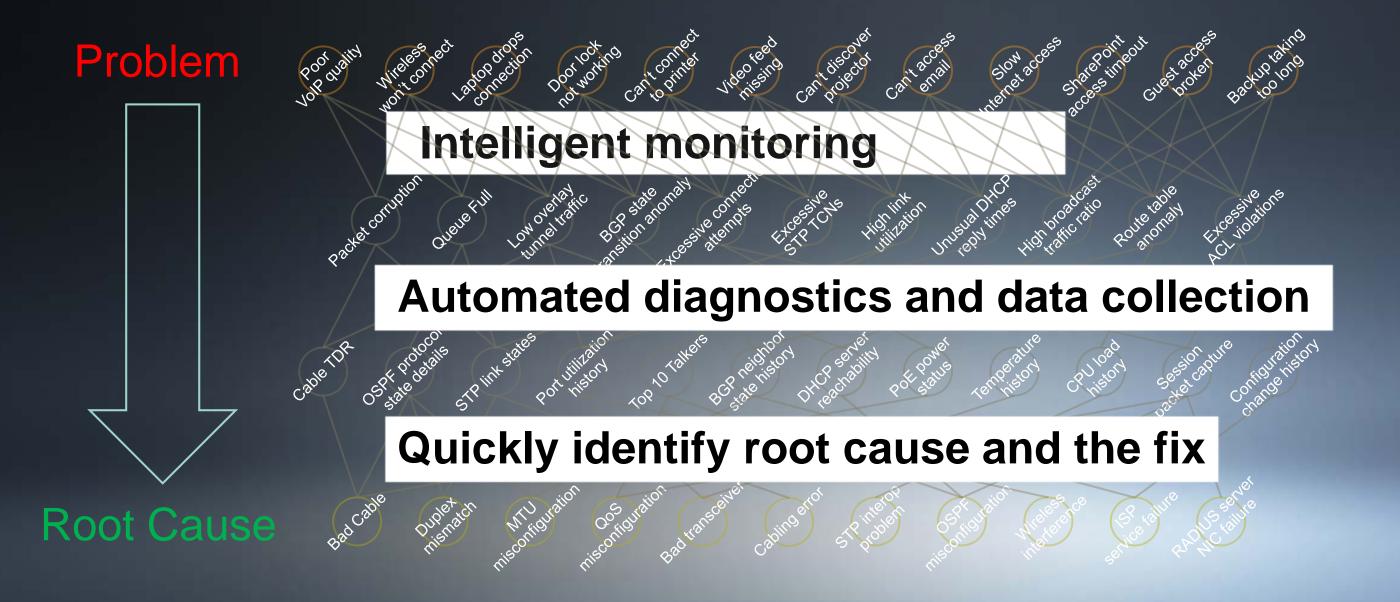


ARUBAOS-CX MEETS THE CHALLENGE WITH INNOVATION



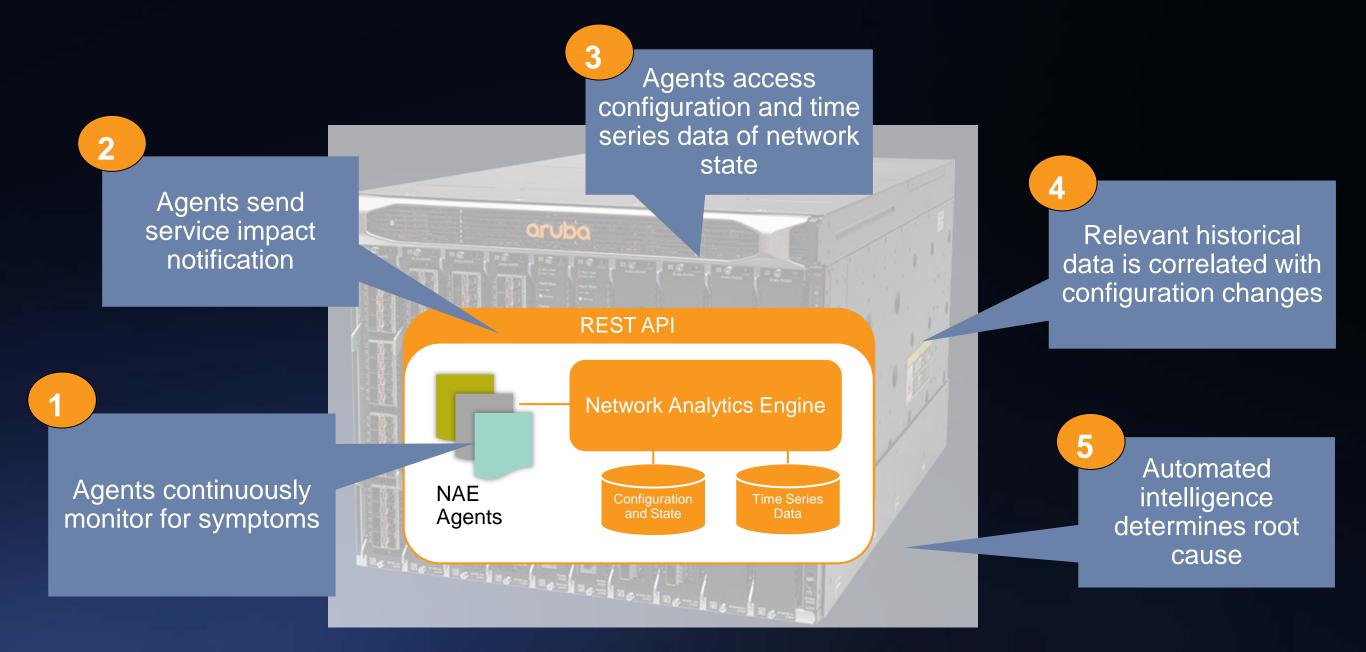


Root Cause Analytics





ARUBA NETWORK ANALYTICS ENGINE



'It's like having a 24/7 network technician as part of the network'



ARUBA CAMPUS SWITCHING COMPLETE PORTFOLIO TO MEET CUSTOMER NEEDS

