Aruba Campus Switching

Aruba 5400R Switch Series
Customer Presentation

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Agenda

Digital Disruption… Creating New Pressures on IT

MOBILE AND CLOUD
More business and mobile apps are business critical, prioritization and segmentation required

IOT
Growth in connections, different protocols, new traffic patterns, more exposure

DATA
Too many data sources, integration challenges, difficult to gain insights

IT Challenges – Old infrastructure is Not Ready

PROPRIETARY	INFLEXIBLE	MONOLITHIC	HARD-CODED	MANUAL

Mandatory 24x7

Many tools, devices and policies

More capacity demands at the edge

The Changing Role of Network Switches

Traditional Wired Connectivity
+ Wireless Aggregation
+ Wired IoT

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Figure 1. Magic Quadrant for the Wired and Wireless LAN Access Infrastructure

Gartner has named HPE (Aruba) a Leader for Wired and WLAN Access Infrastructure based on its ability to execute and completeness of vision.
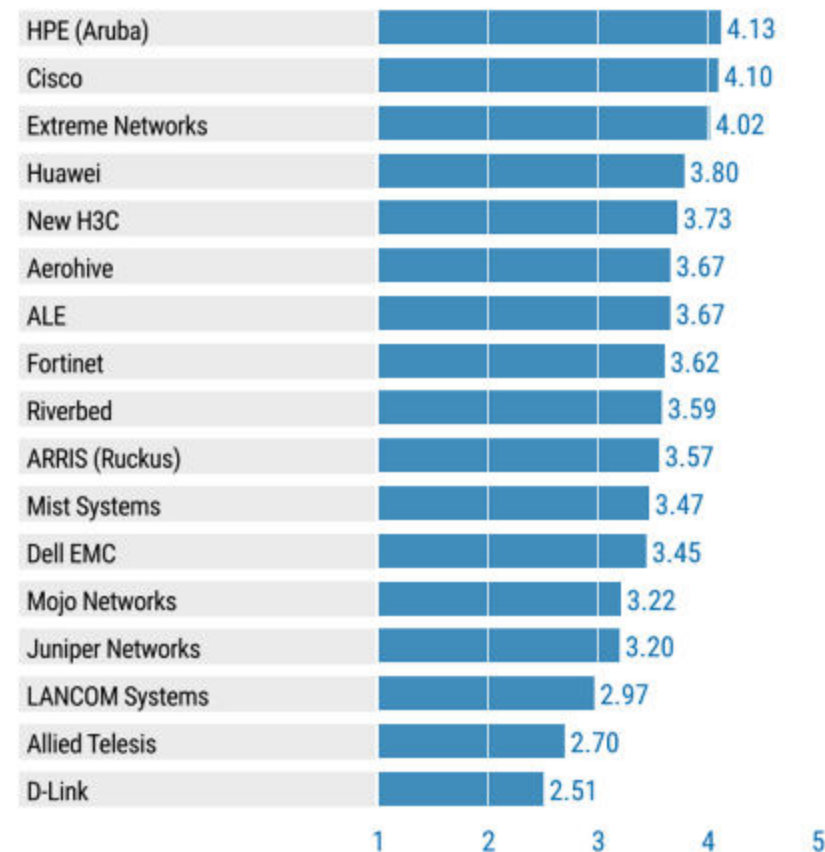
HPE (Aruba) Receives the Highest Score in 5 out of 6 Gartner Critical Capabilities Use Cases

Figure 1. Vendors' Product Scores for Unified Wired and WLAN Access Use Case

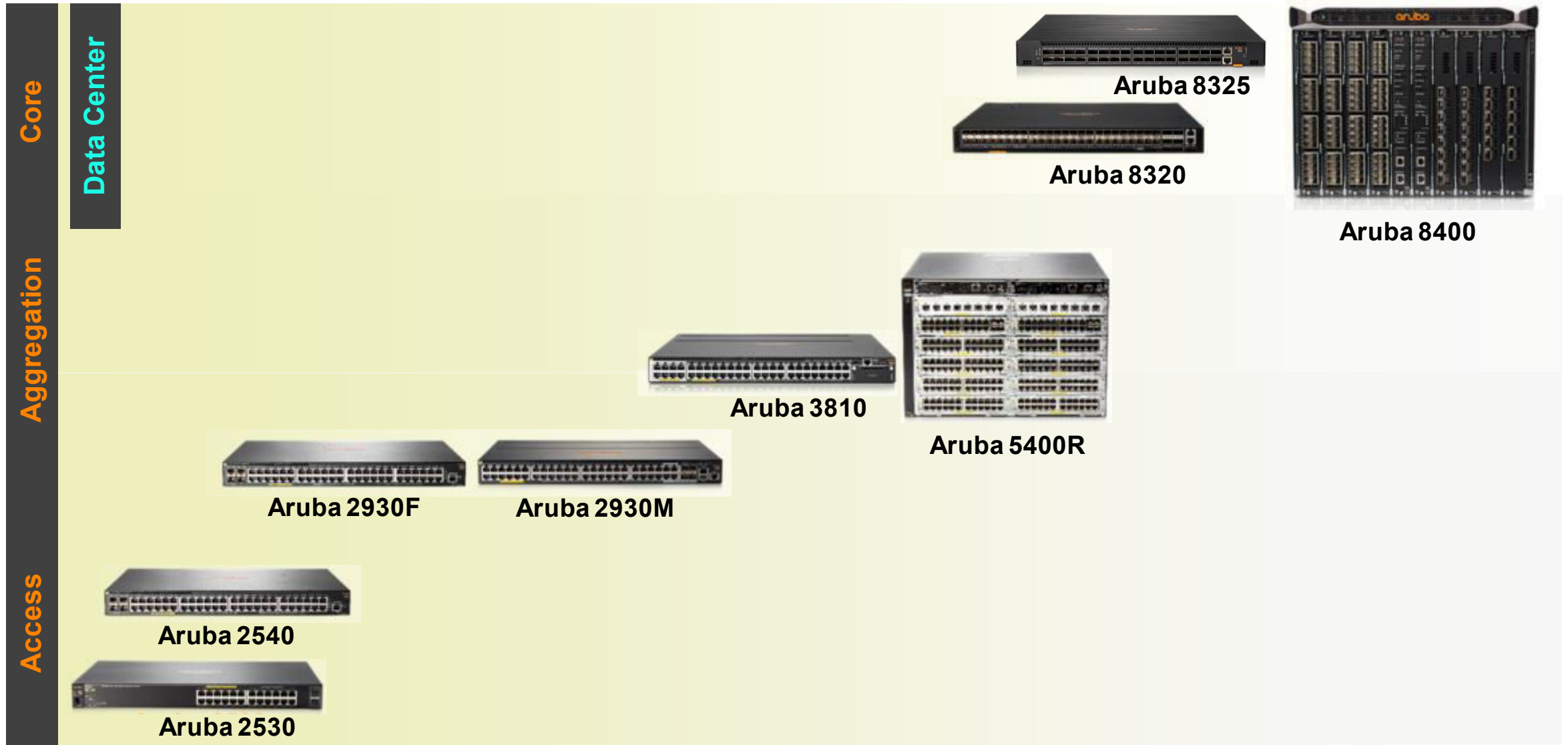Product or Service Scores for Unified Wired and WLAN Access

Vendor	Score
HPE (Aruba)	4.13
Cisco	4.10
Extreme Networks	4.02
Huawei	3.80
New H3C	3.73
Aerohive	3.67
ALE	3.67
Fortinet	3.62
Riverbed	3.59
ARRIS (Ruckus)	3.57
Mist Systems	3.47
Dell EMC	3.45
Mojo Networks	3.22
Juniper Networks	3.20
LANCOM Systems	2.97
Allied Telesis	2.70
D-Link	2.51

As of August 2018

© Gartner, Inc

HPE = Hewlett Packard Enterprise
Source: Gartner (August 2018)

Aruba Switching Portfolio

Aruba 8325

Aruba 8320

Aruba 8400

Aruba 3810

Aruba 5400R

Aruba 2930F

Aruba 2930M

Aruba 2540

Aruba 2530

Core

Data Center

Aggregation

Access

Aruba 5400R Switch Series

Aruba 5400R

- **High performance advanced modular Layer 3 switches** ideal for wireless aggregation with low latency and fast 10/40GbE uplinks

- **Scalable** and resilient stacking

- **Redundant and resilient** with hot swappable power, redundant mgmt.

- **AirWave and ClearPass** Policy Manager integration

- **Cloud manageable** with Aruba Central

- Ready for the software defined network with **REST APIs**

- **Smart Rate** for future proof high speed multi-gigabit capacity

Cloud manageable with Aruba Central	Full 30W PoE on all ports for IoT, APs and cameras	Fast 10GbE and 40GbE uplinks for more capacity

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Aruba 5400R Switch Series

Full featured compact Layer 3 modular switch has 2 Tbps backplane and low 2.1 us latency with versatile modules for virtualization and optimized deployment	Powerful advanced layer 3 features for the most demanding networks in the enterprise.
HPE Smart Rate multi-gigabit Ethernet ports and 40GbE ports deliver high capacity connectivity	Ready for the high speed mobile environment. Better together: Aruba 5400R and Aruba Access points and software.
Redundant management, redundant power supplies, Fast Software Upgrade and VSF stacking	Resiliency, performance and scalability to maximize uptime and provide a better user experience.
Supported by advanced security and management tools like Aruba ClearPass Policy Manager and Aruba AirWave	Simplify with unified and consistent policy and management for wired/wireless users for Aruba switches, APs and software.
ZTP with Activate and cloud-based Aruba Central	Faster, easier deployment at remote sites with few or no IT resources
Energy Efficient Ethernet, demand based dynamic ASIC power consumption, 80Plus certified power supplies	Green features save power and reduce OPEX.
HPE Limited Lifetime Warranty	Industry leading warranty that you can rely on.

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Aruba 5400R Switch Series

High performance 2T backplane and low 2.1us latency built on ProVision ASIC

Versatile connectivity
- 10GBASE-T, Smart Rate, SFP, SFP+, 40GbE QSFP+, 1GbE, combo modules

Dynamic Segmentation

Convenient bundles ordering options

Dual redundant management modules for hitless failover
- OOBM, console management ports
- Status LEDs for fans, power supplies and modules

Redundant Power supplies
- 2 or 4 slots for hot swappable, redundant power supplies
- Energy efficient 80Goldplus supplies
- Up to 9250W of internal PoE+

6 and 12 slot compact chassis models

Secure with ClearPass Policy Manager support	Redundant management for hitless failover	VSF stacking and Fast Software Upgrade	Advanced Layer 3 with industry standard MACsec	IEEE 802.3bz HPE Smart Rate (1, 2.5, 5, 10GBASE-T) support	High speed, line rate 10GbE and 40GbE uplinks
On prem management with AirWave support	Dual redundant hot swappable power supplies	Up to 288 ports of PoE+	SDN support with REST APIs and OpenFlow	License free ArubaOS-Switch software	Leading support with HPE Limited Lifetime Warranty

Future Proof With More Speed and PoE

IoT

1, 2.5, 5, 10 GbE (varies by device)

High Performance APs

Power Users

10GbE

40GbE

Faster	Simple	Future proof

Be prepared for tomorrow with HPE **Smart Rate Multi-gigabit** Ethernet (IEEE 802.3bz)

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HPE Smart Rate Switch Ports Features & Benefits

HPE Smart Rate Feature	Customer Benefit
Multi-rate 1 Gbps, 2.5 Gbps, 5 Gbps and 10 Gbps** IEEE 802.3bz* with auto negotiation and on a single port with support for operation over twisted-pair cabling.	Provides customers the ability to absorb additional bandwidth required by the increasing demand in the mobile campus now an in the future.
Higher-speed Ethernet on existing cabling infrastructure	Provides the customer with the ability to utilize existing cabling infrastructure while providing added bandwidth to emerging data intensive access applications. Uplink at 5G over cat 5e or better.
IEEE 802.3at capable 1 Gbps and 10 Gbps modes interoperate with existing 1 Gbps and 10 Gbps ports.	Investment protection in existing switch to switch infrastructure while providing the flexibility to move to 2.5 Gbps or 5 Gbps when needed.
MACsec enabled on all HPE Smart Rate switch ports.	Provides the customer industry standard secure link-level encryption between two points of their twisted pair links.
IEEE 802.3at capable 30W Power over Ethernet on all link speeds	Allows the customer to continue to power existing and future access points and accessories regardless of their bandwidth and link speed requirement.
IEEE 802.3bt capable 60W Power over Ethernet on all link speeds (select 2930M models)	Backwards compatibility with existing PoE/PoE+ devices allows customers to continue to power existing APs and accessories. Provides future proofing of PoE and data bandwidth needs for the next generation APs and powered accessories.

*Requires ArubaOS-Switch 16.04 software release
** Not all Smart Rate ports support 10Gbps. See product datasheets for detail.

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Resiliency and scalability with Aruba Virtual Switching Framework

5400R with VSF

5400R with VSF

2930F with VSF
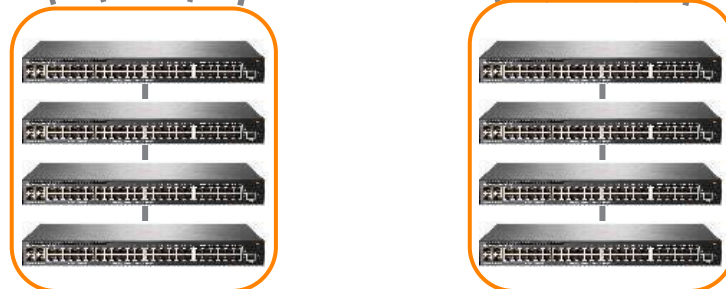
VSF stacking

- ✓ **Simplify network operations**

- ✓ **Scalable performance**

- ✓ **Increases resiliency**

Available on Aruba 5400R and 2930F
- Aruba 5400R
  – Up to 2 members
  – Chain topology
- Aruba 2930F (requires AOS-Switch 16.06)
  – Up to 8 members*
  – Chain and Ring topologies

*requires ArubaOS-Switch 16.06 software release

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Aruba Dynamic Segmentation

Automated Policy **Segmented Policy** **Centralized Policy**
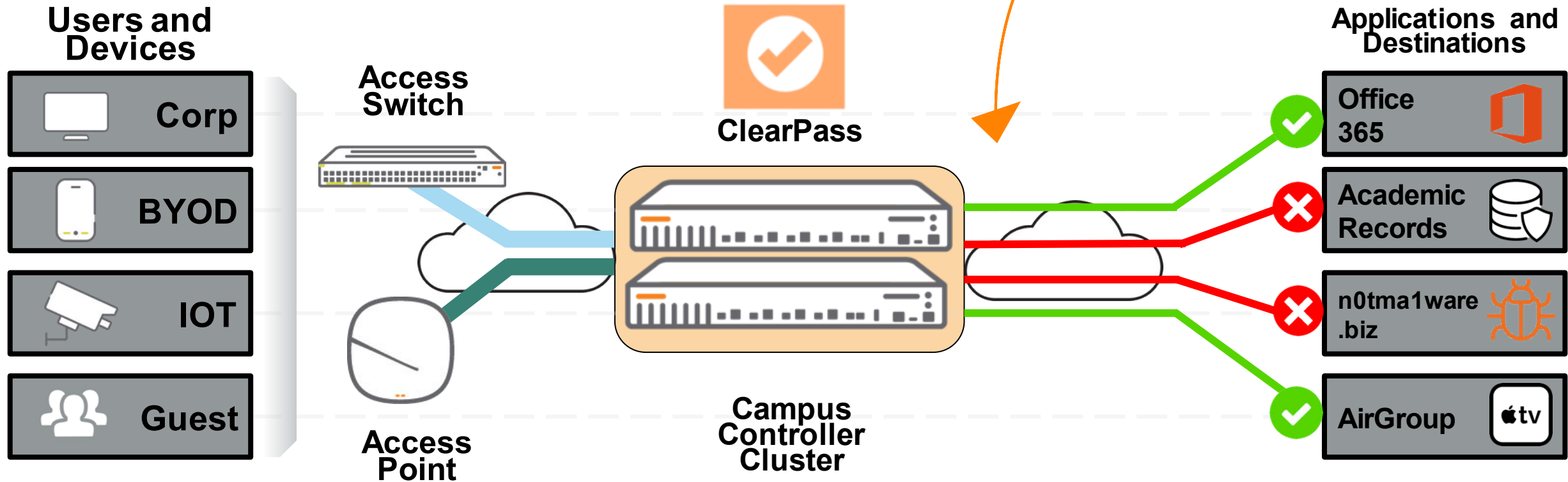
No more help desk calls to move devices from one port to another

Fast and Simple Security for Any Device

Roles are "Dynamic"

"Segmentation" refers to the separation of traffic

Users and Devices

Corp

BYOD

IOT

Guest

Access Switch

Access Point

ClearPass

Campus Controller Cluster

Applications and Destinations

Office 365

Academic Records

n0tma1ware.biz

AirGroup

Solution Requirements:
Aruba 2930F, 2930M, 3810 and 5400R Campus Switches (Requires ArubaOS-Switch 16.04 or later)
Aruba Mobility Controllers with AOS 8.1
Aruba Branch Gateways with ArubaOS 8.4 and Aruba Central 2.4.3
Aruba ClearPass Policy Manager

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Dynamic Segmentation

Secured and flexible control of access layer

- Use Aruba ClearPass authentication and switch's User Role to tunnel selective user/device to the Aruba Controllers
- Policies (e.g. QoS, ACL, VLAN, rate-limit) can be enforced at Tunneled Node ports
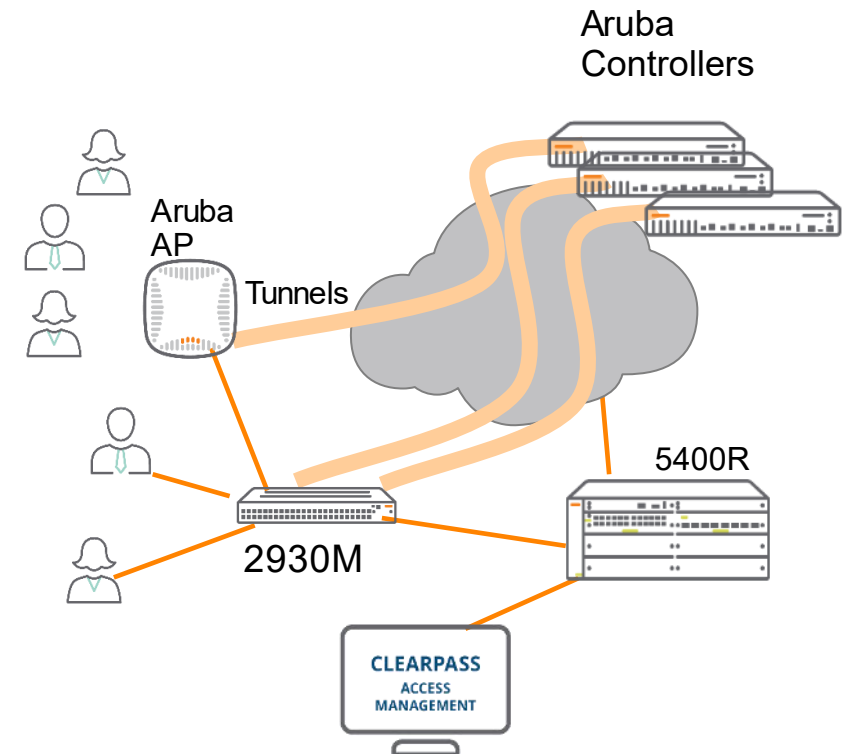
Access to Controller's applications

- Users can access Controller's applications such as stateful firewall and Aruba AppRF

Higher availability and scalability

- Load balance to multiple controllers for high scalability
- Stateful failover to standby management module for high availability
- Sticky controller: avoid bouncing tunneled sessions between different controllers

Available on the Aruba 5400R with v3, 3810, 2930F, 2930M

- Requires AOS 8.1 or later in the controllers

*Requires ArubaOS-Switch 16.04 software release

Aruba Controllers

Aruba AP

Tunnels

5400R

2930M

CLEARPASS
ACCESS
MANAGEMENT

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Downloadable User Roles

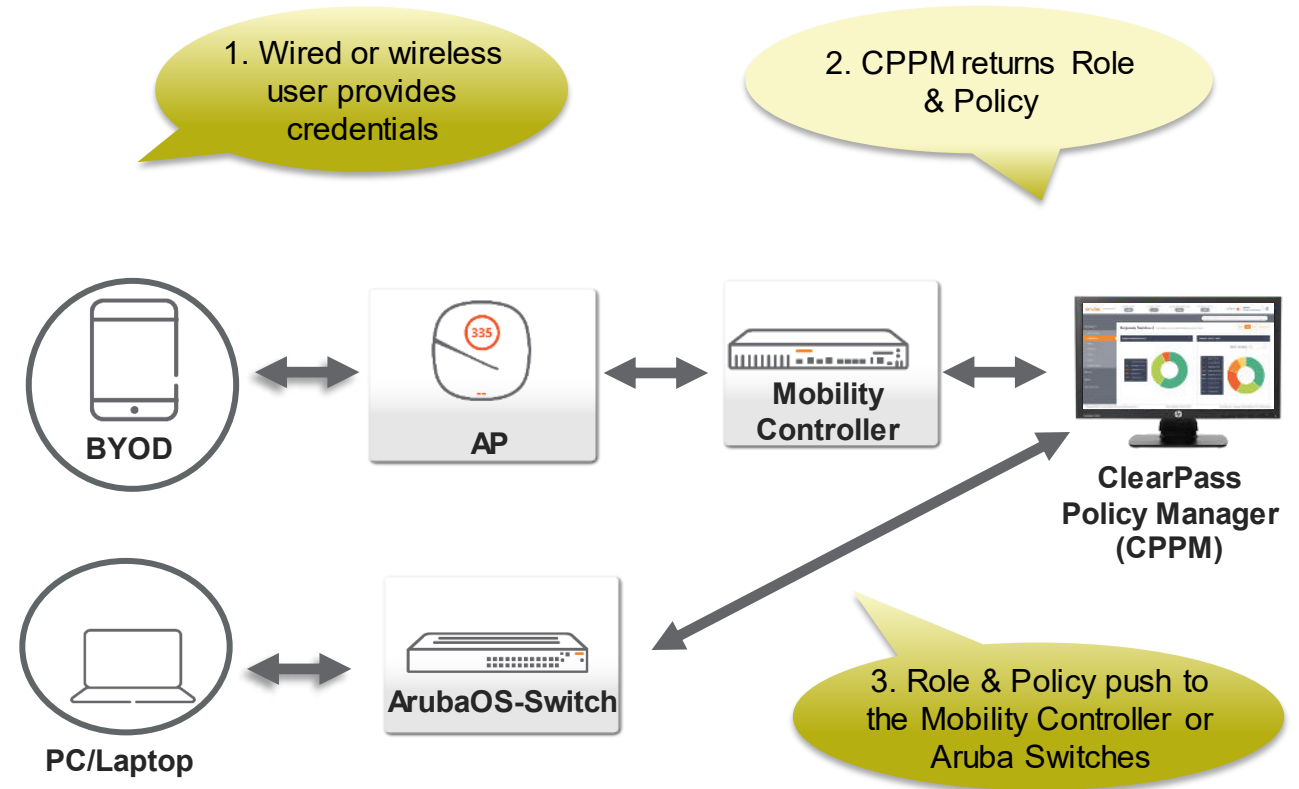**Single point of policy management**

– Dynamically assigned by ClearPass at the time of authentication

Builds on top of the existing local User Roles

– Every user/device is assigned a User Role

– User Role policies include QoS, VLAN, ACL, Rate Limits

Consistent wired/wireless policy management

– Same as WLAN AP, simplify policy configuration and management

1. Wired or wireless user provides credentials

2. CPPM returns Role & Policy

BYOD

AP

Mobility Controller

ClearPass Policy Manager (CPPM)

PC/Laptop

ArubaOS-Switch

3. Role & Policy push to the Mobility Controller or Aruba Switches

*Requires ArubaOS-Switch 16.04 software release

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# Protect your network with Control Plane Policing

Limit traffic going to switch CPU

- Control and protocol traffic such as MSTP, unicast and multicast control packet

Prevent overloading of CPU, protect against

- Denial-of-Service attack

- Misconfiguration

- Problems in the network

User configurable rate limit

*Requires ArubaOS-Switch 16.04 software release

Rate Limit
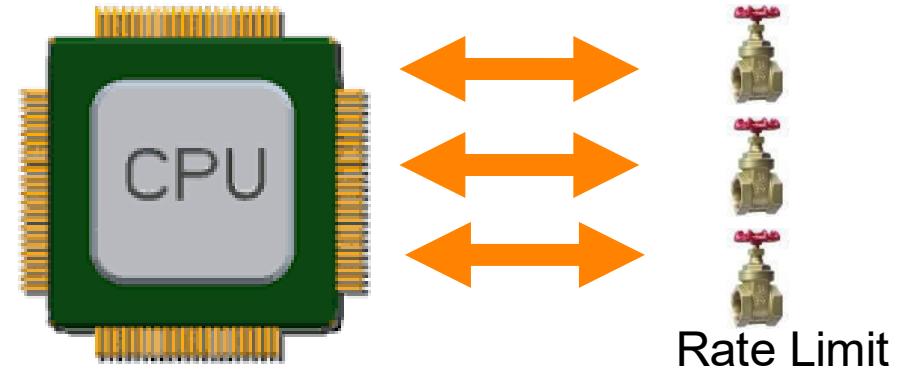
Flexible Management

Unique Flexibility to change management with same access switch

Web GUI

Central

AirWave

Web interface

single switch management

Great for small business, events

Cloud-based

wired + wireless

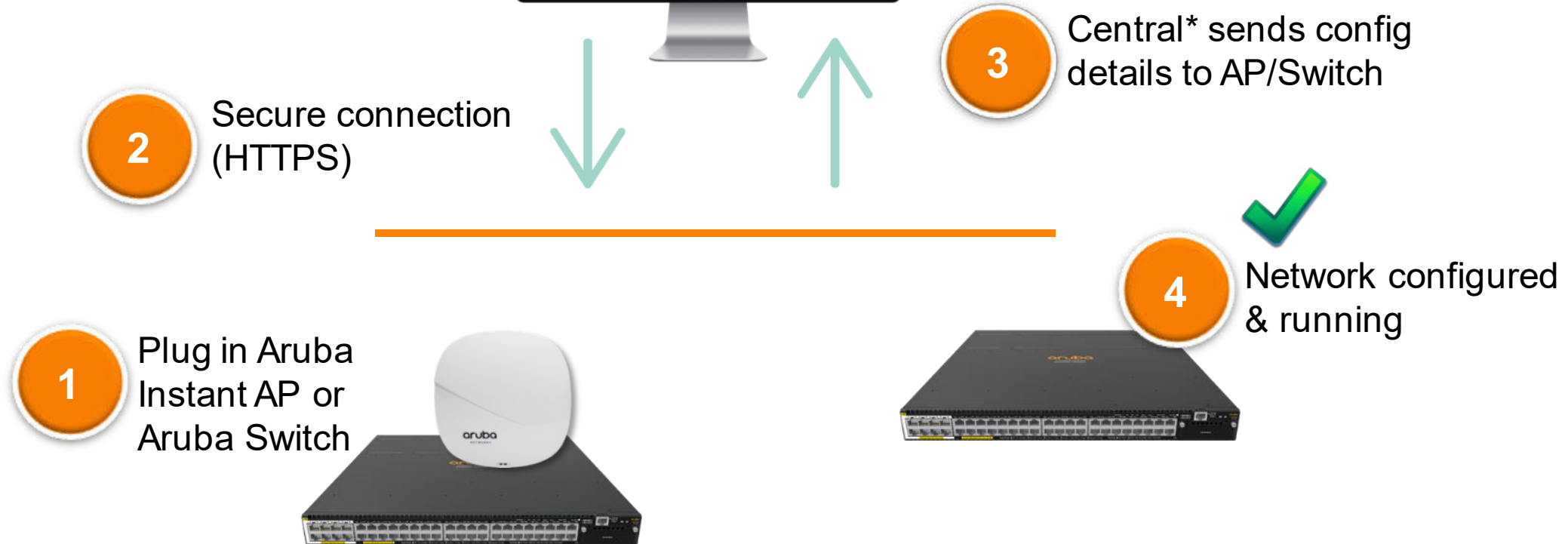Great for remote IT teams, growing businesses, retail, hospitality, cloud initiatives

On-Prem multivendor

wired + wireless

Great for larger midsize and enterprise businesses, multiple campuses, scale

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Simple And Fast Network Deployment

Zero-Touch Provisioning

No On-Site Expert Needed

APs and Switches

3 Central* sends config details to AP/Switch

2 Secure connection (HTTPS)

4 Network configured & running

1 Plug in Aruba Instant AP or Aruba Switch

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Target Deployment
Large enterprise campus with HPE Smart Rate access

Aruba 8400 Switches

Aruba 7200
Mobility Controllers

Aruba 7200
Mobility Controllers

Aruba 5400R switches
(VSF stacks)

Aruba 3810
or **2930M Switch**
stacks

Aruba
802.11ac APs

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Target Deployment

Large enterprise campus

Aruba 8400 Switches

Aruba 7200 Mobility Controllers

Aruba 7200 Mobility Controllers

Aruba 5400R switches (VSF stacks)

Aruba 3810 or **2930M Switch** stacks
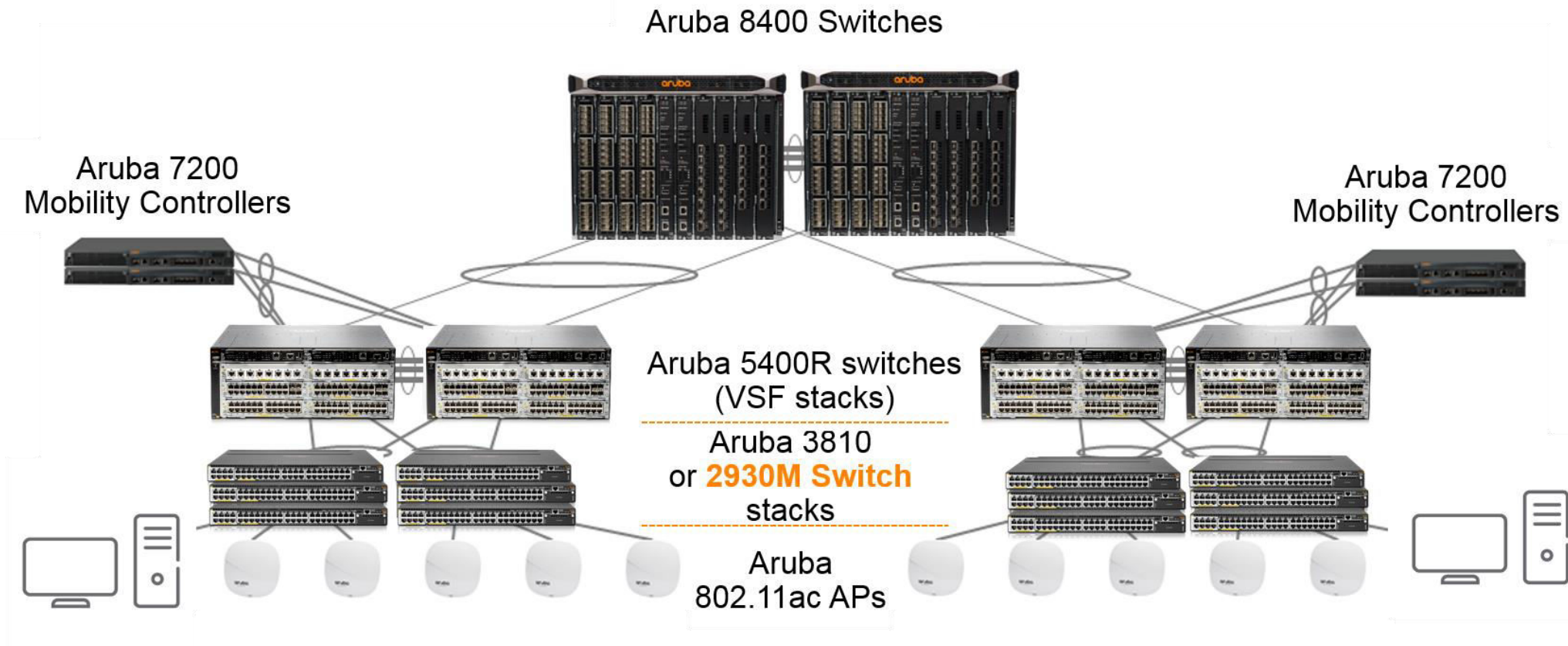
Aruba 802.11ac APs

Medium enterprise campus

Aruba 7200 Mobility Controller

Aruba 3810 stack (or Aruba 5400R)

Aruba 7200 Mobility Controller

Aruba 2930M

Aruba 2930M

Aruba 802.11ac APs
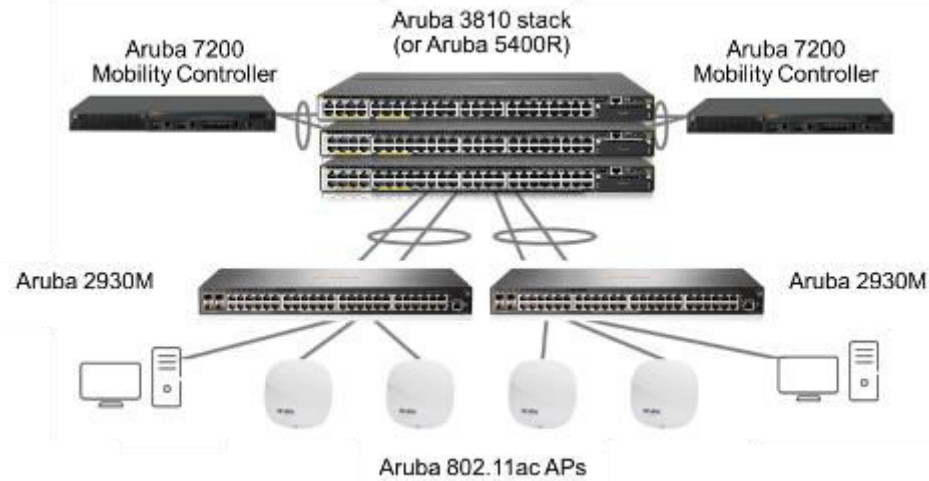
Enterprise, Midsize and Branch

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# Use Case: Sunnycrest Manor

Aruba Solution Benefits

- Reduced resident healthcare recordkeeping time by a third.

- Raised video camera security and resident quarters mobile connectivity from none to fully covered.

- Decreased Wi-Fi help desk calls by 95% and switch troubleshooting – from dozens of hours to zero.

- Eliminated network downtime due to switch licensing issues.

ENHANCING DIGITAL ENGAGEMENT FOR SHOPPERS

Wi-Fi analytics to monitor shopper engagement and in-store dwell times

Stable, secure Wi-Fi access for employees and customers
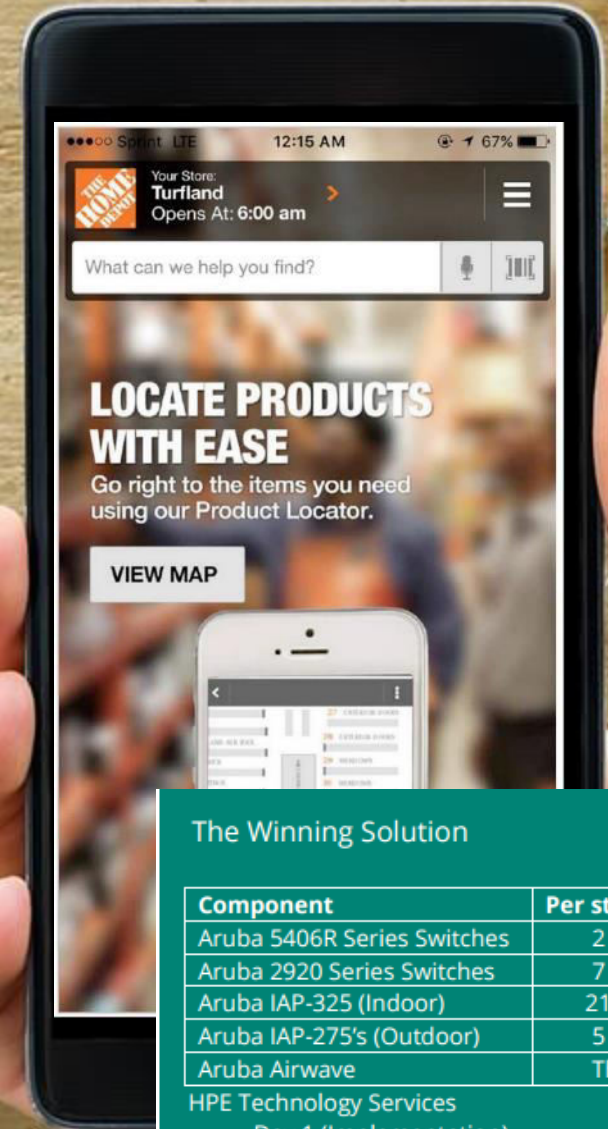
The Winning Solution

Component	Per store	Total
Aruba 5406R Series Switches	2	4,326
Aruba 2920 Series Switches	7	14,924
Aruba IAP-325 (Indoor)	21	45,924
Aruba IAP-275's (Outdoor)	5	10,815
Aruba Airwave	Throughout	

HPE Technology Services
    Day 1 (Implementation)
    Day 2 (Support) services

Aruba Campus Access Switch portfolio

Gigabit Access

Multi-Gig Access

	Aruba 2530	Aruba 2540	Aruba 2930F	Aruba 2930M	Aruba 3810	Aruba 5400R
Switching	L2	L2 + RIP/static	L3 + RIP, Access OSPF	L3 + RIP, Access OSPF	Advanced L3	Advanced L3
Modular Power & Uplinks				●	●	●
Smart Rate Multi-Gig Ports				●	●	●
Dynamic Segmentation			●	●	●	●
Stacking			VSF	●	●	VSF
REST APIs	●	●	●	●	●	●
AirWave, ClearPass, Central	●	●	●	●	●	●
PoE/PoE+	●	●	●	●	●	●
PoE Class 6 (60W)				●		

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Depend On Our Industry Leading Warranty

CAMPUS ACCESS SWITCHES

Hardware Warranty
  Original Owner Lifetime
Replacements
  NBD Shipment
Software Updates
  Posted Releases
Phone Support
(Best Effort, Product Conformance)
  24x7 for 90 Days
  8x5 for Lifetime

CAMPUS CORE SWITCHES

Hardware Warranty
  5 year
Replacements
  10 day shipment
Software Updates
  Posted Releases
Phone Support
(Best Effort, Product Conformance)
  8x5 for 90 days

No software licensing required

hpe.com/networking/warrantysummary

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Aruba 5400R v3 zl2 Modules

Product number	Product name	Features
J9986A	Aruba 24-port 10/100/1000BASE-T PoE+ MACsec v3 zl2 Module	Gig-T, PoE+, MACsec, Full Line Rate
J9987A	Aruba 24-port 10/100/1000BASE-T MACsec v3 zl2 Module	24 Gig-T, MACsec, Full Line Rate
J9988A	Aruba 24-port 1GbE SFP MACsec v3 zl2 Module	SFP, MACsec, Full Line Rate
J9989A	Aruba 12-port 10/100/1000BASE-T PoE+/12-port 1GbE SFP MACsec v3 zl2 Module	Combo Gig-T and SFP, MACsec, Full Line Rate
J9990A	Aruba 20-port 10/100/1000BASE-T PoE+/4-port 1G/10GbE SFP+ MACsec v3 zl2 Module	Combo Gig-T and SFP/SFP+, MACsec, Full Line Rate
J9991A	Aruba 20-port 10/100/1000BASE-T PoE+/4p 1/2.5/5/10GBASE-T PoE+ MACsec v3 zl2 Module	Combo Gig-T and HP Smart Rate 1,2.5,5,10GT, PoE+, MACsec[1], Full Line Rate
J9992A	Aruba 20-port 10/100/1000BASE-T PoE+ MACsec/1-port 40GbE QSFP+ v3 zl2 Module	Combo Gig-T and 40GbE QSFP+, PoE+, MACsec, Full Line Rate
J9993A	Aruba 8-port 1G/10GbE SFP+ MACsec v3 zl2 Module	SFP/SFP+, MACsec, Full Line Rate*
J9995A	Aruba 8-port 1/2.5/5/10GBASE-T PoE+ MACsec v3 zl2 Module	HPE Smart Rate 1,2.5,5,10GT, PoE+, MACsec[1], Full Line Rate*
J9996A	Aruba 2-port 40GbE QSFP+ v3 zl2 Module	40GbE QSFP+, Full Line Rate*
JL001A	Aruba 5412R 92GT PoE+/4SFP+ (No PSU) v3 zl2 Switch	12 slot chassis, Gig-T, PoE+, SFP/SFP+, MACsec, Full Line Rate, Bundle
JL002A	Aruba 5406R 8-port 1/2.5/5/10GBASE-T PoE+/8-port SFP+ (No PSU) v3 zl2 Switch	6 slot chassis, HPE Smart Rate, PoE+, SFP/SFP+, MACsec[1], Full Line Rate, Bundle
JL003A	Aruba 5406R 44GT PoE+/4SFP+ (No PSU) v3 zl2 Switch	6 slot chassis, Gig-T, PoE+, SFP/SFP+, MACsec, Full Line Rate, Bundle
JL095A	Aruba 5406R 16-port SFP+ (No PSU) v3 zl2 Switch	6 slot chassis, SFP/SFP+, MACsec, Full Line Rate, Bundle

Aruba 5400R v3 zl2 modules with HPE Smart Rate

Aruba 20-port 10/100/1000BASE-T PoE+/4p 1/2.5/5/10GBASE-T PoE+ MACsec v3 zl2 Module (J9991A)

Features: Combo Gig-T and HPE Smart Rate 1,2.5,5,10GT, PoE+, MACsec, Full Line Rate[1]

Aruba 8-port 1/2.5/5/10GBASE-T PoE+ MACsec v3 zl2 Module (J9995A)

Features: HPE Smart Rate 1,2.5,5,10GT, PoE+, MACsec, Full Line Rate[1]

[1] Minimum threshold packet size applies

Aruba 5400R v3 zl2 modules with 40GbE

Aruba 20-port 10/100/1000BASE-T PoE+ MACsec/1-port 40GbE QSFP+ v3 zl2 Module (J9992A)

Features: Combo Gig-T and 40GbE QSFP+, PoE+, MACsec, Full Line Rate [1]

Aruba 2-port 40GbE QSFP+ v3 zl2 Module (J9996A)

Features: 40GbE QSFP+, Full Line Rate [1]

[1] Minimum threshold packet size applies

Aruba 5400R v3 zl2 modules with PoE+

Aruba 24-port 10/100/1000BASE-T PoE+ MACsec v3 zl2 Module (J9986A)

Features: Gig-T, PoE+, MACsec, Full Line Rate [1]

Aruba 20-port 10/100/1000BASE-T PoE+/4-port 1G/10GbE SFP+ MACsec v3 zl2 Module (J9990A)

Features: Gig-T, 10GbE, PoE+, MACsec, Full Line Rate [1]

Aruba 12-port 10/100/1000BASE-T PoE+/12-port 1GbE SFP MACsec v3 zl2 Module (J9989A)

Features: Combo Gig-T and SFP, PoE+, MACsec, Full Line Rate [1]

[1] Minimum threshold packet size applies

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Aruba 5400R v3 zl2 modules

Aruba 24-port 10/100/1000BASE-T MACsec v3 zl2 Module (J9987A)

Features: 24 Gig-T, MACsec, Full Line Rate[1]

Aruba 8-port 1G/10GbE SFP+ MACsec v3 zl2 Module (J9993A)

Features: SFP/SFP+, MACsec, Full Line Rate[1]

Aruba 24-port 1GbE SFP MACsec v3 zl2 Module (J9988A)

Features: SFP, MACsec, Full Line Rate[1]

[1] Minimum threshold packet size applies

Aruba 5400R zl2 Switch Series power supplies
80Plus Gold Certified Power Supplies

Configuration	Aruba 5406R PoE budget	No. of ports at 30 W	Aruba 5412R PoE budget	No. of ports at 30 W
Low Power (1100W)				
1 x J9829A	900 W	28	900 W	28
2 x J9829A	1665 W	52	1665 W	52
3 x J9829A	N/A	N/A	2498 W	78
4 x J9829A	N/A	N/A	3330 W	104
Base Power (700W)				
1 x J9828A	275 W	8	275 W	8
2 x J9828A	509 W	15	509 W	15
3 x J9828A	N/A	N/A	763 W	23
4 x J9828A	N/A	N/A	1018 W	31
High Power (2750W)				
1 x J9830A (main only)	1100 W	34	1100 W	34
2 x J9830A (main only)	2035 W	63	2035 W	63
3 x J9830A (main only)	N/A	N/A	3053 W	95
4 x J9830A (main only)	N/A	N/A	4070 W	127
1 x J9830A (main + aux)	2500 W	78	2500 W	78
2 x J9830A (main + aux)	4625 W	144	4625 W	144
3 x J9830A (main + aux)	N/A	N/A	6938 W	216
4 x J9830A (main + aux)	N/A	N/A	9250 W	288

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Aruba Campus Switching Differentiators
Complete campus core to edge portfolio

Automated and Simple	Secure and Unified	Flexible Single View
Zero Touch Provisioning **Auto-config** for VLAN, QoS, PoE priority Full, open **REST APIs** Aruba **Network Analytics Engine** at the core	**Dynamic Segmentation** secures with Aruba Controllers, Services and ClearPass **Unified Policy** with Unique Aruba ClearPass Integration with User Role and Captive Portal	**Multi-vendor** Aruba AirWave for config., mgmt. and monitoring **Cloud-based** Aruba Central for single view of WLAN and switching **Flexible** management choice with same hardware

Industry leading TCO with no software licensing

Resources

Learn more about..

- Aruba campus switches and the Aruba 5400R Switch Series

- Aruba campus switches solution brief

- Aruba's multi-gigabit Ethernet solutions

- Networking services from HPE Pointnext

Aruba Switch Software
- https://www.arubanetworks.com/products/networking/switches/software/

Aruba Support Portal for Software, Documentation and more
- https://asp.arubanetworks.com/

Thank you

HPE Smart Rate Delivers Faster Speeds on Existing Cabling

2.5-5 times more bandwidth from **existing cable** infrastructure **without expensive** and disruptive cable upgrades.

Mode	Cable type	Cable length
1 Gbps (1000BASE-T)	CAT5e/Class D or better	Up to 100 meters
2.5 Gbps Available when link partner is HPE Smart Rate or compatible vendor	CAT5e/Class D or better	Up to 100 meters
5 Gbps Available when link partner is HPE Smart Rate or compatible vendor	CAT5e/Class D	Up to 55 meters in a high Alien noise environment
		Up to 100 meters in a low Alien noise environment
	Shielded CAT5e/Class D	Up to 100 meters
	CAT6/Class E or better	Up to 100 meters
10 Gbps (10GBASE-T)	CAT6/Class E	Up to 55 meters
	CAT6A/Class E_A	Up to 100 meters

HPE Smart Rate Speeds:
- Aruba 5400R Module, 3810 Switch, 3810/2930M module, 2930M (JL323A and R0M67A) Switches – 1, 2.5, 5, 10GbE
- Aruba 2930M (JL324A and R0M68A) – 1, 2.5, 5GbE fixed ports (no 10GbE)
- Aruba 330 Series APs – 1, 2.5, 5GbE

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Aruba 5400R Switch Series – Rear View

Aruba 5406R
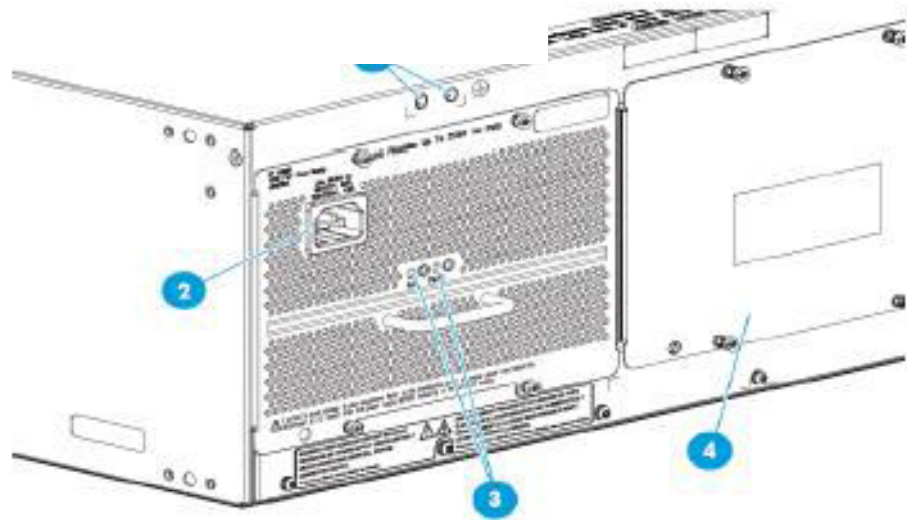
Aruba 5412R

Figure 1-5. Back of a 5406R zl2 switch with one power supply

1	Ground lug mounting holes
2	AC power connector
3	Power and Fault LEDs
4	Slot for installing optional redundant power supply
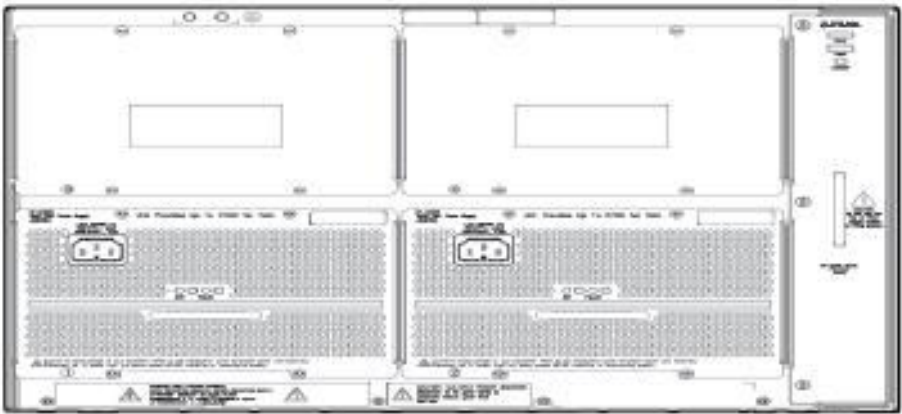
Aruba 5400R Switch Series
MACsec

Where it works	The security benefits
Industry-standard MACsec will be available on the following Aruba 3810 ports: − All twisted pair 1000Base-T ports − All HPE Smart Rate Multi-Gigabit 1Gbps, 2.5 Gbps, 5 Gbps, 10 Gbps ports − All 1GbE/10GbE SFP/SFP+ fiber ports **NOT** available on 40GbE QSFP+ ports	**Connectionless data integrity** − Frame received is identical to the frame transmitted **Data origin authenticity** − Frame received is from the source indicated **Confidentiality** − User data is encrypted **Replay protection** − Frame received has not been duplicated as part of a denial of service attack **Bounded receive delay (Timeliness)** − Known and predictable bounds on the latency added to each frame for security **Certain denial of service attacks** − Passive wiretapping, Man-in-the-middle, Masquerading, Bit-flipping **MACsec does not:** − Provide non-repudiation − Protect against traffic analysis

Product compatibility

Module Version	5400 zl	8200 zl	5400R zl2
v1 zl modules	✓	✓	
v2 zl modules	✓	✓	✓
v3 zl2 modules			✓

Legacy and future support:

– v3 modules will only be supported on the 5400R zl2 Switch Series

– v3 modules will not be supported by the 5400 zl Switch Series chassis

– v3 modules will not be supported by the 8200 zl Switch Series chassis

– The use of v1 modules not supported on the 5400R zl2 Switch Series

– The use of v2 zl modules and v3 zl2 modules on the same 5400R zl2 Switch Series is supported*

* Some v3 features may be limited in "mixed mode". Additional details will be available soon.