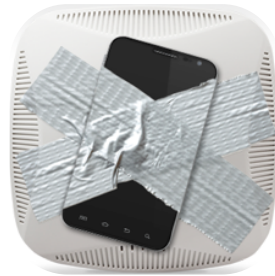# aruba

a Hewlett Packard
Enterprise company

Mobile First Networks

Oguzhan Eren
SE Manager - TR

Leading product line for 802.11ac Wave 2

ARM with ClientMatch


Say goodbye to sticky clients

..with "MU-MIMO Aware"

Automated high density RF controls with AirMatch
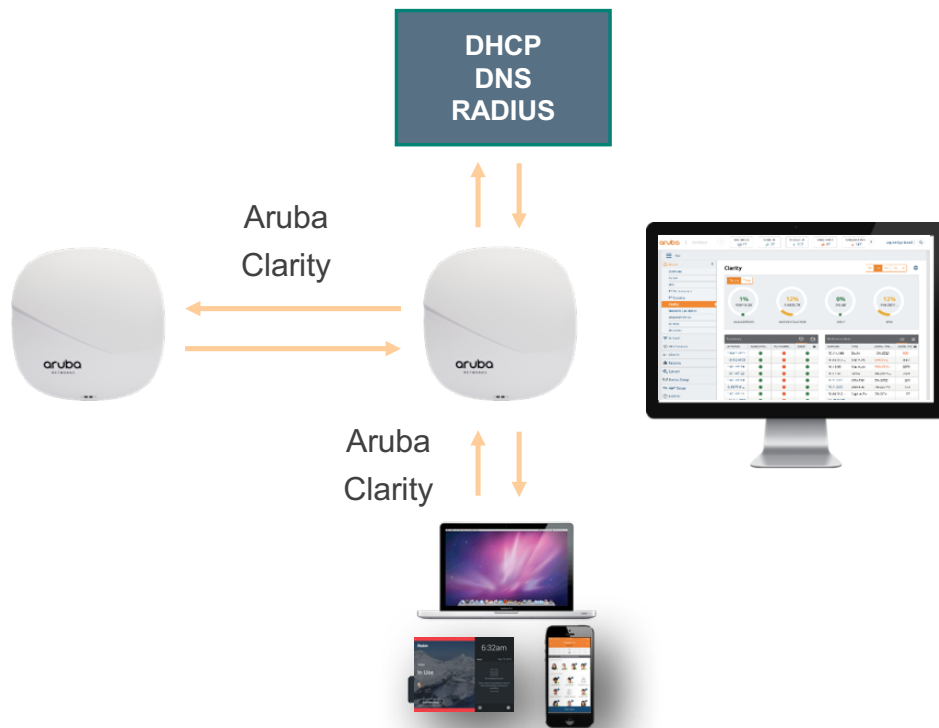
- Requires Mobility Master and AOS8

- Centralized RF automation for power, channel and channel width assignments

- Designed to achieve long term network stability and performance via machine learning

- RF settings are updated every 24 hours by default; frequency can be adjusted by IT
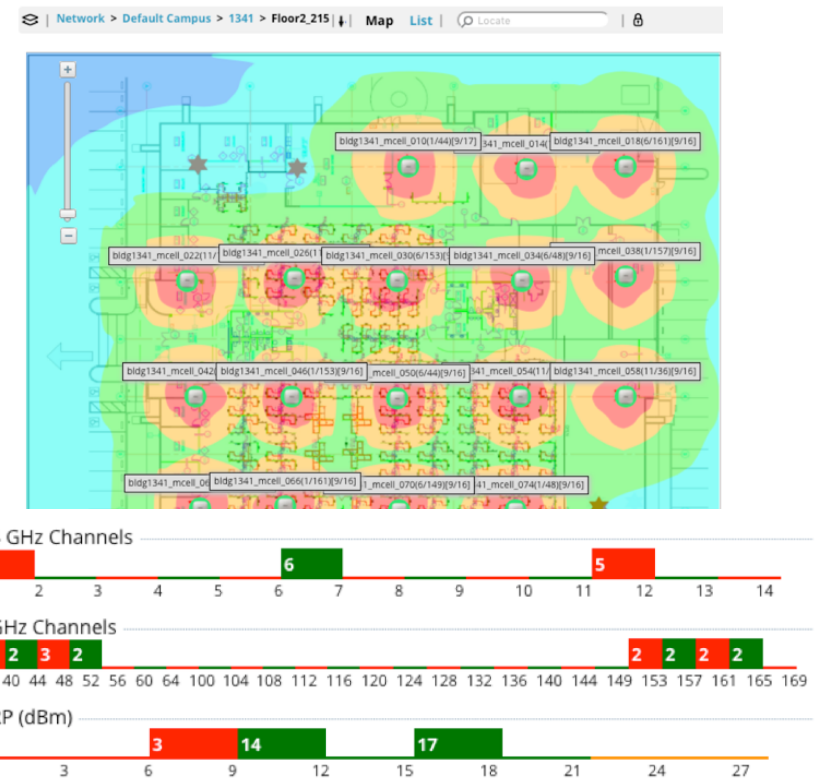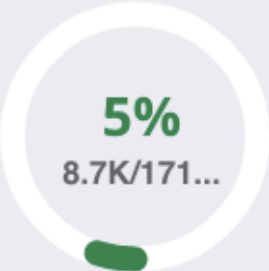
Predictive performance monitoring with Aruba Clarity
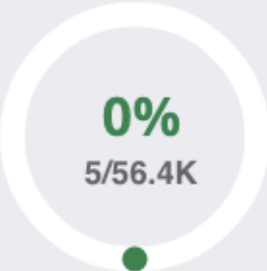

RF?
Authentication?
DHCP?
DNS?

Clarity Beta

Live Synthetic

2h | 1d | **1w** | 2w | ⌄

❓ 🔽 ⚙️

Failure ⌄

⏱ 📈

5%
8.7K/171...

ASSOCIATION

12%
8.3K/69.9K

AUTHENTICATION

0%
5/56.4K

DHCP

13%
585.0K/4...

DNS

Summary ⌄

👤 📷 🗀
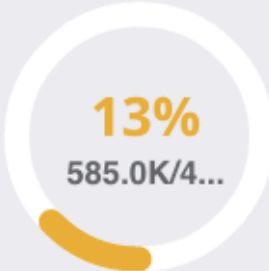
AP NAME	ASSOCIATION	AUTHENTICATI...	DHCP	☰
SLR02HPEAP1...	🔴	🔴	🔴	
SLR03ENGAP2...	🟡	🔴	🔴	
SLR03ENGAP2...	🟢	🔴	🔴	
SLR02HPEAP1...	🟢	🔴	🔴	

Authentication

☰ 📈

SERVERS	TYPE	AUTH. FAILURE...	AUTH. TIME(M ☰
10.44.10.20	Dot1x	15% (3513/22...	2488
15.114.140.12	Dot1x	9% (4331/466...	1597
10.44.10.22	Captive Portal	0% (0/22)	56
10.44.10.22	MAC Auth	38% (430/1116)	34

Clarity Beta

Live   Synthetic

| 2h | 1d | 1w | 2w | ⌄ |

? ▽ ⚙

Time ⌄   ⏱ ⤴

1	**437**	**15**	**2,016**
Milliseconds	Milliseconds	Milliseconds	Milliseconds
ASSOCIATION	AUTHENTICATION	DHCP	DNS
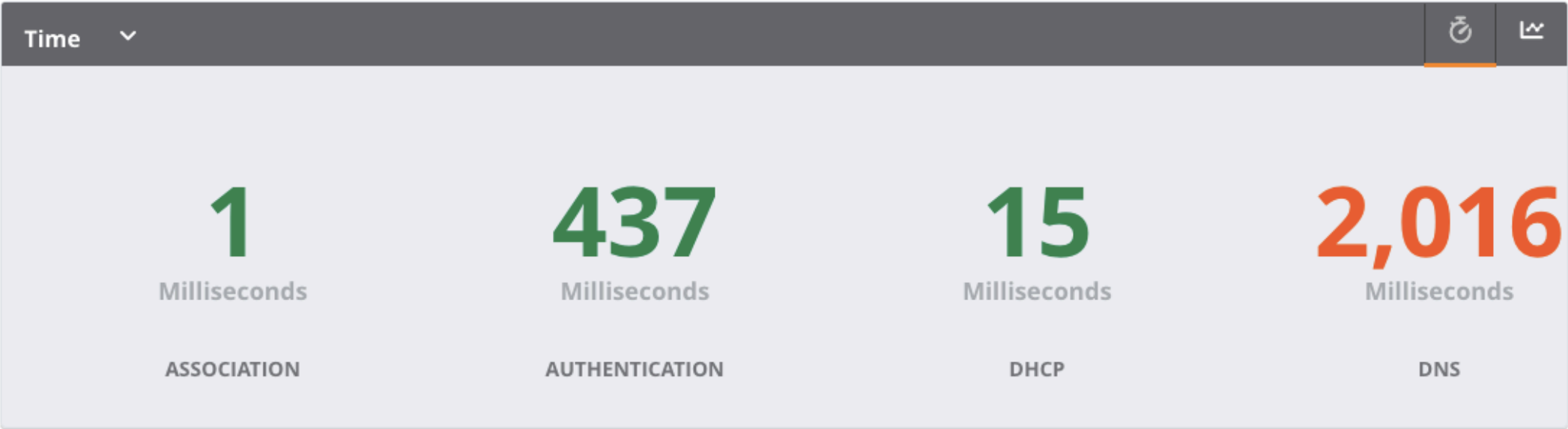
Summary   👤 📷 🗁

AP NAME	ASSOCIATION	AUTHENTICATI...	DHCP	☰
SLR01-2B-b4:5...	🟢	🔴	🟢	
SLR02HPEAP1...	🟢	🔴	...	
SLR03ENGAP2...	🟢	🟡	🟢	
SLR02HPEAP1...	🟢	🔴	...	

Authentication   ☰ ⤴

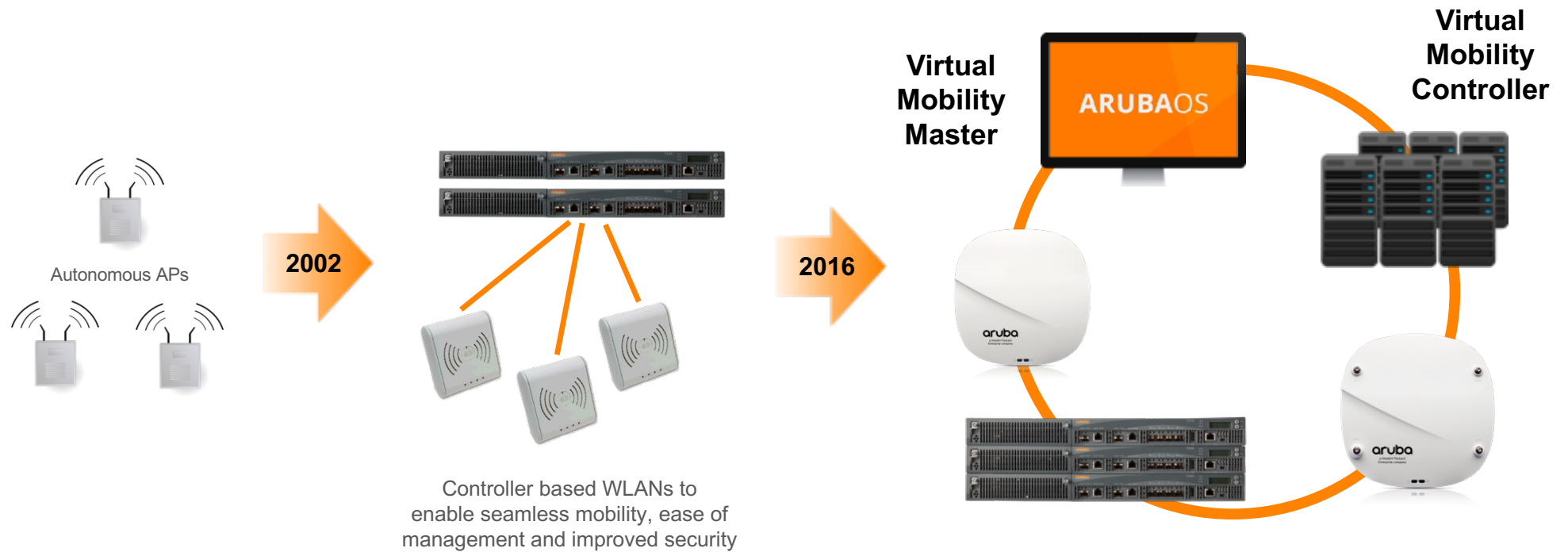| SERVERS	TYPE	AUTH. FAILURE...	AUTH. TIME(M ☰
10.44.10.20	Dot1x	36% (18/50)	455
15.114.140.12	Dot1x	0% (0/12)	412

Role Based Security and Air-QoS Architecture
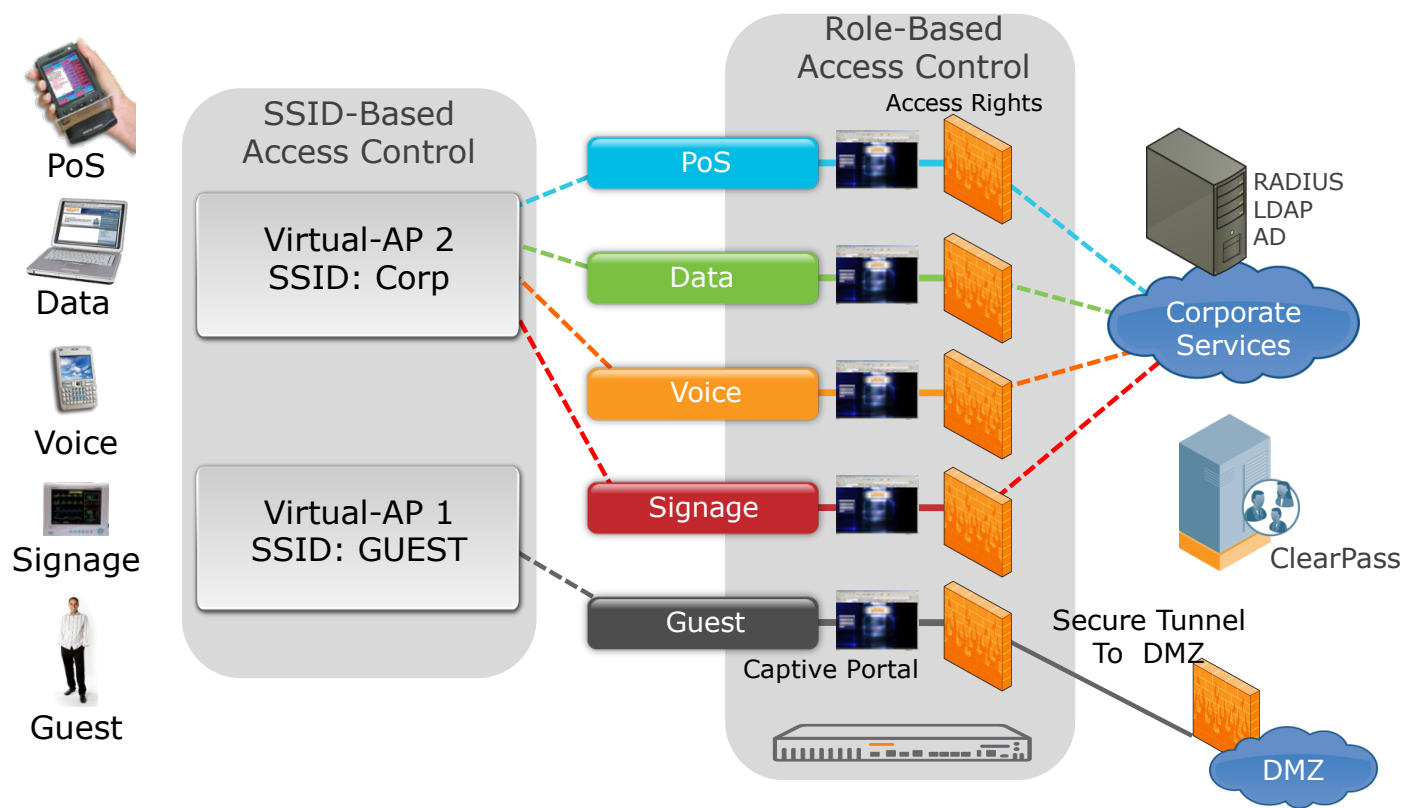
Real-time control of airtime

Protects 11ac mobile devices from older generation

# Redefining the campus wireless LANs with virtualization

Autonomous APs

2002

Controller based WLANs to enable seamless mobility, ease of management and improved security

2016

Virtual Mobility Master

ARUBAOS

Virtual Mobility Controller

Improved reliability and ease of operations with virtualization

Virtual Mobility Master

ARUBAOS

Virtual Mobility Controller

Virtualized servers or hardened appliances for mobility controllers operating as a cluster

Mobility Controller
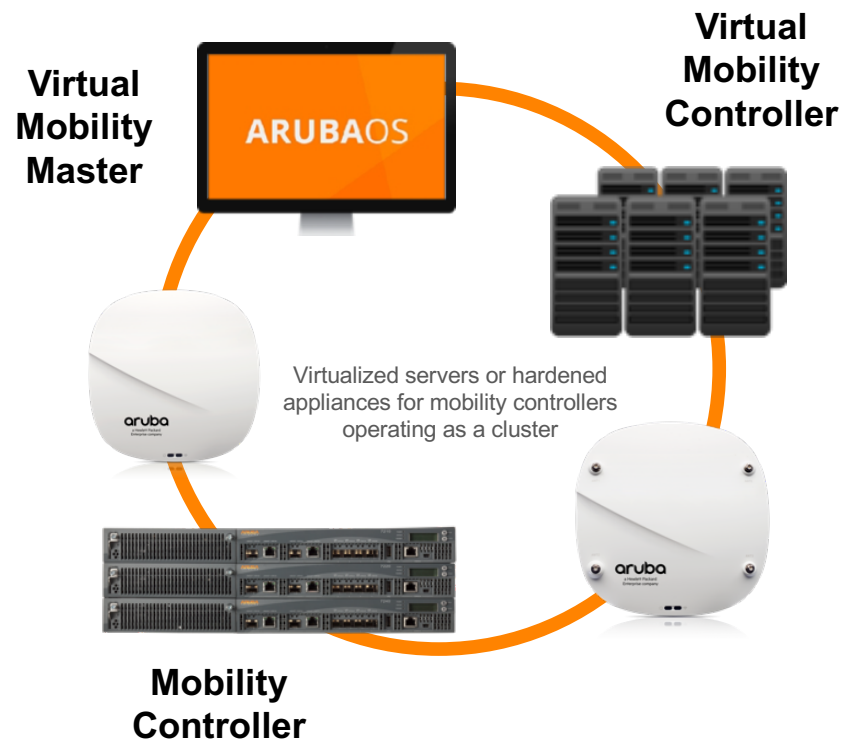
- *Hitless failovers* during controller failures within a cluster, without disruption to real-time voice and video apps
- Automated *user & AP load-balancing* with congestion across the members of the controller cluster
- *Multiple OS releases* across different clusters within the same network, easing the migration from old to new
- *In-service upgrades* for major features and functions, such as NB APIs, AirGroup, AppRF, ClientMatch

Multiple tenants on the same access point with MultiZone

Network A	Network B

Aruba 7200
Mobility Controller

Aruba 7200
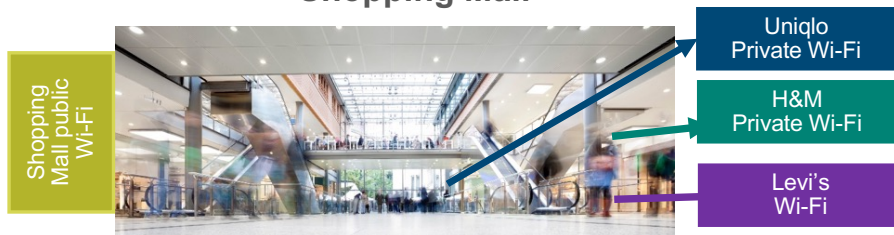Mobility Controllers

NEW
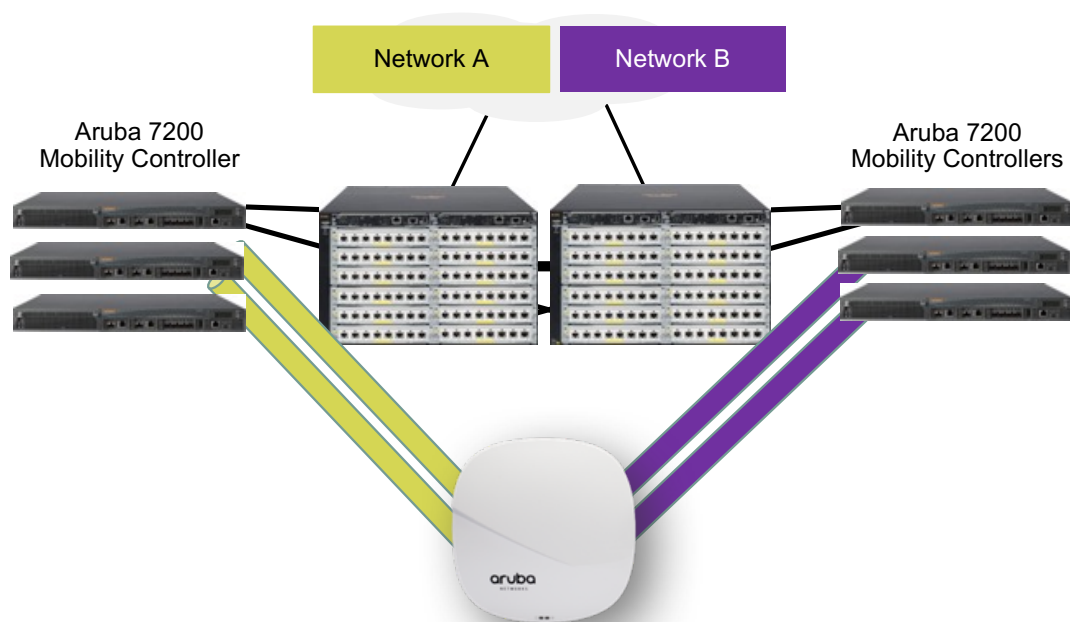
- Requires Mobility Master and AOS8
- SSIDs terminate on different controllers to ensure physical separation of traffic flows
- Efficient use of Wi-Fi resources and reduced cost of AP hardware deployment
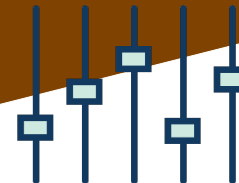
MultiZone: Use Cases and Benefits

Airport

British Airways Wi-Fi

Security Wi-Fi

Air France Wi-Fi

United Airlines Wi-Fi

Public Wi-Fi

Singapore Airlines Wi-Fi

Shopping Mall

Shopping Mall public Wi-Fi

Uniqlo Private Wi-Fi

H&M Private Wi-Fi

Levi's Wi-Fi

Offer significant cost savings to operators of public venues, by eliminating use of separate Wi-Fi systems

Give additional Wi-Fi sponsorship opportunities to your existing customers in public venues

aruba
a Hewlett Packard
Enterprise company

10

Thank you