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# Aruba OS 8

## Next-Generation WLAN Platform



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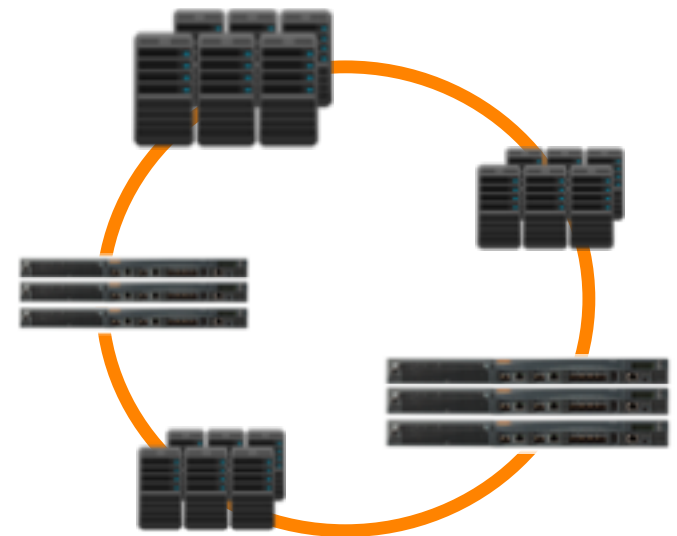
# Introducing AOS 8.x

## – Next generation of AOS introducing new capabilities

1. Usability
  - New UI
  - New Config model
2. Availability
  - Hitless failover (with clustering)
  - Loadable service modules
3. Modernization
  - Virtualization to off-the-shelf components– Both Master and Local
  - New services that are not possible on the 7XXX controllers (AirMatch, scaling, multi-version support)
  - Lots of under the hood enhancements (new database, etc.)

## – Migration of 6.3.X/6.4.X/6.5 to 8.0.1

- Existing customers can migrate to AOS 8.x
- Out of Band Infra tool supports complete config migration including UCC
- Licenses need to be migrated for centralized licensing improvements.



# Simplify operations to scale your network



# Aruba Mobility Master – Virtual and Hardware appliance



## Next generation Master controller

- **Centralized management**
- **Hitless failovers** during controller failures
- **Real-time upgrade** with no downtime
- **User and AP load balancing** across controllers
- **Automated RF management** for better network throughput in congested environment
- **Multi-tenant wireless networks** for better network efficiency
- Network intelligence with **NBAPIs**

**MM VA/HW which one should I use?**

Whatever works best with your operational standards.

# Mobility Controller options – Virtual and hardware appliance



**Virtual Mobility  
Controllers**



## **Mobility Controller Virtual Appliance**

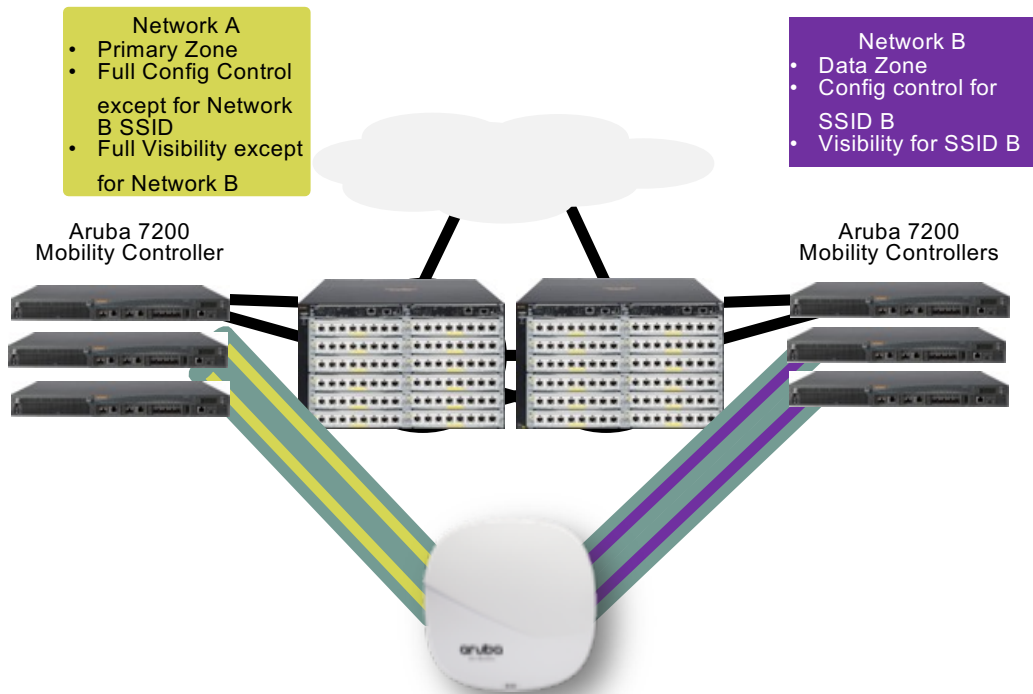
- Ease of moves, changes and use
- 99% feature parity with hardware appliance
- Cost effective if building for redundancy
- Operate as a standalone controller or managed by the Mobility Master

## **Mobility Controller Hardware**

- 70xx and 72xx supported in 8.x
- Simplified support model
- Cost effective for high throughput needs
- Operate as a standalone controller or managed by the Mobility Master

# Network controls for mobility

## Multiple tenants on the same access point with MultiZone

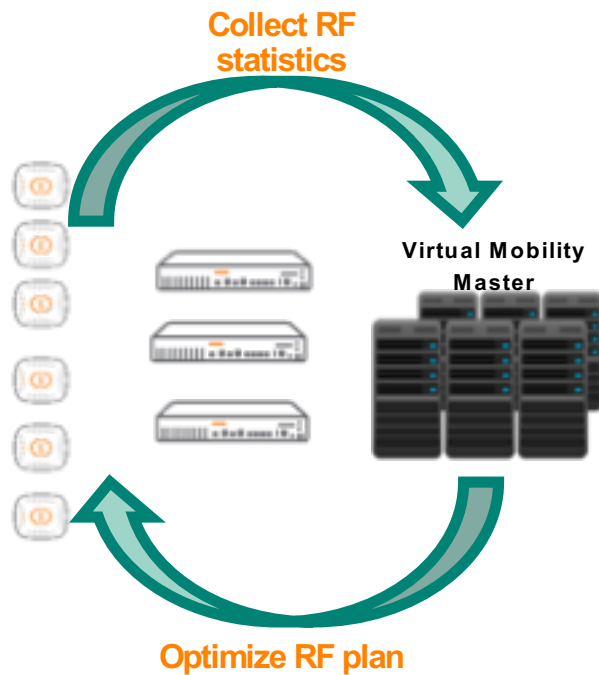


### MultiZone

- SSIDs terminate on different controllers with different management teams
- Secure data separation
- Efficient use of Wi-Fi resources
- Up to 4 Data zones
- Multiple vertical use cases:
  - Federal (classified vs. unclassified)
  - Airports (public, airport security, airline staff)
  - Shopping malls (staff, service provider, retail stores)

## Network controls for mobility

### Automated high density RF optimization with AirMatch

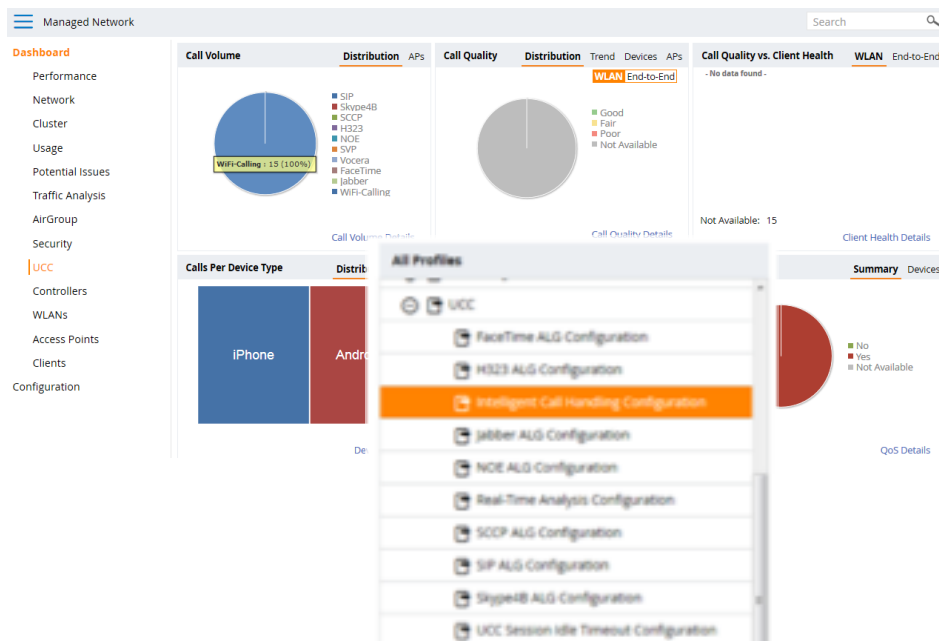


#### AirMatch

- Enhanced user experience while roaming in large dense environments
- Next-gen self-optimizing RF planning - enhancement to Adaptive Radio Management
- Even channel assignment, dynamic channel width adjustment and automated power planning for APs
- Mobility Master required
- Centralized planning
- Distributed anomaly management

# Network controls for unified communications

## Awareness for Wi-Fi Calling, Cisco Jabber and custom apps

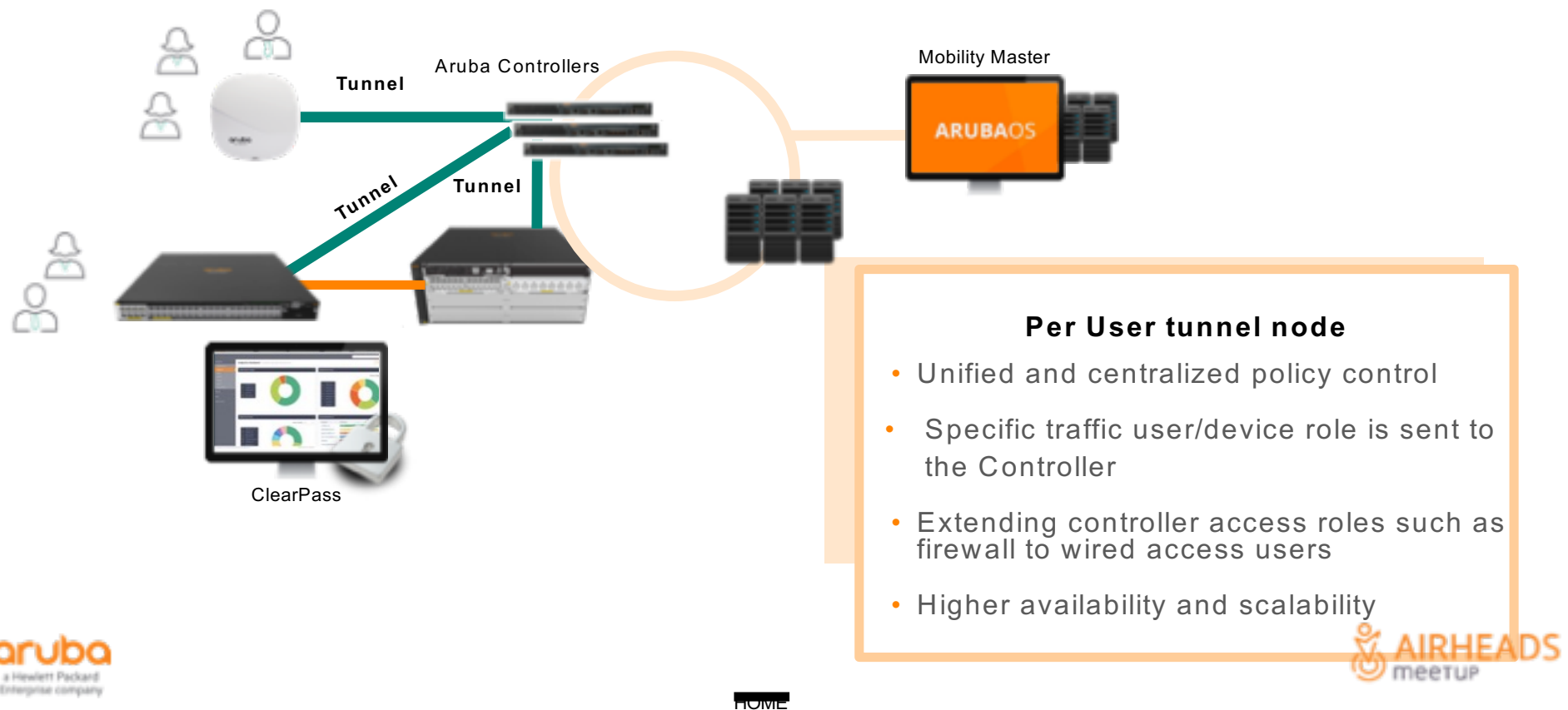


### Unified communications

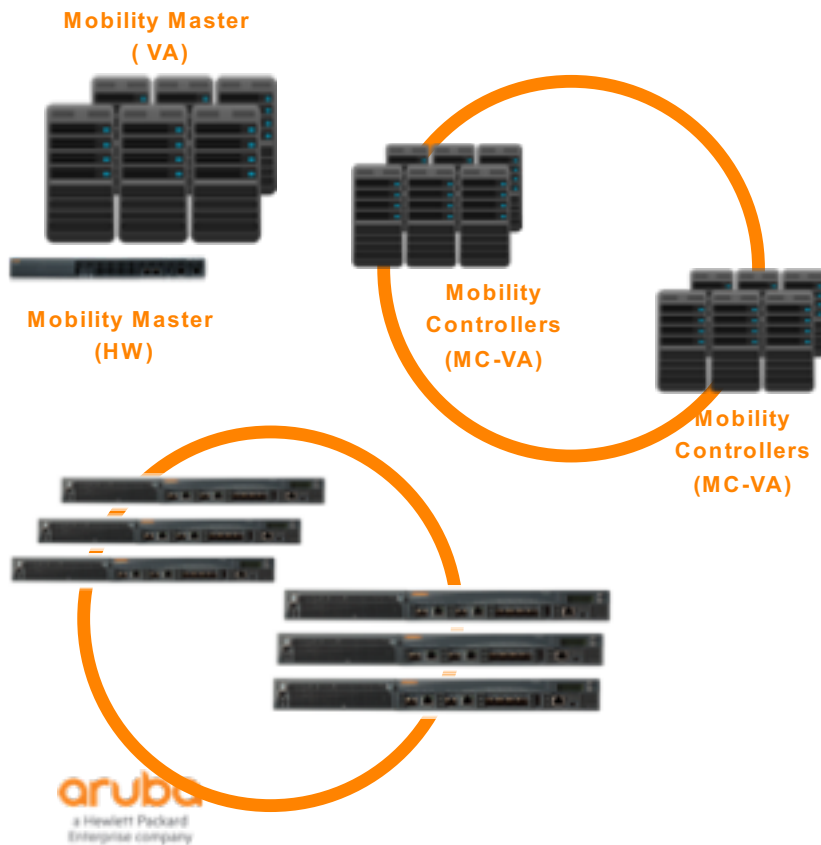
- Custom AppRF definitions beyond the 2500+ apps that's automatically identified by AOS
- Update signatures without an Aruba OS upgrade
- Automatic classification, health metrics for Wi-Fi calling and Cisco Jabber



# Unified wired and wireless policy



# Network reliability



## Controller Clustering

- **Seamless failovers** in an event of a controller failure, No disruption to real-time voice and video apps
- **Automated user & AP load-balancing** in a controller cluster – better use experience in congested area
- **Seamless roaming with clustering** – better user experience when roaming

## What are the SKUs for the Mobility Master (VA)?

Mobility Master Virtual Appliance					
SKUs	MM-VA-50	MM-VA-500	MM-VA-1K	MM-VA-5K	MM-VA-10K
Number of Devices	50	500	1000	5000	10,000
Number of Users	500	5000	10,000	50,000	100,000
Number of Controllers	5	50	100	500	1000

## What are the SKUs for the Mobility Controller Virtual Appliance?

Aruba Mobility Controller Virtual Appliance			
SKUs	MC-VA-50	MC-VA-250	MC-VA-1K
AP Count	50 APs	250 APs	1000 APs
Number of Users	4k	8k	24k



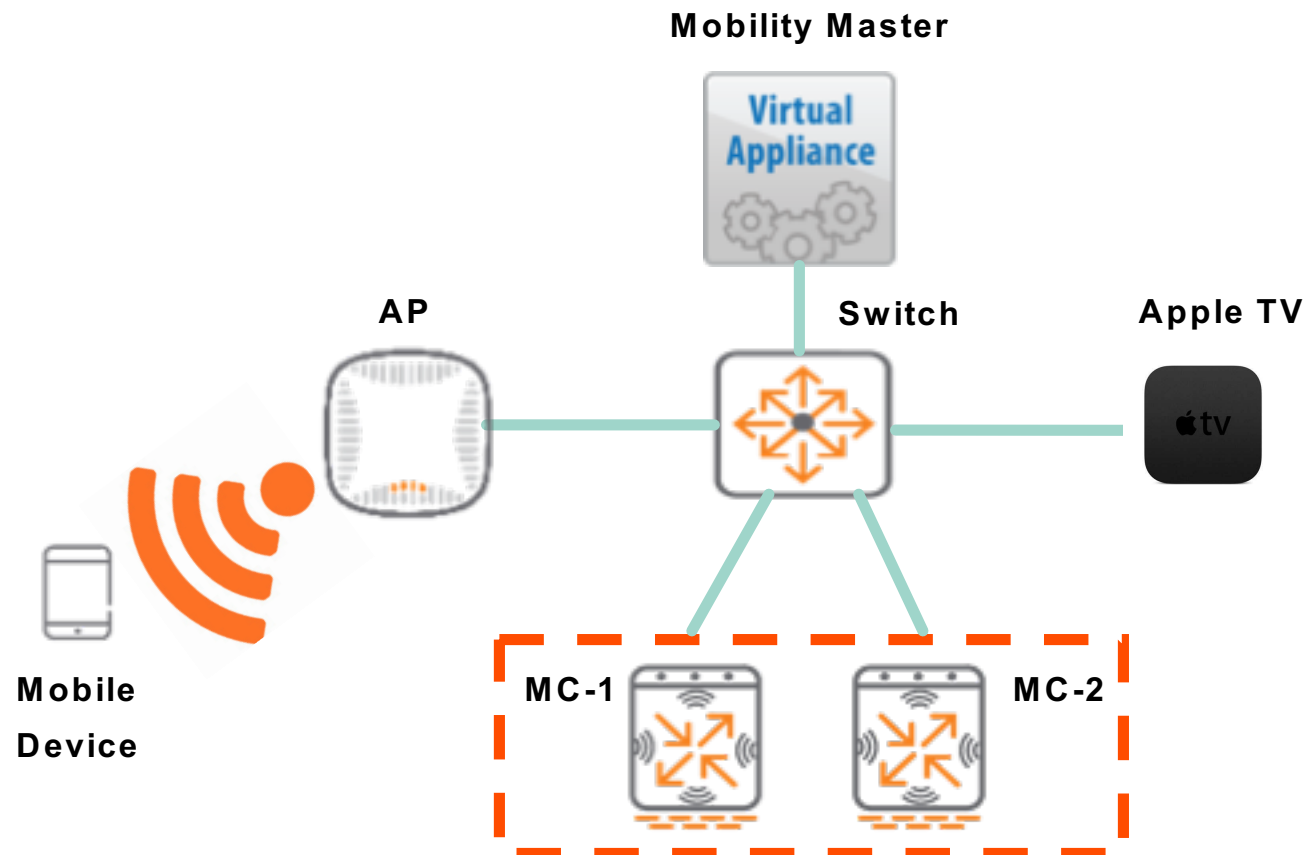
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# Clustering

DEMO

#ArubaAirheads

## Demo Design





# Thank you



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