

MOBILE FIRST

ARUBAOS-SWITCH

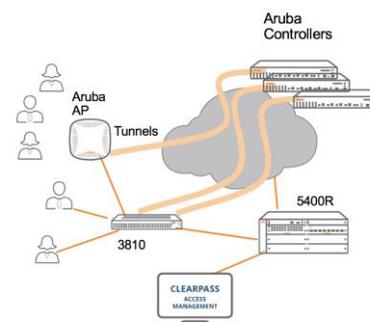
TECHNICAL DIFFERENTIATORS

The digital workplace brings together smartphones, laptops, and IoT devices that require mobility and unified policies that adapt as easily as users and business critical apps shift between Wi-Fi and wired networks.

TUNNELED NODE

Unified Policy Enforcement

In traditional campus networks, access switches forward client traffic to and from the distribution layer switches. On the other hand, the Aruba campus mobility architecture encapsulates wireless client traffic between APs and mobility controllers using tunnels. Tunneled Node is an ArubaOS-Switch feature that allows network administrators to implement the same encapsulation scheme used in the mobility architecture. This enables a unified policy enforcement point for traffic from both wired and wireless clients. In its current implementation, tunneled node allows for the configuration of per-user tunnels between an access switch and an Aruba mobility controller.



- Use ClearPass authentication and the 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 using the switch's User Role

DOWNLOADABLE USER ROLES

Scalable and Integrated Wired/Wireless Policy Management

With Downloadable User Roles policy can be defined centrally in ClearPass and dynamically pushed to the switch at the time of authentication. By centralizing configuration of roles, administrative burden is removed from updating ACLs on switches spread throughout the enterprise. As IoT continues to enable the enterprise, these capabilities will allow for flexible, secure, and manageable deployment.

- 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

FLEXIBLE MANAGMENT

ArubaOS-Switch is architected for the future of campus networking. By supporting open and standards-based configuration, ArubaOS-Switch will support future integration needs.

- Zero-Touch-Provisioning (ZTP) simplifies installation of the switch infrastructure using Aruba Activate-based or DHCP-based process with AirWave Network Management.
- OpenFlow supports OpenFlow 1.3 specifications to enable SDN by allowing separation of the data (packet forwarding) and control (routing decision) paths
- Built-in programmable and easy to use REST API interface provides configuration automation for Mobile-first campus networks

ARUBA PROVISION ASIC

Over 20 Years of Experience Developing Networking ASICs

Architected with custom designed Aruba ProVision ASICs and rich feature sets, this portfolio delivers industry leading performance and programmability to meet tomorrow's demands for new application support and scalable performance for a better user experience.

- Designed for SDN
- 28nm 44M Gates (360M transistors)
- Gen 6 ASICs target for high performance
- Highly programmable ASIC
- Debug dedicated logic
- Latest technology embedded IP (DDR, static memory controller, high speed link, A9 dual core ARM)

LIMITED LIFETIME WARRANTY

Investment Protection with Warranty and NO Software Licensing

- Switches are delivered fully licensed for all network OS features
- 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