

SOLUTION BRIEF

CARRIER CLASS ARUBA WI-FI FOR OFFLOAD

THE ARUBA ADVANTAGES

Aruba's comprehensive and versatile wireless networking solution is built to support mobile operators' requirements, offering the following benefits to service providers:

- Flexibility, scalability, and reliability
 - Highly scalable and resilient deployment architectures that scale from sites with a single AP to high density stadiums and even entire cities
 - Flexibility of deployment with options for centralized, distributed and hybrid architectures with in-built redundancy
 - Indoor as well as outdoor access points with mesh networking options to tailor-fit the specific needs across different locations.
 - Performance and security
 - APs that deliver the highest performing Wi-Fi
 - Robust RF performance that ensures that each device is connected to the best AP possible using the optimal channel and power setting at all times
 - Security foundation for best in class protection with adaptive trust defense and intrusion detection and prevention to address today's security challenges
 - Low cost deployment and management
 - Zero-touch provisioning and inventory management to ease deployment
 - Centralized management, diagnostics and troubleshooting of multi-vendor wired and wireless networks across multiple remote locations for reduced Opex
 - Control and visibility
 - Granular access policy enforcement utilizing user, device, location, time and application context
 - Full visibility into the user experience to troubleshoot all networking and RF issues
 - Seamless services and monetization
 - Integration with the mobile core network to enable unified authentication, access policy enforcement, seamless mobility and feature parity over Wi-Fi
 - Support for Hotspot 2.0 to enable automated connectivity and roaming
- Support for open APIs for integration with the operator's OSS/BSS systems
 - Enhanced performance and visibility for Wi-Fi calling and messaging
 - Sophisticated guest access management and customized captive portals
 - Ability to monetize Wi-Fi with support for value-added services including analytics, mobile engagement and location-aware advertisements

WI-FI SOLUTION

From the smallest hotspots in quick-serve restaurants to the largest hot zones in stadiums and even entire cities, Wi-Fi access solutions from Aruba are the industry's easiest to provision and manage, and include a rich assortment of value-added services for monetization.

Simplified deployment and management

Controllerless Aruba Instant APs with Aruba Activate zero-touch provisioning fully automates deployment, firmware upgrades and inventory management to reduce Opex. Aruba AirWave network management provides full visibility of and complete control over the entire multivendor wired and wireless infrastructure from the mobile operator's network operations center. AirWave streamlines network operations with user location and mapping, real-time monitoring, proactive alerts, historical reports, and advanced remote troubleshooting capabilities, while Aruba Central provides a cloud based management option.

Seamless integration to the mobile core network

Aruba's carrier-class Wi-Fi solution provides seamless integration with the operator's core network, supporting options for unified authentication, trusted Wi-Fi integration and untrusted Wi-Fi integration. Communications between the Wi-Fi infrastructure and Wi-Fi gateways that interface with mobile core elements may be secured via GRE or IPsec tunnels. Aruba has strategic partnerships with several leading vendors for integration with Wi-Fi access gateway and AAA servers.

Robust performance

With Aruba's ClientMatch technology, mobile operators get maximum performance with no manual intervention. ClientMatch automatically and continuously ensures that every Wi-Fi device associates with the best AP at its optimal power setting and on the optimal channel, making

ClientMatch the most effective RF management technology available today. Further, the self-healing and airtime fairness algorithms maximize the quality of experience for all subscribers, at all times.

Value-added services for incremental revenue

Aruba's Analytics and Location Engine (ALE) offers a rich set of open APIs for detailed context and location information of the users on Wi-Fi, which can be integrated with the operator's existing big data and analytics systems. Aruba's mobile engagement solution provides granular location information for indoor navigation and push notifications. Aruba ClearPass includes support for visitor management, advertising, credit card billing, and security services.

CONCLUSION

Most mobile operators are already participating in the land grab for the best Wi-Fi hotspot and hot zone venues, and Aruba has both the industry-leading technology and proven best practices to maximize success in this ongoing endeavor. Aruba's carrier deployments today offload tens of terabytes of data on a daily basis, delivering immense value while also opening avenues for further monetization of Wi-Fi through value-added services.

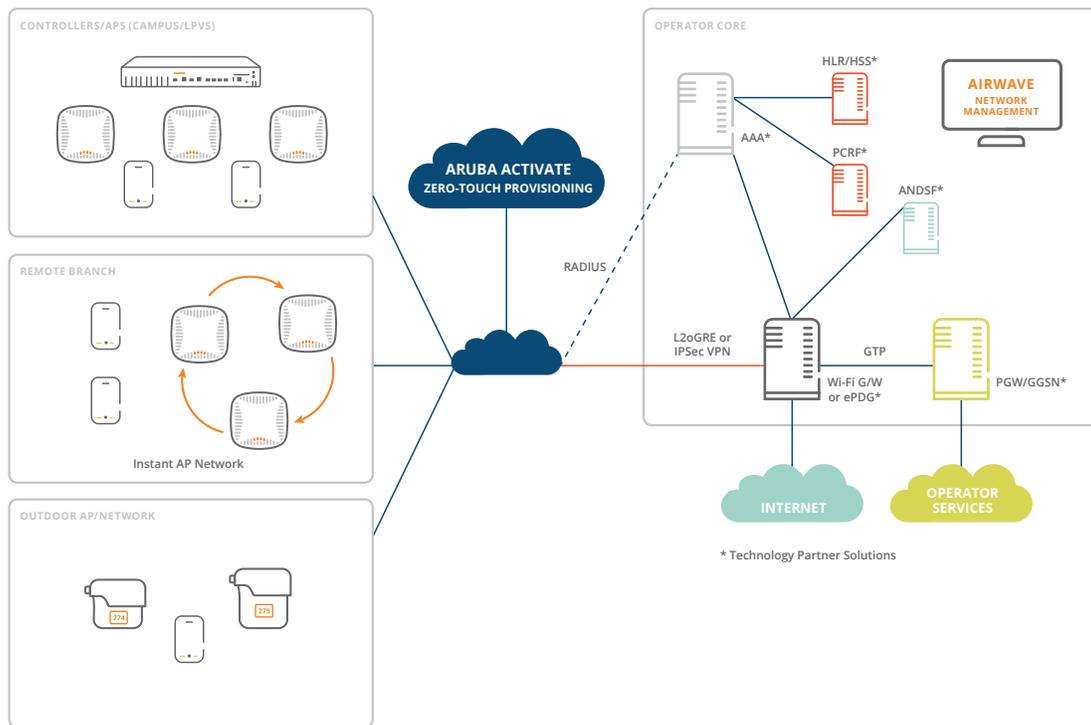


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Figure 1. Aruba's integrated offload solution architecture

