



Scalable WLAN Design & Implementation (SWDI) (01058544) HOLJ2S

This course builds upon concepts introduced in the Implementing Aruba WLAN course. SWDI covers content that will enable the student to understand and implement advanced topics included in Aruba's firewall features, such as policy design, authentication, and role derivation. Additionally, it covers subject material for building complex networks using Aruba's Remote APs and multi-controller environments based upon the Aruba Campus Wireless Networks Validated Reference Design for network design and redundancy.

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Price USD \$1,600

Links to local schedules, pricing and registration [US/Canada](#)
[Mexico/Latin America](#)
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HPE course # HOLJ2S

Category Networking

Duration 2 days

Prerequisites

Before attending this course:

- All students attending SWDI need to have completed the IAW course and/or achieved the ACMA certification
- Ability to provision an Aruba controller with multiple SSIDs, captive portal, and 802.1X

Course outline

Aruba architecture review

- The Aruba solution
- Aruba architecture and network design
- AP groups
- Lab equipment review
- Lab: Mobility controller setup Wizard
- Lab: Install licenses
- Lab: Configure and test WLANs

Wired access

- Secure Jack
- Wired Multiplexers
- Configuring Secure Jack operation
- Lab: Configuring Secure Jack on AP and controller
- Lab: Set up port policies and VLAN policies

RAP review

- RAP introduction
 - New platform
 - RAP2 and RAP5 deployment
 - Pre-staging certificate RAPs
 - Zero touch deployments
 - Post deployment
 - RAP uplink bandwidth reservation
 - Content Security Service (CSS)
- RAP local client access
- Troubleshooting
- Lab: Create ap group RAP for remote AP
- Lab: Create spilt-tunnel policy and assign it
- Lab: Populate whitelist
- Lab: Provision the RAP2
- Lab: Test RAP configuration

Virtual Internet Access (VIA)

- VIA introduction
- Configuration
- VIA requirements and installation
- VIA operations
- Troubleshooting
- Lab: Configure VIA access on controller
- Lab: Set up VIA client on laptop
- Lab: Test VIA access

Site-to-Site VPN

- Site-to-Site overview
- Configuration
- Troubleshooting
- Lab: Build VPN between controllers

Master/local operation

- Master/local benefits
- Inter-controller IPSec
- Controller specific AP groups
- Multi-controller AP configuration
- VLAN pooling
- Named VLANs
- AP termination
- Remote node operations
- Lab: Reprovisioning controllers for master/local operation
- Lab: Reprovisioning APs for master/local operation

Mobility

- 802.11 mobility review
- Single-controller vs multi-controller
- L2 vs. L3 mobility
- Understanding mobility domains
- Configuring mobility domains
- Lab: Configure L3 mobility and the home agent table

Master redundancy

- Understanding master redundancy
- Master redundancy DB synchronization
- Configuring master redundancy and VRRP
- Lab: Backup your controller's configuration
- Lab: Configure VRRP between the two controllers
- Lab: Configure master redundancy
- Lab: View master synchronization and test the redundancy operation

Local redundancy

- Types of AP redundancy
- Understanding N+1 redundancy
- Understanding active-active redundancy using VRRP
- Lab: Configuring local redundancy using active-active and VRRP
- Lab: Test failover scenario

Wireless intrusion prevention

- L1 attacks
- L2 attacks
- Rogue detection and containment
- Threats and countermeasures
- DoS attacks
- Surveillance
- Impersonation/Man-in-the-Middle
- Unauthorized device detection and containment
- Access Monitor
- Best practice
- Management of IDS events
- Rogue AP detection, location, and containment
- Lab: Air Monitor group creation and provisioning
- Lab: Rogue containment

RFProtect

- RFProtect features
- Access Points and Air Monitors
- Creating Air Monitors
- Rogue AP detection, location, and containment
- Rogue classification
- Configuring rule-based classification
- L3 Rogue classification
- Configuring containment
- Wireless client containment
- Wired containment
- Threats and countermeasures
- Configuring IDS using Wizard
- WebUI monitoring
- IDS events logging
- Lab: Air monitor group creation and provisioning
- Lab: Rogue containment

Mesh

- Mesh operations
- Mesh solutions
- Mesh clusters
- Configuration of Mesh portals, Mesh points
- Remote Mesh portal
- Mesh troubleshooting
- Lab: Set up a Mesh network

Learn more at

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