



WIRELESS LAN ASSOCIATION

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Wireless LAN Design Framework: Deploy

Implementing the WLAN design

1. Deployment Preparation

- 1.1. Review design documentation
- 1.2. Define installation plan
- 1.3. Confirm BOM & Inventory
 - 1.3.1. AP
 - 1.3.2. Antennas
 - 1.3.3. Enclosure
 - 1.3.4. Mounting fixtures
 - 1.3.5. WLAN Controllers / Management systems
- 1.4. Confirm required infrastructure is in place
 - 1.4.1. Switching / PoE
 - 1.4.2. AAA server
 - 1.4.3. Web content filtering
- 1.5. Define a naming convention

2. Installation

This may include some or all of the following:

- 2.1. Cabling and patching
- 2.2. Pre-staging
- 2.3. AP and antenna mounting / orientation
- 2.4. Physical / virtual WLAN control and management appliances
- 2.5. Network devices

3. Configuration

This may include some or all of the following:

- 3.1. WLAN Profiles
- 3.2. Channel/Power/RRM settings as outlined in the design documentation
- 3.3. Implementing features (redundancy, proprietary features)
- 3.4. Implementing supporting services (DHCP, DNS, WNMS, etc)

4. Deployment Documentation

Throughout the deployment process, the documentation must be continuously updated and can include:

- 4.1. Document cabling
- 4.2. Document APs and antennas
- 4.3. Serial numbers / MAC address
- 4.4. Location / maps
- 4.5. Cable / switch port
- 4.6. Document WLAN system installation and configuration
- 4.7. Infrastructure equipment
- 4.8. Licensing
- 4.9. Configuration backup

5. Validation

- 5.1. Validate Physical Installation
 - 5.1.1. Cabling and patching
 - 5.1.2. AP and antenna mounting / orientation
 - 5.1.3. Physical / virtual WLAN control and management appliances
 - 5.1.4. Network devices
- 5.2. Validate RF
 - 5.2.1. Coverage (RSSI, primary, secondary coverage)
 - 5.2.2. SNR
 - 5.2.3. Co-channel interference
 - 5.2.4. Spectrum
 - 5.2.5. Channel plans
- 5.3. Validate Performance
 - 5.3.1. Application (iperf, Ixcharriot, or other simulations)
 - 5.3.2. Connectivity
 - 5.3.3. Roaming
 - 5.3.4. Special features (prop, redundancy)
 - 5.3.5. Network supporting services (DHCP, DNS, AAA, CP, web cache / filter)

6. Document Validation

May include any, or all, of the following:

- 6.1. Test plan
- 6.2. Test results
- 6.3. Inventory