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Wireless LAN Design Framework: Design

Create a wireless network to meet customer requirements

1. Understand RF and Design Requirements

2. Design

Depending on the project, the design exercise may include the following:

- 2.1. Prepare floor plans
- 2.2. AP and Antenna selection
- 2.3. Predictive RF Model
- 2.4. Gather on-site data
 - 2.4.1. Measure wall attenuation
 - 2.4.2. APoS
 - 2.4.3. Client Measurements
- 2.5. Design using (on-site measured) data

3. Configuration Recommendations

The following topics may also require consideration:

- 3.1.1. Define channel, power & RRM settings
- 3.1.2. QoS (CoS, DSCP, WMM, MOS), end-to-end
- 3.1.3. SSIDs
- 3.1.4. Security: RBAC, authentication, captive portals, and guest access
- 3.1.5. Required network services: DHCP, DNS, PoE, etc.

4. Design Documents and Deliverables

Design and Installation documentation may include:

- 4.1.1. Heatmaps
- 4.1.2. Spectrum
- 4.1.3. Bill of materials
- 4.1.4. Cabling floor plans / maps
- 4.1.5. Move add and changes to topology
- 4.1.6. Pictures, mounting locations
- 4.1.7. Configurations
- 4.1.8. Training customer or third-party subcontractor