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Project description

The AP placement and signal strength predictions are based on assumptions made for signal propagation through interior wall materials. Based on those assumptions there will be a greater margin of error between the prediction and what may be experienced.

Interior wall material was set as wood stud and drywall.

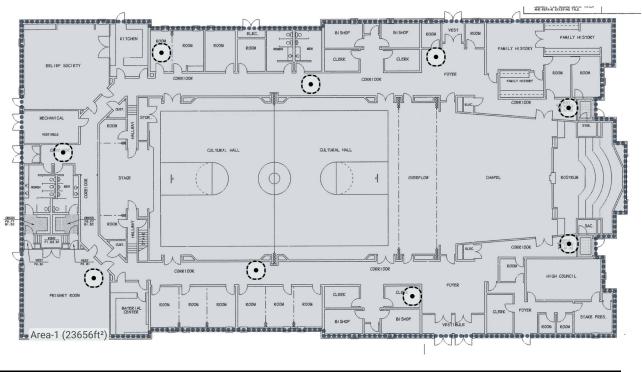
Without measured attenuation and AP signal deviation measurements, the actual signal propagation will vary.

The AP placement was made based on optimizing 5 GHz signals for primary signal strength. Secondary coverage was not a requirement.

The C9172I access point is represented in this prediction.

Standard Plan - Legacy - Floor Plan

Survey routes and Access Points for Standard Plan - Legacy - Floor Plan



| View as / Project Offset: | Mobile Device |
|---------------------------|---------------|
| | |

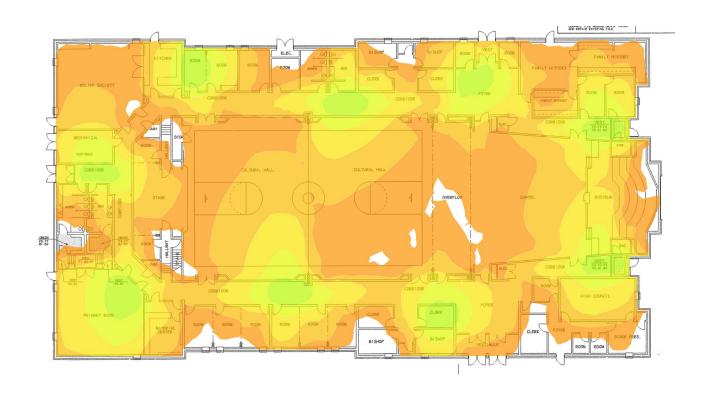
Area-1 (23,656 ft²)

| Coverage Requirement: Ekahau Best Practices | | | |
|---|-------------------------------|------------------|--|
| 2.4 GHz | Signal Strength Min | -76.0 dBm | |
| | Signal-to-Noise Ratio Min | 20.0 dB | |
| | Data Rate Min | 24 Mbps | |
| | Channel Interference Max | 2 at min85.0 dBm | |
| | Round Trip Time (RTT) Max | 200 ms | |
| | Packet Loss Max | 0.0 % | |
| 5 GHz | Signal Strength Min | -76.0 dBm | |
| | Secondary Signal Strength Min | -67.0 dBm | |
| | Signal-to-Noise Ratio Min | 25.0 dB | |
| | Data Rate Min | 24 Mbps | |
| | Channel Interference Max | 1 at min85.0 dBm | |

| | Round Trip Time (RTT) Max | 200 ms | |
|----------------------|-----------------------------------|------------------|--|
| | Packet Loss Max | 0.0 % | |
| 6 GHz | Signal Strength Min | -76.0 dBm | |
| | Secondary Signal Strength Min | -67.0 dBm | |
| | Signal-to-Noise Ratio Min | 25.0 dB | |
| | Data Rate Min | 24 Mbps | |
| | Channel Interference Max | 1 at min85.0 dBm | |
| | Round Trip Time (RTT) Max | 200 ms | |
| | Packet Loss Max | 0.0 % | |
| Capacity Requirement | | | |
| | No capacity devices for this area | | |
| | | | |
| Notes | | | |
| | | | |

Signal Strength for Standard Plan - Legacy - Floor Plan on 2.4 GHz band

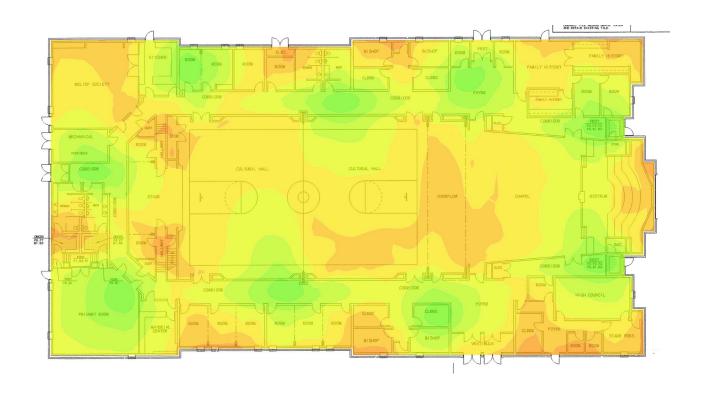
Signal Strength - sometimes called coverage - is the most basic requirement for a wireless network. As a general guideline, low signal strength means unreliable connections, and low data throughput.



-75 dBm ≥ -30 dBm

Signal Strength for Standard Plan - Legacy - Floor Plan on 5 GHz band

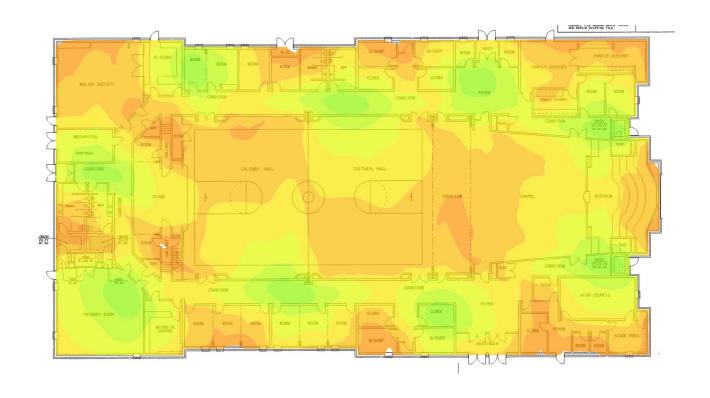
Signal Strength - sometimes called coverage - is the most basic requirement for a wireless network. As a general guideline, low signal strength means unreliable connections, and low data throughput.



-75 dBm ≥ -30 dBm

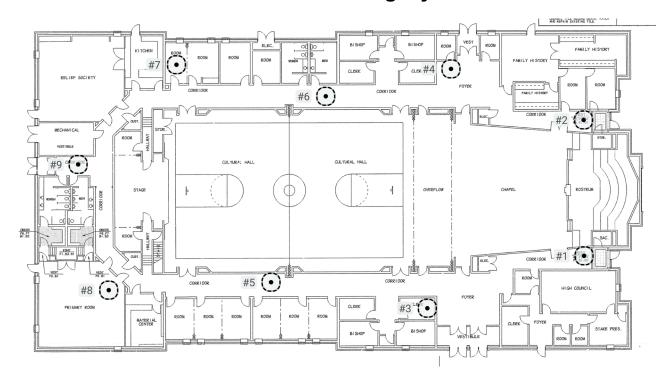
Signal Strength for Standard Plan - Legacy - Floor Plan on 6 GHz band

Signal Strength - sometimes called coverage - is the most basic requirement for a wireless network. As a general guideline, low signal strength means unreliable connections, and low data throughput.



-75 dBm ≥ -30 dBm

Access Points on Standard Plan - Legacy - Floor Plan



Access Points on Standard Plan - Legacy - Floor Plan

Simulated Access Points on Standard Plan - Legacy - Floor Plan

| AP# | Access Point | | | | |
|-----|------------------|-----------------|---------------|----------------------|--|
| 1 | Simulated AP-001 | | Cisco CW9172I | | |
| | Wi-Fi 7 | 1 | 8.0 dBm | Cisco CW9172I 2.4GHz | |
| | Wi-Fi 7 | 36 | 14.0 dBm | Cisco CW9172I 5GHz | |
| | Wi-Fi 7 | 1@80 (6 GHz) | 14.0 dBm | Cisco CW9172I 6GHz | |
| | Bluetooth | - | 0.0 dBm | Cisco CW9172I BLE | |
| 2 | Simulated AP-002 | | Cisco CW9172I | | |
| | Wi-Fi 7 | 1 | 8.0 dBm | Cisco CW9172I 2.4GHz | |
| | Wi-Fi 7 | 36 | 14.0 dBm | Cisco CW9172I 5GHz | |
| | Wi-Fi 7 | 1@80 (6 GHz) | 14.0 dBm | Cisco CW9172I 6GHz | |
| | Bluetooth | - | 0.0 dBm | Cisco CW9172I BLE | |
| 3 | Simulated AP-003 | | Cisco CW9172I | | |
| | Wi-Fi 7 | 1 | 8.0 dBm | Cisco CW9172I 2.4GHz | |
| | Wi-Fi 7 | 36 | 14.0 dBm | Cisco CW9172I 5GHz | |
| | Wi-Fi 7 | 1@80 (6 GHz) | 14.0 dBm | Cisco CW9172I 6GHz | |
| | Bluetooth | - | 0.0 dBm | Cisco CW9172I BLE | |
| 4 | Simulated AP-004 | | Cisco CW9172I | | |
| | Wi-Fi 7 | 1 | 8.0 dBm | Cisco CW9172I 2.4GHz | |
| | Wi-Fi 7 | 36 | 14.0 dBm | Cisco CW9172I 5GHz | |
| | Wi-Fi 7 | 1@80 (6 GHz) | 14.0 dBm | Cisco CW9172I 6GHz | |
| | Bluetooth | - | 0.0 dBm | Cisco CW9172I BLE | |
| 5 | Simulated AP-005 | | Cisco CW9172I | | |
| | Wi-Fi 7 | 1 | 8.0 dBm | Cisco CW9172I 2.4GHz | |
| | Wi-Fi 7 | 36 | 14.0 dBm | Cisco CW9172I 5GHz | |
| | Wi-Fi 7 | 1@80 (6 GHz) | 14.0 dBm | Cisco CW9172I 6GHz | |

| | Bluetooth | - | 0.0 dBm | Cisco CW9172I BLE |
|---|------------------|-----------------|---------------|----------------------|
| 6 | Simulated AP-006 | | Cisco CW9172I | |
| | Wi-Fi 7 | 1 | 8.0 dBm | Cisco CW9172I 2.4GHz |
| | Wi-Fi 7 | 36 | 14.0 dBm | Cisco CW9172I 5GHz |
| | Wi-Fi 7 | 1@80 (6 GHz) | 14.0 dBm | Cisco CW9172I 6GHz |
| | Bluetooth | - | 0.0 dBm | Cisco CW9172I BLE |
| 7 | Simulated AP-007 | | Cisco CW9172I | |
| | Wi-Fi 7 | 1 | 8.0 dBm | Cisco CW9172I 2.4GHz |
| | Wi-Fi 7 | 36 | 14.0 dBm | Cisco CW9172I 5GHz |
| | Wi-Fi 7 | 1@80 (6 GHz) | 14.0 dBm | Cisco CW9172I 6GHz |
| | Bluetooth | - | 0.0 dBm | Cisco CW9172I BLE |
| 8 | Simulated AP-008 | | Cisco CW9172I | |
| | Wi-Fi 7 | 1 | 8.0 dBm | Cisco CW9172I 2.4GHz |
| | Wi-Fi 7 | 36 | 14.0 dBm | Cisco CW9172I 5GHz |
| | Wi-Fi 7 | 1@80 (6 GHz) | 14.0 dBm | Cisco CW9172I 6GHz |
| | Bluetooth | - | 0.0 dBm | Cisco CW9172I BLE |
| 9 | Simulated AP-009 | | Cisco CW9172I | |
| | Wi-Fi 7 | 1 | 8.0 dBm | Cisco CW9172I 2.4GHz |
| | Wi-Fi 7 | 36 | 14.0 dBm | Cisco CW9172I 5GHz |
| | Wi-Fi 7 | 1@80 (6 GHz) | 14.0 dBm | Cisco CW9172I 6GHz |
| | Bluetooth | - | 0.0 dBm | Cisco CW9172I BLE |