Example Network Design Report

This is an example report created with Ekahau Site Survey Pro.

You can freely customize the MS Word Template, and ESS will generate the report based on the template.

# Customer Requirements

## Coverage Requirements

|  |  |  |
| --- | --- | --- |
| signal strength at least | -70.0 dBm |  |
| signal-to-noise ratio at least | 15.0 dB |  |
| data rate at least | 6 Mbps |  |
| number of access points at least | 2 | when signal strength at least -80.0 dBm |
| ping round trip time at most | 200.0 ms |  |
| Packet loss at most | 5.0 % |  |

## Capacity Requirements

|  |  |
| --- | --- |
| Amount | Device |
| 900 | Laptop |
| 600 | AC Smartphone |
| 50 | Tablet |

# Coverage Areas

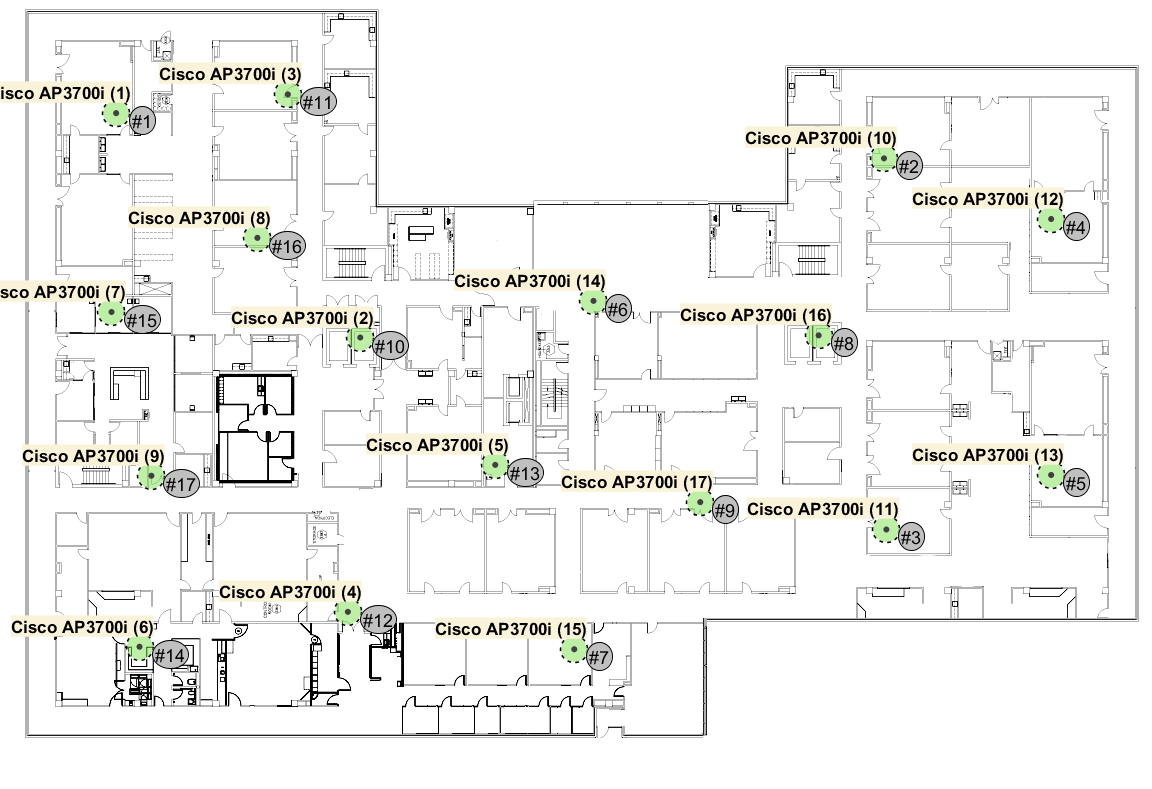
|  |  |  |
| --- | --- | --- |
| Map | Name | Coverage Area |
| alternative | Floor 1 | 3,458.1 m² |
| alternative | Floor 2 | 2,471.6 m² |
| alternative | Floor 3 | 2,433.9 m² |

Total coverage area: 8,363.6 m²

# Map Floor 1

## Survey Routes and AP Locations

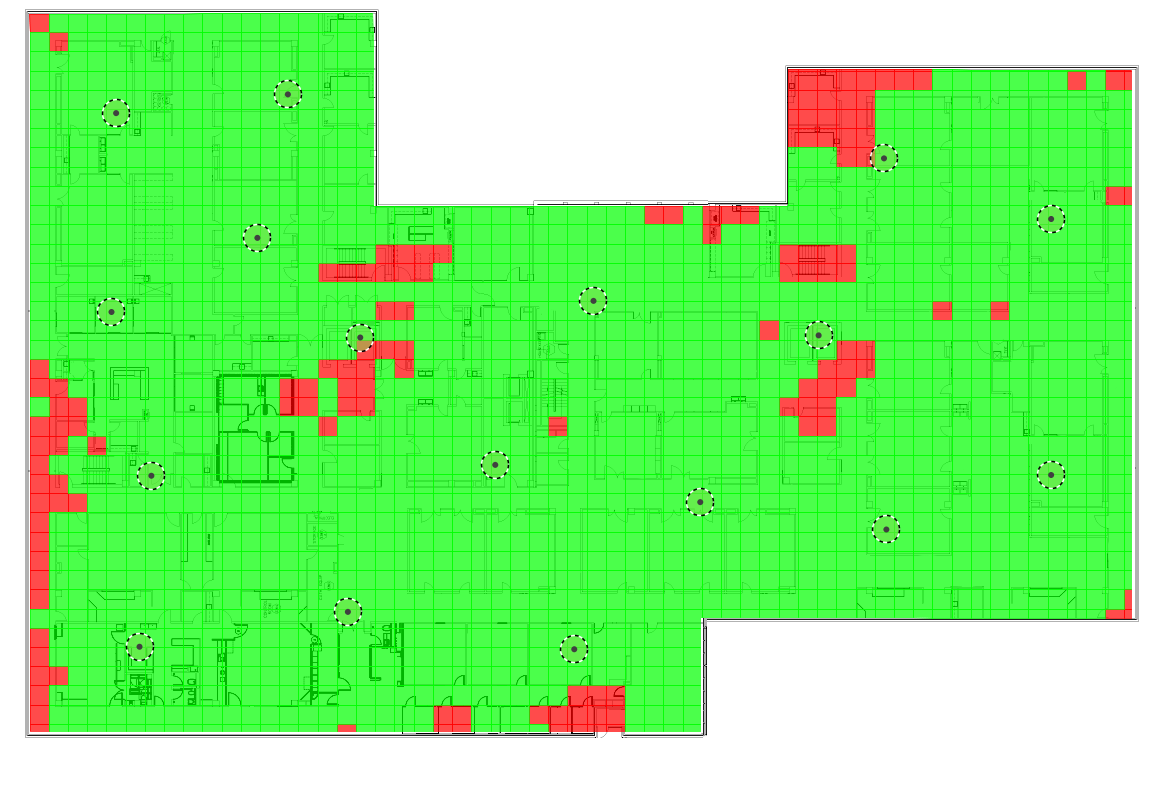
### Access Point Locations



|  |  |
| --- | --- |
| Access Points | |
| Name: **Cisco AP3700i (1)** (#1) | Notes: |
| Radio on channel: **6**  Networks:  Radio on channel: **36**  Networks: | |
| Name: **Cisco AP3700i (10)** (#2) | Notes: |
| Radio on channel: **1**  Networks:  Radio on channel: **104**  Networks: | |
| Name: **Cisco AP3700i (11)** (#3) | Notes: |
| Radio on channel: **11**  Networks:  Radio on channel: **64**  Networks: | |
| Name: **Cisco AP3700i (12)** (#4) | Notes: |
| Radio on channel: **11**  Networks:  Radio on channel: **44**  Networks: | |
| Name: **Cisco AP3700i (13)** (#5) | Notes: |
| Radio on channel: **1**  Networks:  Radio on channel: **108**  Networks: | |
| Name: **Cisco AP3700i (14)** (#6) | Notes: |
| Radio on channel: **11**  Networks:  Radio on channel: **52**  Networks: | |
| Name: **Cisco AP3700i (15)** (#7) | Notes: |
| Radio on channel: **11**  Networks:  Radio on channel: **104**  Networks: | |
| Name: **Cisco AP3700i (16)** (#8) | Notes: |
| Radio on channel: **6**  Networks:  Radio on channel: **136**  Networks: | |
| Name: **Cisco AP3700i (17)** (#9) | Notes: |
| Radio on channel: **1**  Networks:  Radio on channel: **116**  Networks: | |
| Name: **Cisco AP3700i (2)** (#10) | Notes: |
| Radio on channel: **11**  Networks:  Radio on channel: **60**  Networks: | |
| Name: **Cisco AP3700i (3)** (#11) | Notes: |
| Radio on channel: **11**  Networks:  Radio on channel: **56**  Networks: | |
| Name: **Cisco AP3700i (4)** (#12) | Notes: |
| Radio on channel: **1**  Networks:  Radio on channel: **124**  Networks: | |
| Name: **Cisco AP3700i (5)** (#13) | Notes: |
| Radio on channel: **6**  Networks:  Radio on channel: **40**  Networks: | |
| Name: **Cisco AP3700i (6)** (#14) | Notes: |
| Radio on channel: **11**  Networks:  Radio on channel: **112**  Networks: | |
| Name: **Cisco AP3700i (7)** (#15) | Notes: |
| Radio on channel: **11**  Networks:  Radio on channel: **100**  Networks: | |
| Name: **Cisco AP3700i (8)** (#16) | Notes: |
| Radio on channel: **1**  Networks:  Radio on channel: **120**  Networks: | |
| Name: **Cisco AP3700i (9)** (#17) | Notes: |
| Radio on channel: **6**  Networks:  Radio on channel: **48**  Networks: | |

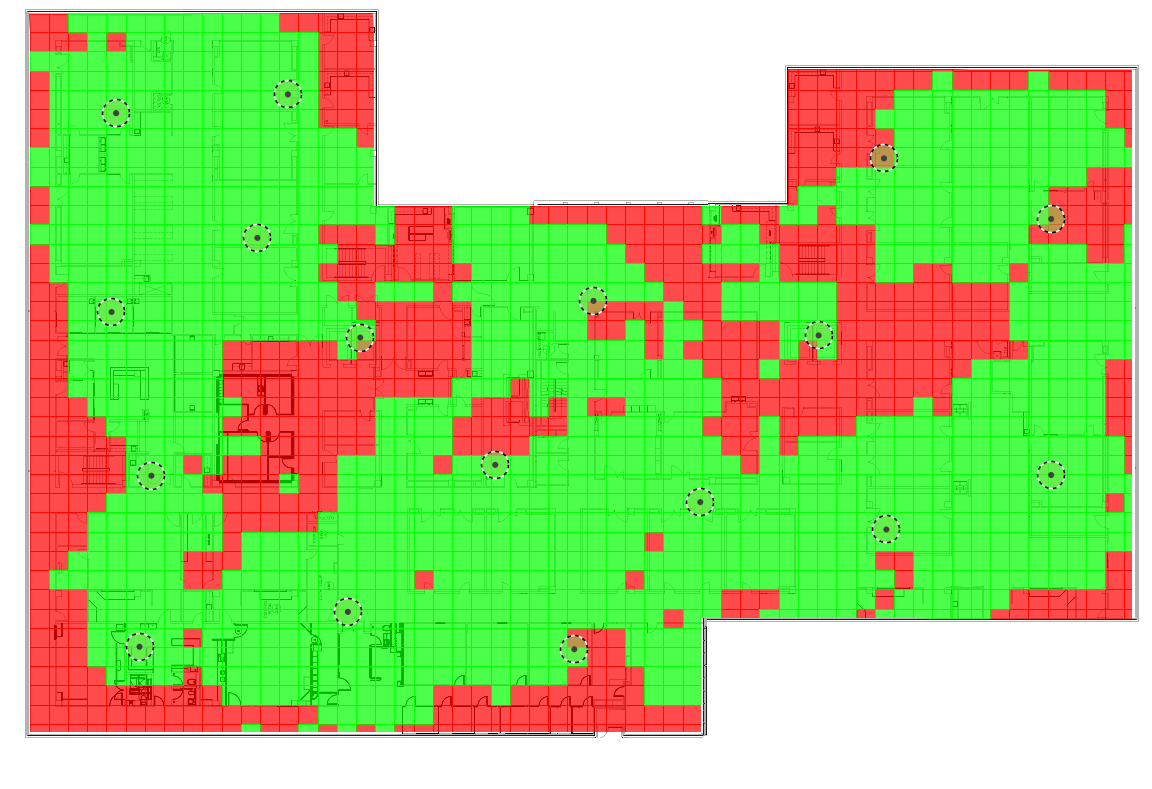
## Network Health

### 2,4 GHz



alternative

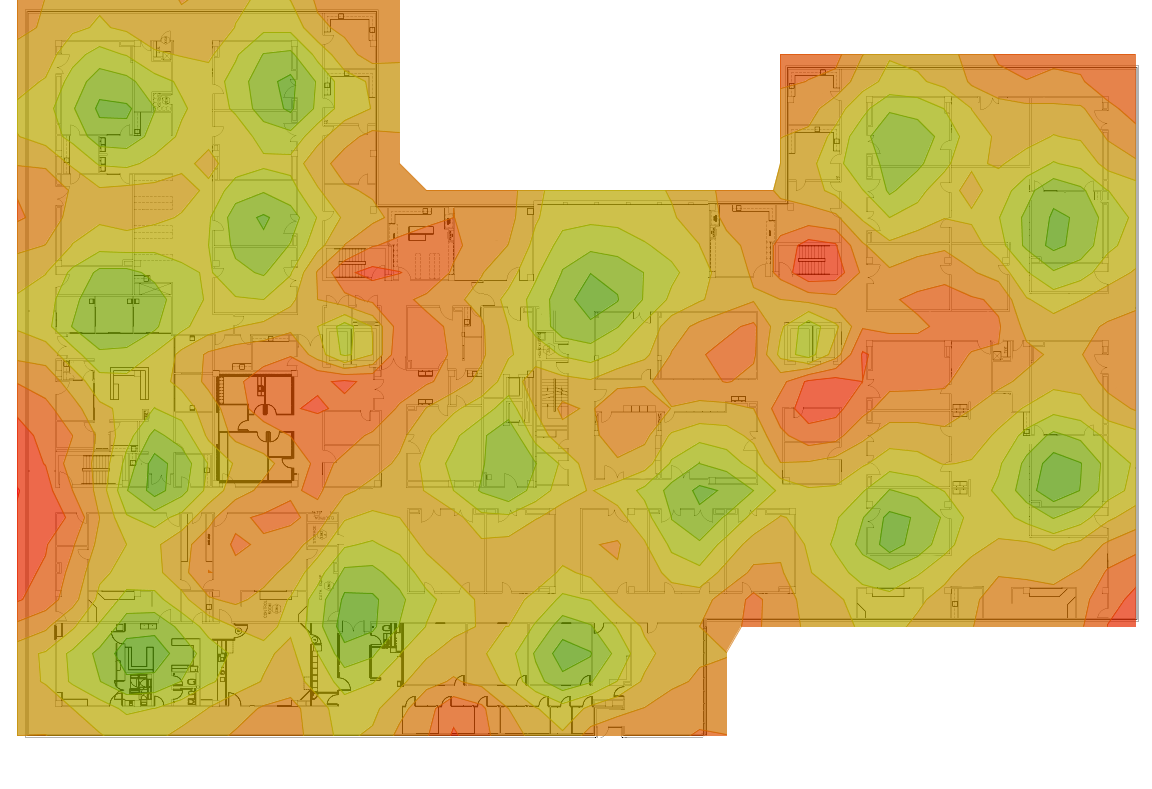
### 5 GHz



alternative

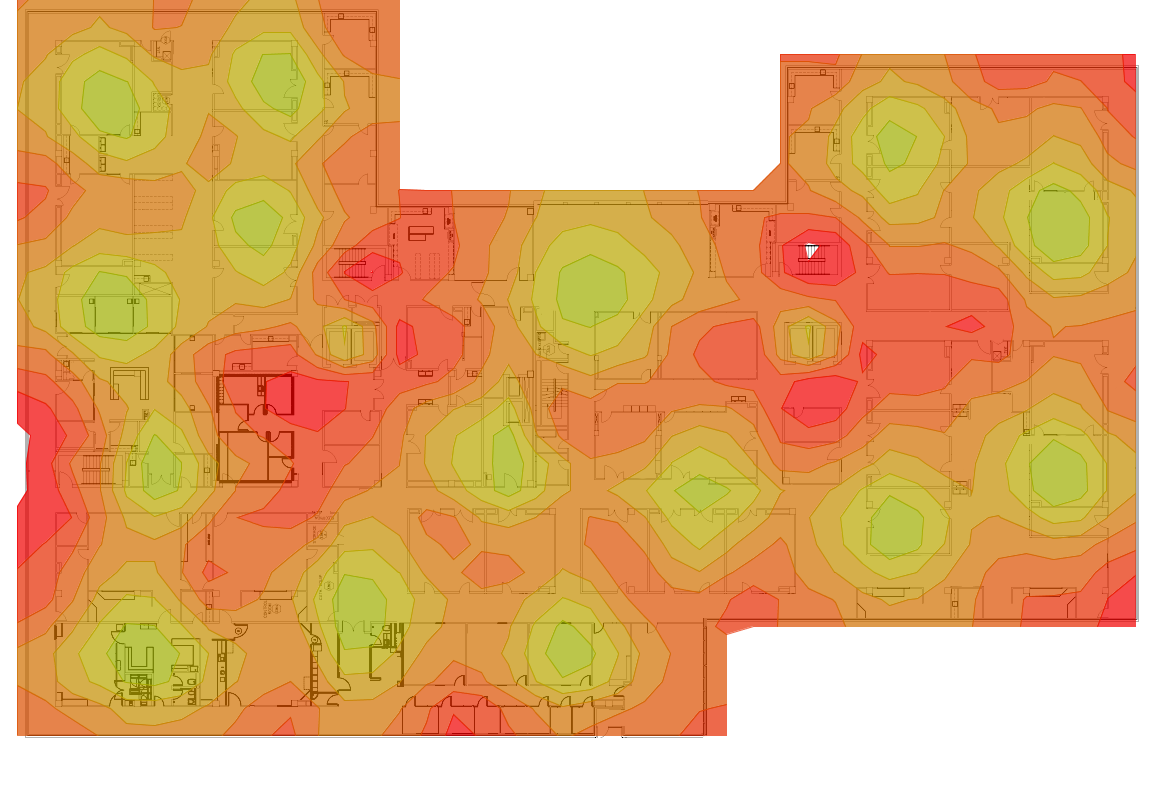
## Coverage, Interference and SNR

### Signal Strength 2.4 GHz



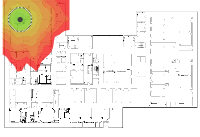
alternative

### Signal Strength 5 GHz

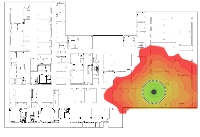


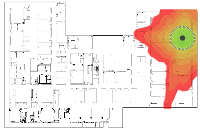
alternative

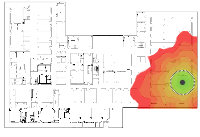
#### Per-Access Point Coverage 2.4 GHz

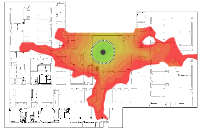
Cisco AP3700i (1) @ Channel 6  


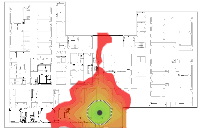
Cisco AP3700i (10) @ Channel 1  


Cisco AP3700i (11) @ Channel 11  


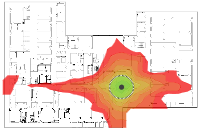
Cisco AP3700i (12) @ Channel 11  


Cisco AP3700i (13) @ Channel 1  


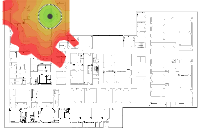
Cisco AP3700i (14) @ Channel 11  


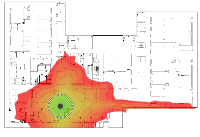
Cisco AP3700i (15) @ Channel 11  


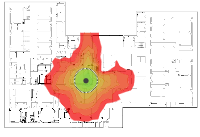
Cisco AP3700i (16) @ Channel 6  

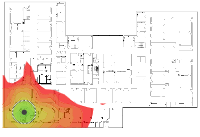

Cisco AP3700i (17) @ Channel 1  


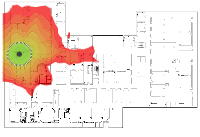
Cisco AP3700i (2) @ Channel 11  

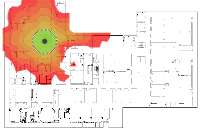

Cisco AP3700i (3) @ Channel 11  


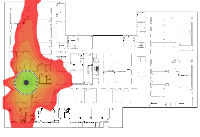
Cisco AP3700i (4) @ Channel 1  


Cisco AP3700i (5) @ Channel 6  


Cisco AP3700i (6) @ Channel 11  


Cisco AP3700i (7) @ Channel 11  


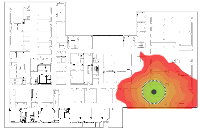
Cisco AP3700i (8) @ Channel 1  


Cisco AP3700i (9) @ Channel 6  


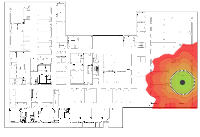
#### Per-Access Point Coverage 5 GHz

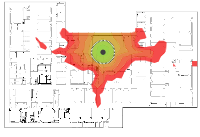
Cisco AP3700i (1) @ Channel 36  

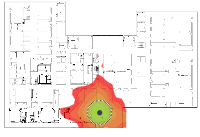

Cisco AP3700i (10) @ Channel 104  


Cisco AP3700i (11) @ Channel 64  


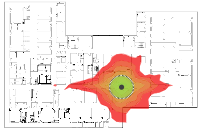
Cisco AP3700i (12) @ Channel 44  


Cisco AP3700i (13) @ Channel 108  


Cisco AP3700i (14) @ Channel 52  


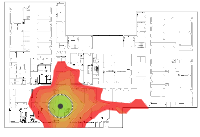
Cisco AP3700i (15) @ Channel 104  


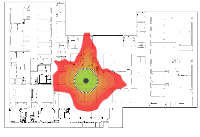
Cisco AP3700i (16) @ Channel 136  


Cisco AP3700i (17) @ Channel 116  


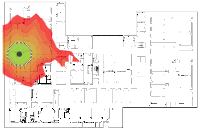
Cisco AP3700i (2) @ Channel 60  

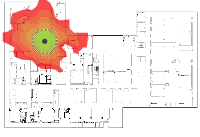

Cisco AP3700i (3) @ Channel 56  


Cisco AP3700i (4) @ Channel 124  


Cisco AP3700i (5) @ Channel 40  


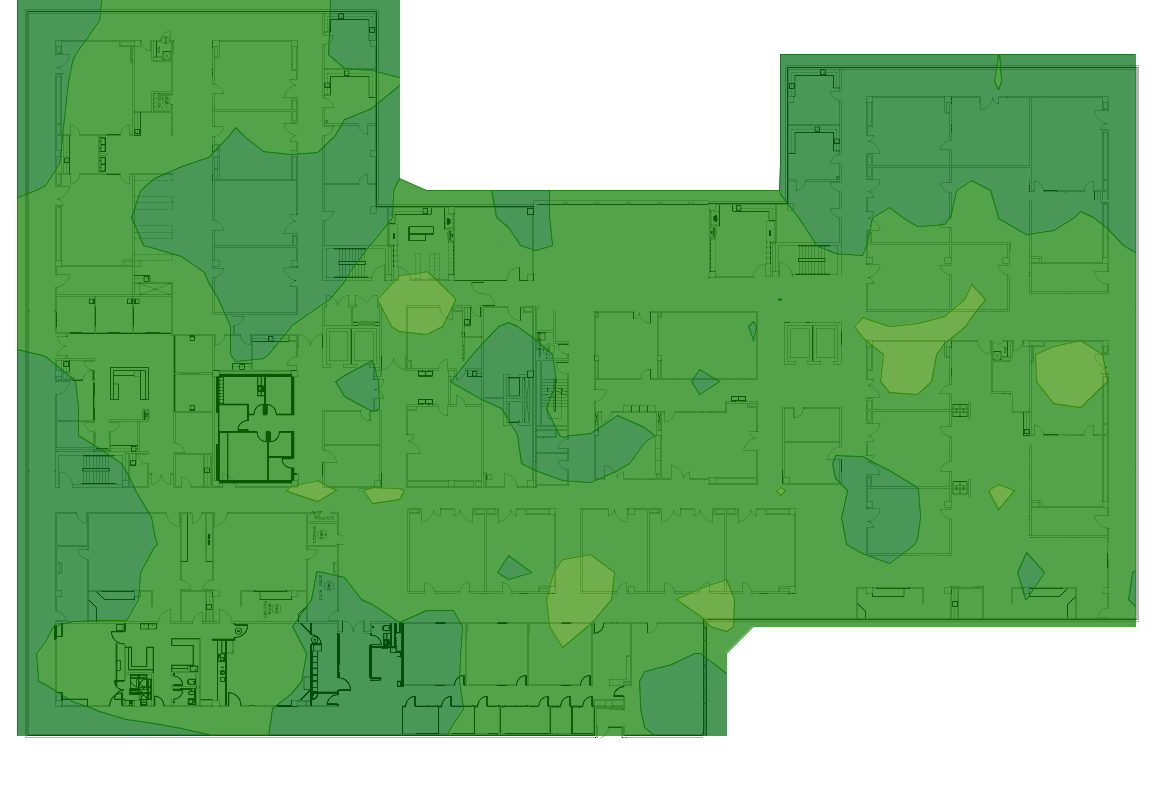
Cisco AP3700i (6) @ Channel 112  


Cisco AP3700i (7) @ Channel 100  


Cisco AP3700i (8) @ Channel 120  


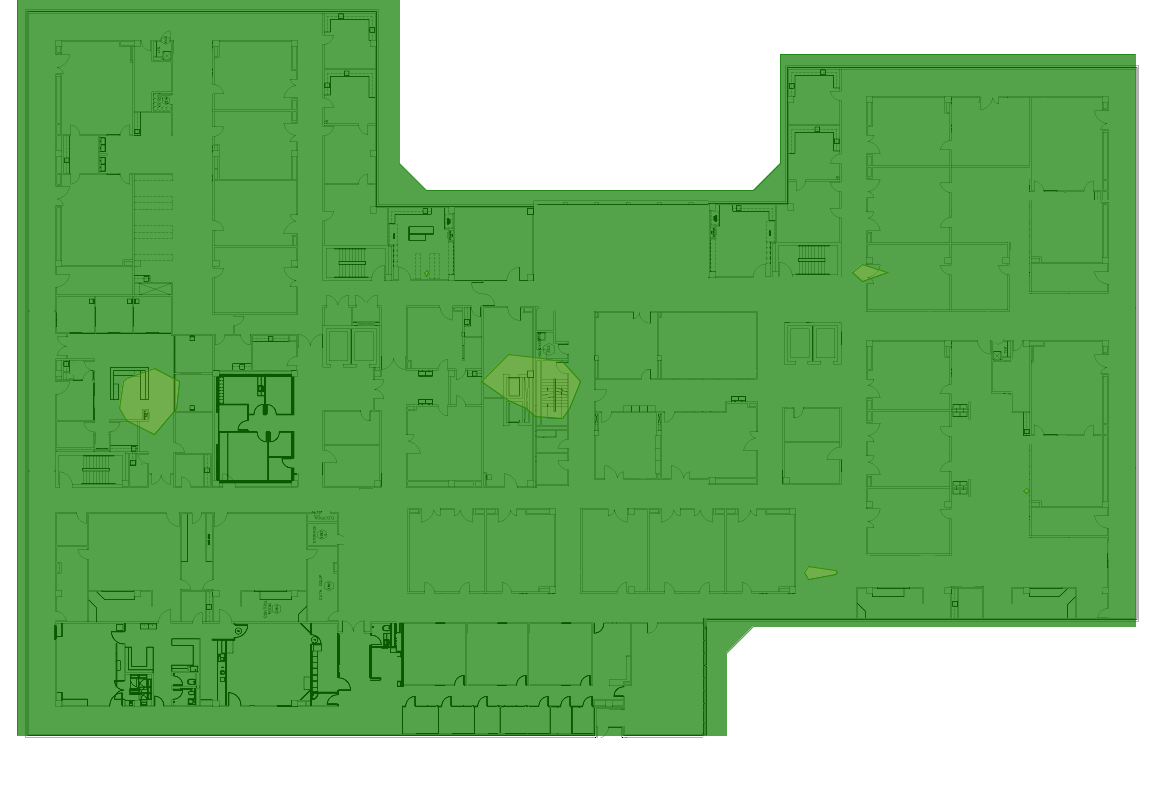
Cisco AP3700i (9) @ Channel 48  


### Interference 2.4 GHz



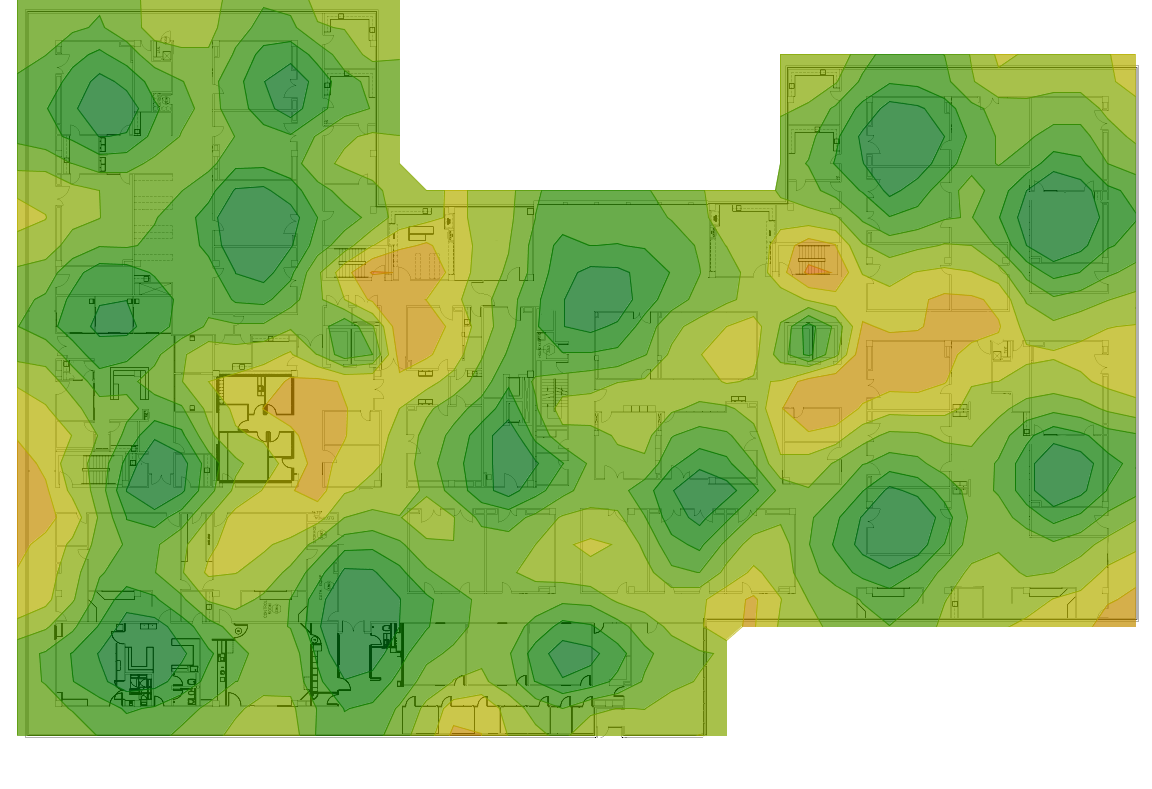
alternative

### Interference 5 GHz



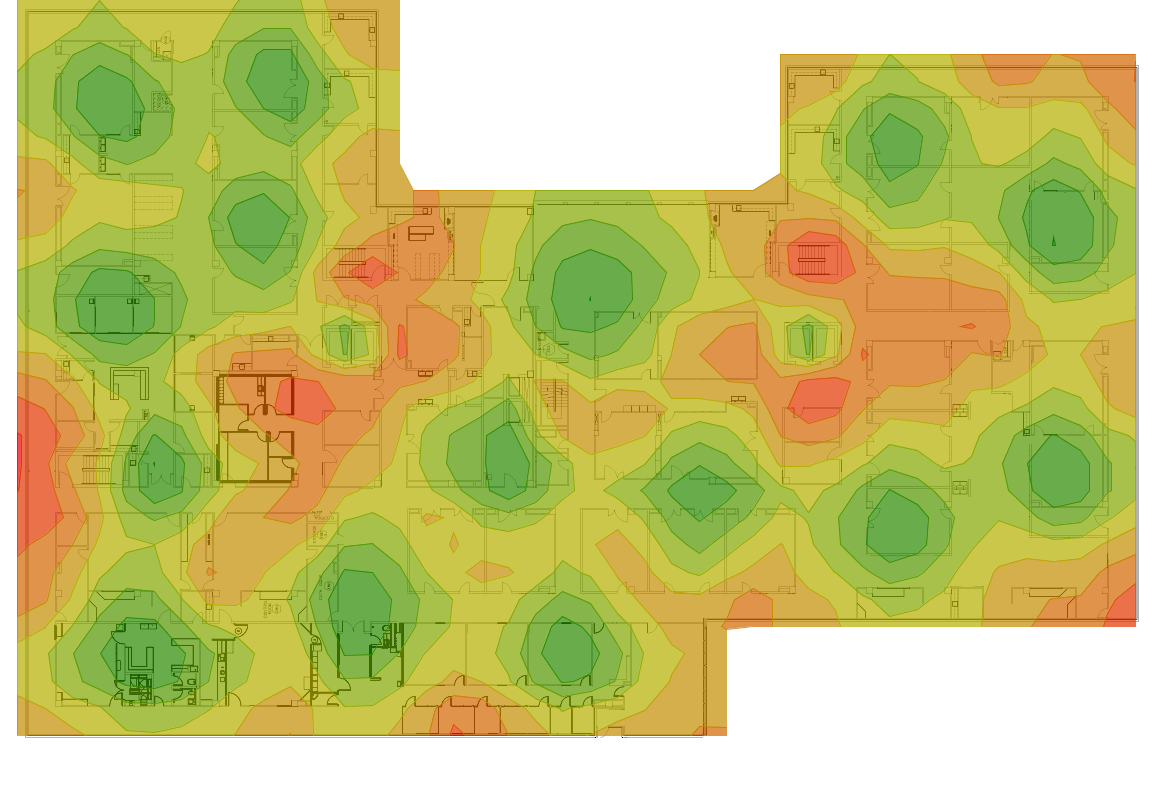
alternative

### SNR 2.4 GHz



alternative

### SNR 5 GHz

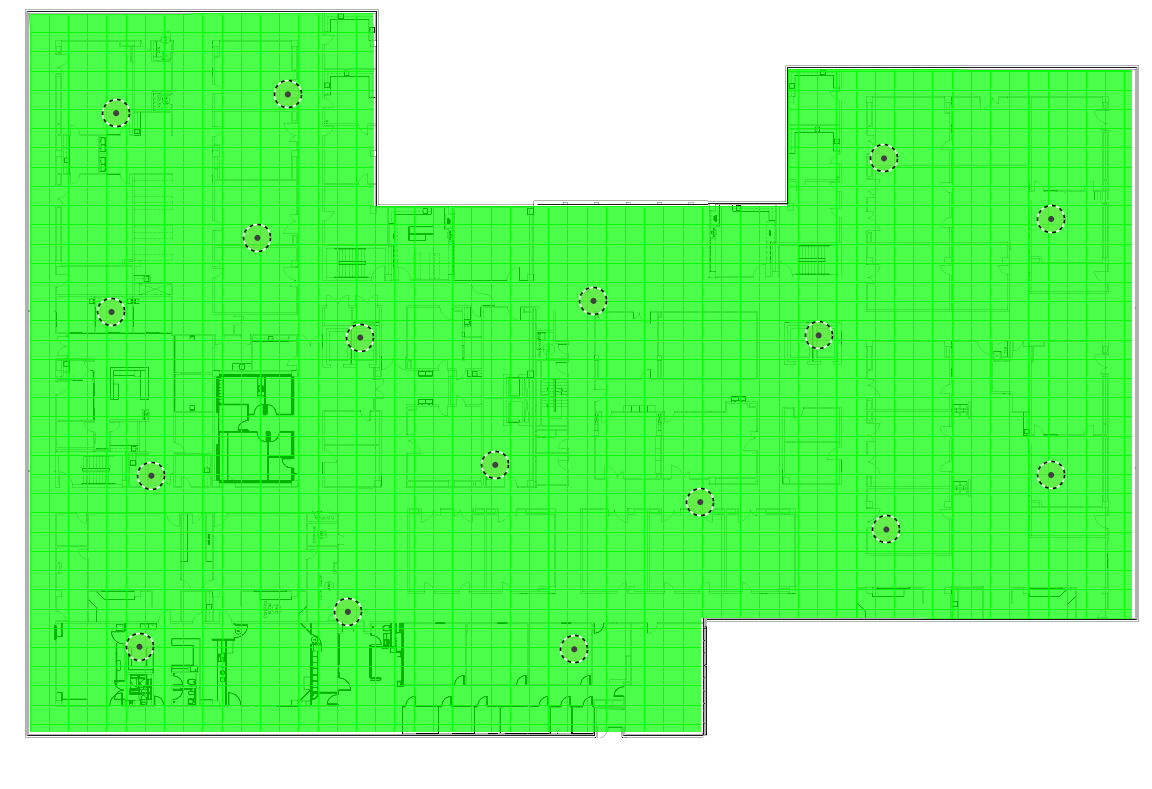


alternative

## Capacity

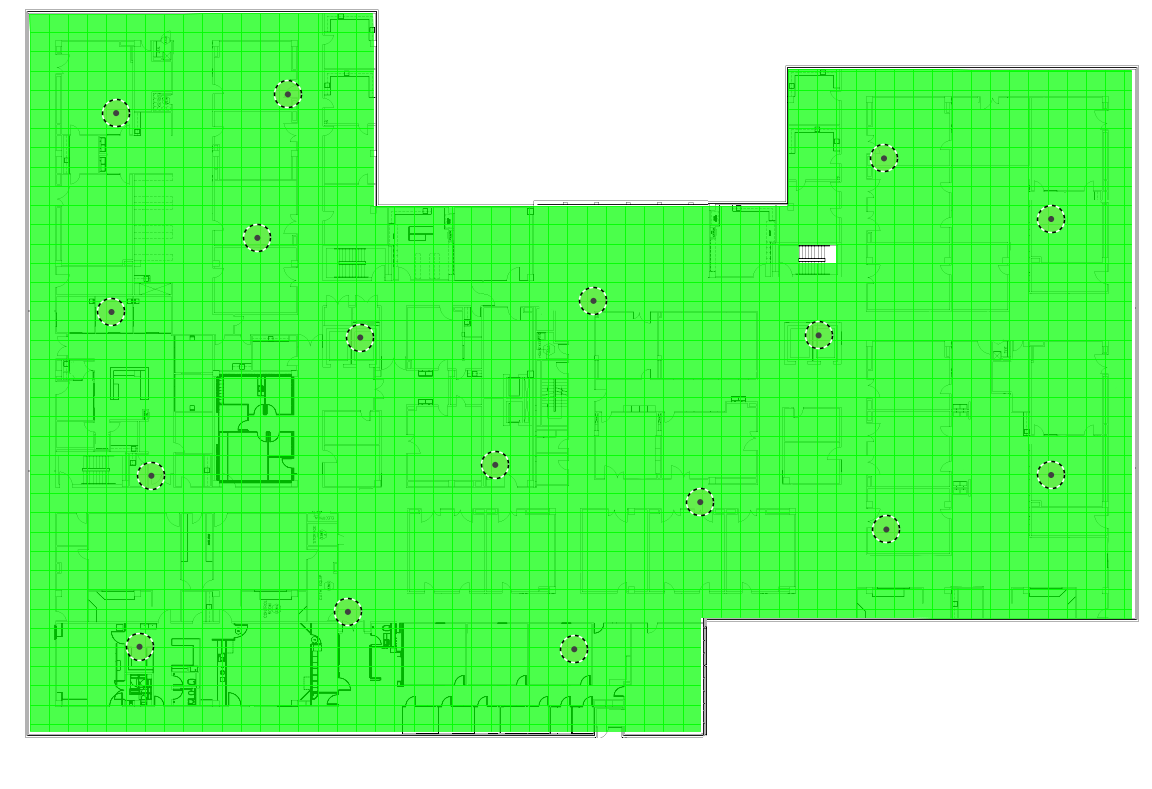
|  |  |
| --- | --- |
| Number of devices on this floor | Device |
| 372 / 900 | Laptop |
| 248 / 600 | AC Smartphone |
| 21 / 50 | Tablet |

### Capacity Health 2,4 GHz



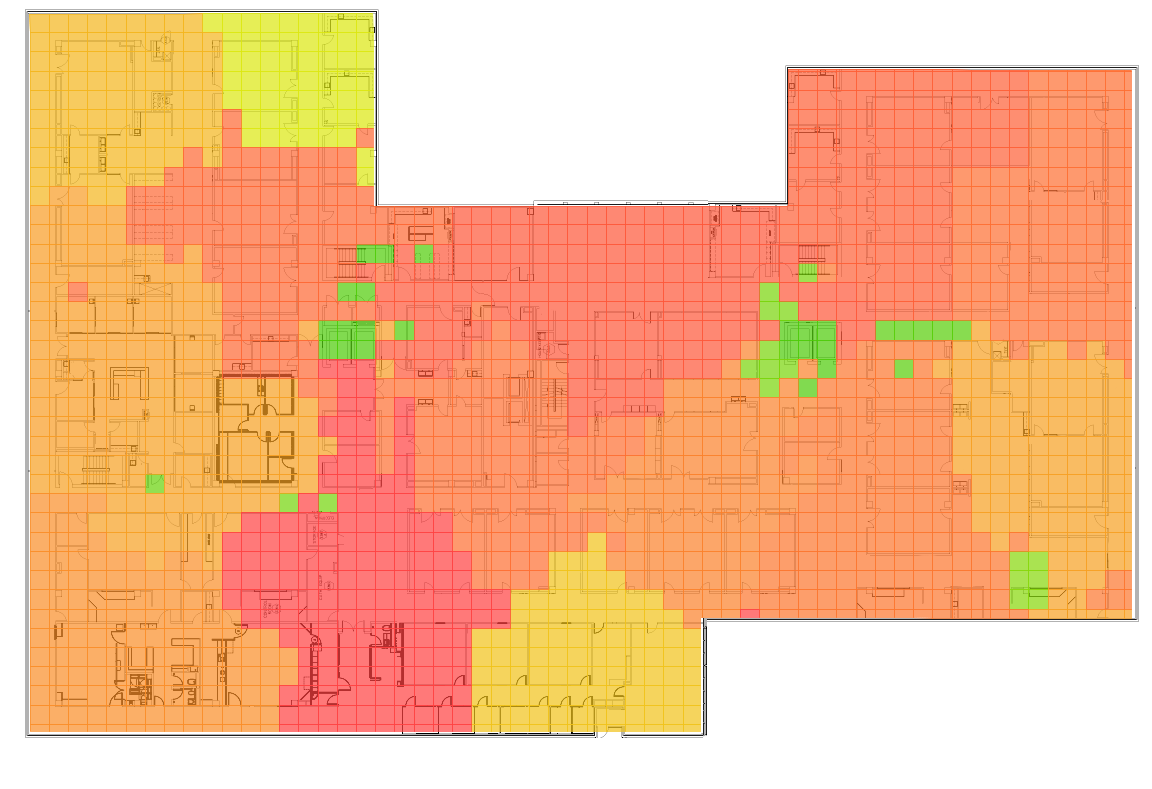
alternative

### Capacity Health 5 GHz



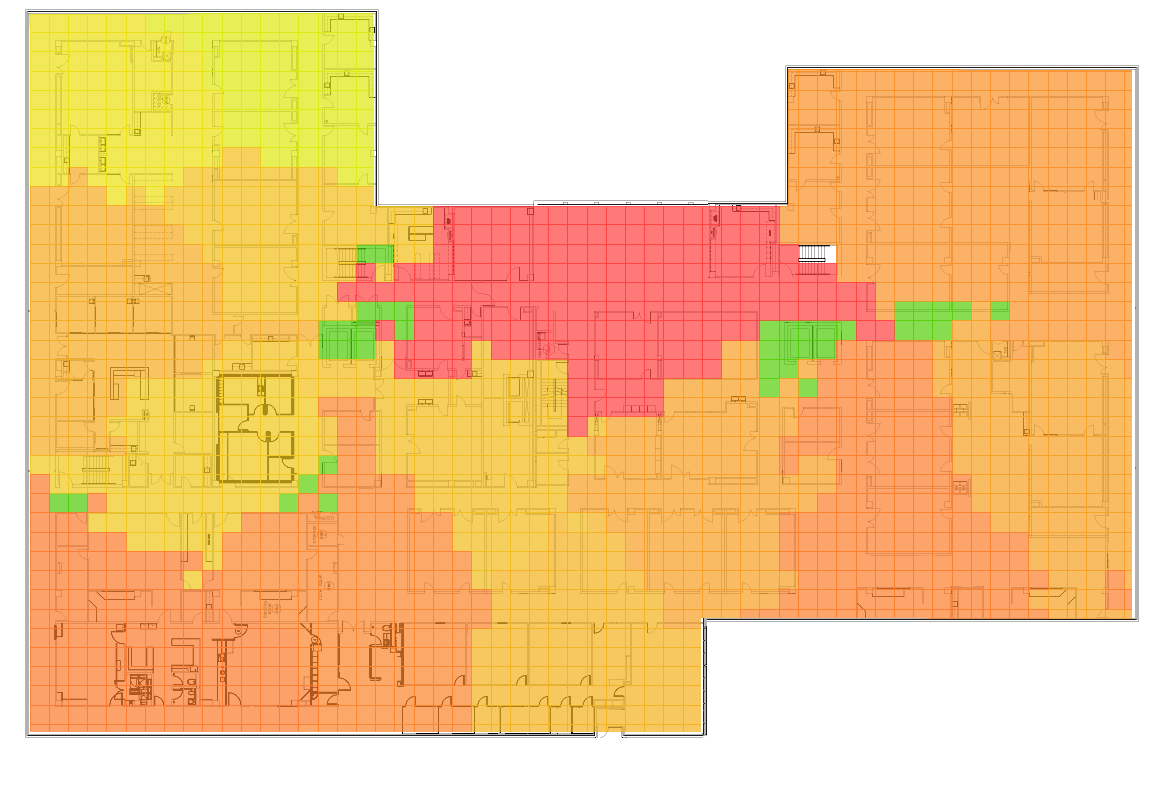
alternative

### Associated Clients 2,4 GHz



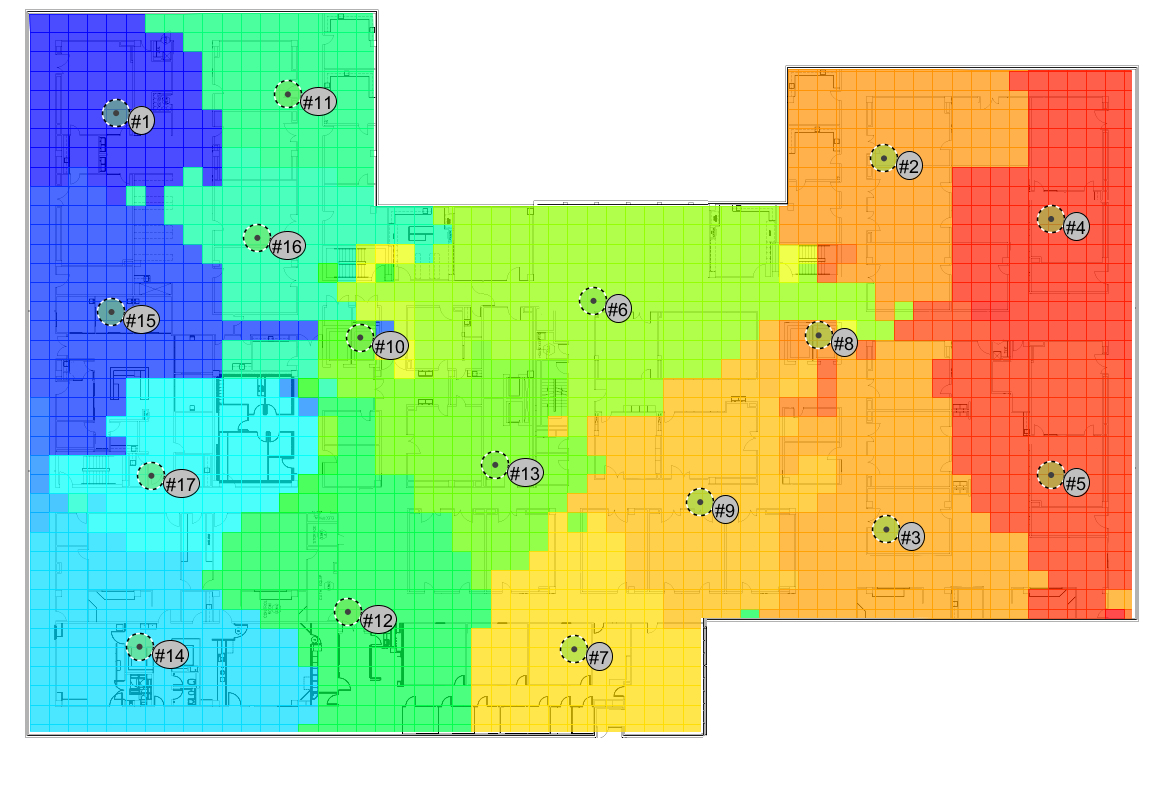
alternative

### Associated Clients 5 GHz



alternative

## AP Serving Areas

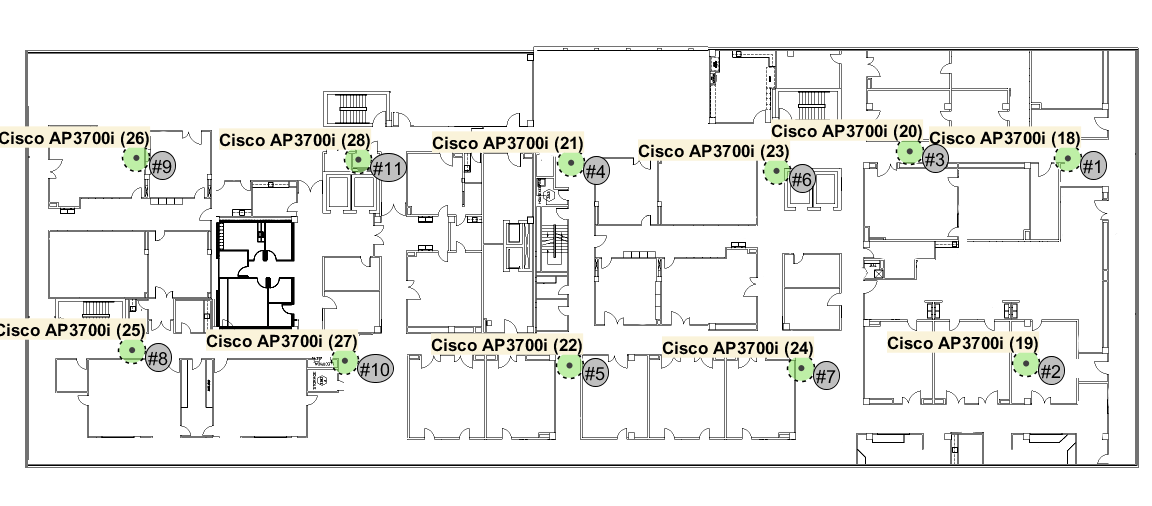


alternative

# Map Floor 2

## Survey Routes and AP Locations

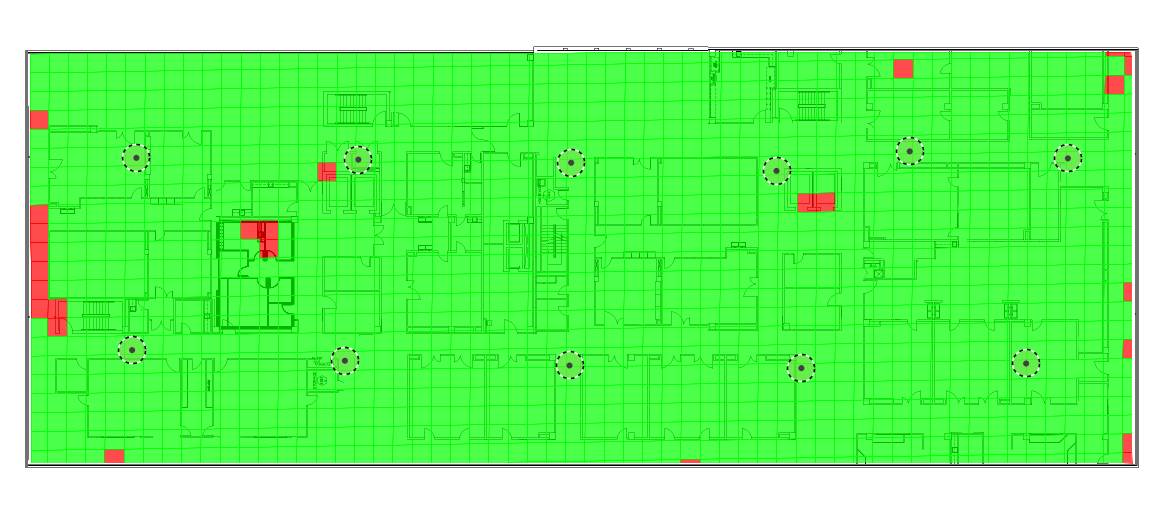
### Access Point Locations



|  |  |
| --- | --- |
| Access Points | |
| Name: **Cisco AP3700i (18)** (#1) | Notes: |
| Radio on channel: **1**  Networks:  Radio on channel: **64**  Networks: | |
| Name: **Cisco AP3700i (19)** (#2) | Notes: |
| Radio on channel: **6**  Networks:  Radio on channel: **116**  Networks: | |
| Name: **Cisco AP3700i (20)** (#3) | Notes: |
| Radio on channel: **11**  Networks:  Radio on channel: **136**  Networks: | |
| Name: **Cisco AP3700i (21)** (#4) | Notes: |
| Radio on channel: **1**  Networks:  Radio on channel: **40**  Networks: | |
| Name: **Cisco AP3700i (22)** (#5) | Notes: |
| Radio on channel: **11**  Networks:  Radio on channel: **124**  Networks: | |
| Name: **Cisco AP3700i (23)** (#6) | Notes: |
| Radio on channel: **6**  Networks:  Radio on channel: **104**  Networks: | |
| Name: **Cisco AP3700i (24)** (#7) | Notes: |
| Radio on channel: **1**  Networks:  Radio on channel: **52**  Networks: | |
| Name: **Cisco AP3700i (25)** (#8) | Notes: |
| Radio on channel: **1**  Networks:  Radio on channel: **132**  Networks: | |
| Name: **Cisco AP3700i (26)** (#9) | Notes: |
| Radio on channel: **6**  Networks:  Radio on channel: **48**  Networks: | |
| Name: **Cisco AP3700i (27)** (#10) | Notes: |
| Radio on channel: **6**  Networks:  Radio on channel: **60**  Networks: | |
| Name: **Cisco AP3700i (28)** (#11) | Notes: |
| Radio on channel: **11**  Networks:  Radio on channel: **112**  Networks: | |

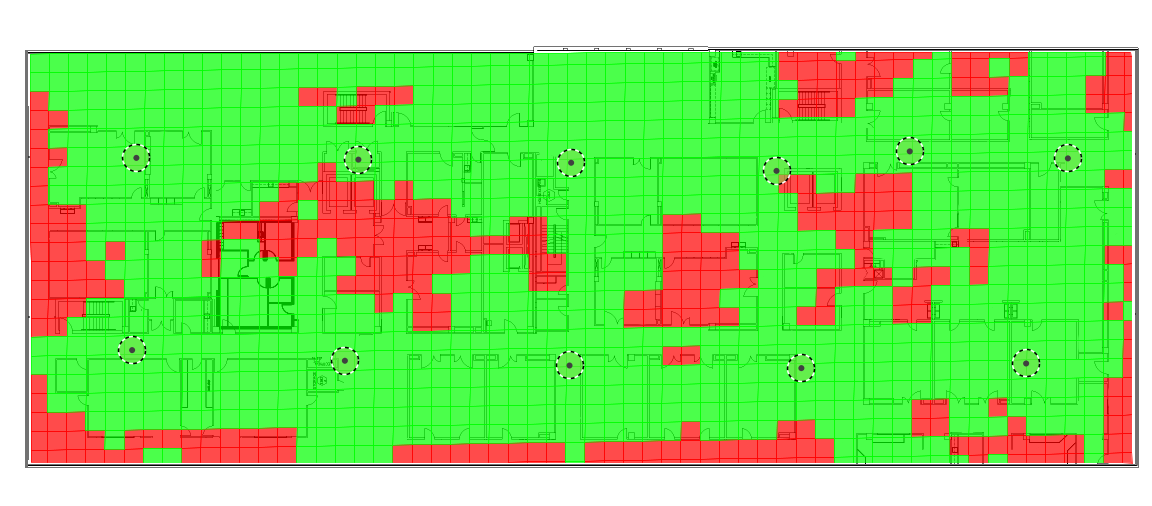
## Network Health

### 2,4 GHz



alternative

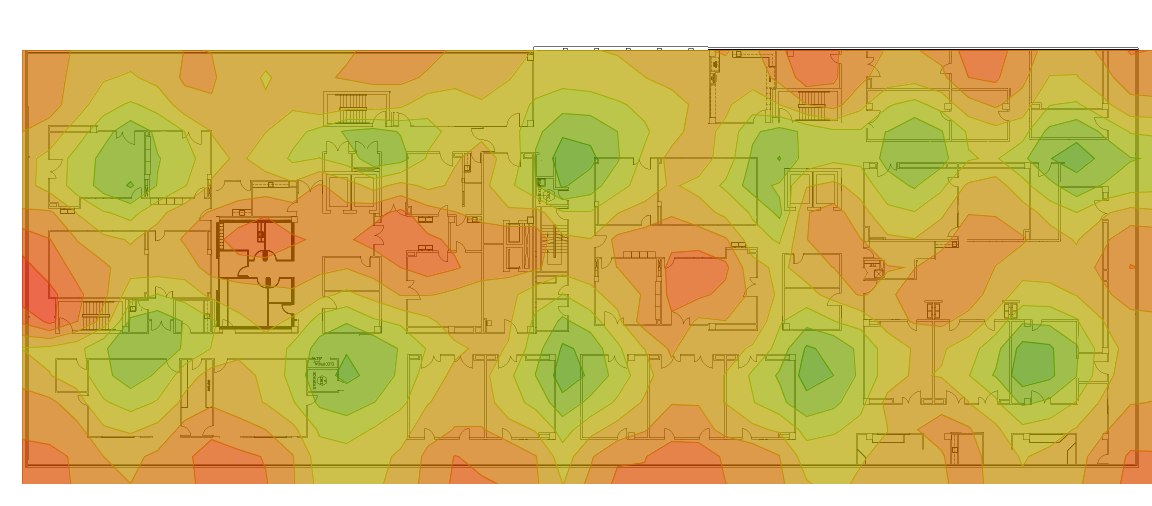
### 5 GHz



alternative

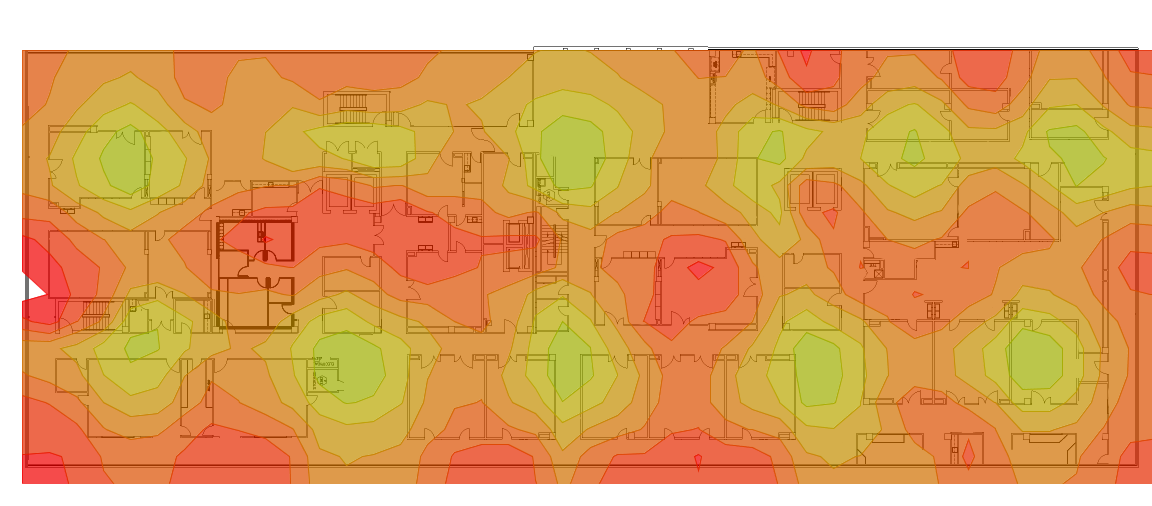
## Coverage, Interference and SNR

### Signal Strength 2.4 GHz



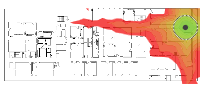
alternative

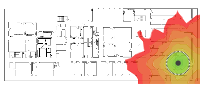
### Signal Strength 5 GHz



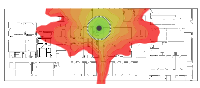
alternative

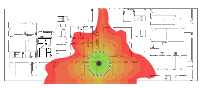
#### Access Point Coverage 2.4 GHz

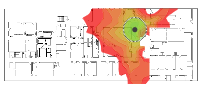
Cisco AP3700i (18) @ Channel 1  


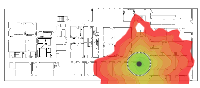
Cisco AP3700i (19) @ Channel 6  


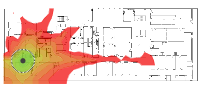
Cisco AP3700i (20) @ Channel 11  


Cisco AP3700i (21) @ Channel 1  


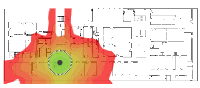
Cisco AP3700i (22) @ Channel 11  


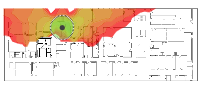
Cisco AP3700i (23) @ Channel 6  


Cisco AP3700i (24) @ Channel 1  


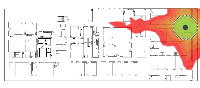
Cisco AP3700i (25) @ Channel 1  


Cisco AP3700i (26) @ Channel 6  

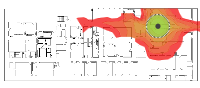

Cisco AP3700i (27) @ Channel 6  


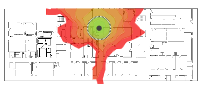
Cisco AP3700i (28) @ Channel 11  


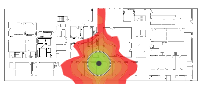
#### Access Point Coverage 5 GHz

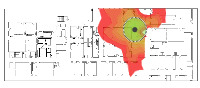
Cisco AP3700i (18) @ Channel 64  


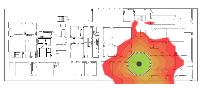
Cisco AP3700i (19) @ Channel 116  


Cisco AP3700i (20) @ Channel 136  


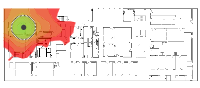
Cisco AP3700i (21) @ Channel 40  


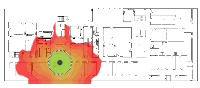
Cisco AP3700i (22) @ Channel 124  


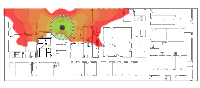
Cisco AP3700i (23) @ Channel 104  


Cisco AP3700i (24) @ Channel 52  


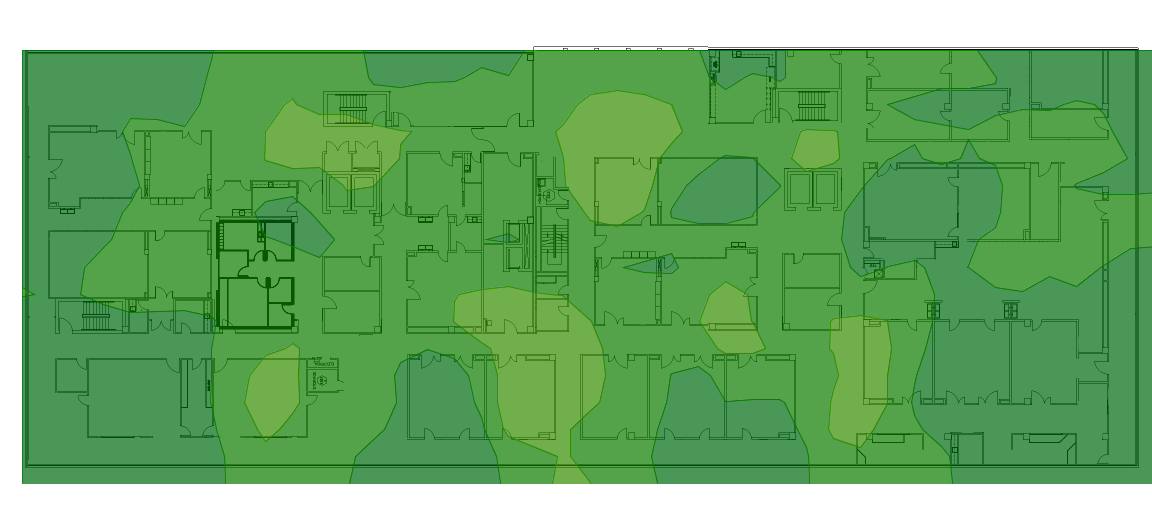
Cisco AP3700i (25) @ Channel 132  


Cisco AP3700i (26) @ Channel 48  


Cisco AP3700i (27) @ Channel 60  


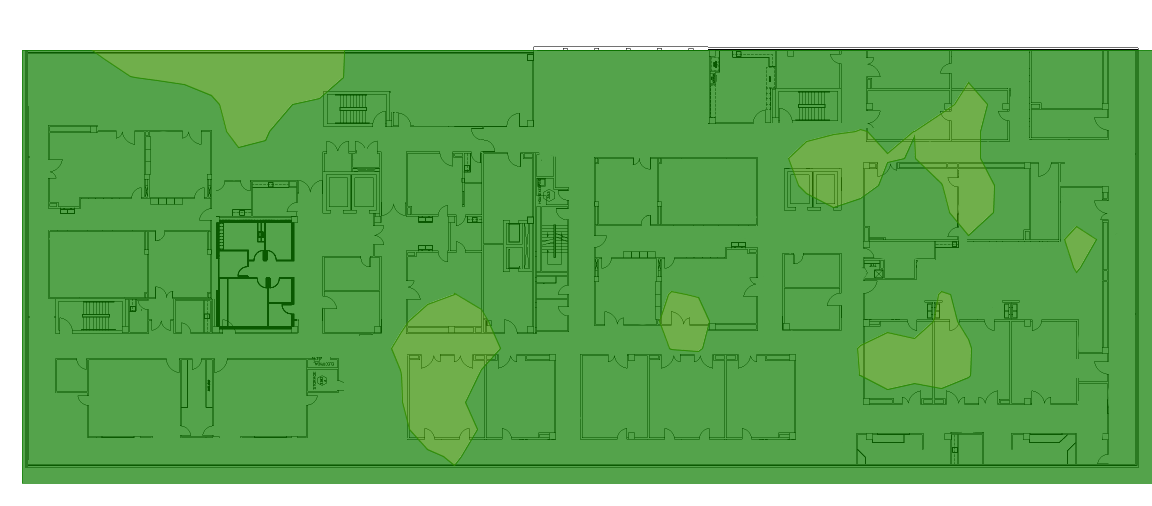
Cisco AP3700i (28) @ Channel 112  


### Interference 2.4 GHz



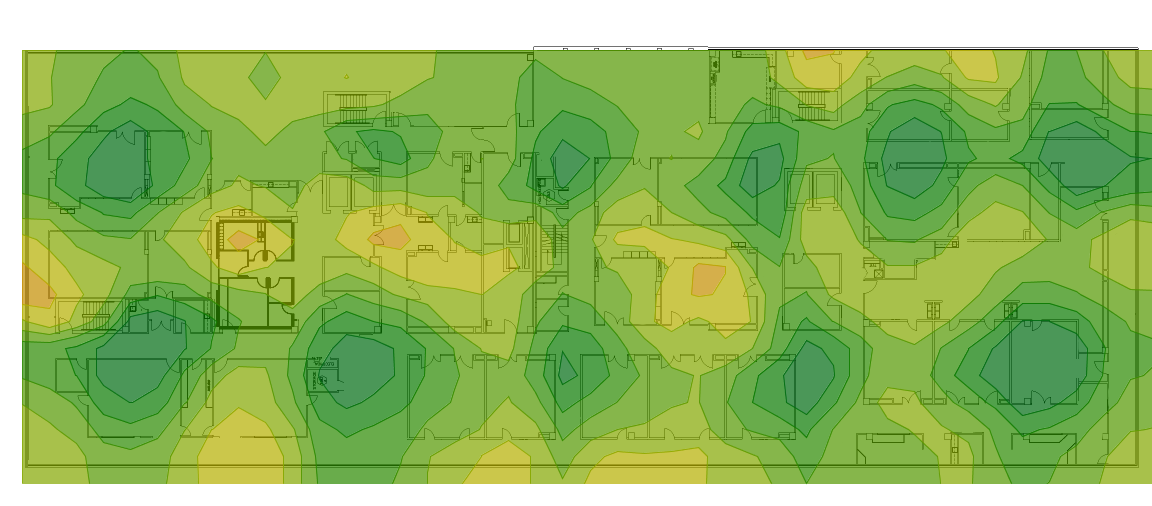
alternative

### Interference 5 GHz



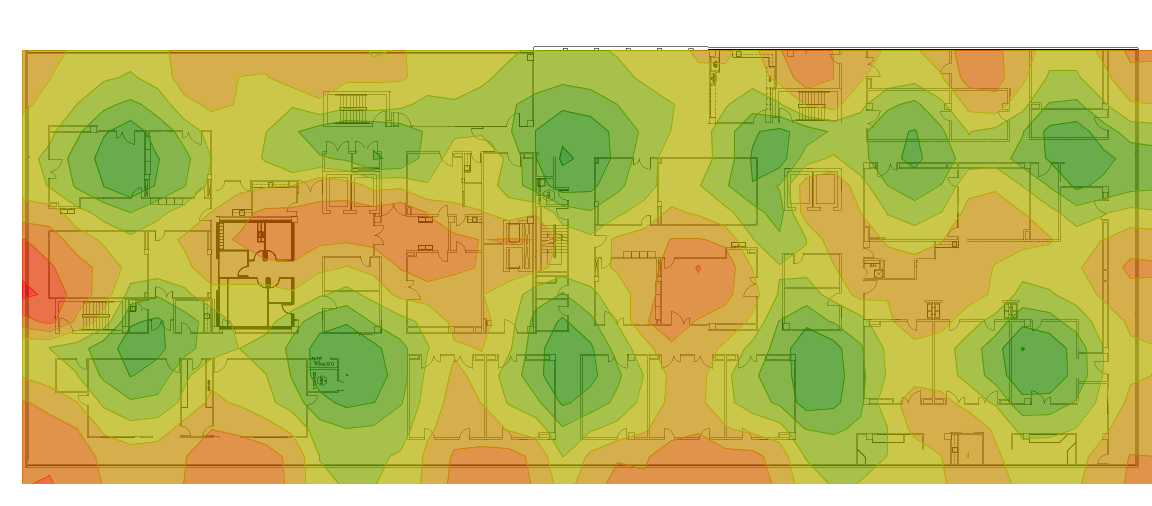
alternative

### SNR 2.4 GHz



alternative

### SNR 5 GHz



alternative

## Capacity

|  |  |
| --- | --- |
| Number of devices on this floor | Device |
| 266 / 900 | Laptop |
| 177 / 600 | AC Smartphone |
| 15 / 50 | Tablet |

### Capacity Health 2,4 GHz



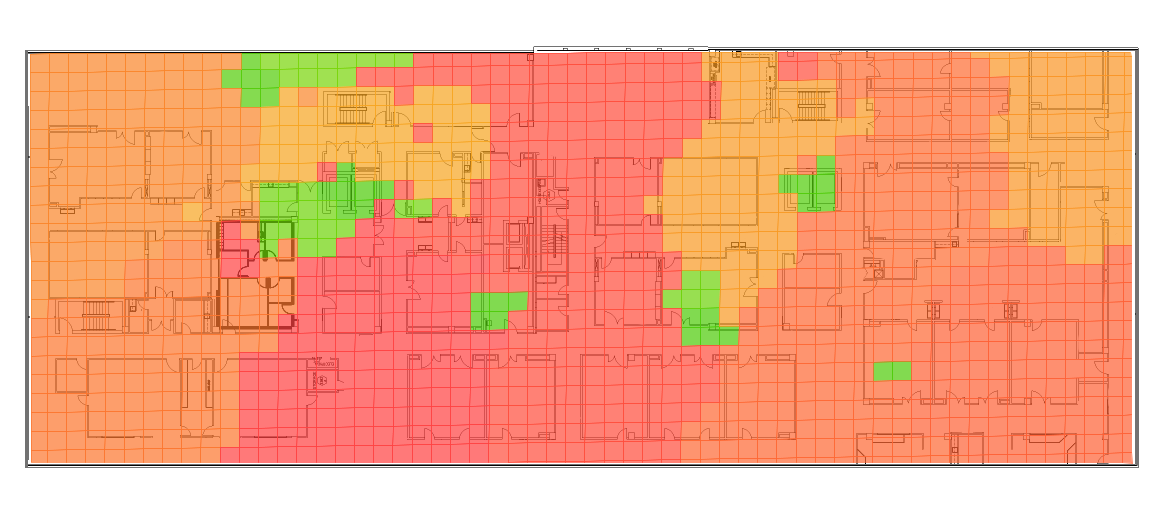
alternative

### Capacity Health 5 GHz



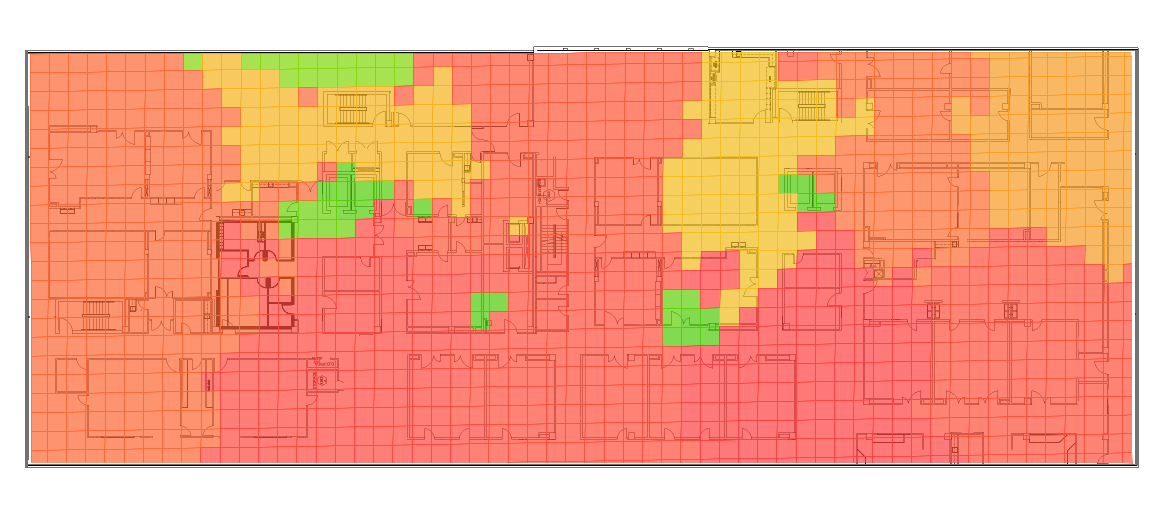
alternative

### Associated Clients 2,4 GHz



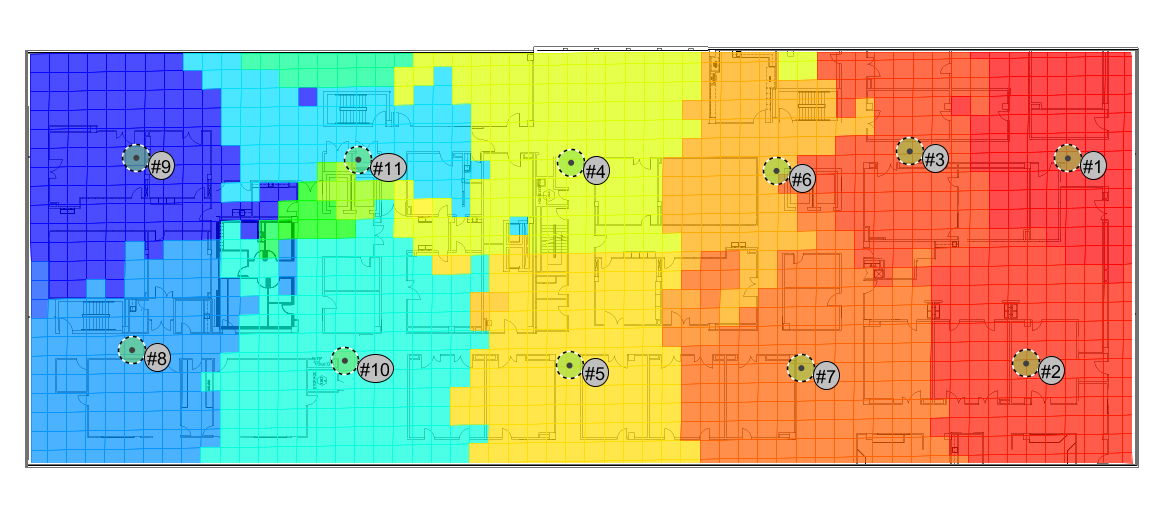
alternative

### Associated Clients 5 GHz



alternative

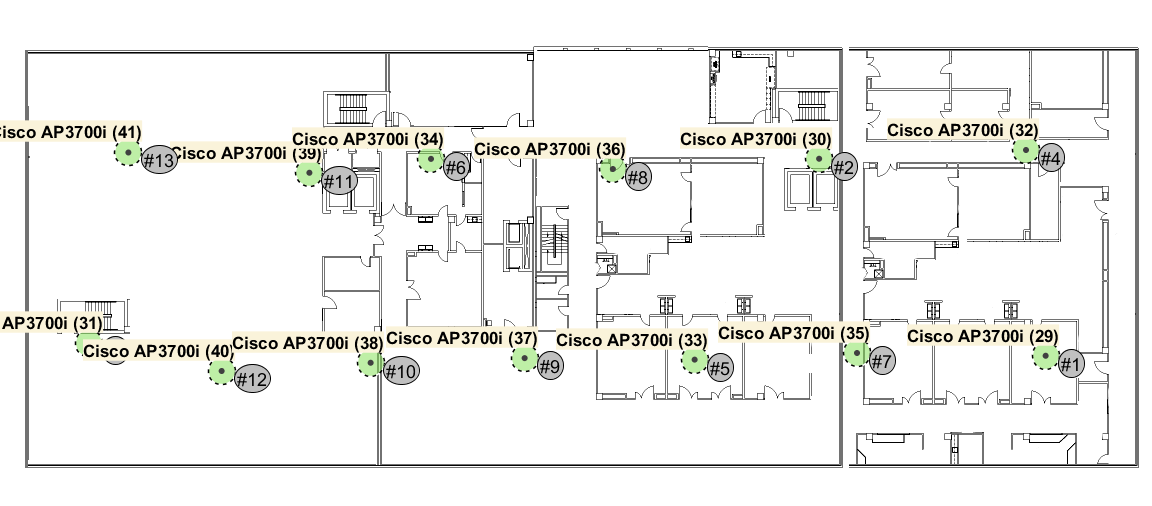
## AP Serving Areas



# Map Floor 3

## Survey Routes and AP Locations

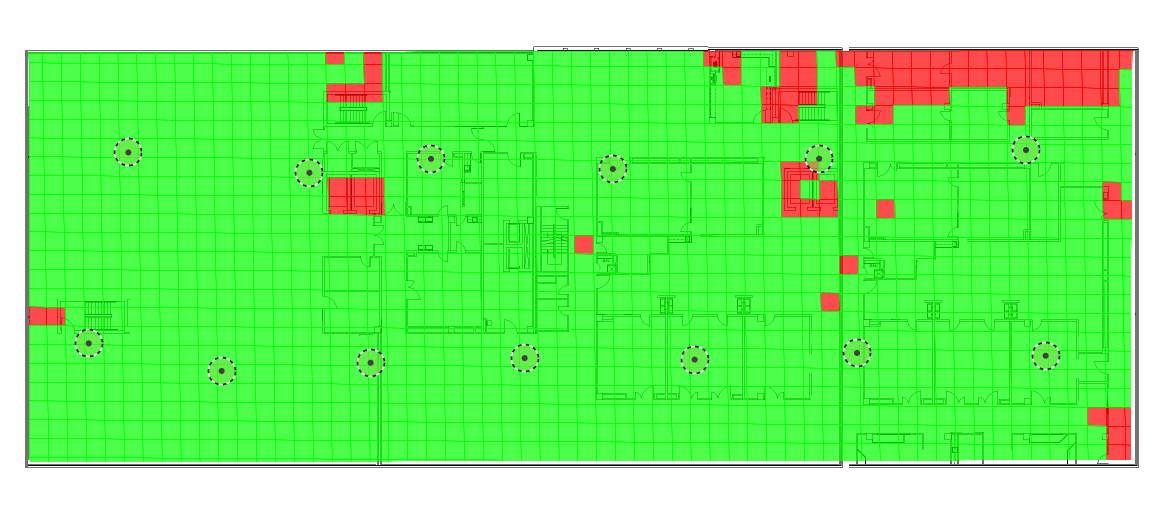
### Access Point Locations



|  |  |
| --- | --- |
| Access Points | |
| Name: **Cisco AP3700i (29)** (#1) | Notes: |
| Radio on channel: **11**  Networks:  Radio on channel: **64**  Networks: | |
| Name: **Cisco AP3700i (30)** (#2) | Notes: |
| Radio on channel: **11**  Networks:  Radio on channel: **52**  Networks: | |
| Name: **Cisco AP3700i (31)** (#3) | Notes: |
| Radio on channel: **11**  Networks:  Radio on channel: **64**  Networks: | |
| Name: **Cisco AP3700i (32)** (#4) | Notes: |
| Radio on channel: **6**  Networks:  Radio on channel: **136**  Networks: | |
| Name: **Cisco AP3700i (33)** (#5) | Notes: |
| Radio on channel: **6**  Networks:  Radio on channel: **40**  Networks: | |
| Name: **Cisco AP3700i (34)** (#6) | Notes: |
| Radio on channel: **6**  Networks:  Radio on channel: **132**  Networks: | |
| Name: **Cisco AP3700i (35)** (#7) | Notes: |
| Radio on channel: **1**  Networks:  Radio on channel: **116**  Networks: | |
| Name: **Cisco AP3700i (36)** (#8) | Notes: |
| Radio on channel: **1**  Networks:  Radio on channel: **112**  Networks: | |
| Name: **Cisco AP3700i (37)** (#9) | Notes: |
| Radio on channel: **11**  Networks:  Radio on channel: **60**  Networks: | |
| Name: **Cisco AP3700i (38)** (#10) | Notes: |
| Radio on channel: **1**  Networks:  Radio on channel: **120**  Networks: | |
| Name: **Cisco AP3700i (39)** (#11) | Notes: |
| Radio on channel: **11**  Networks:  Radio on channel: **56**  Networks: | |
| Name: **Cisco AP3700i (40)** (#12) | Notes: |
| Radio on channel: **6**  Networks:  Radio on channel: **36**  Networks: | |
| Name: **Cisco AP3700i (41)** (#13) | Notes: |
| Radio on channel: **1**  Networks:  Radio on channel: **108**  Networks: | |

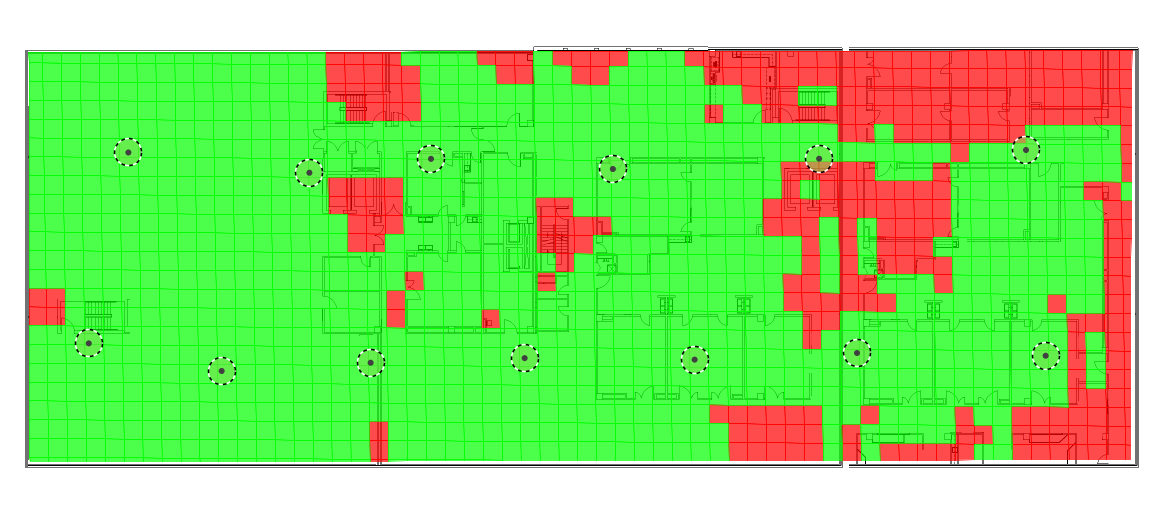
## Network Health

### 2,4 GHz



alternative

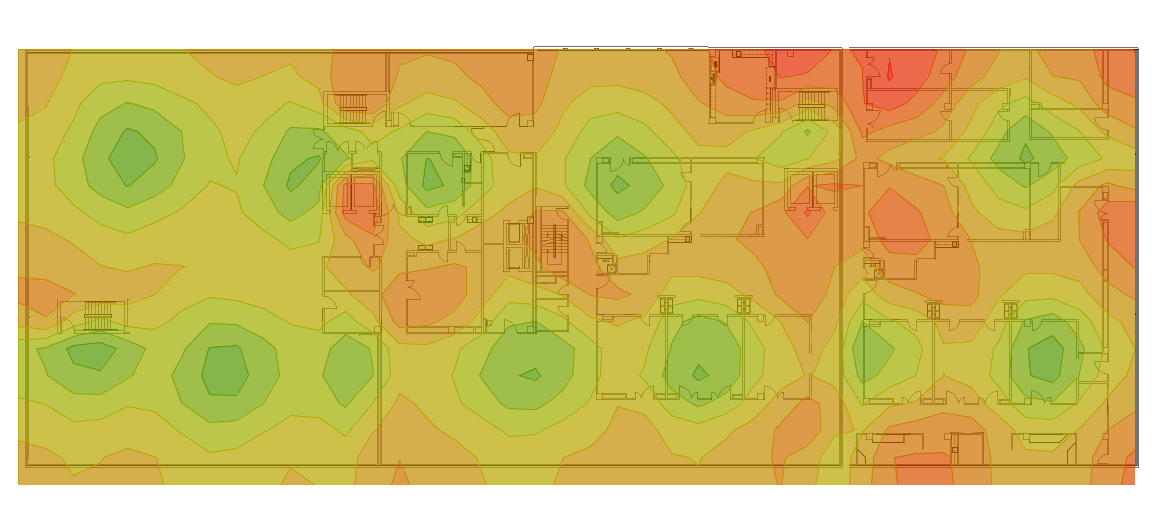
### 5 GHz



alternative

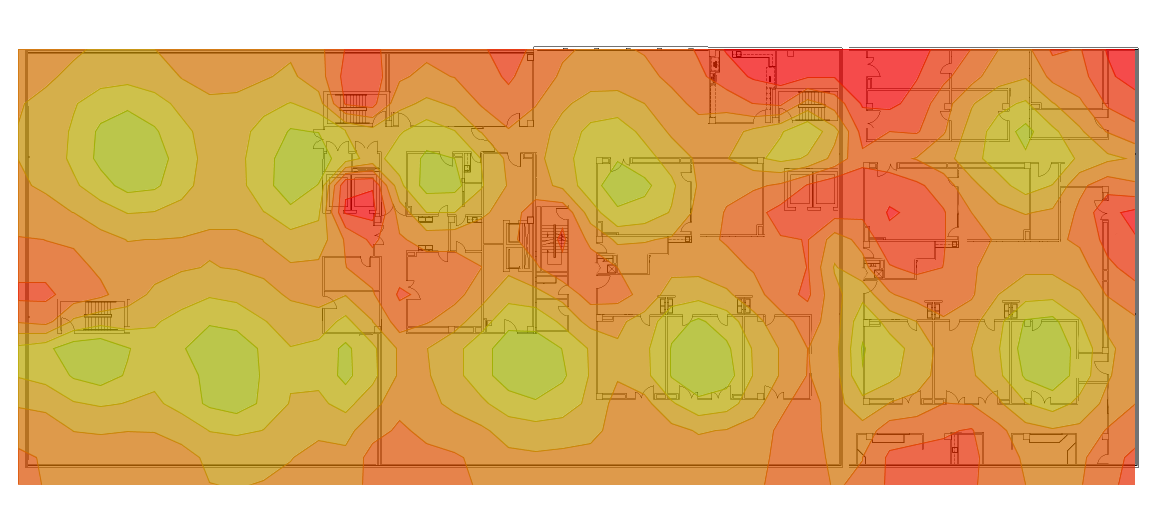
## Coverage, Interference and SNR

### Signal Strength 2.4 GHz



alternative

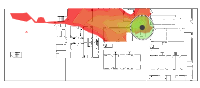
### Signal Strength 5 GHz

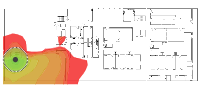


alternative

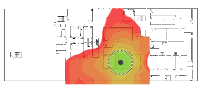
#### Access Point Coverage 2.4 GHz

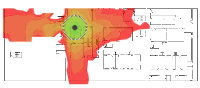
Cisco AP3700i (29) @ Channel 11  

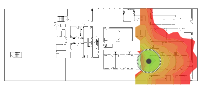

Cisco AP3700i (30) @ Channel 11  


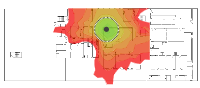
Cisco AP3700i (31) @ Channel 11  


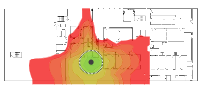
Cisco AP3700i (32) @ Channel 6  

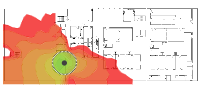

Cisco AP3700i (33) @ Channel 6  


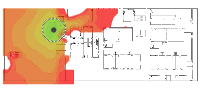
Cisco AP3700i (34) @ Channel 6  


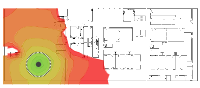
Cisco AP3700i (35) @ Channel 1  


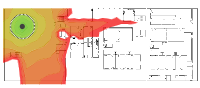
Cisco AP3700i (36) @ Channel 1  


Cisco AP3700i (37) @ Channel 11  


Cisco AP3700i (38) @ Channel 1  


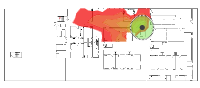
Cisco AP3700i (39) @ Channel 11  


Cisco AP3700i (40) @ Channel 6  


Cisco AP3700i (41) @ Channel 1  


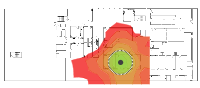
#### Access Point Coverage 5 GHz

Cisco AP3700i (29) @ Channel 64  

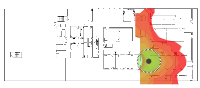

Cisco AP3700i (30) @ Channel 52  


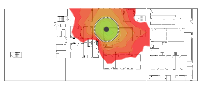
Cisco AP3700i (31) @ Channel 64  

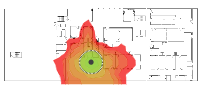

Cisco AP3700i (32) @ Channel 136  

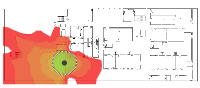

Cisco AP3700i (33) @ Channel 40  


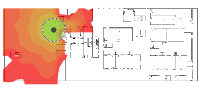
Cisco AP3700i (34) @ Channel 132  

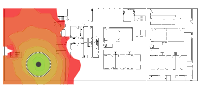

Cisco AP3700i (35) @ Channel 116  


Cisco AP3700i (36) @ Channel 112  


Cisco AP3700i (37) @ Channel 60  


Cisco AP3700i (38) @ Channel 120  


Cisco AP3700i (39) @ Channel 56  


Cisco AP3700i (40) @ Channel 36  


Cisco AP3700i (41) @ Channel 108  


### Interference 2.4 GHz



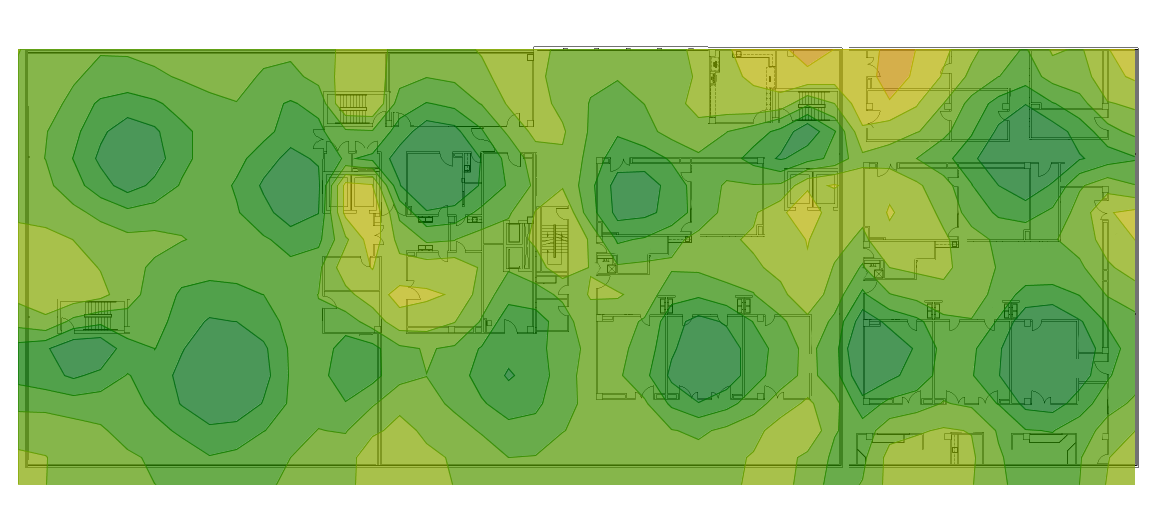
alternative

### Interference 5 GHz



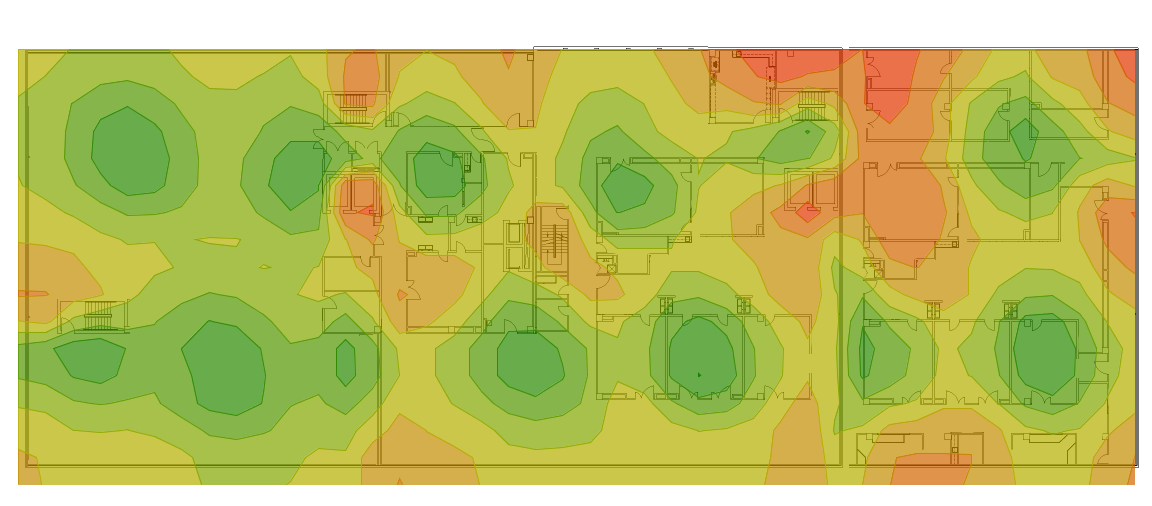
alternative

### SNR 2.4 GHz



alternative

### SNR 5 GHz

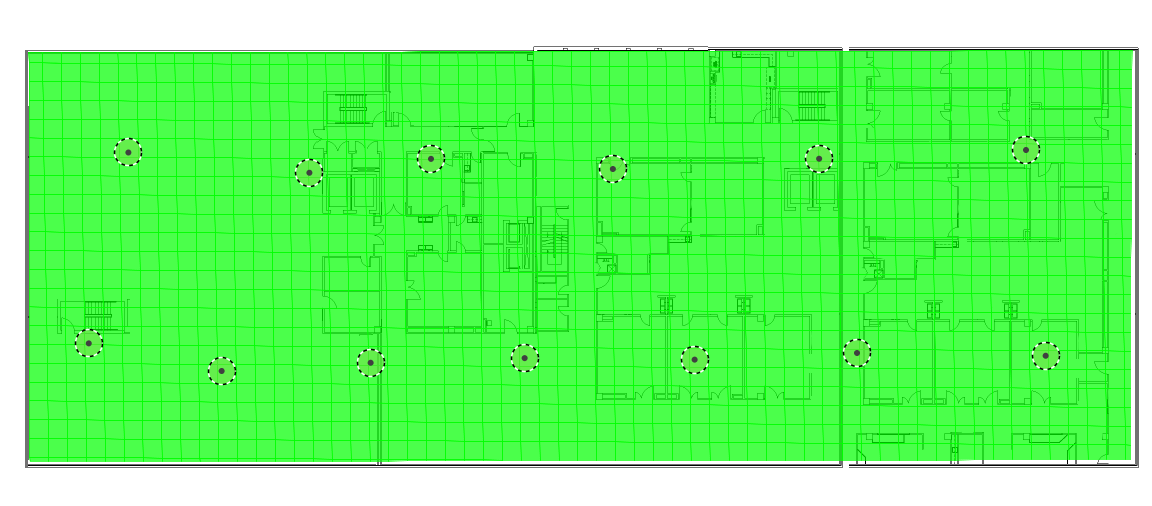


alternative

## Capacity

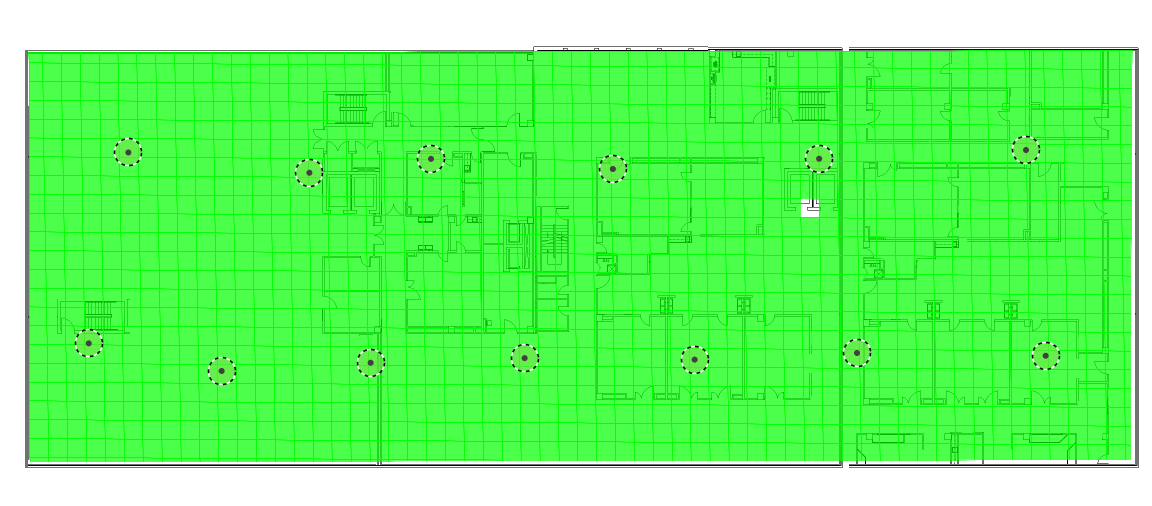
|  |  |
| --- | --- |
| Number of devices on this floor | Device |
| 262 / 900 | Laptop |
| 175 / 600 | AC Smartphone |
| 15 / 50 | Tablet |

### Capacity Health 2,4 GHz



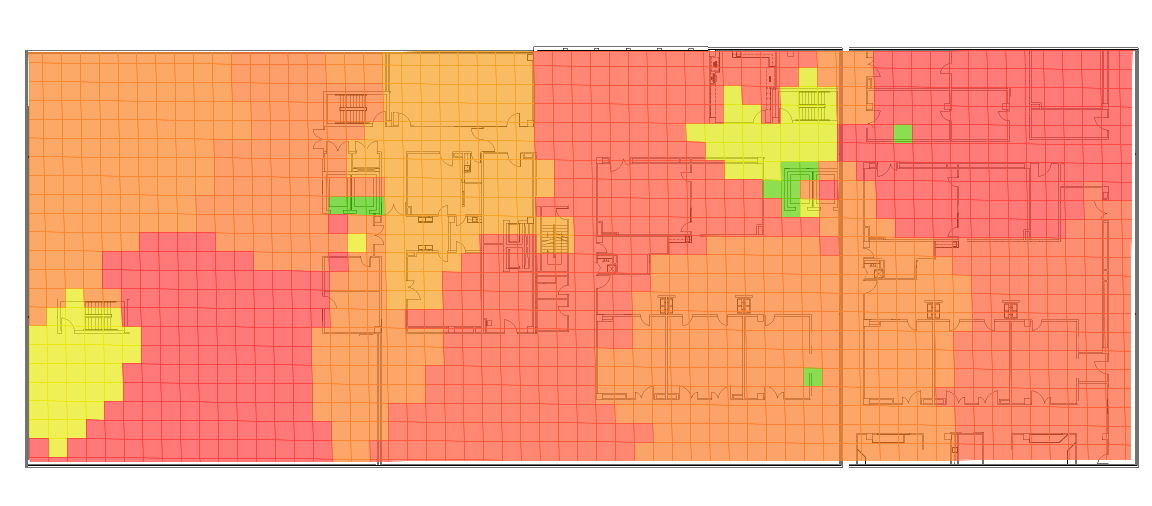
alternative

### Capacity Health 5 GHz



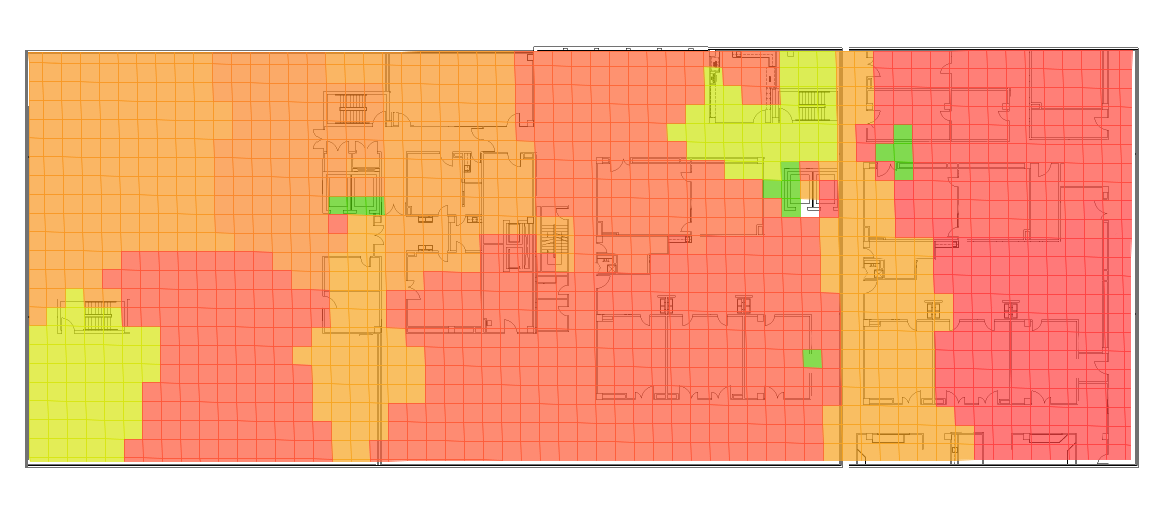
alternative

### Associated Clients 2,4 GHz



alternative

### Associated Clients 5 GHz



alternative

## AP Serving Areas

