

# 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.

# 1. Customer Requirements

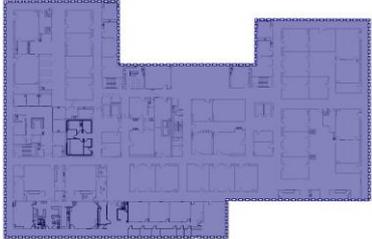
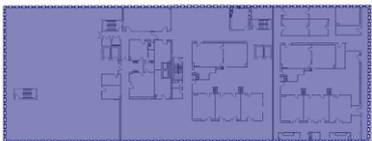
## 1.1. Coverage Requirements

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 %	

## 1.2. Capacity Requirements

Amount	Device
900	Laptop
600	AC Smartphone
50	Tablet

## 2. Coverage Areas

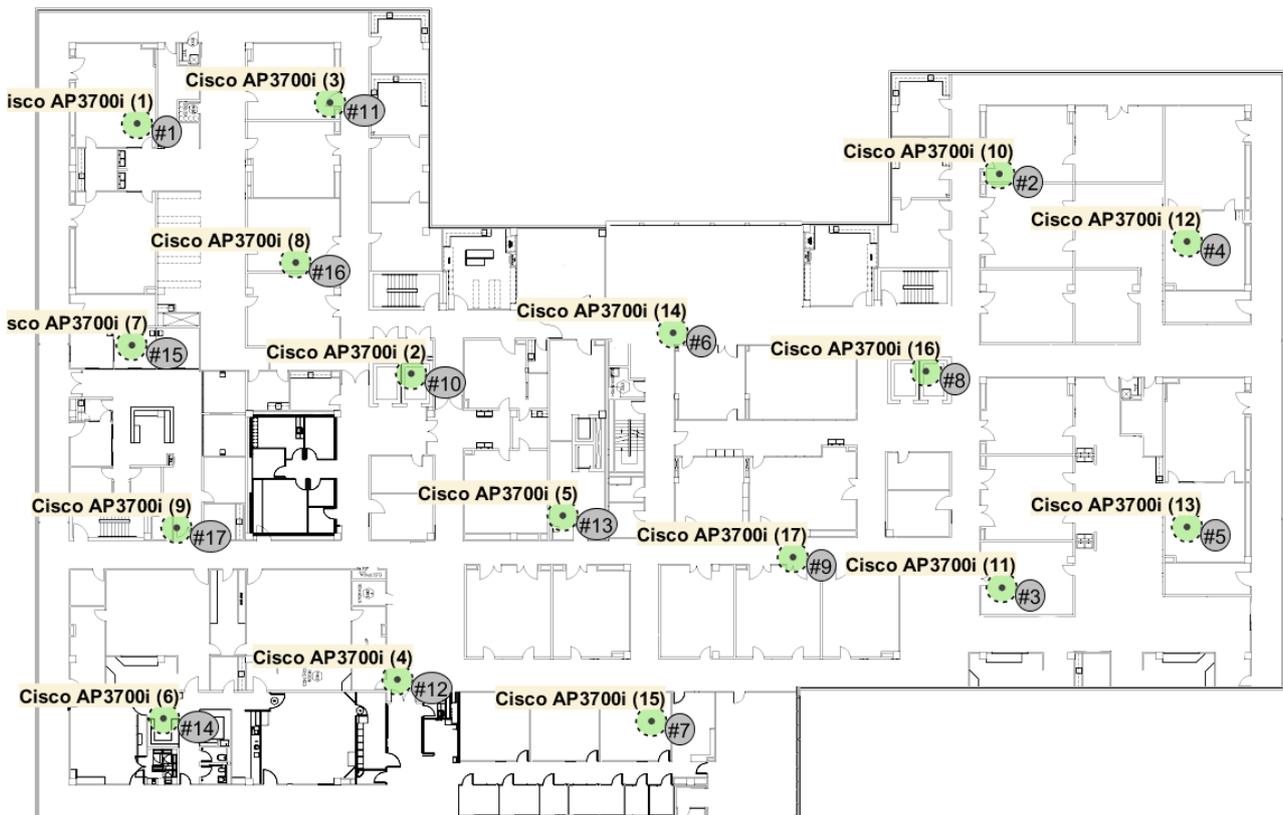
Map	Name	Coverage Area
	Floor 1	3,458.1 m <sup>2</sup>
	Floor 2	2,471.6 m <sup>2</sup>
	Floor 3	2,433.9 m <sup>2</sup>

Total coverage area: 8,363.6 m<sup>2</sup>

# 3. Map Floor 1

## 3.1. Survey Routes and AP Locations

### 3.1.1. Access Point Locations



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Access Points	
Name: <b>Cisco AP3700i (1) (#1)</b>	Notes:
Radio on channel: <b>6</b> Networks: Radio on channel: <b>36</b> Networks:	
Name: <b>Cisco AP3700i (10) (#2)</b>	Notes:
Radio on channel: <b>1</b> Networks: Radio on channel: <b>104</b> Networks:	
Name: <b>Cisco AP3700i (11) (#3)</b>	Notes:
Radio on channel: <b>11</b> Networks: Radio on channel: <b>64</b> Networks:	
Name: <b>Cisco AP3700i (12) (#4)</b>	Notes:
Radio on channel: <b>11</b> Networks: Radio on channel: <b>44</b> Networks:	
Name: <b>Cisco AP3700i (13) (#5)</b>	Notes:
Radio on channel: <b>1</b> Networks: Radio on channel: <b>108</b> Networks:	
Name: <b>Cisco AP3700i (14) (#6)</b>	Notes:
Radio on channel: <b>11</b> Networks: Radio on channel: <b>52</b> Networks:	
Name: <b>Cisco AP3700i (15) (#7)</b>	Notes:
Radio on channel: <b>11</b> Networks: Radio on channel: <b>104</b> Networks:	
Name: <b>Cisco AP3700i (16) (#8)</b>	Notes:
Radio on channel: <b>6</b> Networks: Radio on channel: <b>136</b>	

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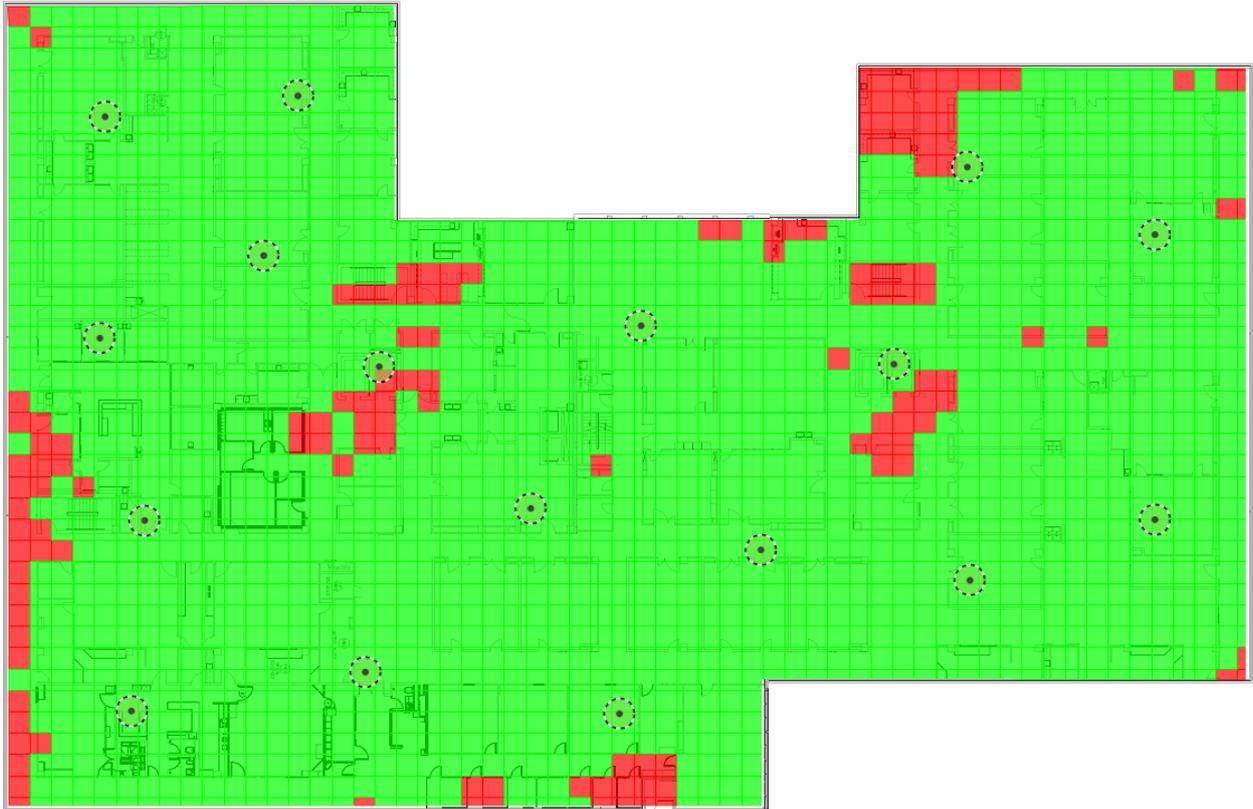
Networks:	
Name: <b>Cisco AP3700i (17) (#9)</b>	Notes:
Radio on channel: <b>1</b> Networks: Radio on channel: <b>116</b> Networks:	
Name: <b>Cisco AP3700i (2) (#10)</b>	Notes:
Radio on channel: <b>11</b> Networks: Radio on channel: <b>60</b> Networks:	
Name: <b>Cisco AP3700i (3) (#11)</b>	Notes:
Radio on channel: <b>11</b> Networks: Radio on channel: <b>56</b> Networks:	
Name: <b>Cisco AP3700i (4) (#12)</b>	Notes:
Radio on channel: <b>1</b> Networks: Radio on channel: <b>124</b> Networks:	
Name: <b>Cisco AP3700i (5) (#13)</b>	Notes:
Radio on channel: <b>6</b> Networks: Radio on channel: <b>40</b> Networks:	
Name: <b>Cisco AP3700i (6) (#14)</b>	Notes:
Radio on channel: <b>11</b> Networks: Radio on channel: <b>112</b> Networks:	
Name: <b>Cisco AP3700i (7) (#15)</b>	Notes:
Radio on channel: <b>11</b> Networks: Radio on channel: <b>100</b> Networks:	
Name: <b>Cisco AP3700i (8) (#16)</b>	Notes:
Radio on channel: <b>1</b> Networks: Radio on channel: <b>120</b> Networks:	

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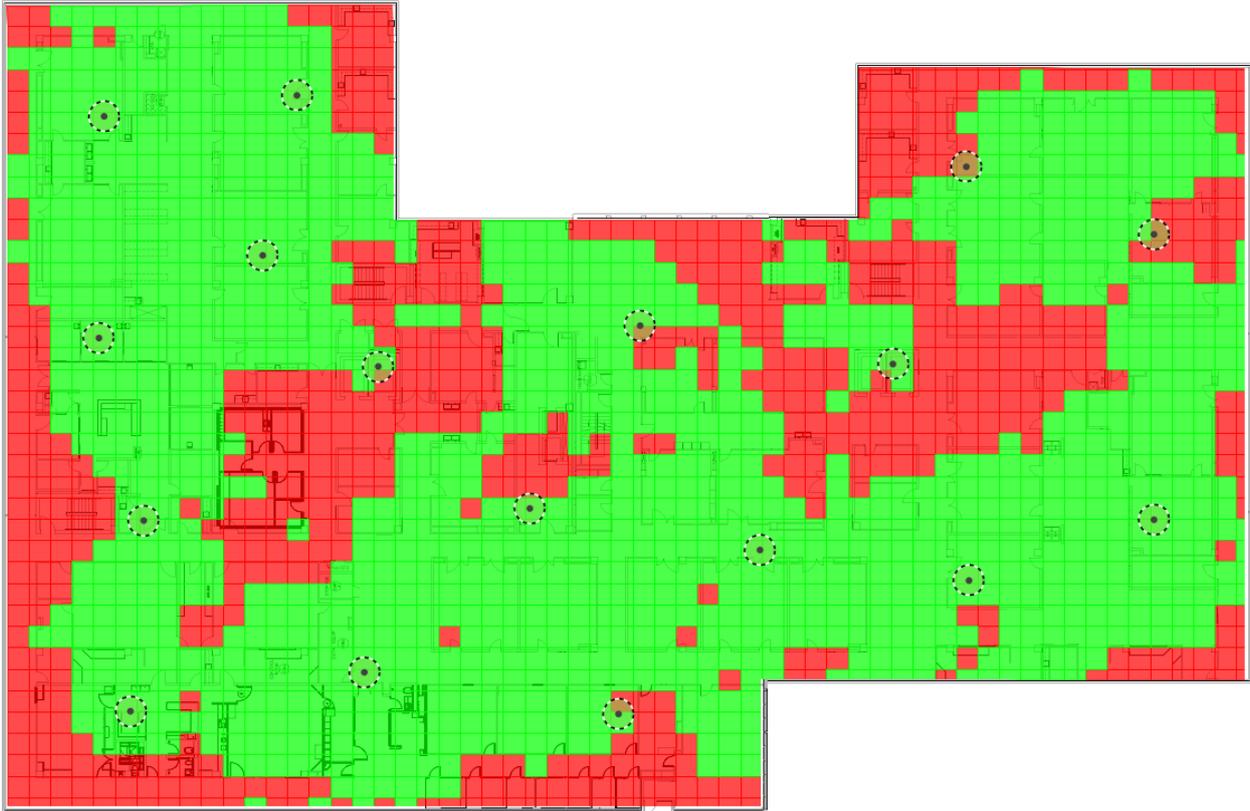
Name: <b>Cisco AP3700i (9) (#17)</b>	Notes:
Radio on channel: <b>6</b>	
Networks:	
Radio on channel: <b>48</b>	
Networks:	

## 3.2. Network Health

### 3.2.1. 2,4 GHz

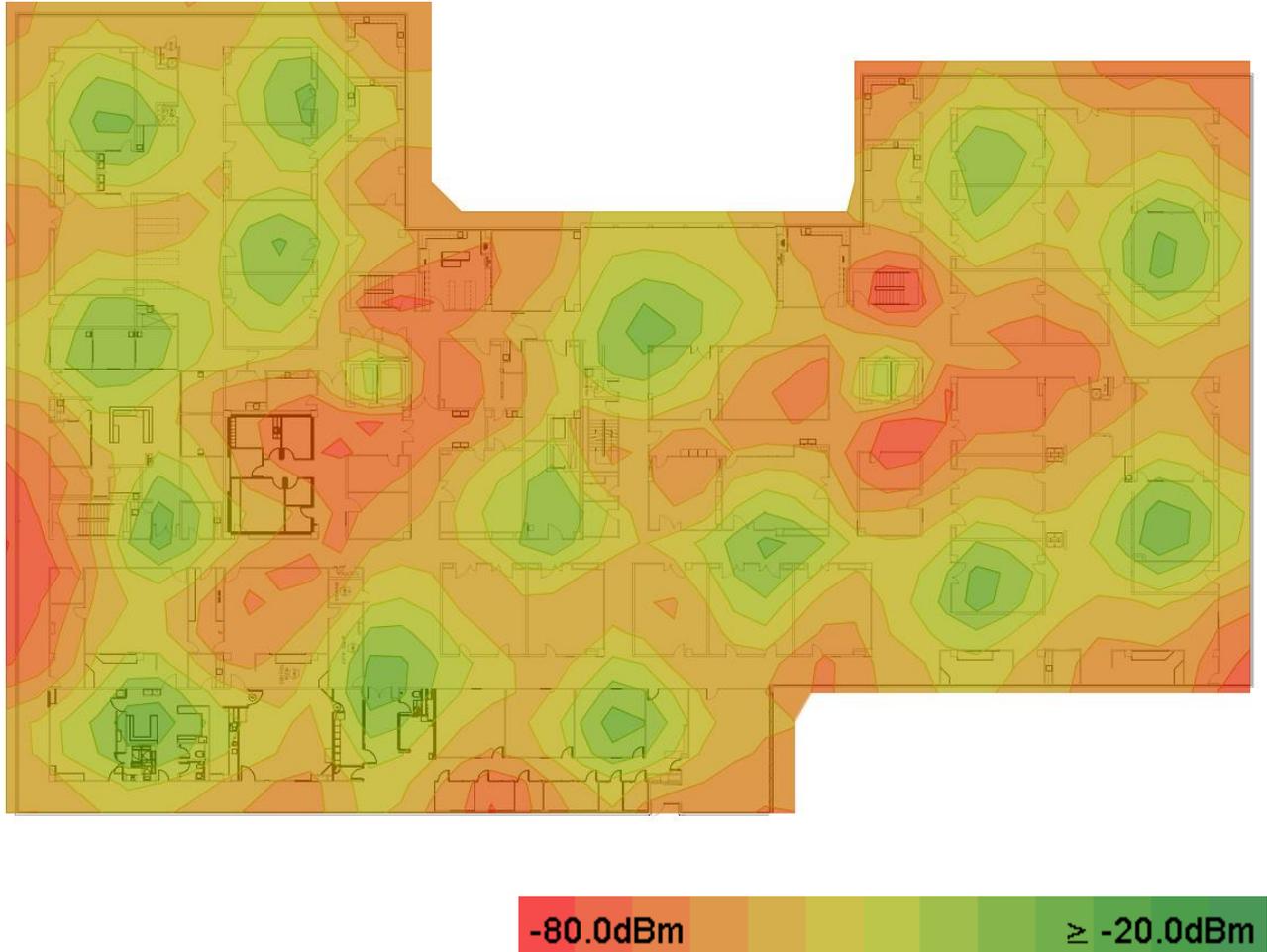


3.2.2. 5 GHz

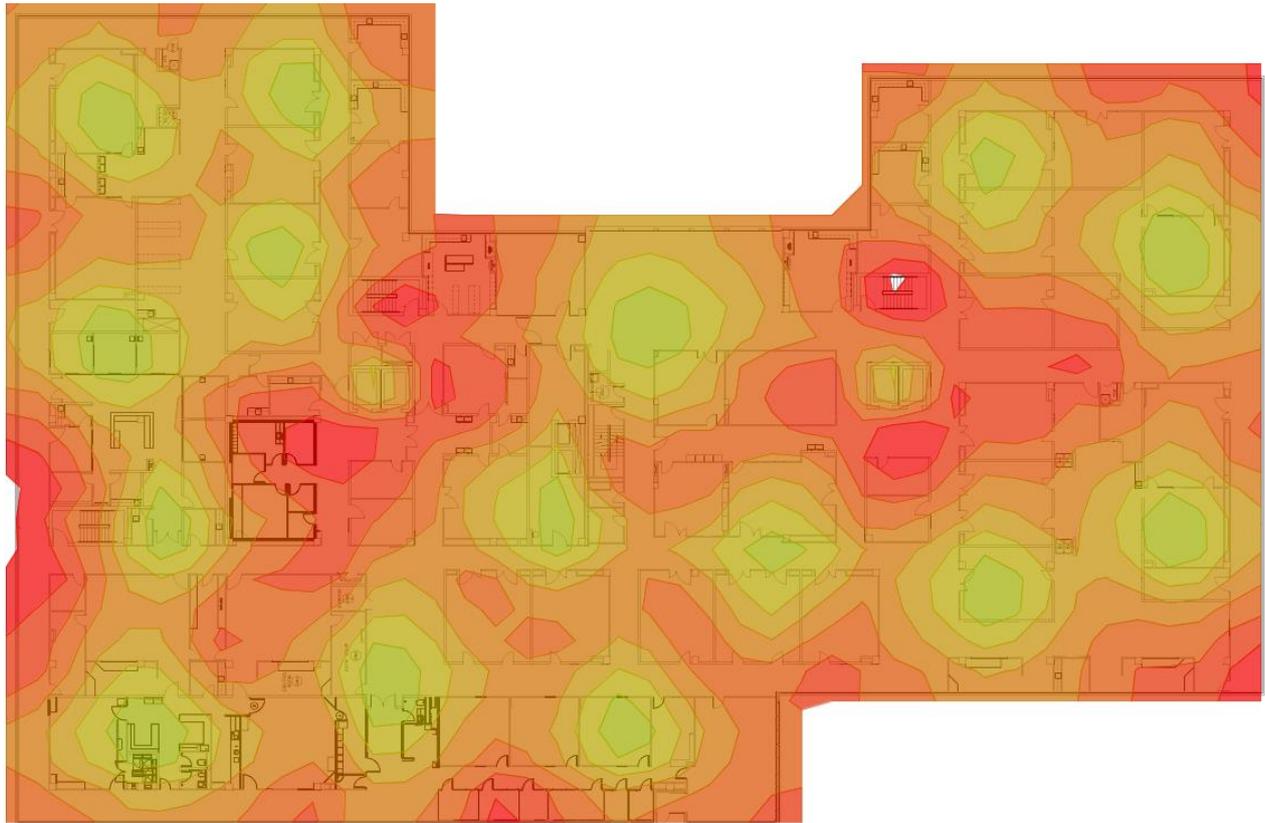


## 3.3. Coverage, Interference and SNR

### 3.3.1. Signal Strength 2.4 GHz



### 3.3.2. Signal Strength 5 GHz

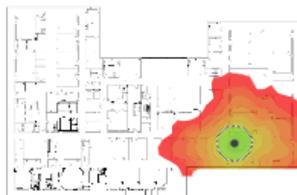


#### 3.3.2.1. Per-Access Point Coverage 2.4 GHz

Cisco AP3700i (1) @ Channel 6



Cisco AP3700i (11) @ Channel 11



Cisco AP3700i (13) @ Channel 1



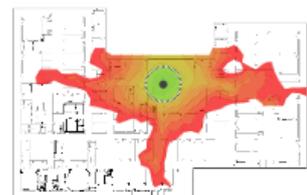
Cisco AP3700i (10) @ Channel 1



Cisco AP3700i (12) @ Channel 11

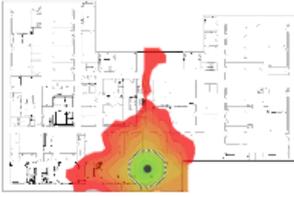


Cisco AP3700i (14) @ Channel 11



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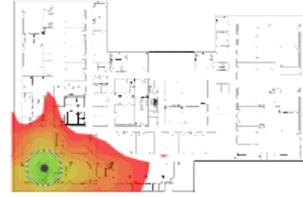
Cisco AP3700i (15) @ Channel  
11



Cisco AP3700i (2) @ Channel  
11



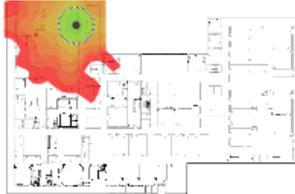
Cisco AP3700i (6) @ Channel  
11



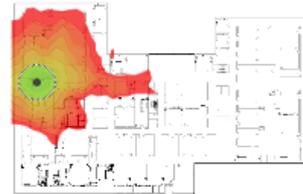
Cisco AP3700i (16) @ Channel  
6



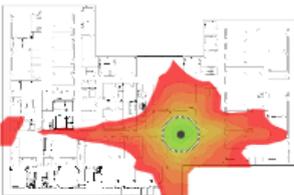
Cisco AP3700i (3) @ Channel  
11



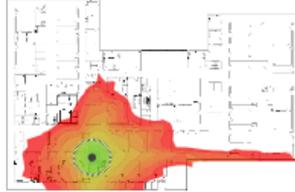
Cisco AP3700i (7) @ Channel  
11



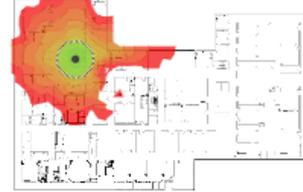
Cisco AP3700i (17) @ Channel  
1



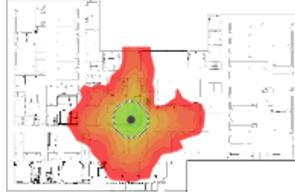
Cisco AP3700i (4) @ Channel 1



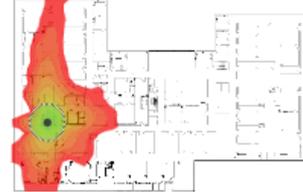
Cisco AP3700i (8) @ Channel 1



Cisco AP3700i (5) @ Channel 6



Cisco AP3700i (9) @ Channel 6



## 3.3.2.2. Per-Access Point Coverage 5 GHz

Cisco AP3700i (1) @ Channel  
36



Cisco AP3700i (10) @ Channel  
104



Cisco AP3700i (11) @ Channel  
64

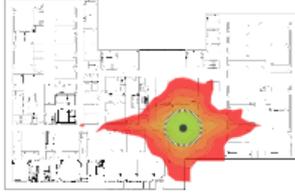


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Cisco AP3700i (12) @ Channel  
44



Cisco AP3700i (17) @ Channel  
116



Cisco AP3700i (6) @ Channel  
112



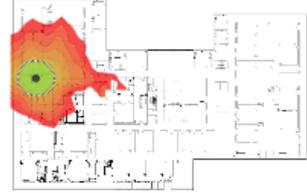
Cisco AP3700i (13) @ Channel  
108



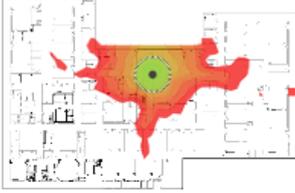
Cisco AP3700i (2) @ Channel  
60



Cisco AP3700i (7) @ Channel  
100



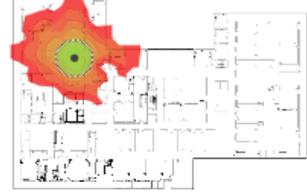
Cisco AP3700i (14) @ Channel  
52



Cisco AP3700i (3) @ Channel  
56



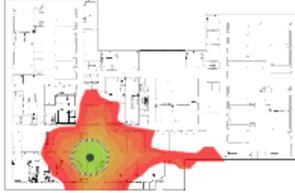
Cisco AP3700i (8) @ Channel  
120



Cisco AP3700i (15) @ Channel  
104



Cisco AP3700i (4) @ Channel  
124



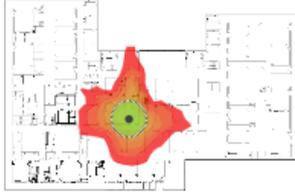
Cisco AP3700i (9) @ Channel  
48



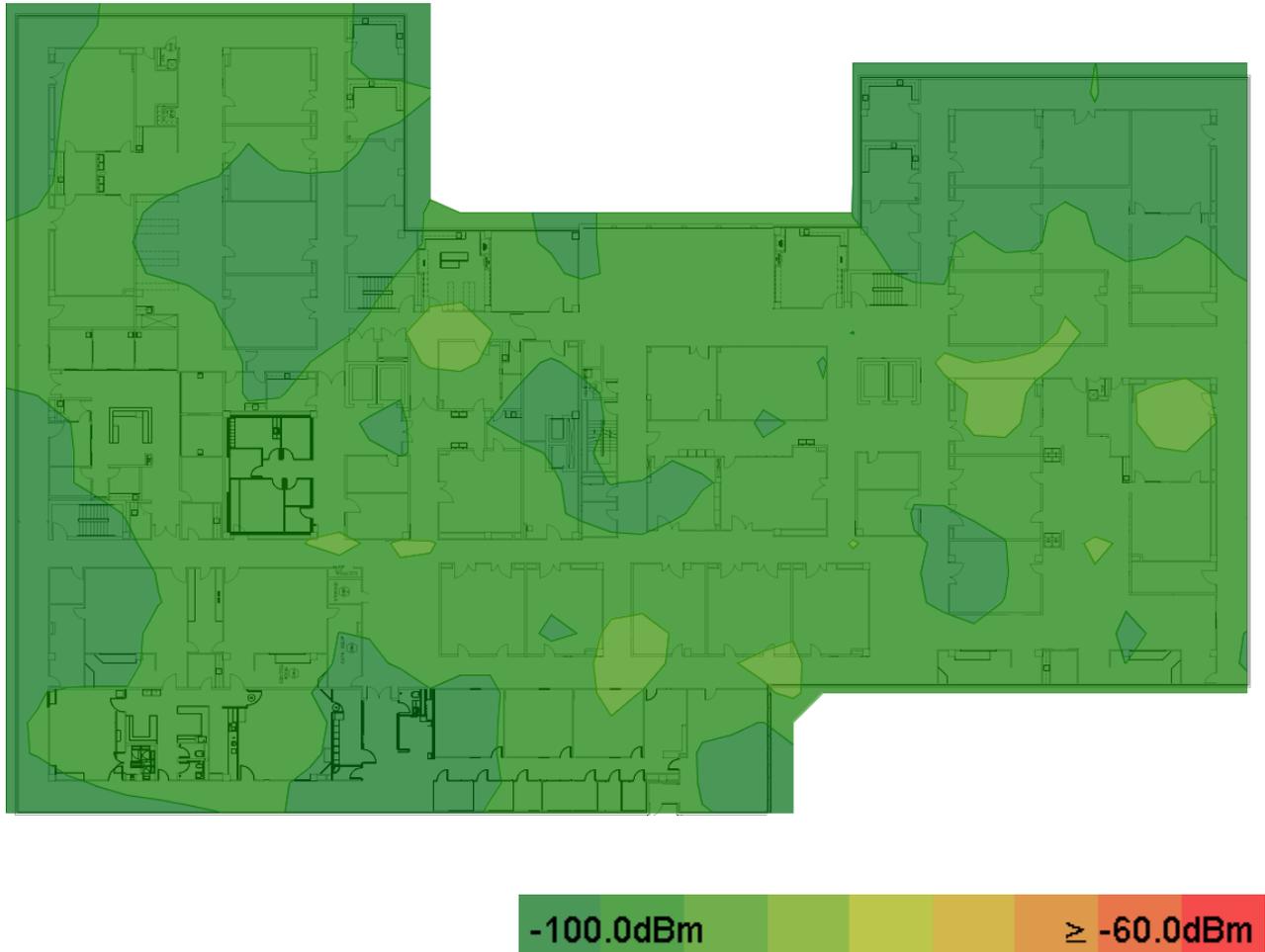
Cisco AP3700i (16) @ Channel  
136



Cisco AP3700i (5) @ Channel  
40



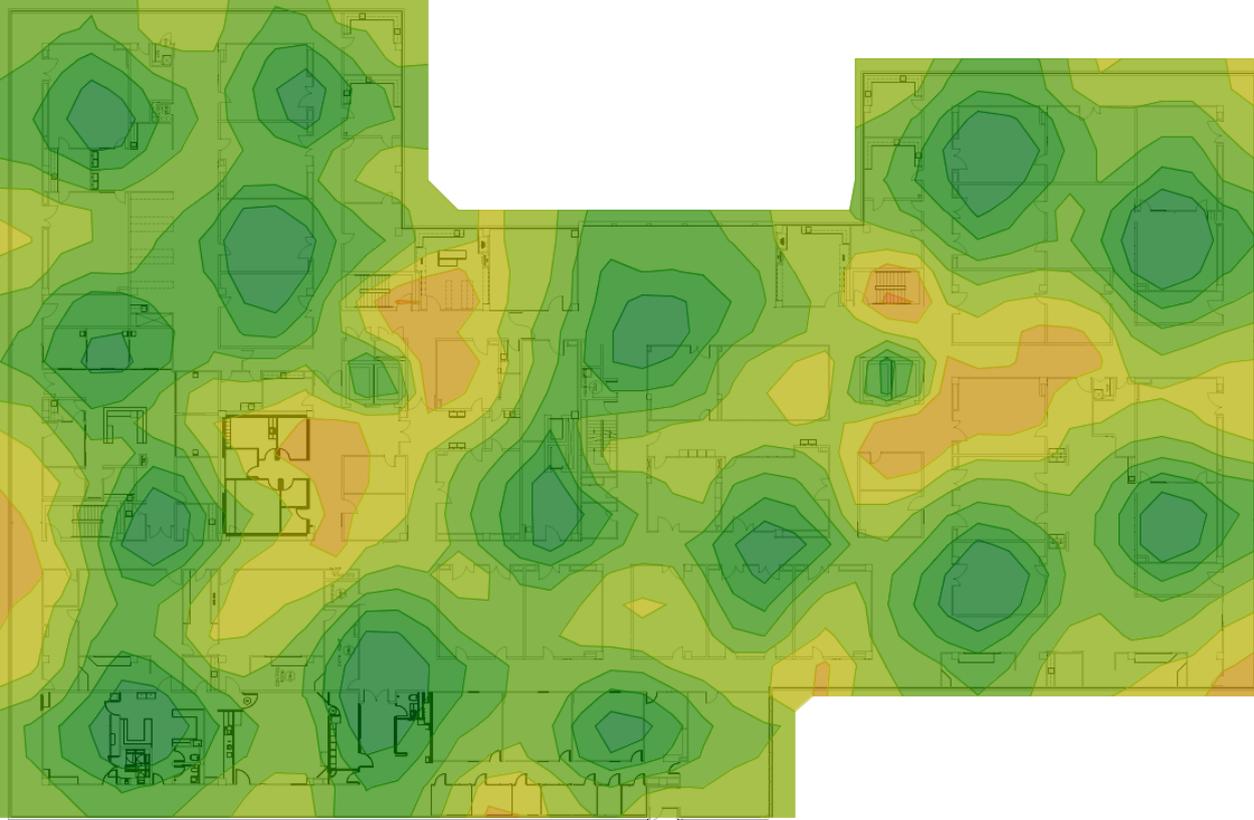
### 3.3.3. Interference 2.4 GHz



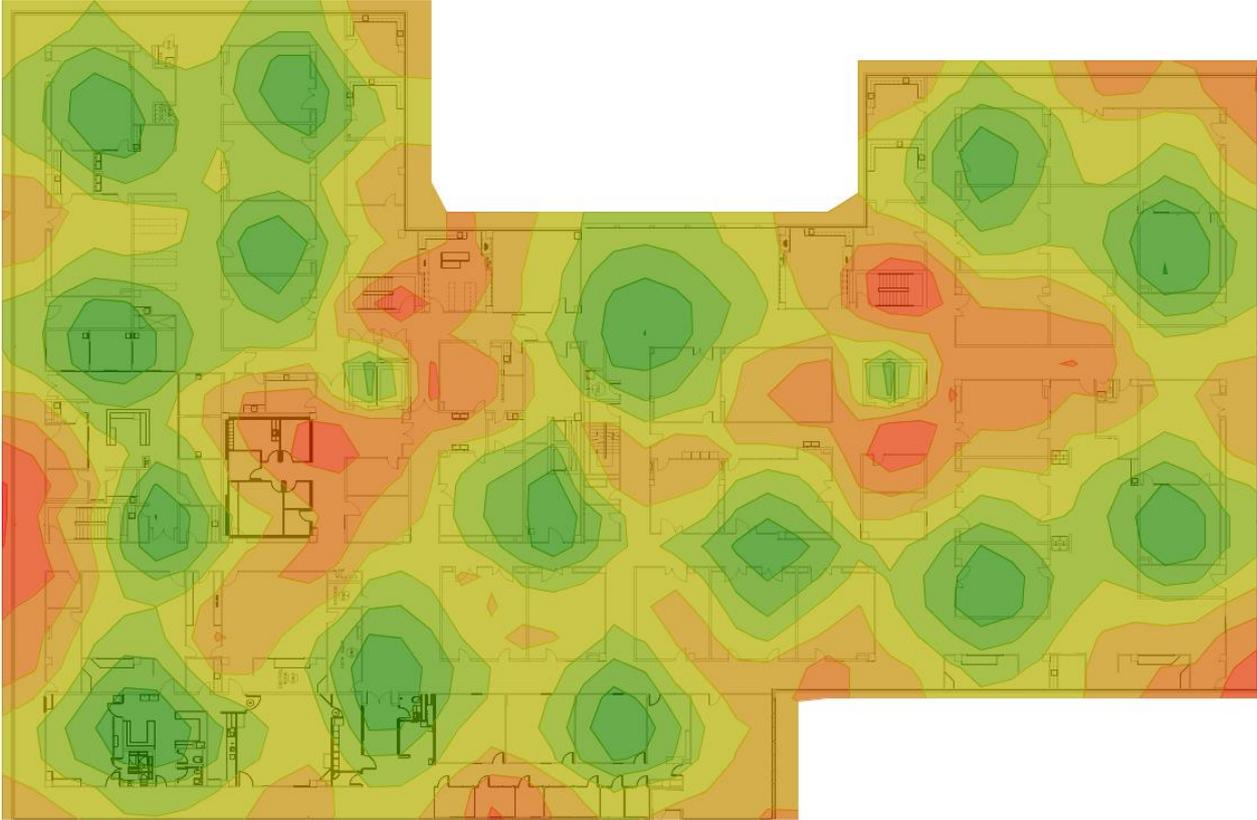
### 3.3.4. Interference 5 GHz



3.3.5. SNR 2.4 GHz



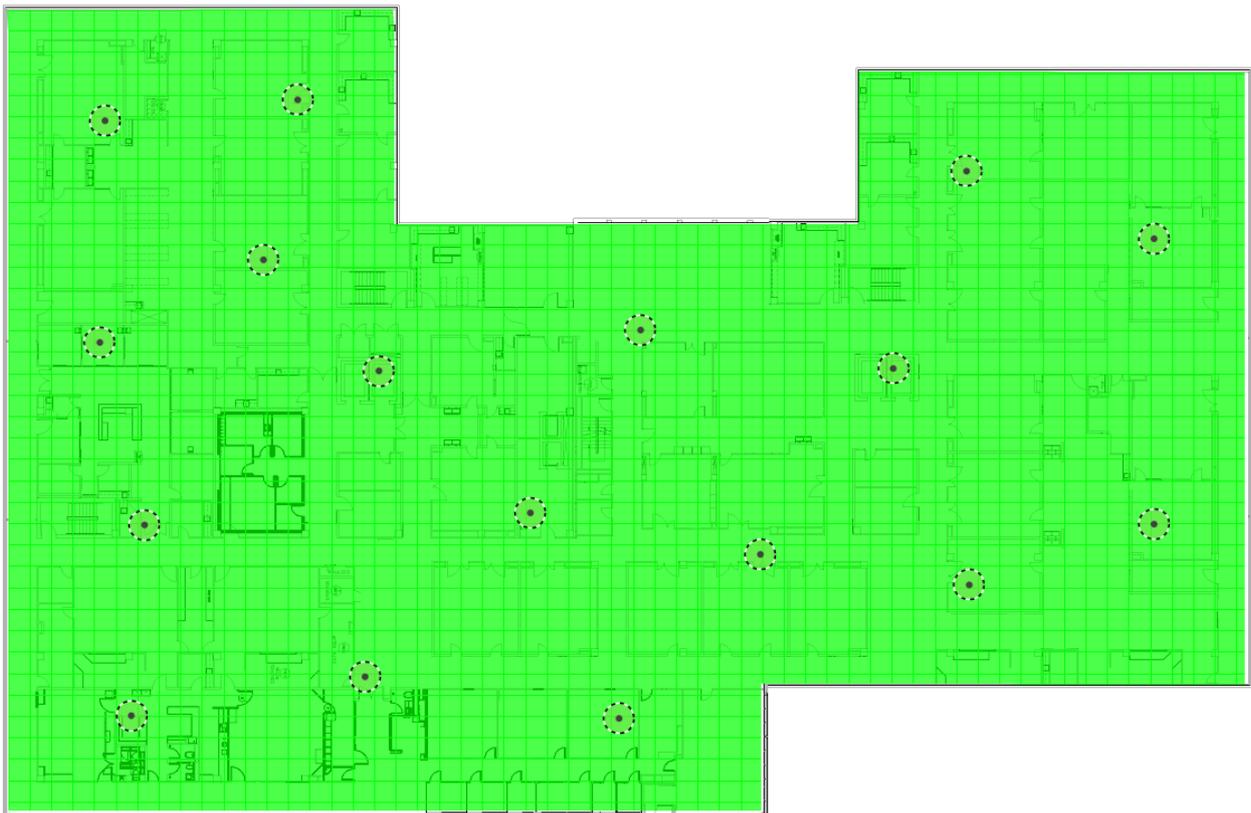
3.3.6. SNR 5 GHz



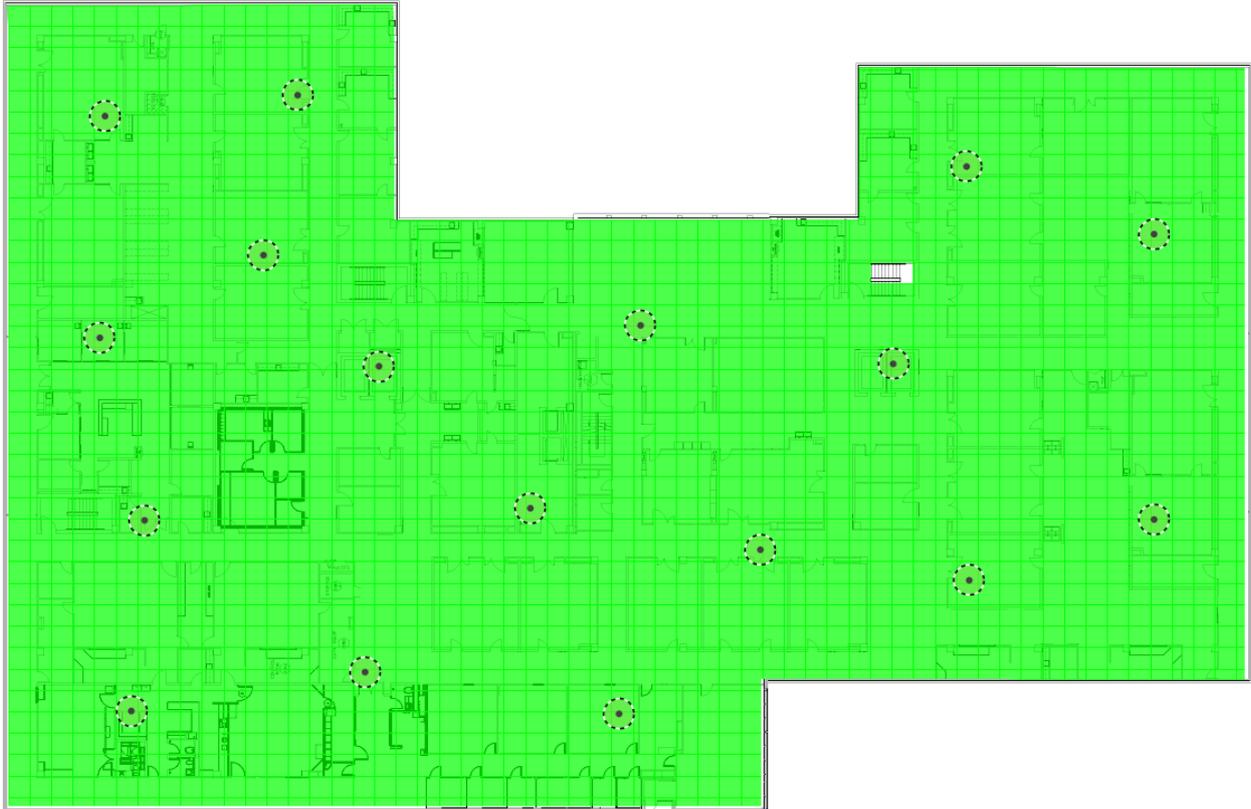
## 3.4. Capacity

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

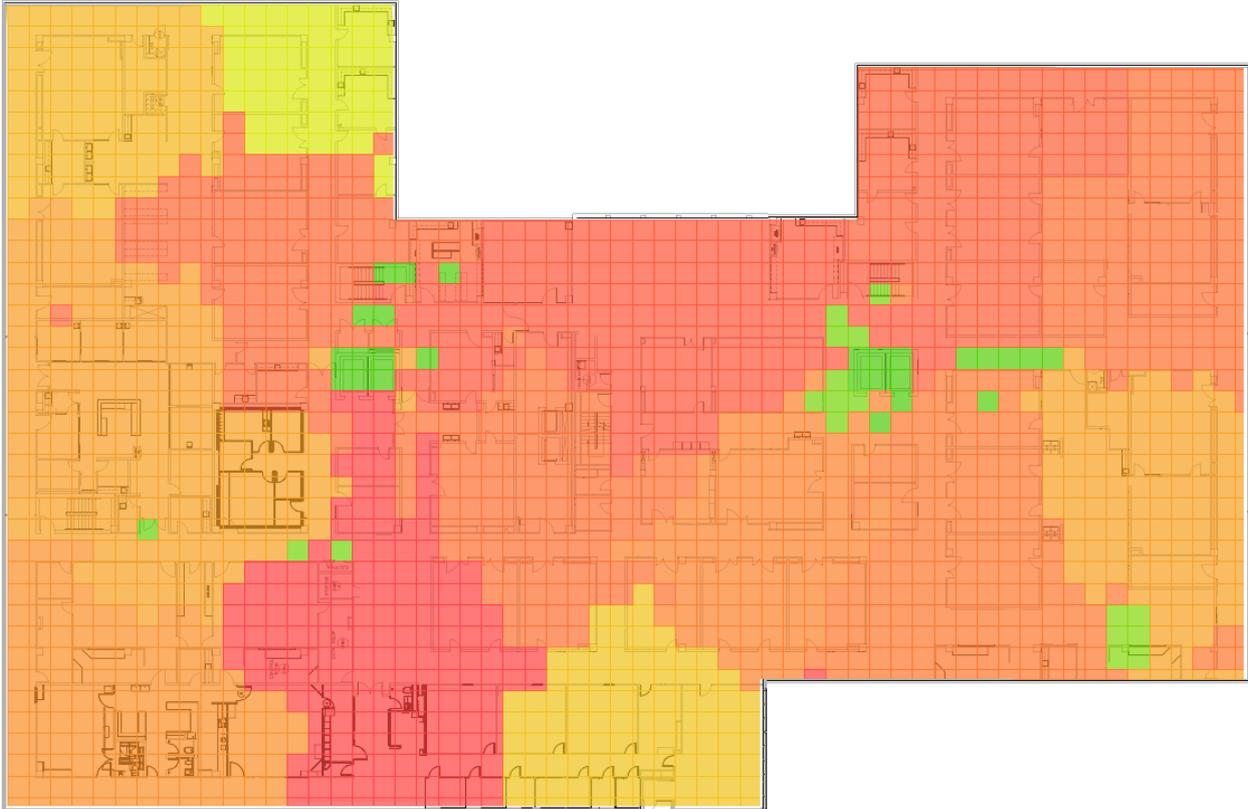
### 3.4.1. Capacity Health 2,4 GHz



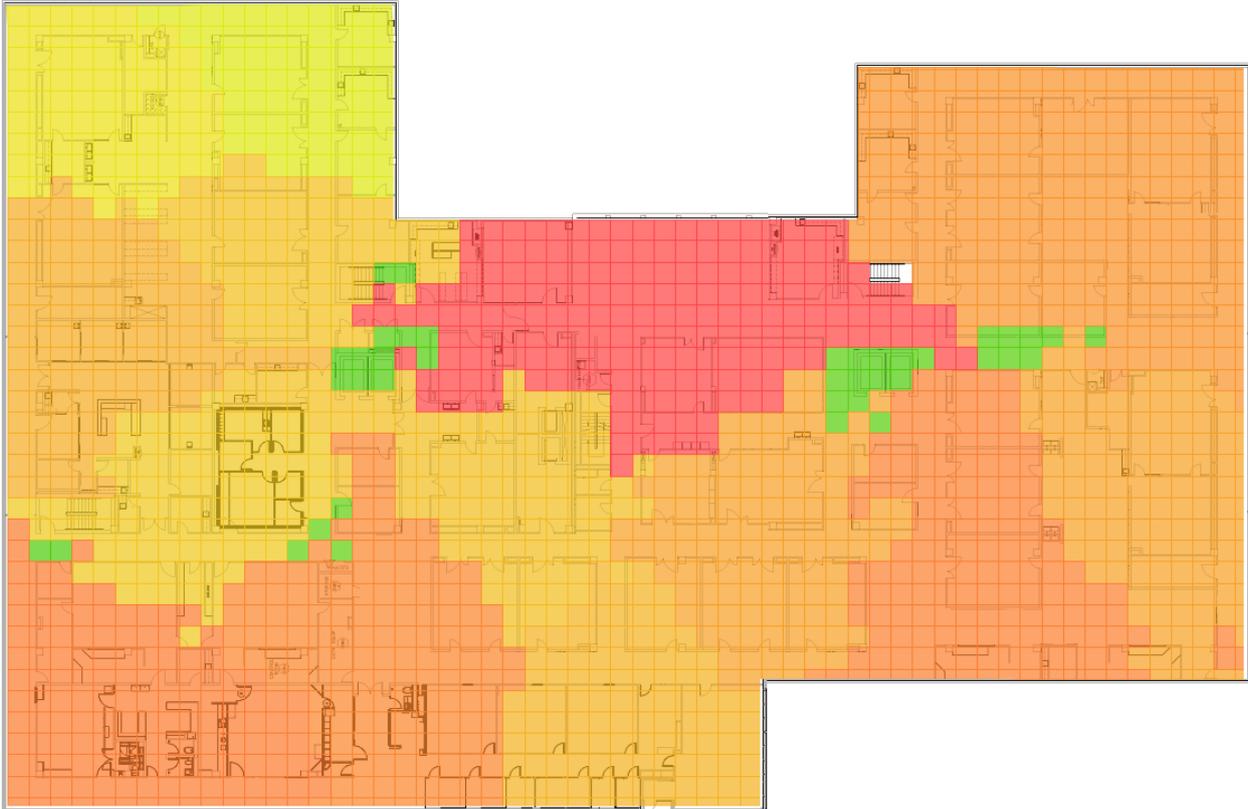
### 3.4.2. Capacity Health 5 GHz



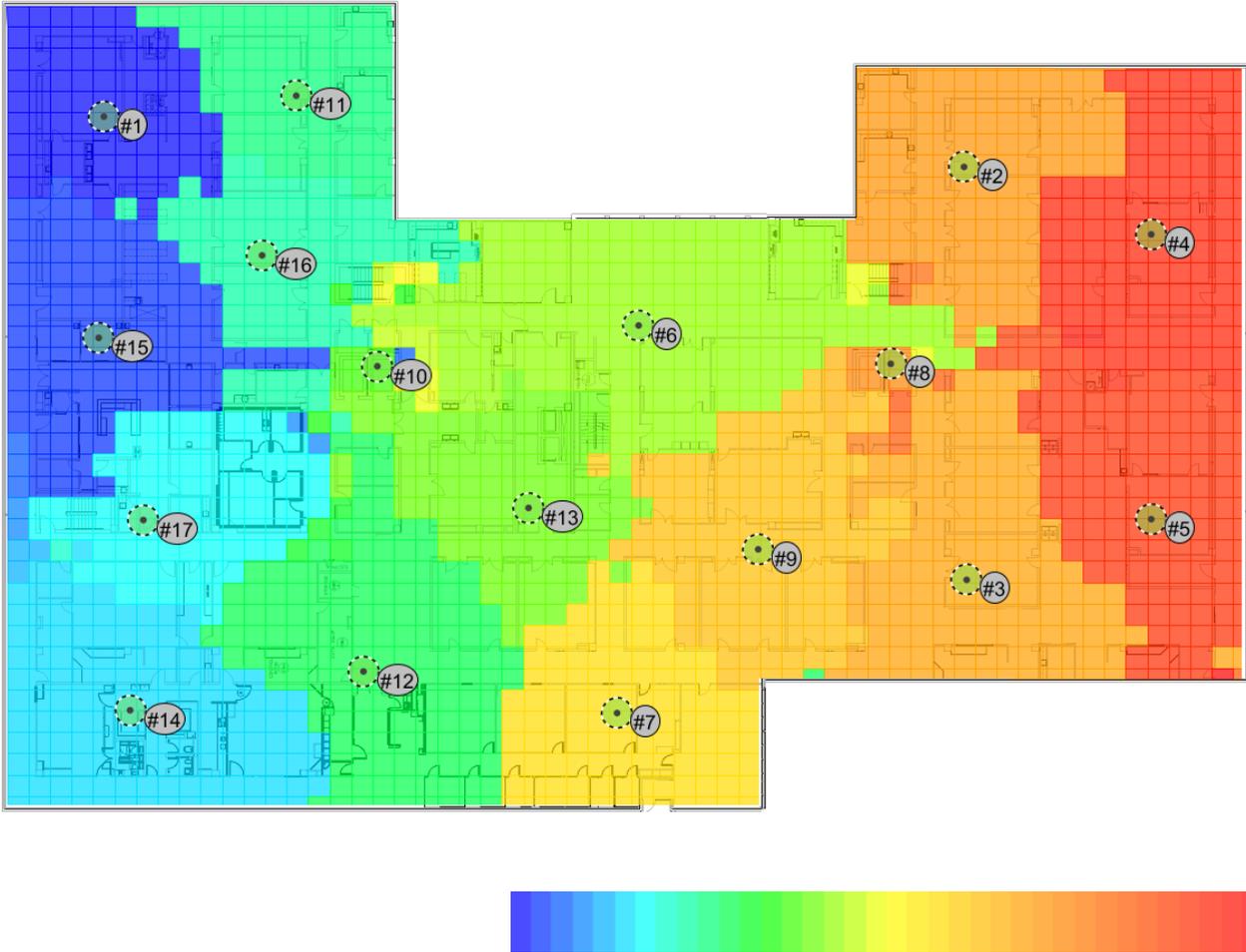
### 3.4.3. Associated Clients 2,4 GHz



### 3.4.4. Associated Clients 5 GHz



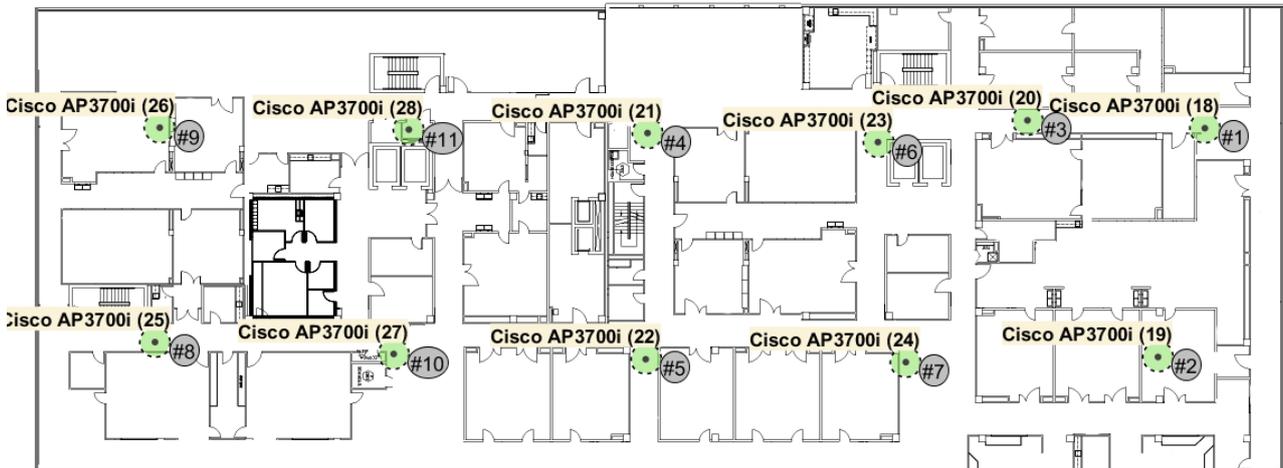
### 3.5. AP Serving Areas



# 4. Map Floor 2

## 4.1. Survey Routes and AP Locations

### 4.1.1. Access Point Locations



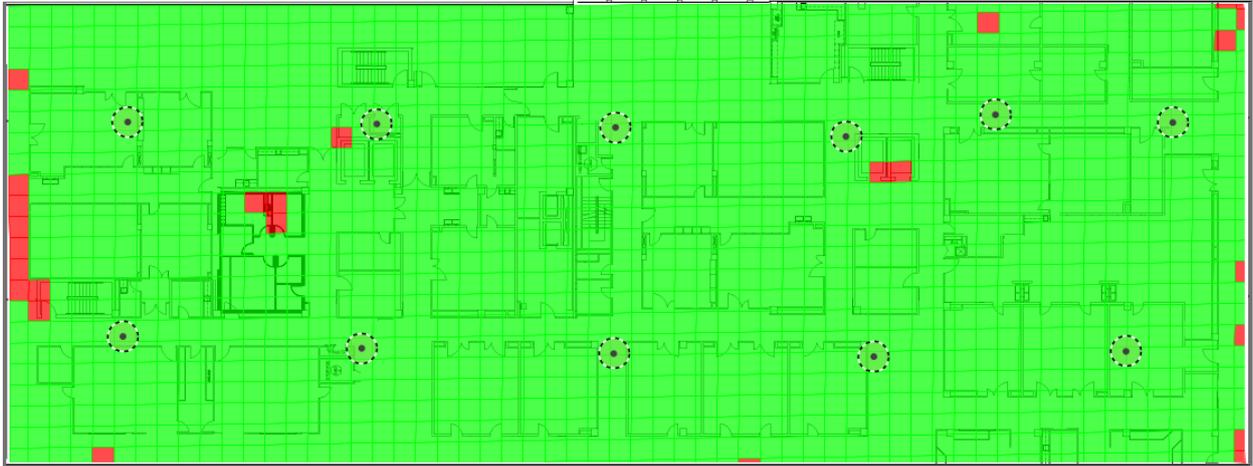
Access Points	
Name: <b>Cisco AP3700i (18) (#1)</b>	Notes:
Radio on channel: <b>1</b>	
Networks:	
Radio on channel: <b>64</b>	
Networks:	
Name: <b>Cisco AP3700i (19) (#2)</b>	Notes:
Radio on channel: <b>6</b>	
Networks:	
Radio on channel: <b>116</b>	
Networks:	
Name: <b>Cisco AP3700i (20) (#3)</b>	Notes:
Radio on channel: <b>11</b>	
Networks:	
Radio on channel: <b>136</b>	
Networks:	
Name: <b>Cisco AP3700i (21) (#4)</b>	Notes:
Radio on channel: <b>1</b>	
Networks:	
Radio on channel: <b>40</b>	
Networks:	

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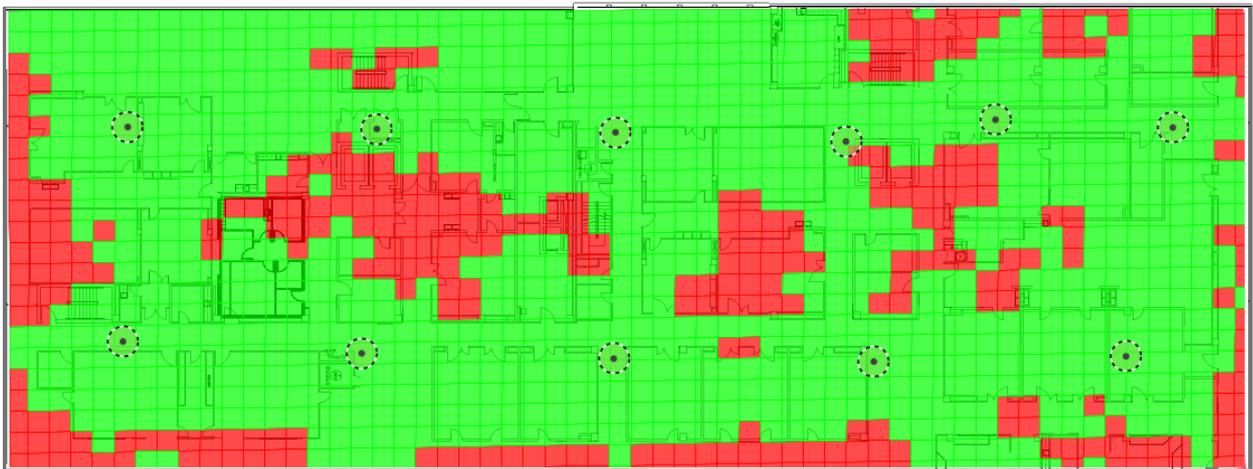
Name: <b>Cisco AP3700i (22) (#5)</b>   Notes:	
Radio on channel: <b>11</b> Networks: Radio on channel: <b>124</b> Networks:	
Name: <b>Cisco AP3700i (23) (#6)</b>   Notes:	
Radio on channel: <b>6</b> Networks: Radio on channel: <b>104</b> Networks:	
Name: <b>Cisco AP3700i (24) (#7)</b>   Notes:	
Radio on channel: <b>1</b> Networks: Radio on channel: <b>52</b> Networks:	
Name: <b>Cisco AP3700i (25) (#8)</b>   Notes:	
Radio on channel: <b>1</b> Networks: Radio on channel: <b>132</b> Networks:	
Name: <b>Cisco AP3700i (26) (#9)</b>   Notes:	
Radio on channel: <b>6</b> Networks: Radio on channel: <b>48</b> Networks:	
Name: <b>Cisco AP3700i (27) (#10)</b>   Notes:	
Radio on channel: <b>6</b> Networks: Radio on channel: <b>60</b> Networks:	
Name: <b>Cisco AP3700i (28) (#11)</b>   Notes:	
Radio on channel: <b>11</b> Networks: Radio on channel: <b>112</b> Networks:	

## 4.2. Network Health

### 4.2.1. 2,4 GHz

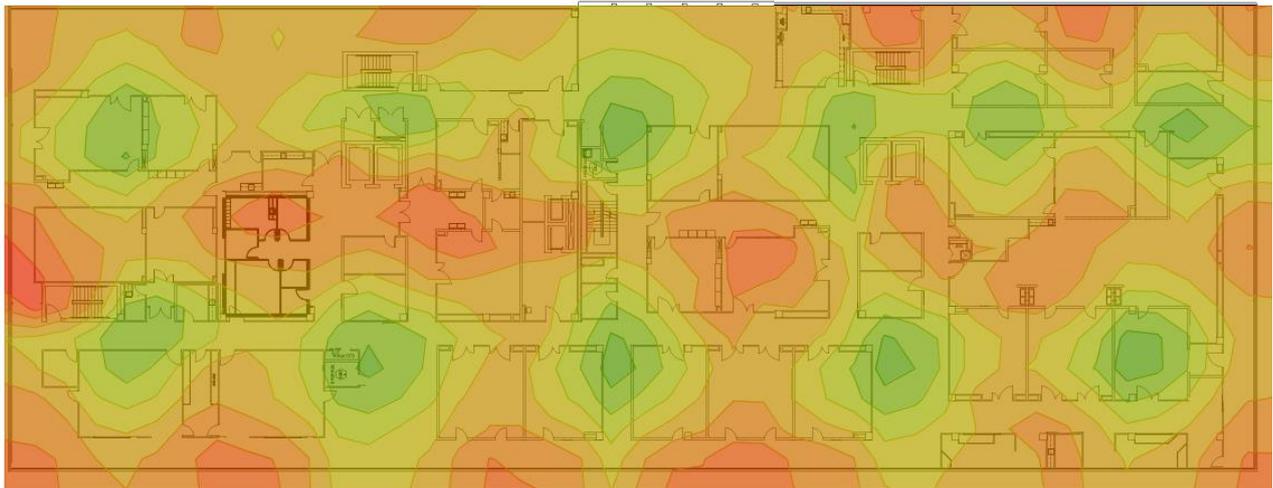


### 4.2.2. 5 GHz

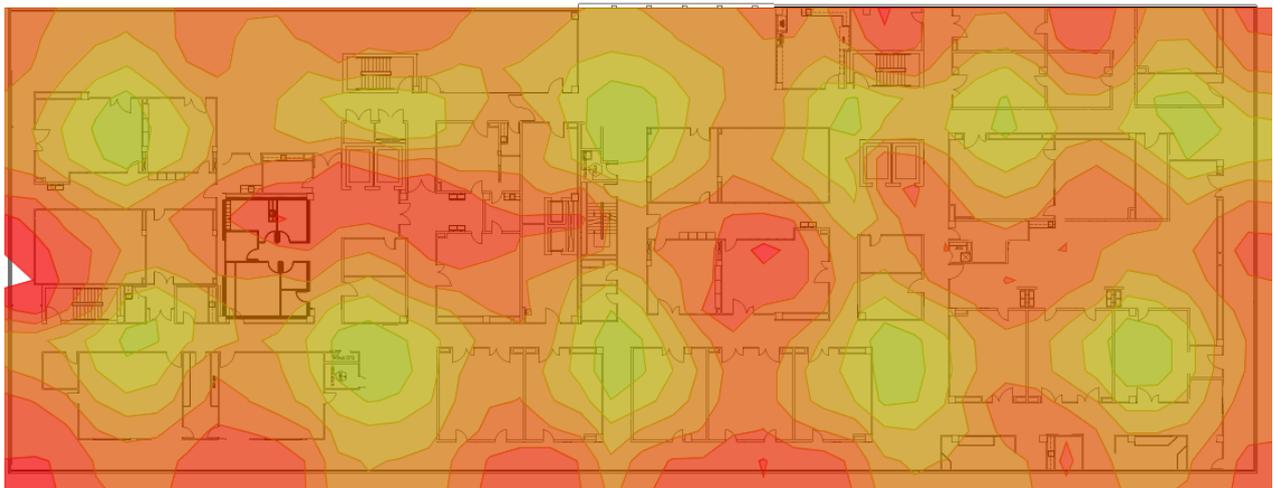


## 4.3. Coverage, Interference and SNR

### 4.3.1. Signal Strength 2.4 GHz

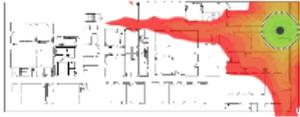


### 4.3.2. Signal Strength 5 GHz

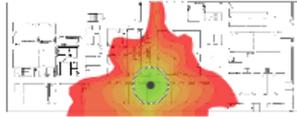


4.3.2.1. Access Point Coverage 2.4 GHz

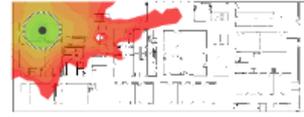
Cisco AP3700i (18) @ Channel 1



Cisco AP3700i (22) @ Channel 11



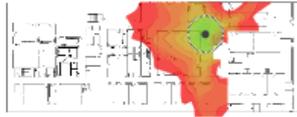
Cisco AP3700i (26) @ Channel 6



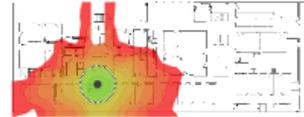
Cisco AP3700i (19) @ Channel 6



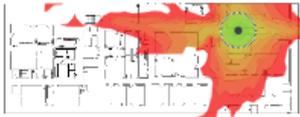
Cisco AP3700i (23) @ Channel 6



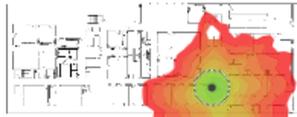
Cisco AP3700i (27) @ Channel 6



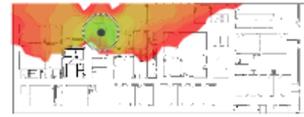
Cisco AP3700i (20) @ Channel 11



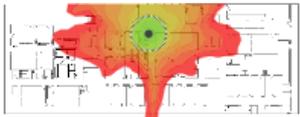
Cisco AP3700i (24) @ Channel 1



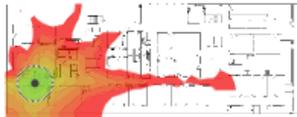
Cisco AP3700i (28) @ Channel 11



Cisco AP3700i (21) @ Channel 1



Cisco AP3700i (25) @ Channel 1

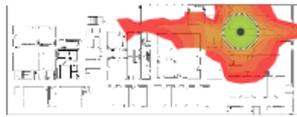


4.3.2.2. Access Point Coverage 5 GHz

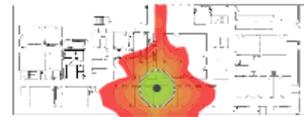
Cisco AP3700i (18) @ Channel 64



Cisco AP3700i (20) @ Channel 136



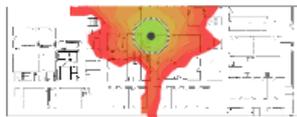
Cisco AP3700i (22) @ Channel 124



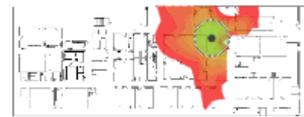
Cisco AP3700i (19) @ Channel 116



Cisco AP3700i (21) @ Channel 40

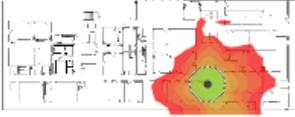


Cisco AP3700i (23) @ Channel 104



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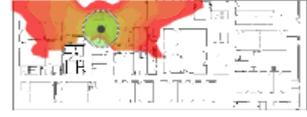
Cisco AP3700i (24) @ Channel  
52



Cisco AP3700i (26) @ Channel  
48



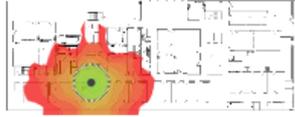
Cisco AP3700i (28) @ Channel  
112



Cisco AP3700i (25) @ Channel  
132



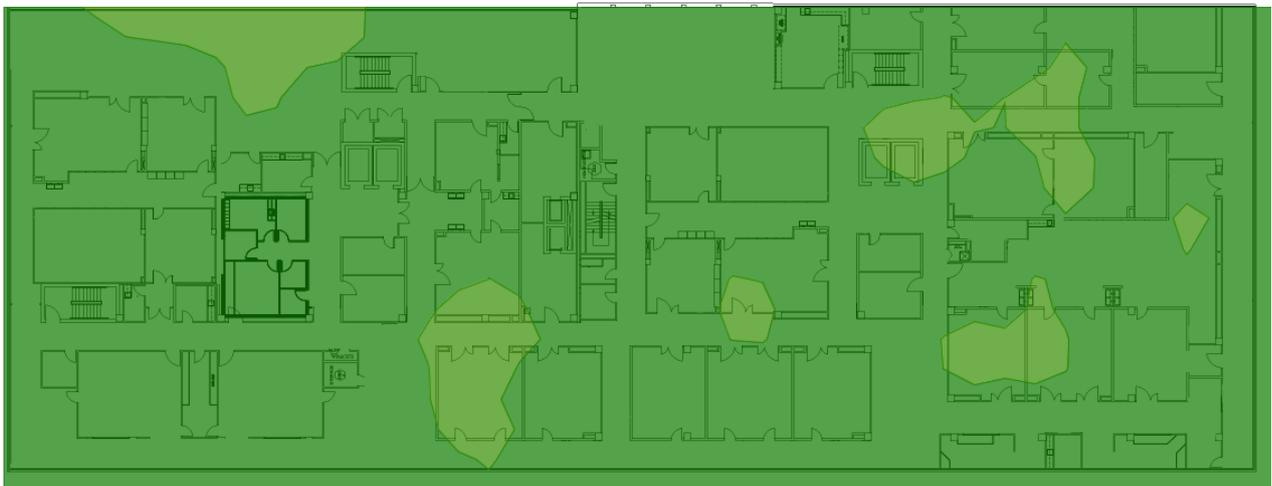
Cisco AP3700i (27) @ Channel  
60



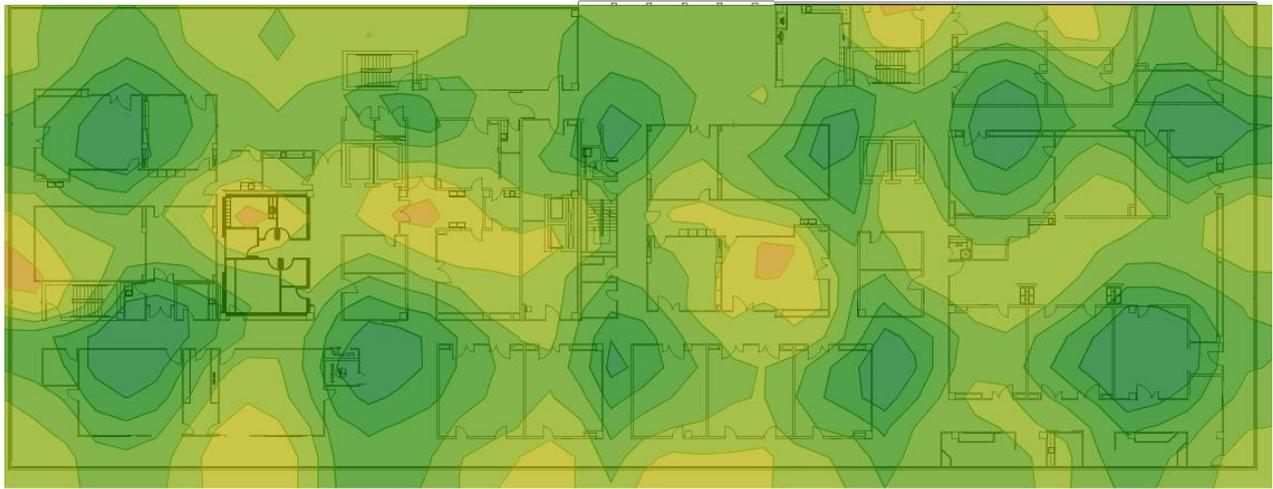
### 4.3.3. Interference 2.4 GHz



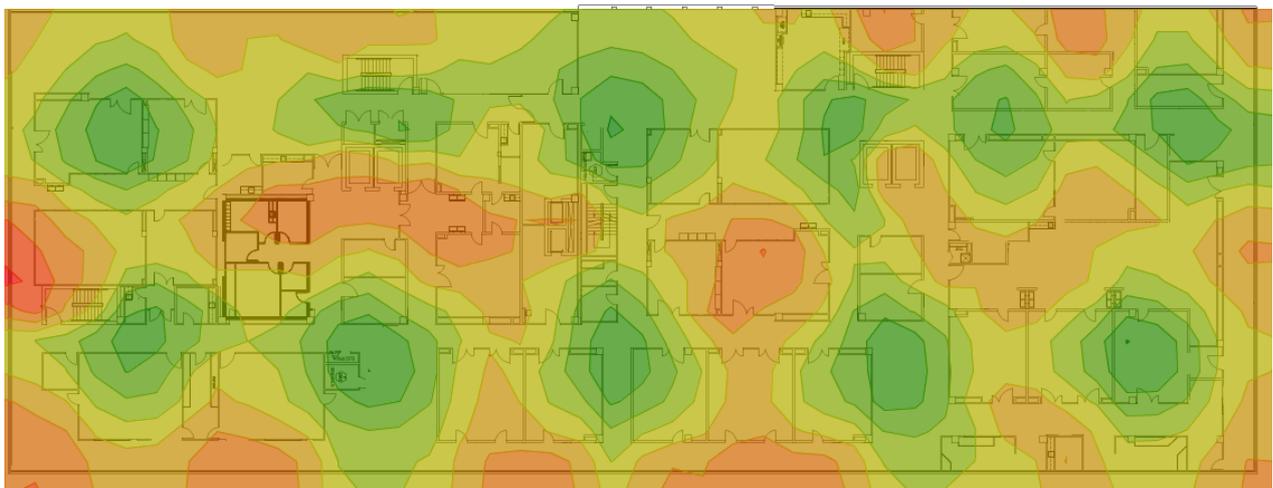
### 4.3.4. Interference 5 GHz



### 4.3.5. SNR 2.4 GHz



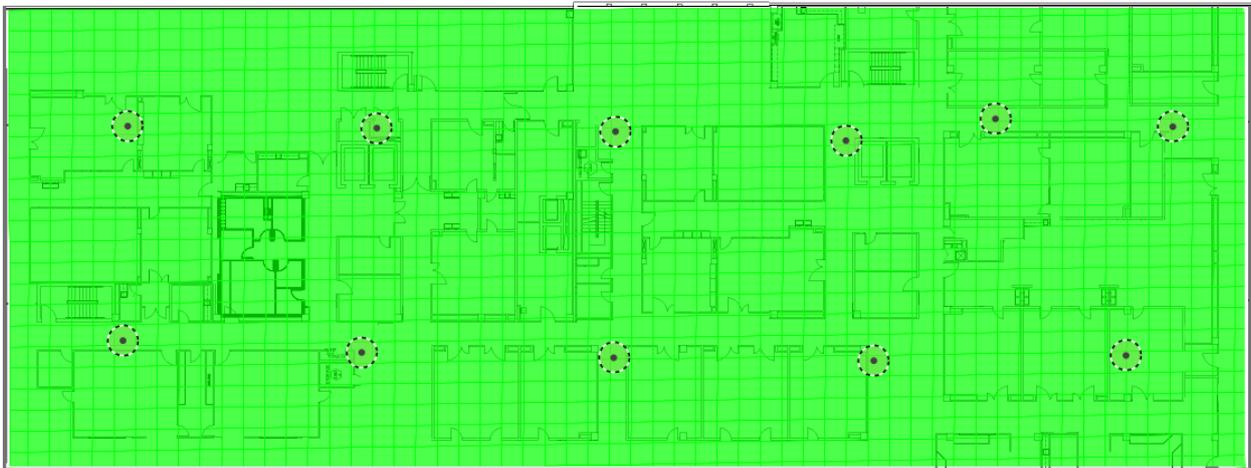
### 4.3.6. SNR 5 GHz



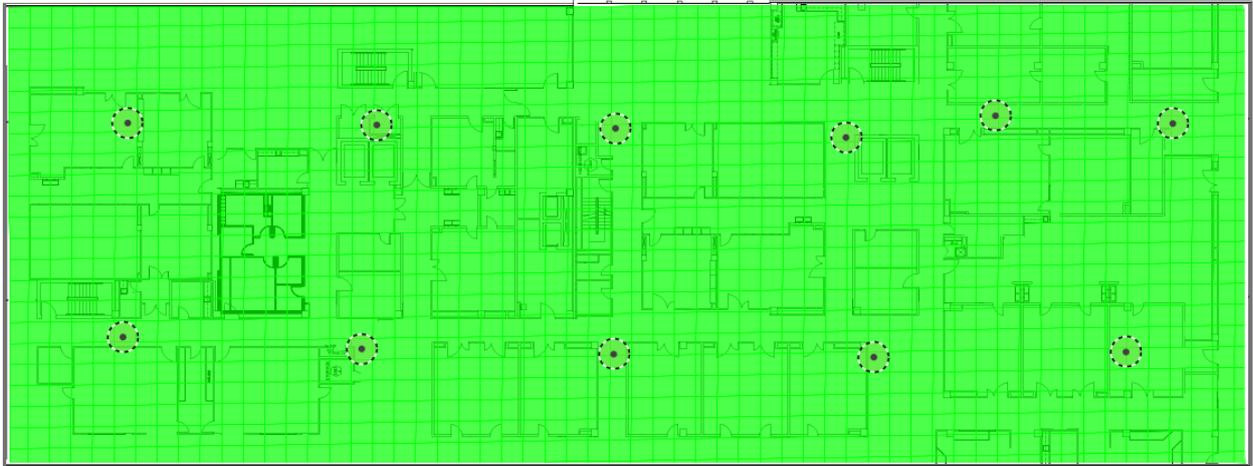
## 4.4. Capacity

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

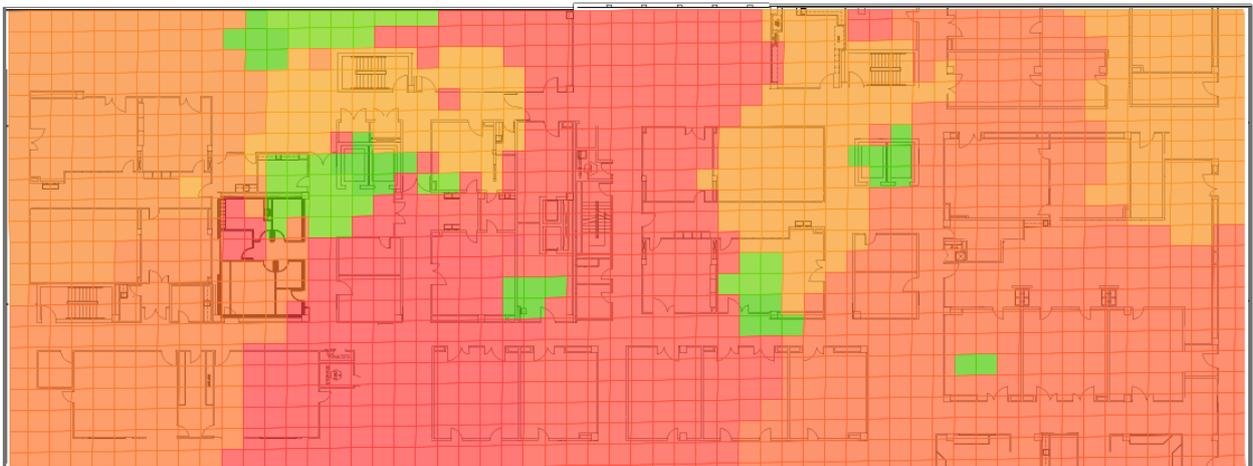
### 4.4.1. Capacity Health 2,4 GHz



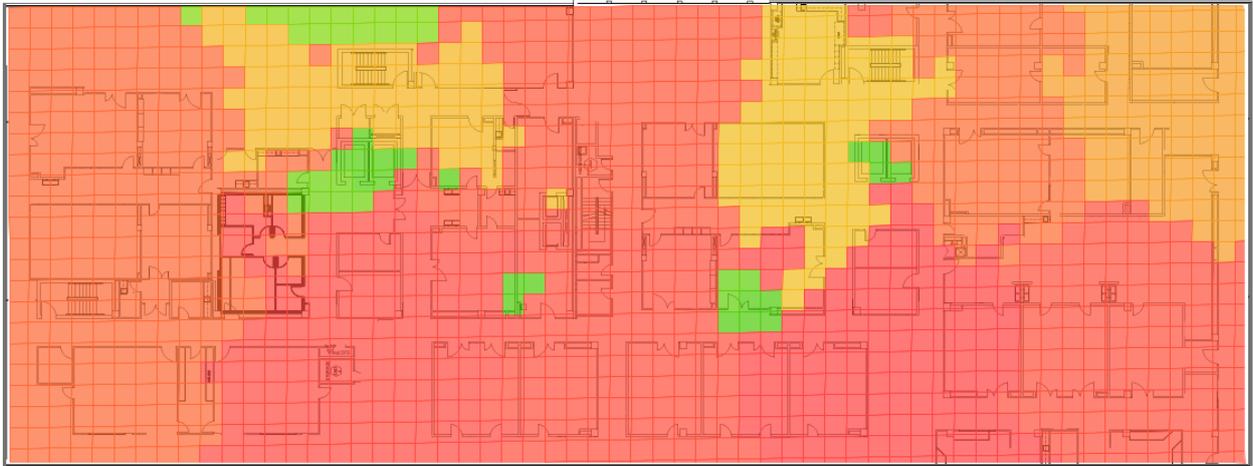
### 4.4.2. Capacity Health 5 GHz



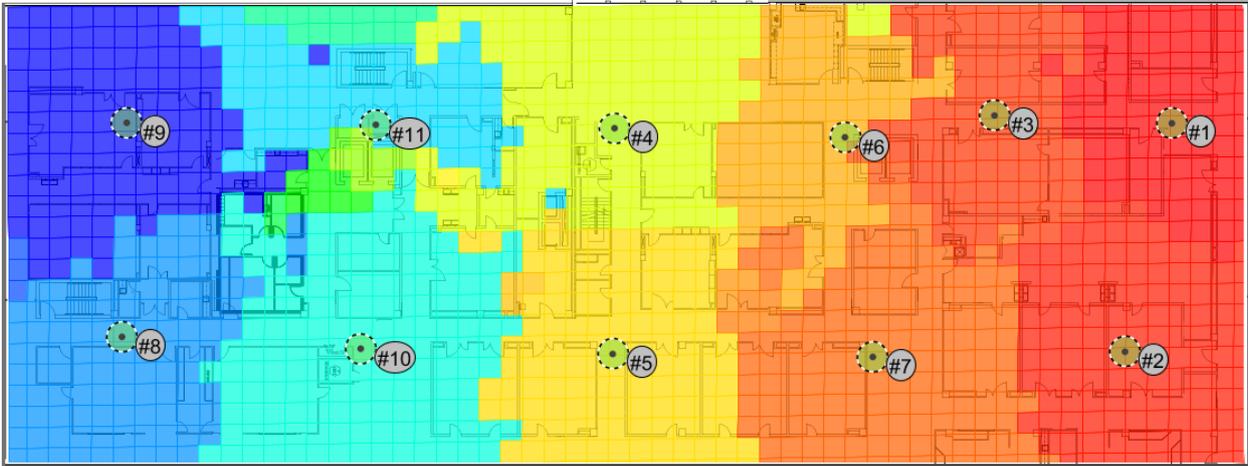
### 4.4.3. Associated Clients 2,4 GHz



### 4.4.4. Associated Clients 5 GHz



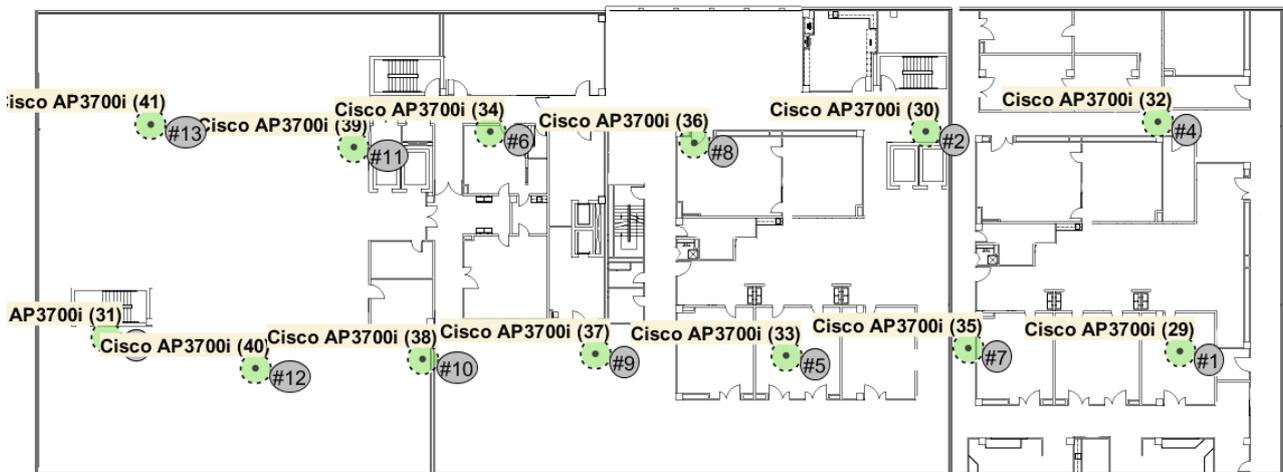
# 4.5. AP Serving Areas



# 5. Map Floor 3

## 5.1. Survey Routes and AP Locations

### 5.1.1. Access Point Locations



Access Points	
Name: <b>Cisco AP3700i (29) (#1)</b>	Notes:
Radio on channel: <b>11</b>	
Networks:	
Radio on channel: <b>64</b>	
Networks:	
Name: <b>Cisco AP3700i (30) (#2)</b>	Notes:
Radio on channel: <b>11</b>	
Networks:	
Radio on channel: <b>52</b>	
Networks:	
Name: <b>Cisco AP3700i (31) (#3)</b>	Notes:
Radio on channel: <b>11</b>	
Networks:	
Radio on channel: <b>64</b>	
Networks:	
Name: <b>Cisco AP3700i (32) (#4)</b>	Notes:
Radio on channel: <b>6</b>	
Networks:	

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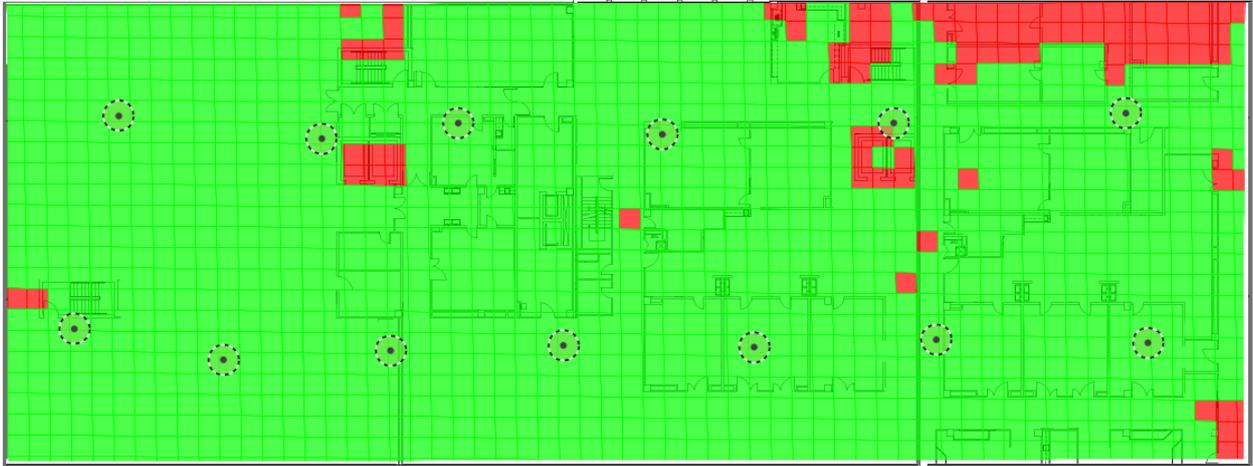
Radio on channel: <b>136</b> Networks:	
Name: <b>Cisco AP3700i (33) (#5)</b>	Notes:
Radio on channel: <b>6</b> Networks: Radio on channel: <b>40</b> Networks:	
Name: <b>Cisco AP3700i (34) (#6)</b>	Notes:
Radio on channel: <b>6</b> Networks: Radio on channel: <b>132</b> Networks:	
Name: <b>Cisco AP3700i (35) (#7)</b>	Notes:
Radio on channel: <b>1</b> Networks: Radio on channel: <b>116</b> Networks:	
Name: <b>Cisco AP3700i (36) (#8)</b>	Notes:
Radio on channel: <b>1</b> Networks: Radio on channel: <b>112</b> Networks:	
Name: <b>Cisco AP3700i (37) (#9)</b>	Notes:
Radio on channel: <b>11</b> Networks: Radio on channel: <b>60</b> Networks:	
Name: <b>Cisco AP3700i (38) (#10)</b>	Notes:
Radio on channel: <b>1</b> Networks: Radio on channel: <b>120</b> Networks:	
Name: <b>Cisco AP3700i (39) (#11)</b>	Notes:
Radio on channel: <b>11</b> Networks: Radio on channel: <b>56</b> Networks:	
Name: <b>Cisco AP3700i (40) (#12)</b>	Notes:
Radio on channel: <b>6</b> Networks: Radio on channel: <b>36</b>	

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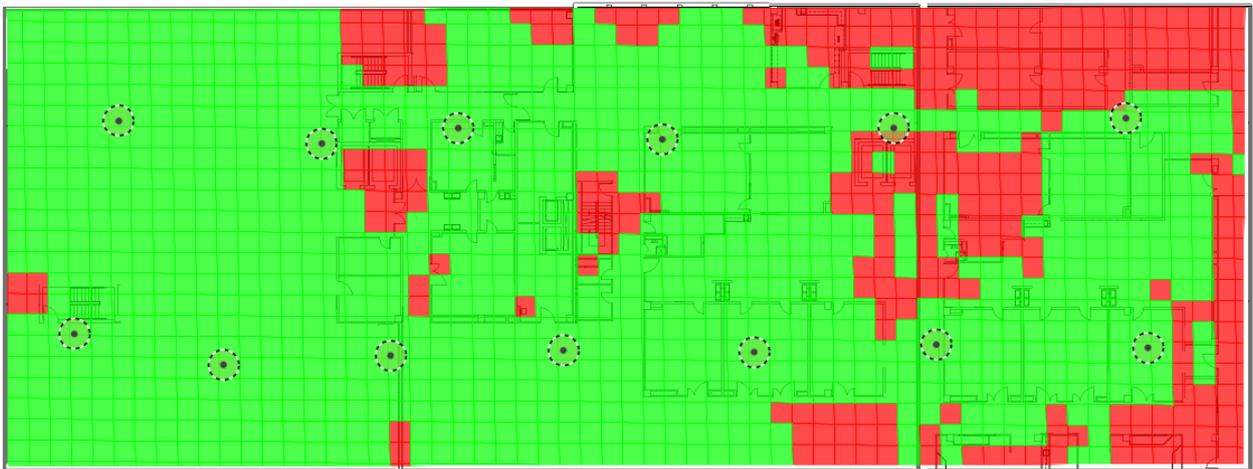
Networks:	
Name: <b>Cisco AP3700i (41) (#13)</b>	Notes:
Radio on channel: <b>1</b>	
Networks:	
Radio on channel: <b>108</b>	
Networks:	

## 5.2. Network Health

### 5.2.1. 2,4 GHz

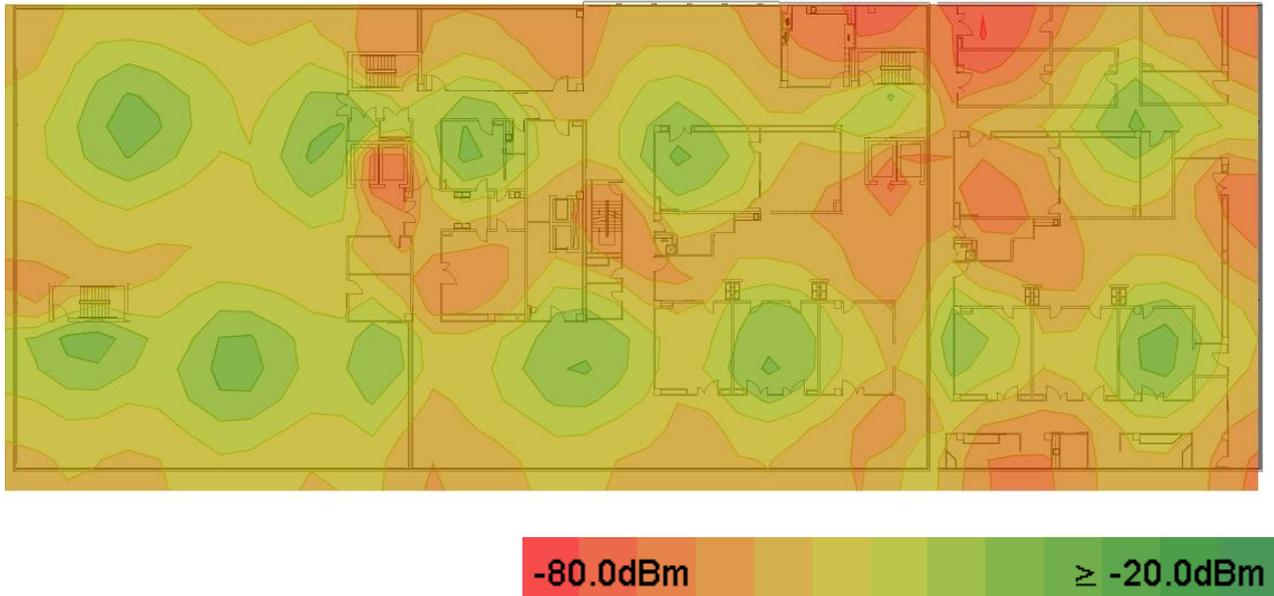


### 5.2.2. 5 GHz

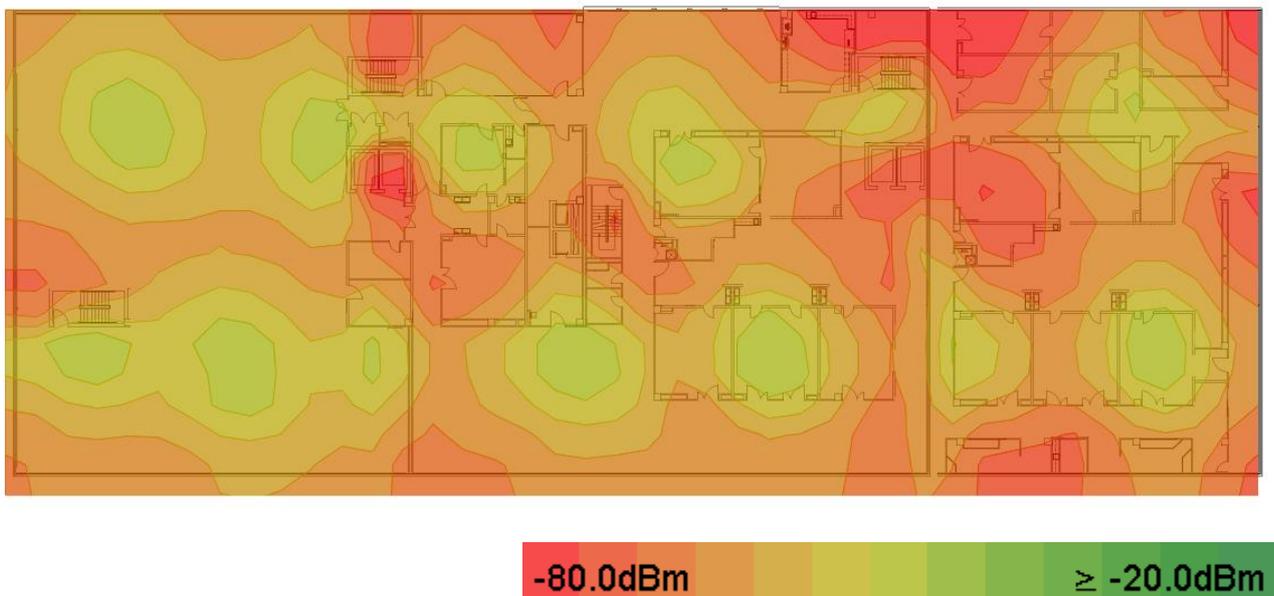


## 5.3. Coverage, Interference and SNR

### 5.3.1. Signal Strength 2.4 GHz



### 5.3.2. Signal Strength 5 GHz

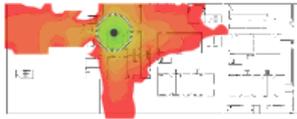


5.3.2.1. Access Point Coverage 2.4 GHz

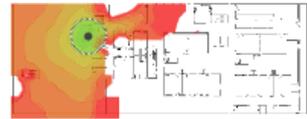
Cisco AP3700i (29) @ Channel 11



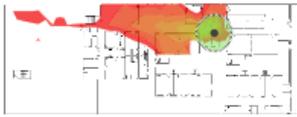
Cisco AP3700i (34) @ Channel 6



Cisco AP3700i (39) @ Channel 11



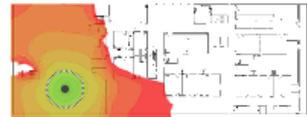
Cisco AP3700i (30) @ Channel 11



Cisco AP3700i (35) @ Channel 1



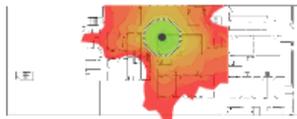
Cisco AP3700i (40) @ Channel 6



Cisco AP3700i (31) @ Channel 11



Cisco AP3700i (36) @ Channel 1



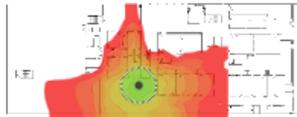
Cisco AP3700i (41) @ Channel 1



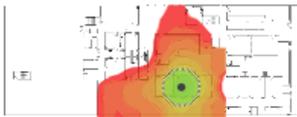
Cisco AP3700i (32) @ Channel 6



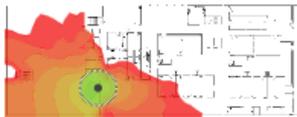
Cisco AP3700i (37) @ Channel 11



Cisco AP3700i (33) @ Channel 6



Cisco AP3700i (38) @ Channel 1

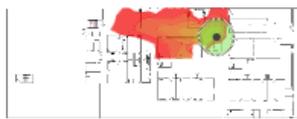


5.3.2.2. Access Point Coverage 5 GHz

Cisco AP3700i (29) @ Channel 64



Cisco AP3700i (30) @ Channel 52



Cisco AP3700i (31) @ Channel 64

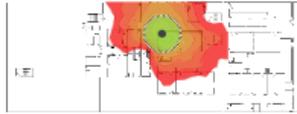


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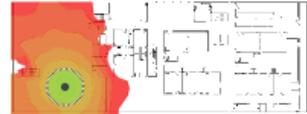
Cisco AP3700i (32) @ Channel  
136



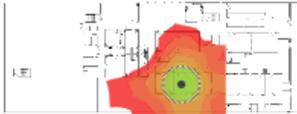
Cisco AP3700i (36) @ Channel  
112



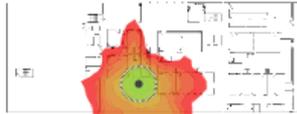
Cisco AP3700i (40) @ Channel  
36



Cisco AP3700i (33) @ Channel  
40



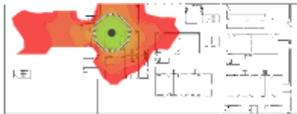
Cisco AP3700i (37) @ Channel  
60



Cisco AP3700i (41) @ Channel  
108



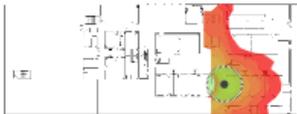
Cisco AP3700i (34) @ Channel  
132



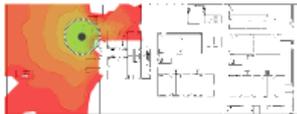
Cisco AP3700i (38) @ Channel  
120



Cisco AP3700i (35) @ Channel  
116



Cisco AP3700i (39) @ Channel  
56



### 5.3.3. Interference 2.4 GHz



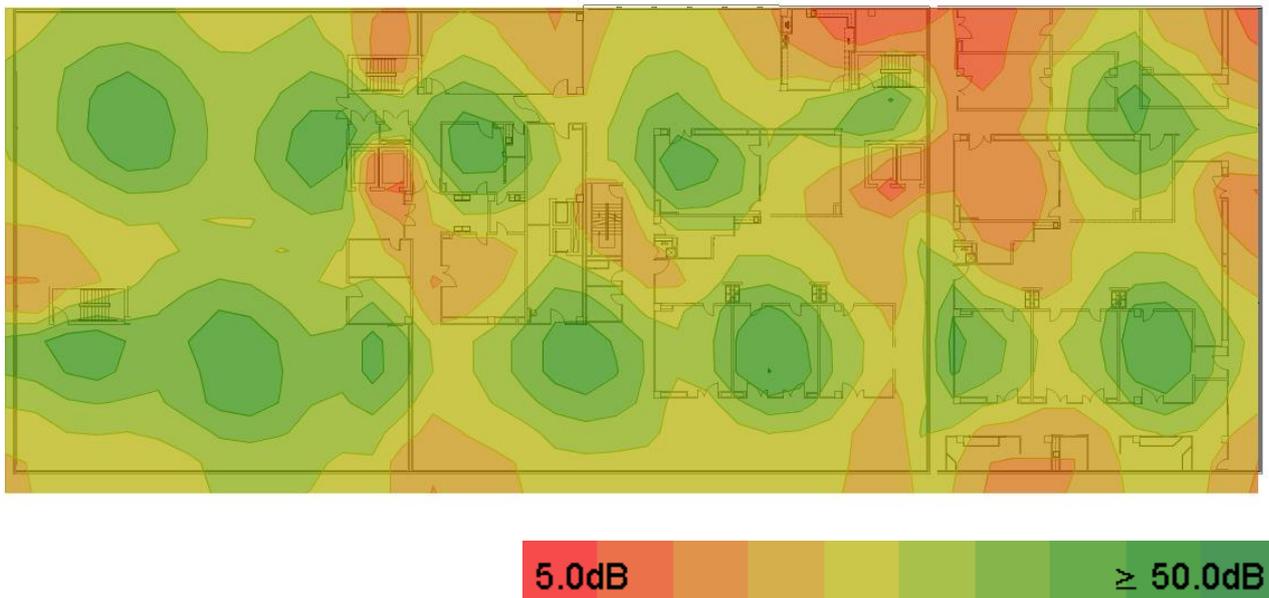
### 5.3.4. Interference 5 GHz



### 5.3.5. SNR 2.4 GHz



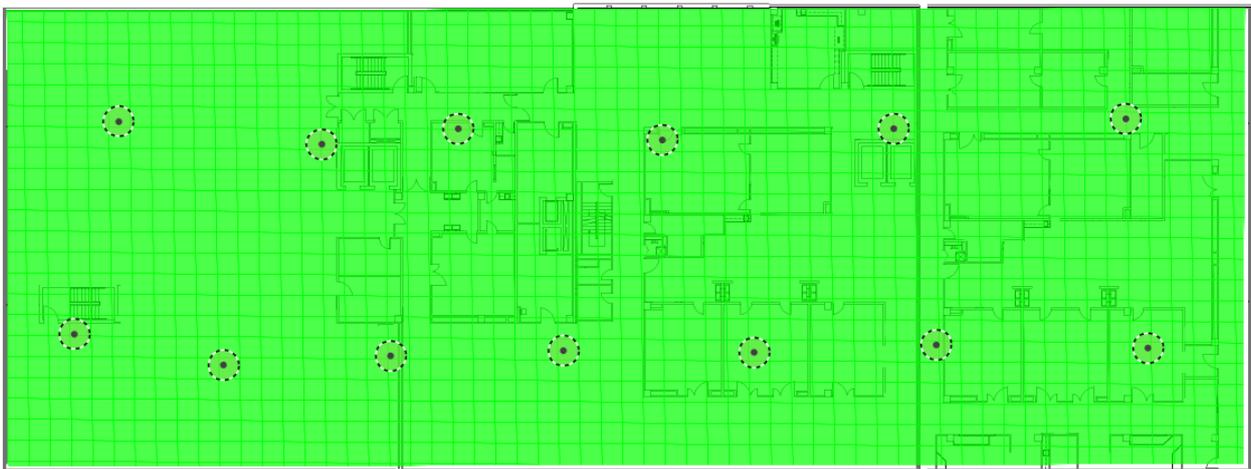
### 5.3.6. SNR 5 GHz



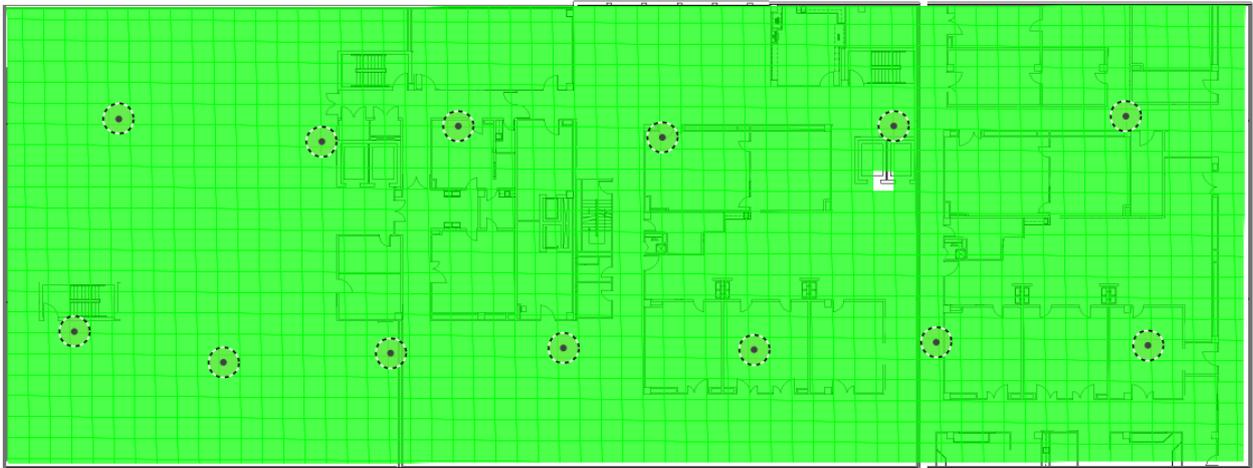
## 5.4. Capacity

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

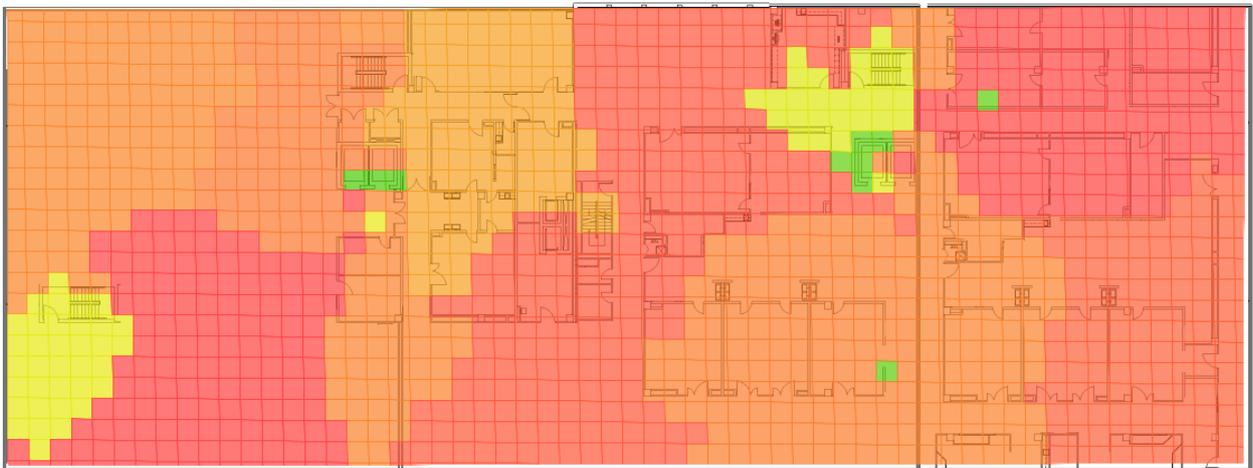
### 5.4.1. Capacity Health 2,4 GHz



### 5.4.2. Capacity Health 5 GHz



### 5.4.3. Associated Clients 2,4 GHz



### 5.4.4. Associated Clients 5 GHz



## 5.5. AP Serving Areas

