

Site Survey Report

AV měření komplet

1. Customer Requirements

1.1. Coverage Requirements

Signal Strength Min	-67.0 dBm	
Secondary Signal Strength Min	-75.0 dBm	
Signal-to-noise Ratio Min	20.0 dB	
Data rate Min	20 Mbps	
Channel Interference Max	2	at min. -85.0 dBm
Round Trip Time (RTT) Max	200 ms	
Packet Loss Max	2.0 %	

1.2. Capacity Requirements

Amount	Device
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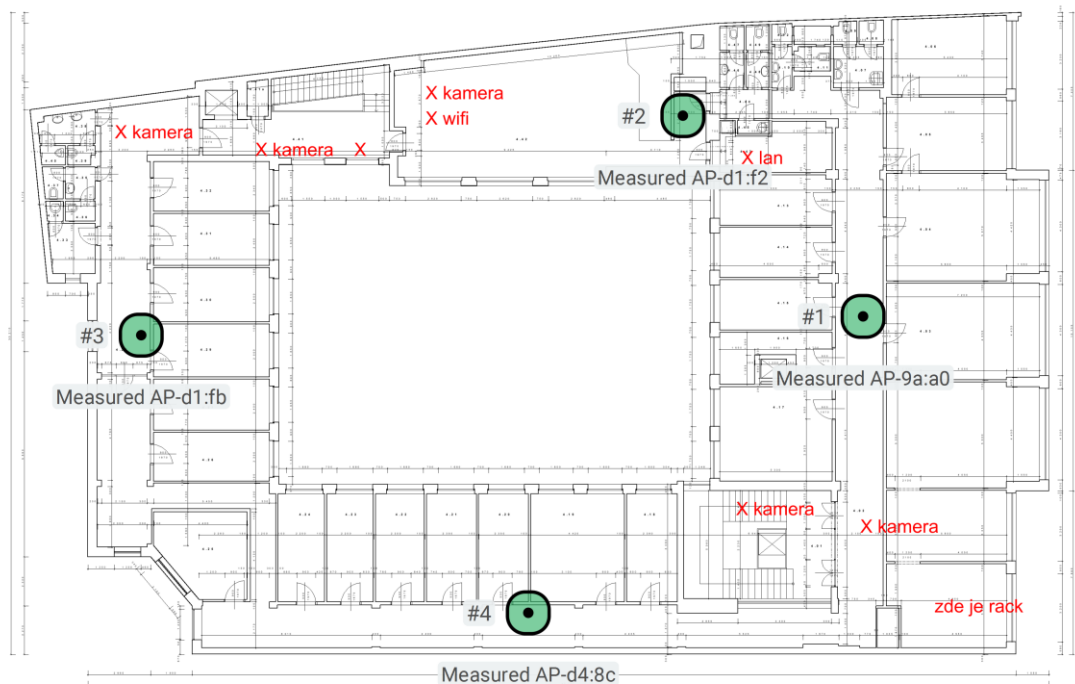
2. Map Coverage Areas

Map	Name	Coverage Area
	Na_Florenci_- _rozmi_ste_ni_RJ45_pro_AP2 3	927 m ²
	Na_Florenci_- _rozmi_ste_ni_RJ45_pro_AP2 4	425

3. 7NP

3.1. Survey Routes and AP Locations

3.1.1. Access Point Locations



Access Points	
Name: Measured AP-9a:a0 (#1)	Notes:
Radio on channel: 9@40	
Networks:	
Mac: b0:48:7a:a0:9a:a0 , SSID: domaNETik , Technology: 802.11n	
Name: Measured AP-d1:f2 (#2)	Notes:
Radio on channel: 4	
Networks:	
Mac: 88:dc:96:81:d1:fe , SSID: VanCo TEST , Technology: 802.11n	
Mac: 88:dc:96:81:d1:fe , SSID: VanCo TEST , Technology: 802.11n	
Mac: 88:dc:96:81:d1:fe , SSID: VanCo TEST , Technology: 802.11n	
Mac: 88:dc:96:81:d1:fe , SSID: VanCo TEST , Technology: 802.11n	
Radio on channel: 4	
Networks:	
Mac: 88:dc:96:81:d1:f5 , SSID: VanCo TEST , Technology: 802.11n	
Mac: 88:dc:96:81:d1:f5 , SSID: VanCo TEST , Technology: 802.11n	
Mac: 88:dc:96:81:d1:f5 , SSID: VanCo TEST , Technology: 802.11n	
Mac: 88:dc:96:81:d1:f5 , SSID: VanCo TEST , Technology: 802.11n	

Radio on channel: 4

Networks:

Mac: **88:dc:96:81:d1:f8**, SSID: **VanCo TEST**, Technology: **802.11n**

Mac: **88:dc:96:81:d1:f8**, SSID: **VanCo TEST**, Technology: **802.11n**

Mac: **88:dc:96:81:d1:f8**, SSID: **VanCo TEST**, Technology: **802.11n**

Mac: **88:dc:96:81:d1:f8**, SSID: **VanCo TEST**, Technology: **802.11n**

Radio on channel: 4

Networks:

Mac: **88:dc:96:81:d1:fb**, SSID: **VanCo TEST**, Technology: **802.11n**

Mac: **88:dc:96:81:d1:fb**, SSID: **VanCo TEST**, Technology: **802.11n**

Mac: **88:dc:96:81:d1:fb**, SSID: **VanCo TEST**, Technology: **802.11n**

Mac: **88:dc:96:81:d1:fb**, SSID: **VanCo TEST**, Technology: **802.11n**

Radio on channel: 4

Networks:

Mac: **88:dc:96:81:d1:f2**, SSID: **VanCo TEST**, Technology: **802.11n**

Mac: **88:dc:96:81:d1:f2**, SSID: **VanCo TEST**, Technology: **802.11n**

Mac: **88:dc:96:81:d1:f2**, SSID: **VanCo TEST**, Technology: **802.11n**

Mac: **88:dc:96:81:d1:f2**, SSID: **VanCo TEST**, Technology: **802.11n**

Radio on channel: **60@40**

Networks:

Mac: **88:dc:96:81:d1:ff**, SSID: **VanCo TEST**, Technology: **802.11ac**

Mac: **88:dc:96:81:d1:ff**, SSID: **VanCo TEST**, Technology: **802.11ac**

Radio on channel: **60@40**

Networks:

Mac: **88:dc:96:81:d1:f9**, SSID: **VanCo TEST**, Technology: **802.11ac**

Mac: **88:dc:96:81:d1:f9**, SSID: **VanCo TEST**, Technology: **802.11ac**

Radio on channel: **60@40**

Networks:

Mac: **88:dc:96:81:d1:f6**, SSID: **VanCo TEST**, Technology: **802.11ac**

Radio on channel: **116@40**

Networks:

Mac: **88:dc:96:81:d1:f3**, SSID: **VanCo TEST**, Technology: **802.11ac**

Mac: **88:dc:96:81:d1:f3**, SSID: **VanCo TEST**, Technology: **802.11ac**

Radio on channel: **120@40**

Networks:

Mac: **88:dc:96:81:d1:fc**, SSID: **VanCo TEST**, Technology: **802.11ac**

Mac: **88:dc:96:81:d1:fc**, SSID: **VanCo TEST**, Technology: **802.11ac**

Name: Measured AP-d1:fb (#3)	Notes:
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Radio on channel: 4

Networks:

Mac: **92:dc:96:81:d1:fb**, SSID: **Unknown SSID**, Technology: **802.11n**

Mac: **92:dc:96:81:d1:fb**, SSID: **Unknown SSID**, Technology: **802.11n**

Mac: **92:dc:96:81:d1:fb**, SSID: **Unknown SSID**, Technology: **802.11n**

Mac: **92:dc:96:81:d1:fb**, SSID: **Unknown SSID**, Technology: **802.11n**

Name: Measured AP-d4:8c (#4)	Notes:
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Radio on channel: 4

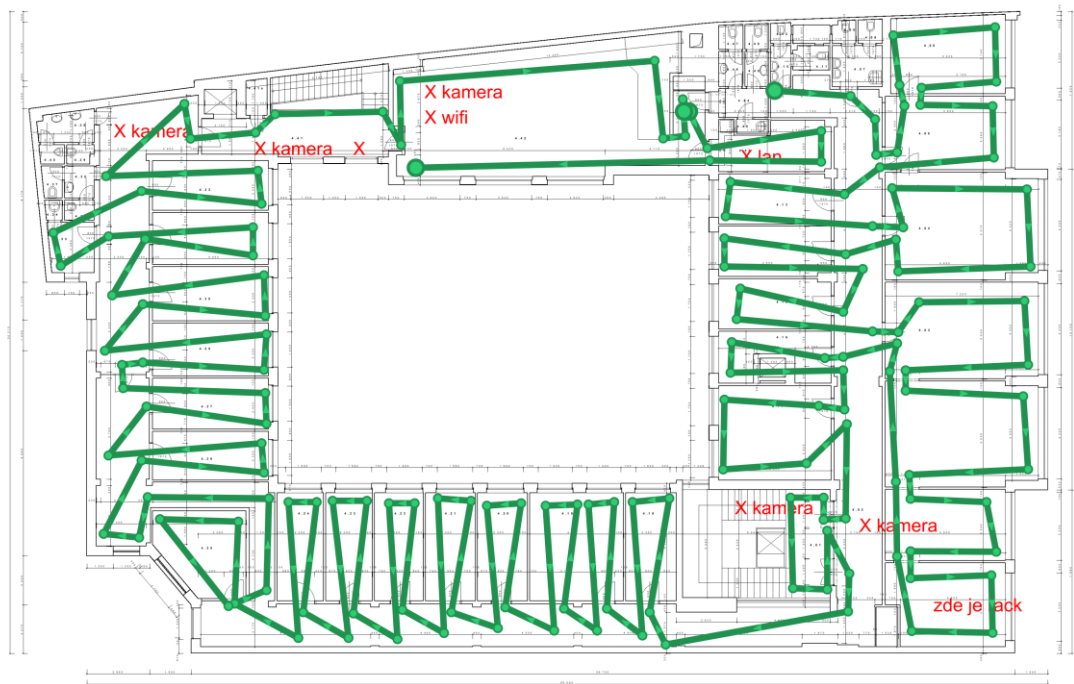
Networks:

Mac: **92:dc:96:81:d4:8c**, SSID: **Unknown SSID**, Technology: **802.11n**

Mac: **92:dc:96:81:d4:8c**, SSID: **Unknown SSID**, Technology: **802.11n**

Mac: 92:dc:96:81:d4:8c, SSID: Unknown SSID, Technology: 802.11n
Mac: 92:dc:96:81:d4:8c, SSID: Unknown SSID, Technology: 802.11n

3.1.2. Surveys



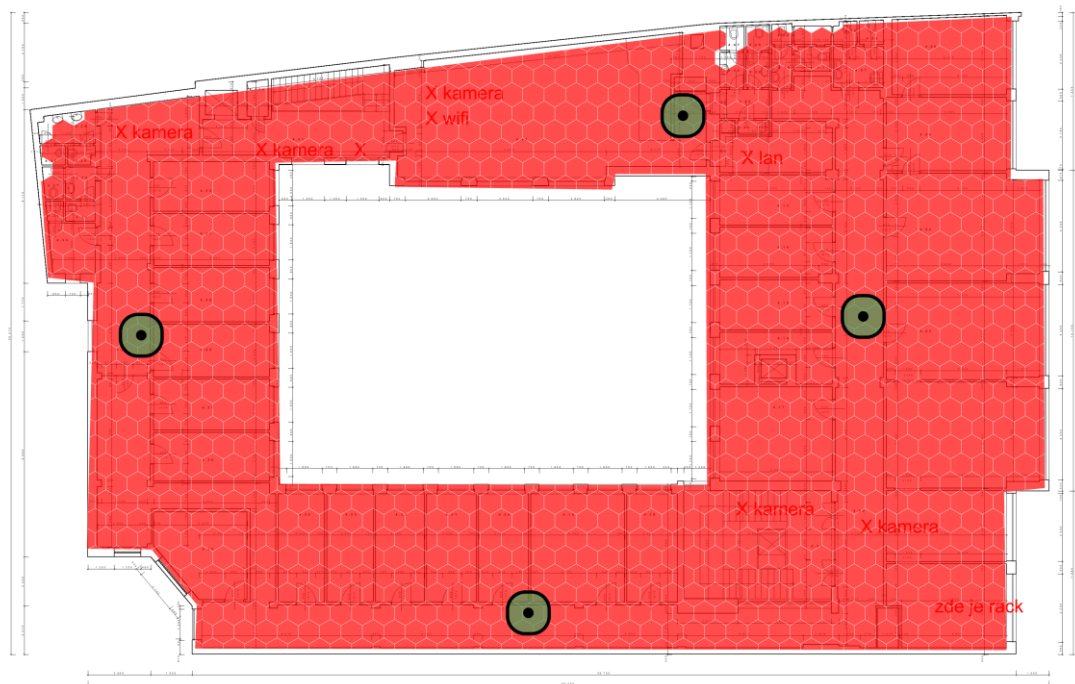
Name	Duration	Length	Devices	Notes
2020-04-30-10:28	35m 42s	560.5 m	Realtek 8812AU Wireless LAN 802.11ac USB NIC (a7:a5)	
2020-04-30-10:28	4s	0.2 m	Realtek 8812AU Wireless LAN 802.11ac USB NIC (a7:a5)	

Total survey duration: 35m 46s

Total survey length: 560.8 m

3.2. Network Health

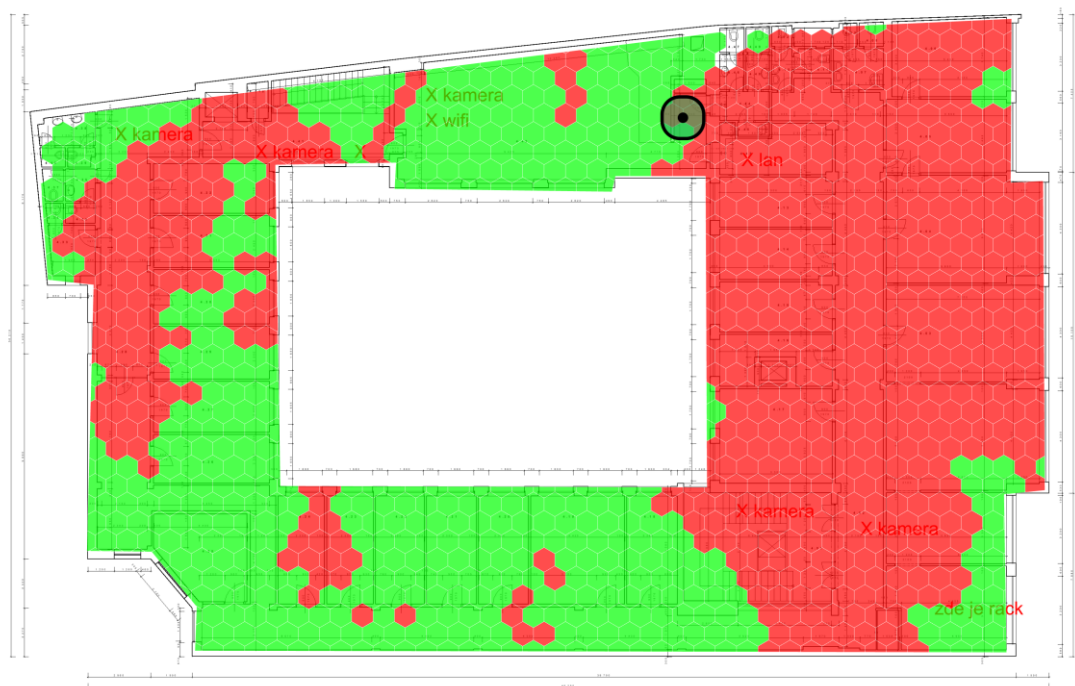
3.2.1. 2,4 GHz



Fail

Pass

3.2.2. 5 GHz

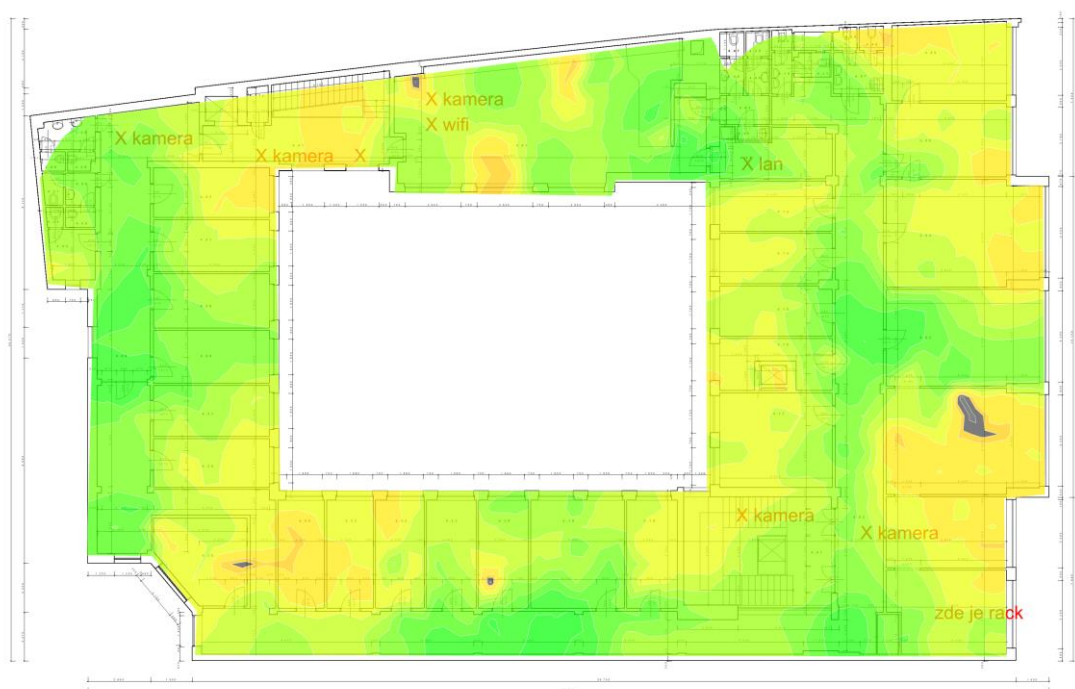


Fail

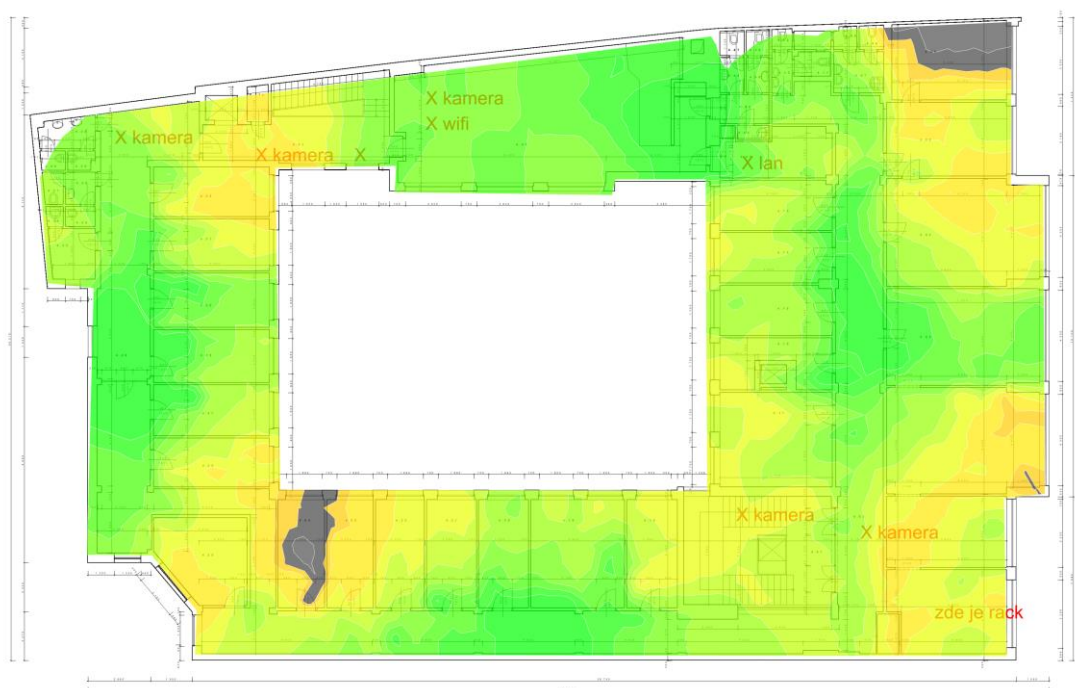
Pass

3.3. Coverage, Noise and SNR

3.3.1. Signal Strength 2.4 GHz

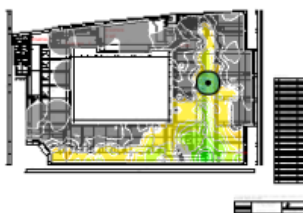


3.3.2. Signal Strength 5 GHz

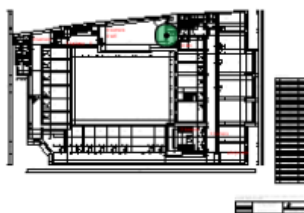


3.3.2.1. Access Point Coverage 2.4 GHz

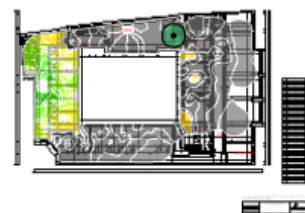
Measured AP-9a:a0 @
Channel 9@40



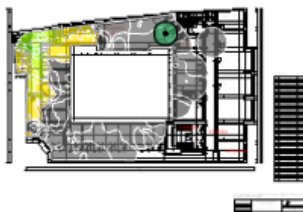
Measured AP-d1:f2 @
Channel 4



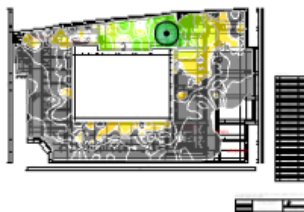
Measured AP-d1:f2 @
Channel 4



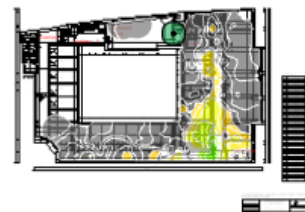
Measured AP-d1:f2 @
Channel 4



Measured AP-d1:f2 @
Channel 4



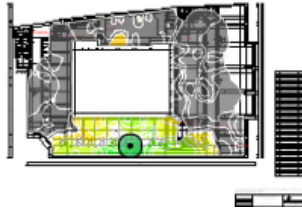
Measured AP-d1:f2 @
Channel 4



Measured AP-d1:fb @
Channel 4

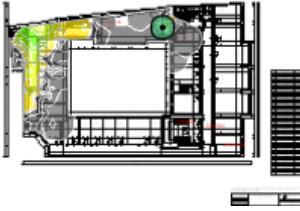


Measured AP-d4:8c @
Channel 4

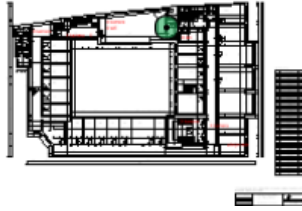


3.3.2.2. *Access Point Coverage 5 GHz*

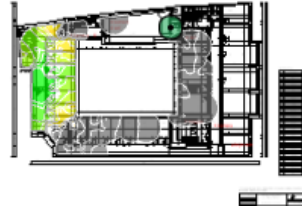
Measured AP-d1:f2 @
Channel 60@40



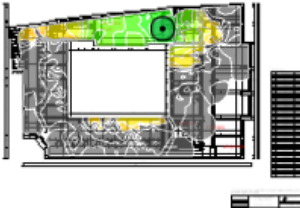
Measured AP-d1:f2 @
Channel 60@40



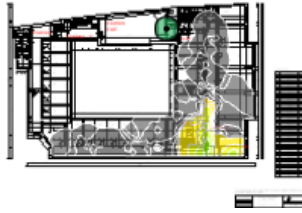
Measured AP-d1:f2 @
Channel 120@40



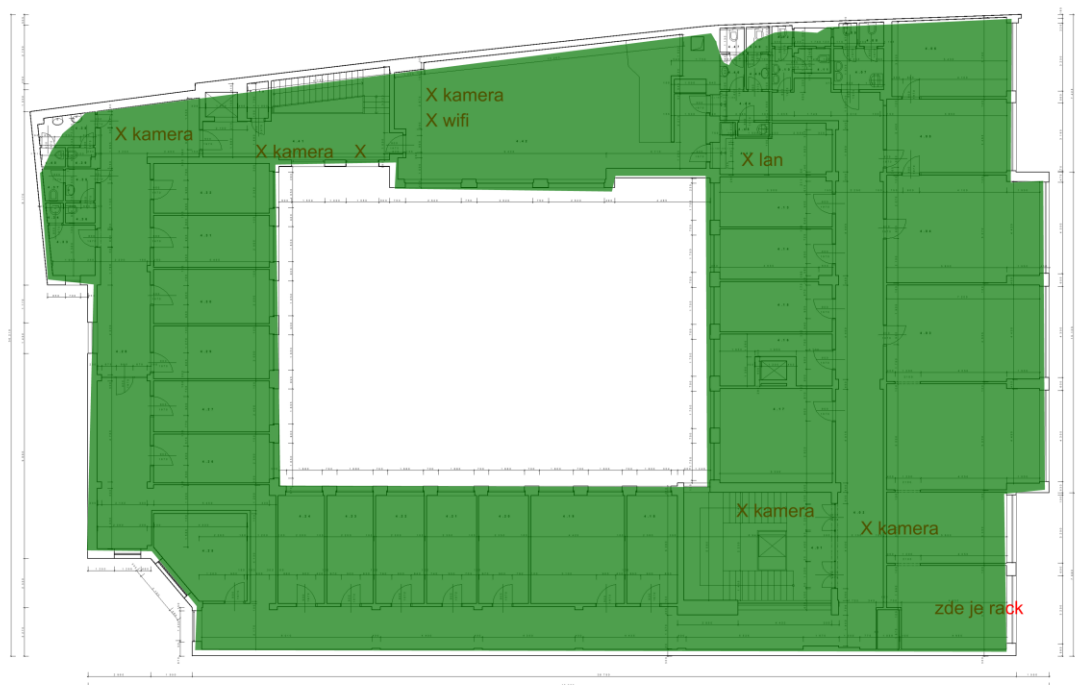
Measured AP-d1:f2 @
Channel 60@40



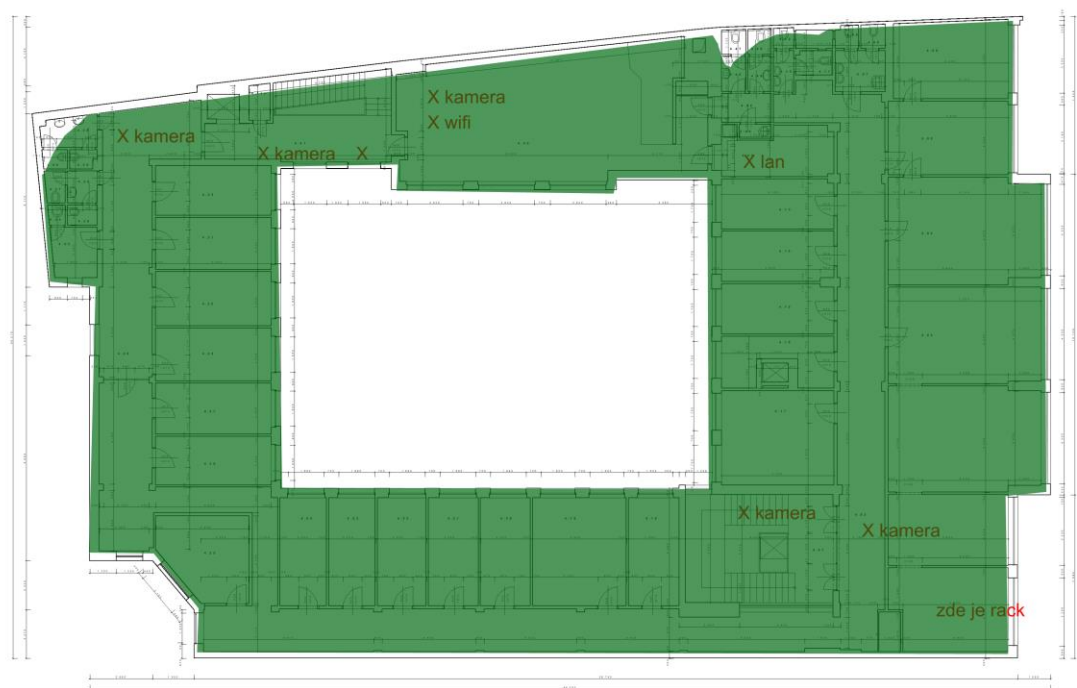
Measured AP-d1:f2 @
Channel 116@40



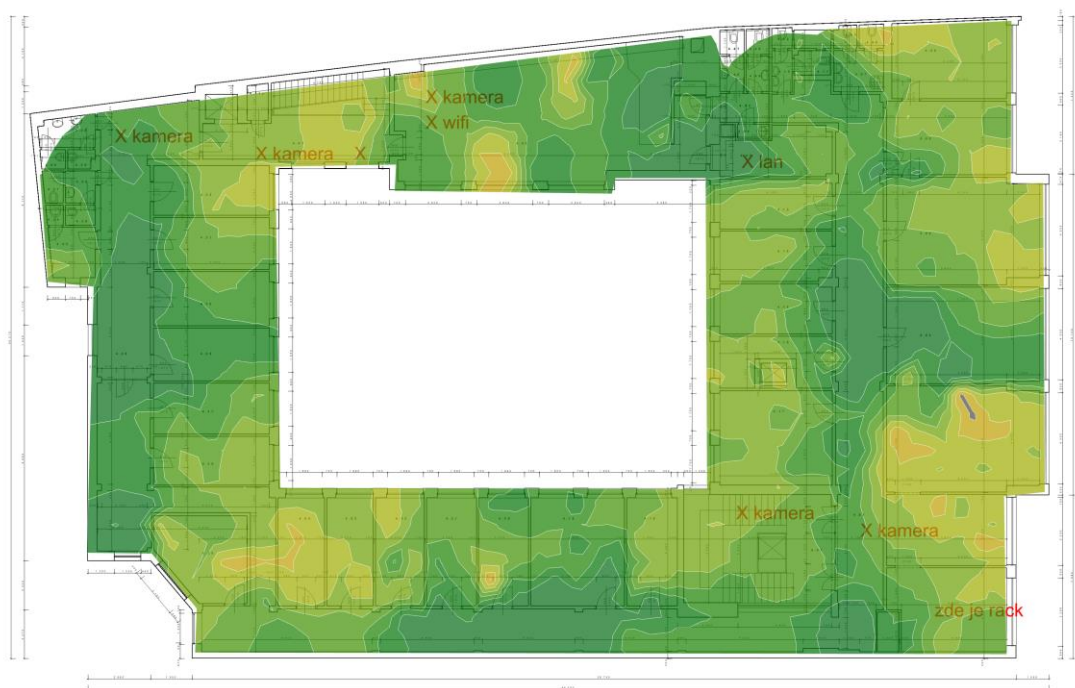
3.3.3. Noise 2.4 GHz



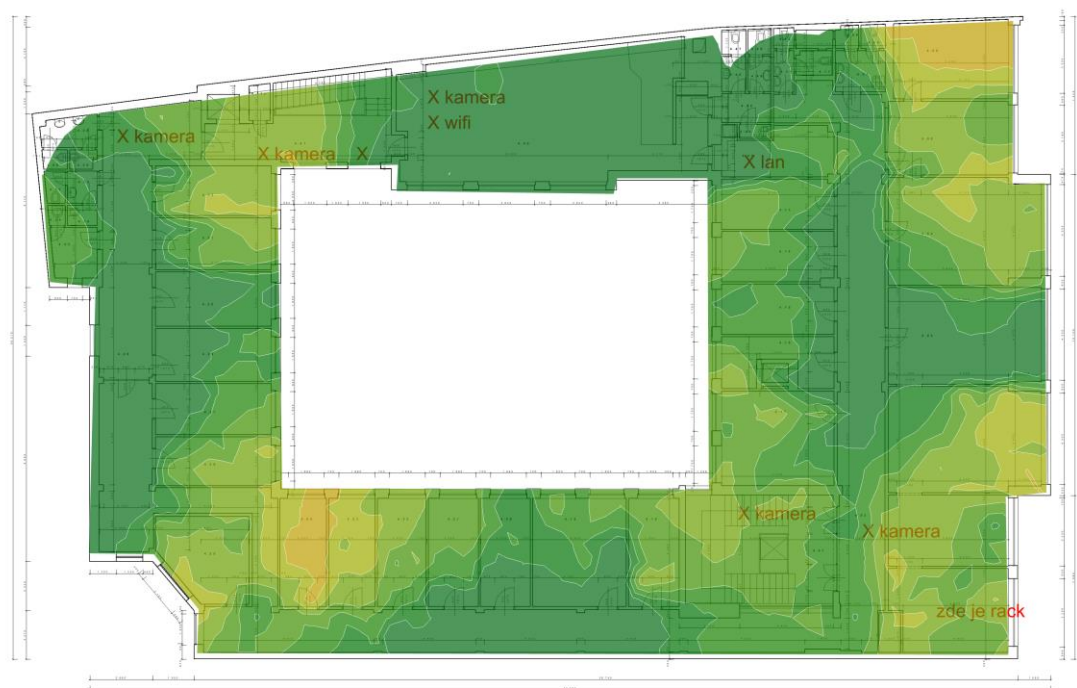
3.3.4. Noise 5 GHz



3.3.5. SNR 2.4 GHz

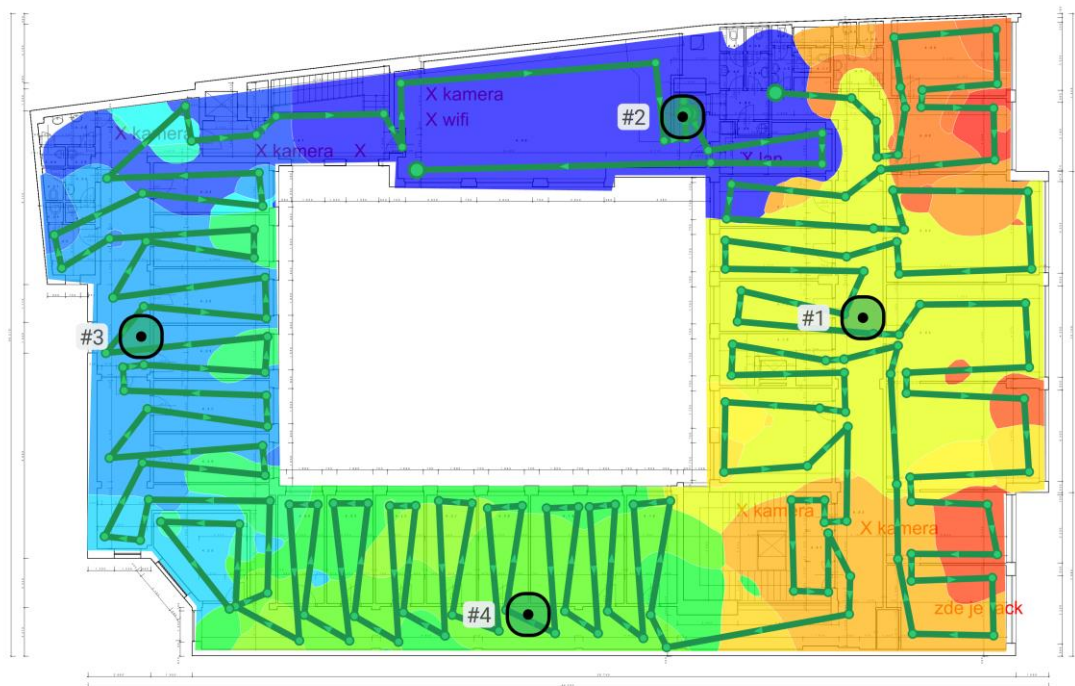


3.3.6. SNR 5 GHz



3.4. Connectivity, Packet Loss, and Delay

3.4.1. Associated Access Point



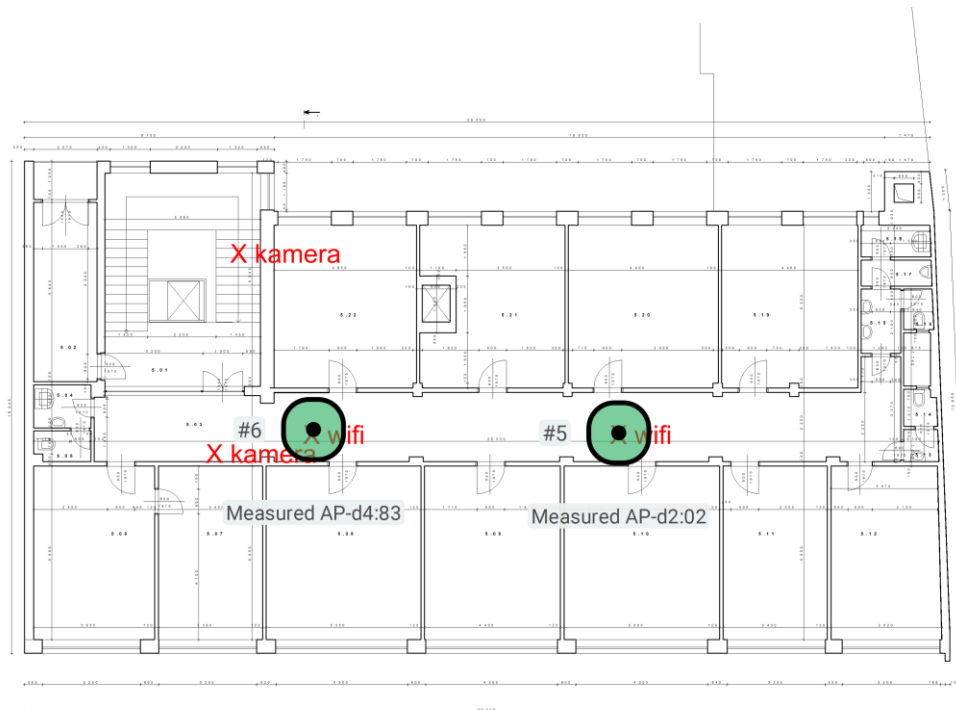
Radio	Networks
Measured AP-9a:a0 (# 1) @ Channel 9@40	Mac: b0:48:7a:a0:9a:a0 , SSID: domaNETik , Technology: 802.11n
Measured AP-d1:f2 (# 2) @ Channel 4	Mac: 88:dc:96:81:d1:fe , SSID: VanCo TEST , Technology: 802.11n Mac: 88:dc:96:81:d1:fe , SSID: VanCo TEST , Technology: 802.11n Mac: 88:dc:96:81:d1:fe , SSID: VanCo TEST , Technology: 802.11n Mac: 88:dc:96:81:d1:fe , SSID: VanCo TEST , Technology: 802.11n
Measured AP-d1:f2 (# 2) @ Channel 4	Mac: 88:dc:96:81:d1:f5 , SSID: VanCo TEST , Technology: 802.11n Mac: 88:dc:96:81:d1:f5 , SSID: VanCo TEST , Technology: 802.11n Mac: 88:dc:96:81:d1:f5 , SSID: VanCo TEST , Technology: 802.11n Mac: 88:dc:96:81:d1:f5 , SSID: VanCo TEST , Technology: 802.11n
Measured AP-d1:f2 (# 2) @ Channel 4	Mac: 88:dc:96:81:d1:f8 , SSID: VanCo TEST , Technology: 802.11n Mac: 88:dc:96:81:d1:f8 , SSID: VanCo TEST , Technology: 802.11n Mac: 88:dc:96:81:d1:f8 , SSID: VanCo TEST , Technology: 802.11n Mac: 88:dc:96:81:d1:f8 , SSID: VanCo TEST , Technology: 802.11n

Measured AP-d1:f2 (# 2) @ Channel 4	Mac: 88:dc:96:81:d1:fb , SSID: VanCo TEST , Technology: 802.11n Mac: 88:dc:96:81:d1:fb , SSID: VanCo TEST , Technology: 802.11n Mac: 88:dc:96:81:d1:fb , SSID: VanCo TEST , Technology: 802.11n Mac: 88:dc:96:81:d1:fb , SSID: VanCo TEST , Technology: 802.11n
Measured AP-d1:f2 (# 2) @ Channel 4	Mac: 88:dc:96:81:d1:f2 , SSID: VanCo TEST , Technology: 802.11n Mac: 88:dc:96:81:d1:f2 , SSID: VanCo TEST , Technology: 802.11n Mac: 88:dc:96:81:d1:f2 , SSID: VanCo TEST , Technology: 802.11n Mac: 88:dc:96:81:d1:f2 , SSID: VanCo TEST , Technology: 802.11n
Measured AP-d1:f2 (# 2) @ Channel 60@40	Mac: 88:dc:96:81:d1:ff , SSID: VanCo TEST , Technology: 802.11ac Mac: 88:dc:96:81:d1:ff , SSID: VanCo TEST , Technology: 802.11ac
Measured AP-d1:f2 (# 2) @ Channel 60@40	Mac: 88:dc:96:81:d1:f9 , SSID: VanCo TEST , Technology: 802.11ac Mac: 88:dc:96:81:d1:f9 , SSID: VanCo TEST , Technology: 802.11ac
Measured AP-d1:f2 (# 2) @ Channel 60@40	Mac: 88:dc:96:81:d1:f6 , SSID: VanCo TEST , Technology: 802.11ac
Measured AP-d1:f2 (# 2) @ Channel 116@40	Mac: 88:dc:96:81:d1:f3 , SSID: VanCo TEST , Technology: 802.11ac Mac: 88:dc:96:81:d1:f3 , SSID: VanCo TEST , Technology: 802.11ac
Measured AP-d1:f2 (# 2) @ Channel 120@40	Mac: 88:dc:96:81:d1:fc , SSID: VanCo TEST , Technology: 802.11ac Mac: 88:dc:96:81:d1:fc , SSID: VanCo TEST , Technology: 802.11ac
Measured AP-d1:fb (# 3) @ Channel 4	Mac: 92:dc:96:81:d1:fb , SSID: Unknown SSID , Technology: 802.11n Mac: 92:dc:96:81:d1:fb , SSID: Unknown SSID , Technology: 802.11n Mac: 92:dc:96:81:d1:fb , SSID: Unknown SSID , Technology: 802.11n Mac: 92:dc:96:81:d1:fb , SSID: Unknown SSID , Technology: 802.11n
Measured AP-d4:8c (# 4) @ Channel 4	Mac: 92:dc:96:81:d4:8c , SSID: Unknown SSID , Technology: 802.11n Mac: 92:dc:96:81:d4:8c , SSID: Unknown SSID , Technology: 802.11n Mac: 92:dc:96:81:d4:8c , SSID: Unknown SSID , Technology: 802.11n Mac: 92:dc:96:81:d4:8c , SSID: Unknown SSID , Technology: 802.11n

4. 8NP

4.1. Survey Routes and AP Locations

4.1.1. Access Point Locations



Access Points	
Name: Measured AP-d2:02 (#5)	Notes:
Radio on channel: 56@40	
Networks:	
Mac: 8e:dc:96:81:d2:02 , SSID: Unknown SSID , Technology: 802.11ac	
Mac: 8e:dc:96:81:d2:02 , SSID: Unknown SSID , Technology: 802.11ac	
Mac: 8e:dc:96:81:d2:02 , SSID: Unknown SSID , Technology: 802.11ac	
Name: Measured AP-d4:83 (#6)	Notes:
Radio on channel: 4	
Networks:	
Mac: 88:dc:96:81:d4:8f , SSID: VanCo TEST , Technology: 802.11n	
Mac: 88:dc:96:81:d4:8f , SSID: VanCo TEST , Technology: 802.11n	
Radio on channel: 4	
Networks:	

Mac: **88:dc:96:81:d4:8c**, SSID: **VanCo TEST**, Technology: **802.11n**

Mac: **88:dc:96:81:d4:8c**, SSID: **VanCo TEST**, Technology: **802.11n**

Mac: **88:dc:96:81:d4:8c**, SSID: **VanCo TEST**, Technology: **802.11n**

Mac: **88:dc:96:81:d4:8c**, SSID: **VanCo TEST**, Technology: **802.11n**

Radio on channel: **4**

Networks:

Mac: **88:dc:96:81:d4:89**, SSID: **VanCo TEST**, Technology: **802.11n**

Mac: **88:dc:96:81:d4:89**, SSID: **VanCo TEST**, Technology: **802.11n**

Mac: **88:dc:96:81:d4:89**, SSID: **VanCo TEST**, Technology: **802.11n**

Mac: **88:dc:96:81:d4:89**, SSID: **VanCo TEST**, Technology: **802.11n**

Radio on channel: **4**

Networks:

Mac: **88:dc:96:81:d4:86**, SSID: **VanCo TEST**, Technology: **802.11n**

Mac: **88:dc:96:81:d4:86**, SSID: **VanCo TEST**, Technology: **802.11n**

Mac: **88:dc:96:81:d4:86**, SSID: **VanCo TEST**, Technology: **802.11n**

Mac: **88:dc:96:81:d4:86**, SSID: **VanCo TEST**, Technology: **802.11n**

Mac: **88:dc:96:81:d4:86**, SSID: **VanCo TEST**, Technology: **802.11n**

Radio on channel: **7**

Networks:

Mac: **88:dc:96:81:d4:83**, SSID: **VanCo TEST**, Technology: **802.11n**

Radio on channel: **64@40**

Networks:

Mac: **88:dc:96:81:d4:84**, SSID: **VanCo TEST**, Technology: **802.11ac**

Radio on channel: **104@40**

Networks:

Mac: **88:dc:96:81:d4:87**, SSID: **VanCo TEST**, Technology: **802.11ac**

Mac: **88:dc:96:81:d4:87**, SSID: **VanCo TEST**, Technology: **802.11ac**

Mac: **88:dc:96:81:d4:87**, SSID: **VanCo TEST**, Technology: **802.11ac**

Radio on channel: **104@40**

Networks:

Mac: **88:dc:96:81:d4:8a**, SSID: **VanCo TEST**, Technology: **802.11ac**

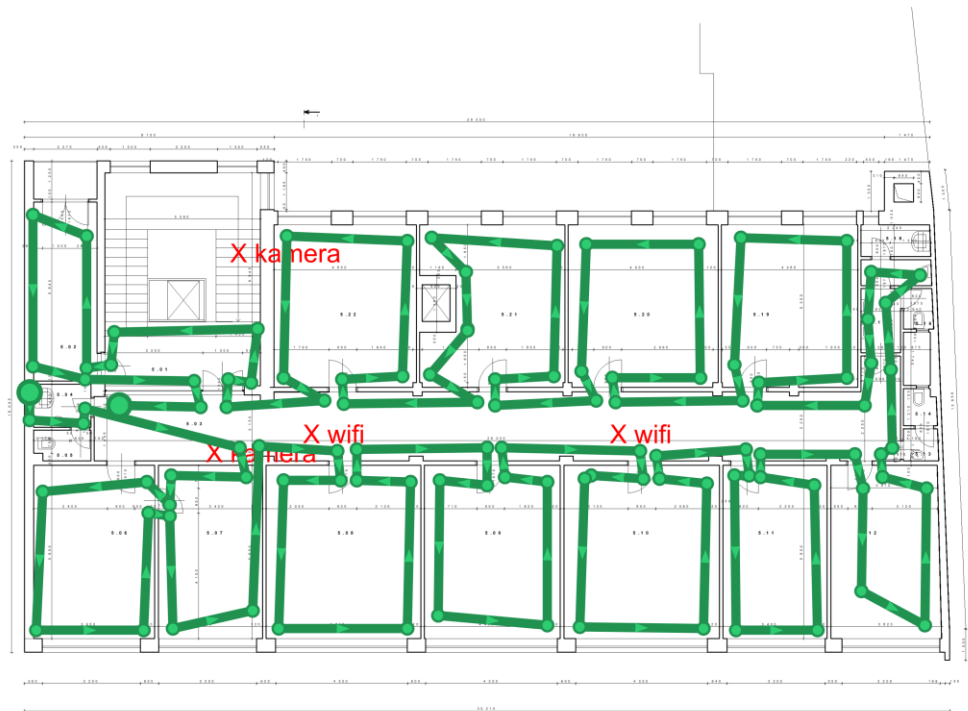
Radio on channel: **120@40**

Networks:

Mac: **88:dc:96:81:d4:8d**, SSID: **VanCo TEST**, Technology: **802.11ac**

Mac: **88:dc:96:81:d4:8d**, SSID: **VanCo TEST**, Technology: **802.11ac**

4.1.2. Surveys

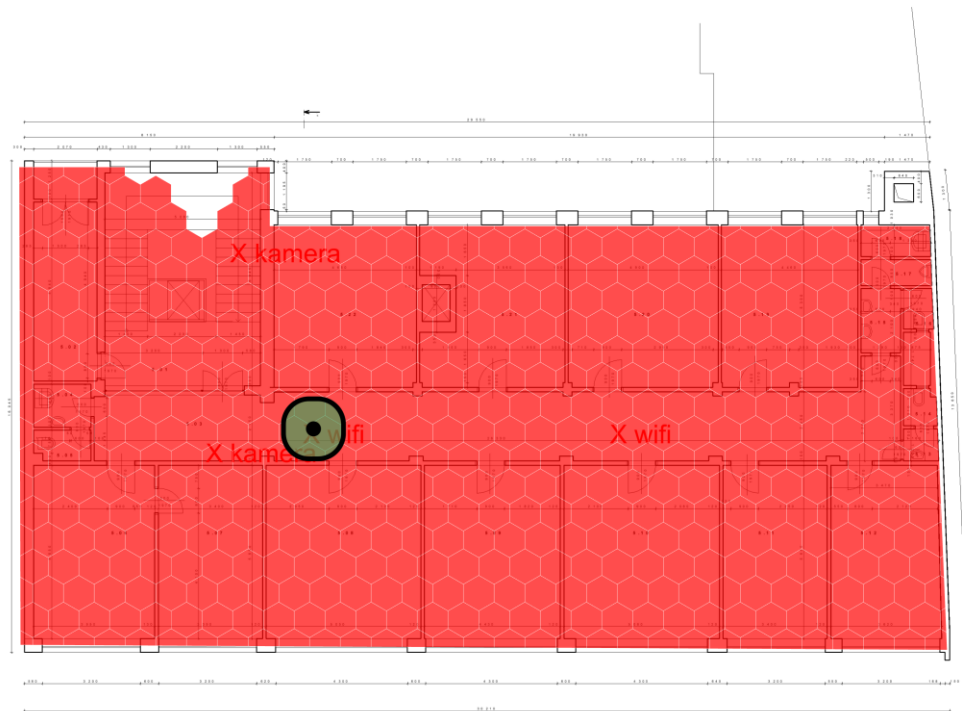


Name	Duration	Length	Devices	Notes
2020-04-29-14:20	18m 23s	273.8 m	Realtek 8812AU Wireless LAN 802.11ac USB NIC (a7:a5)	

Total survey duration: 18m 23s
Total survey length: 273.8 m

4.2. Network Health

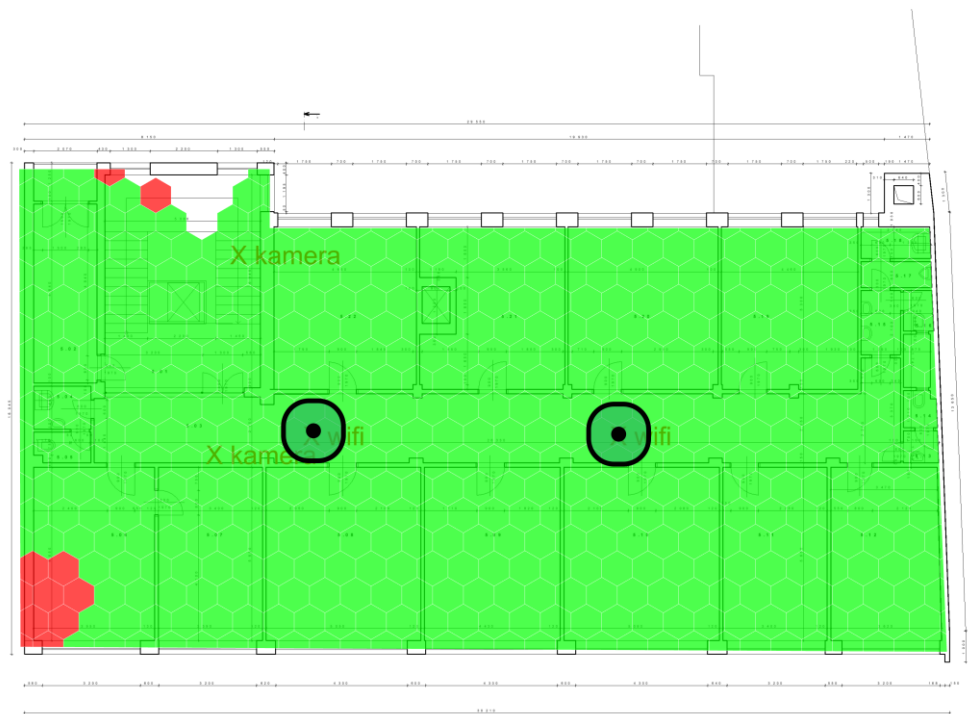
4.2.1. 2,4 GHz



Fail

Pass

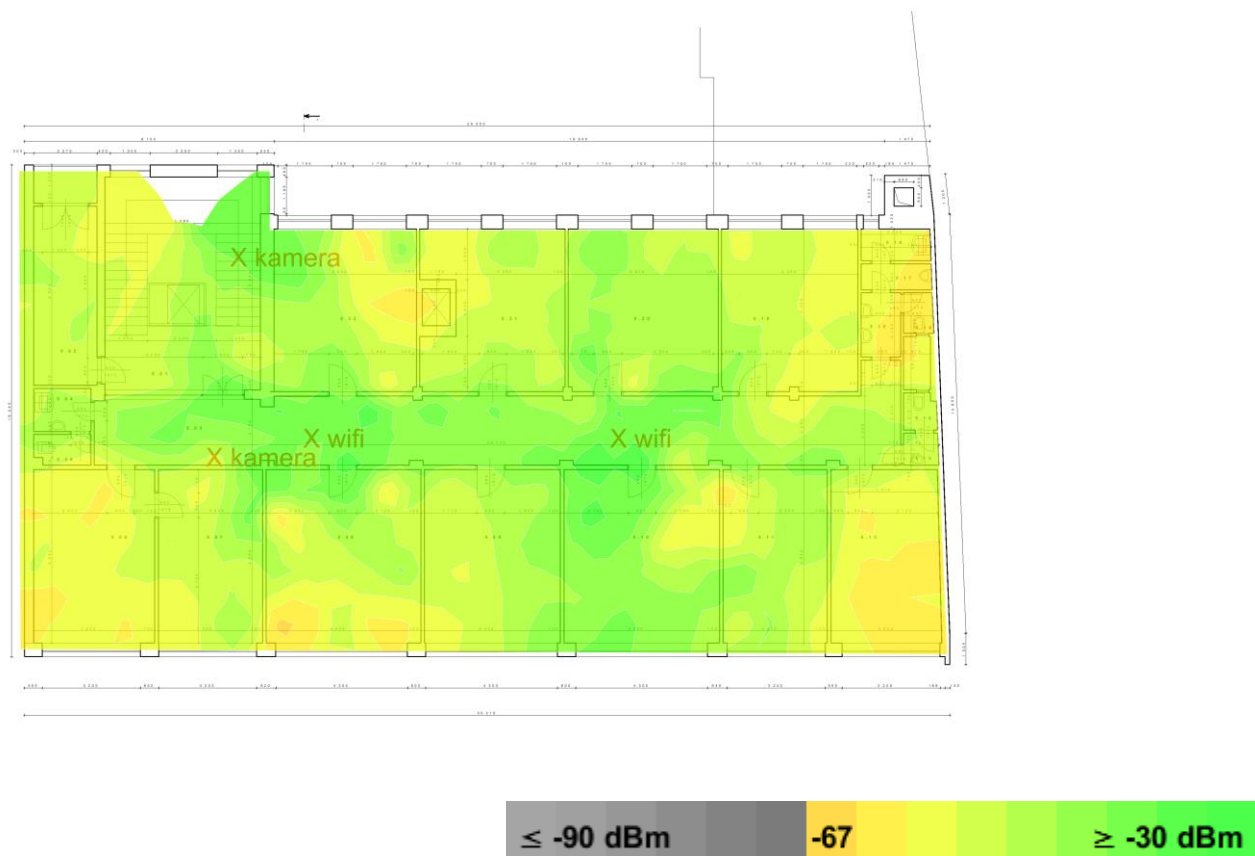
4.2.2. 5 GHz



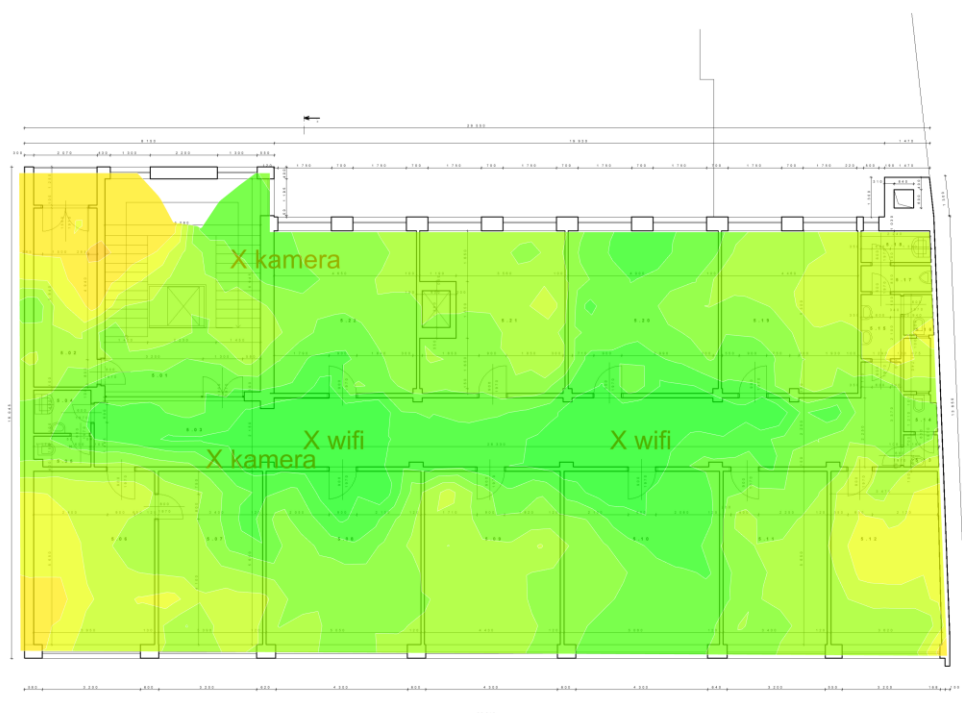
Fail **Pass**

4.3. Coverage, Noise and SNR

4.3.1. Signal Strength 2.4 GHz

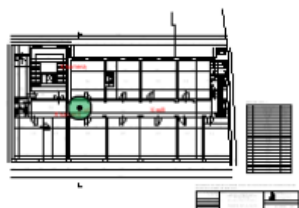


4.3.2. Signal Strength 5 GHz

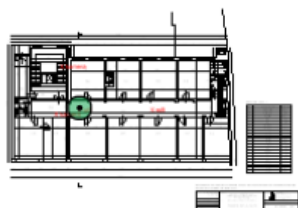


4.3.2.1. Access Point Coverage 2.4 GHz

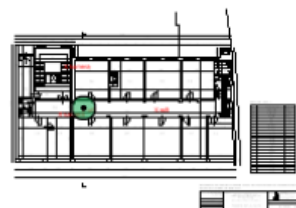
Measured AP-d4:83 @
Channel 4



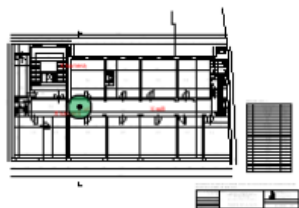
Measured AP-d4:83 @
Channel 4



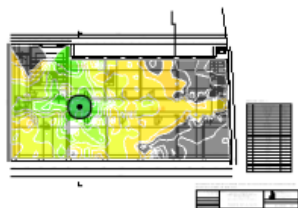
Measured AP-d4:83 @
Channel 7



Measured AP-d4:83 @
Channel 4

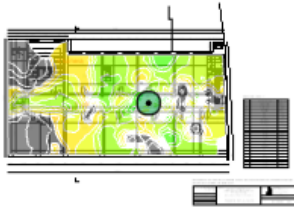


Measured AP-d4:83 @
Channel 4

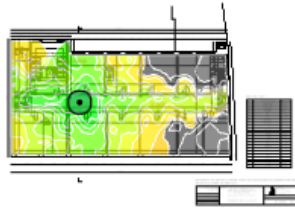


4.3.2.2. *Access Point Coverage 5 GHz*

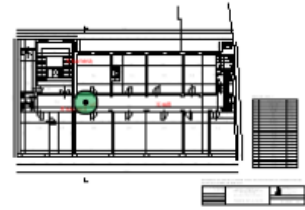
Measured AP-d2:02 @
Channel 56@40



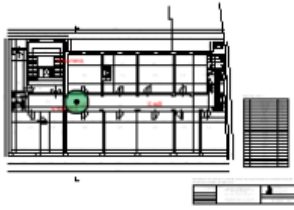
Measured AP-d4:83 @
Channel 104@40



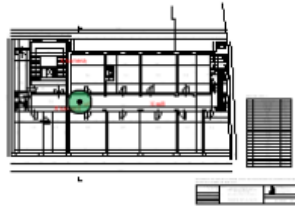
Measured AP-d4:83 @
Channel 120@40



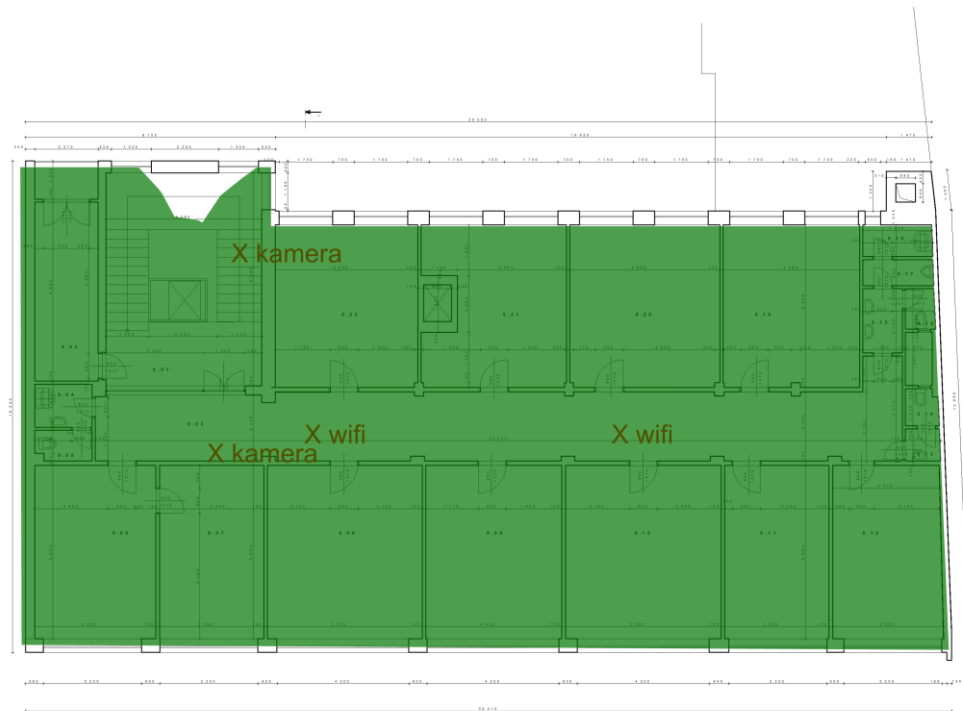
Measured AP-d4:83 @
Channel 64@40



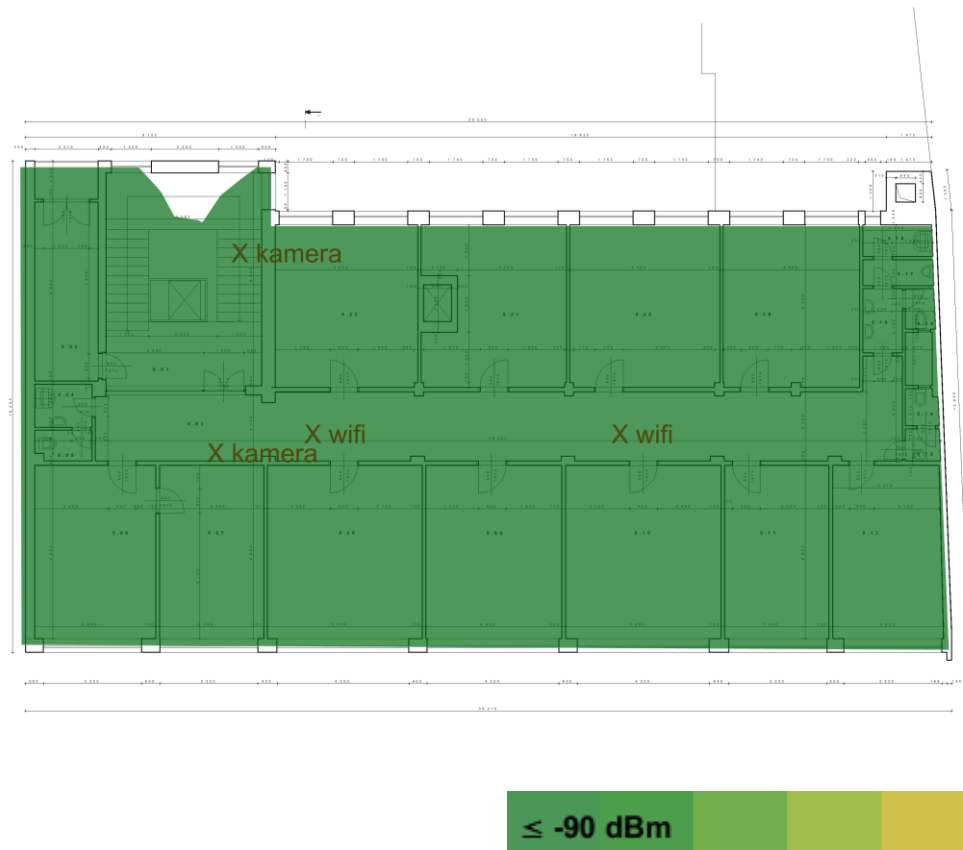
Measured AP-d4:83 @
Channel 104@40



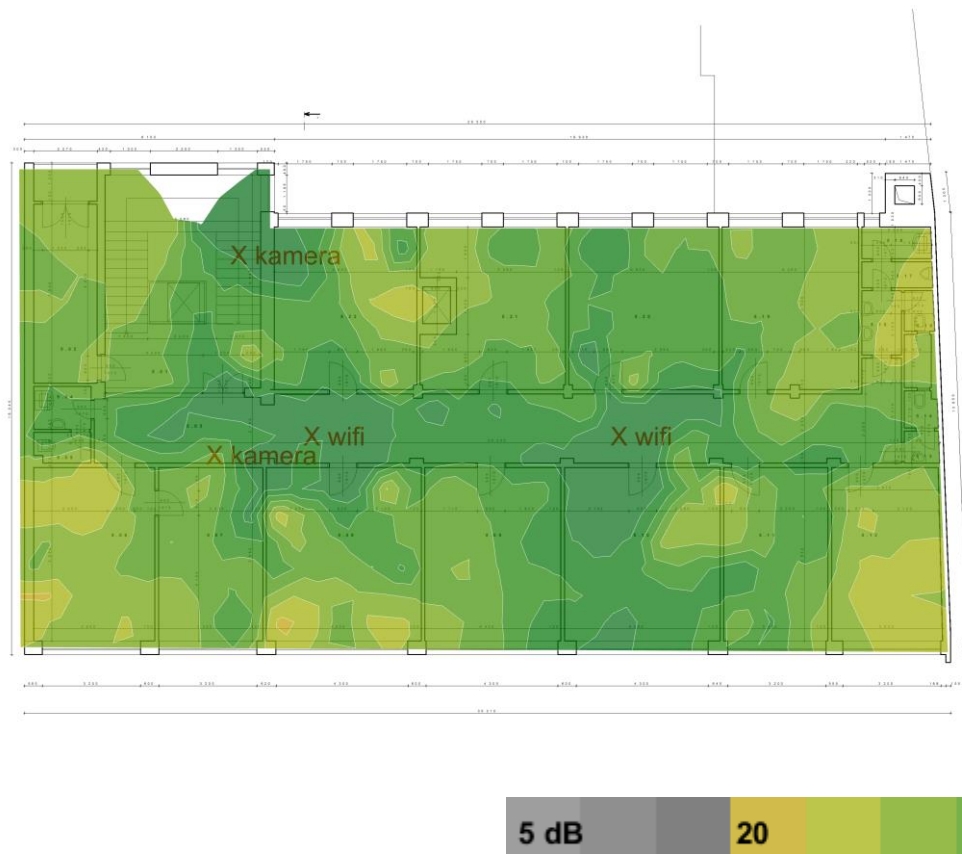
4.3.3. Noise 2.4 GHz



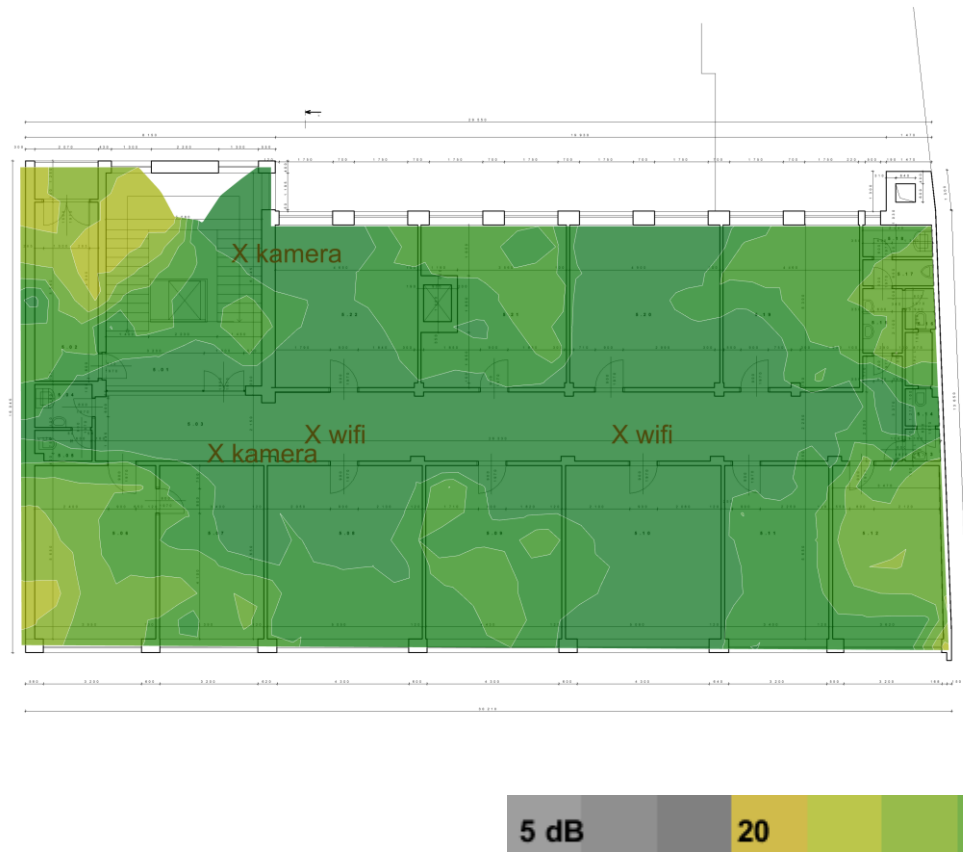
4.3.4. Noise 5 GHz



4.3.5. SNR 2.4 GHz

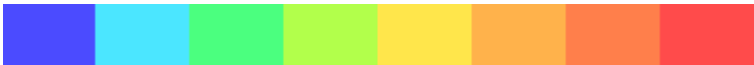
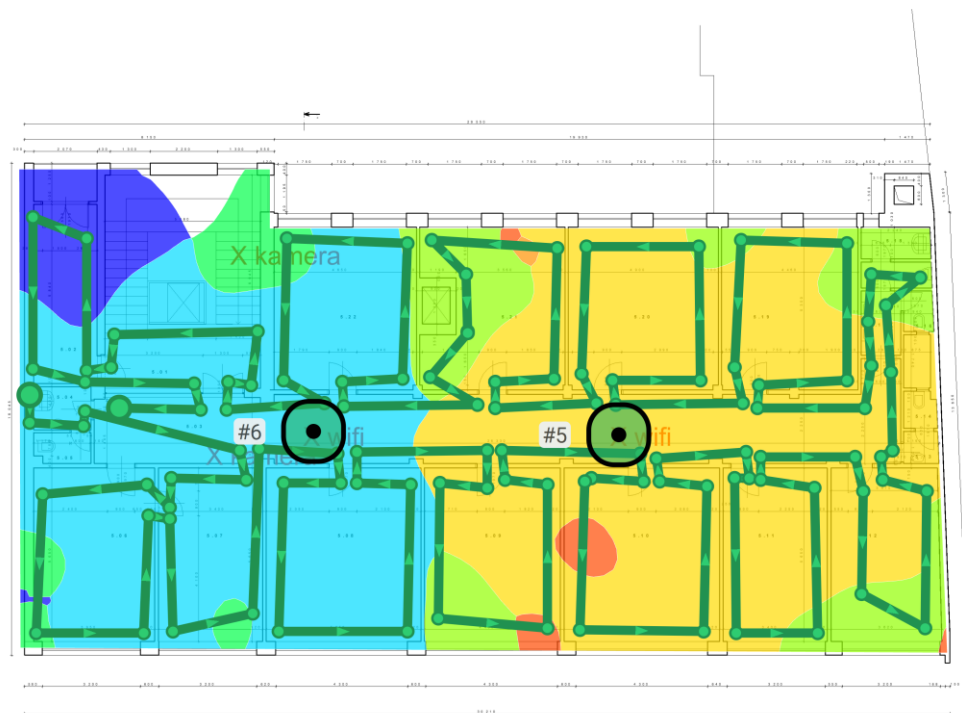


4.3.6. SNR 5 GHz



4.4. Connectivity, Packet Loss, and Delay

4.4.1. Associated Access Point



Radio	Networks
Measured AP-d2:02 (# 5) @ Channel 56@40	Mac: 8e:dc:96:81:d2:02 , SSID: Unknown SSID , Technology: 802.11ac Mac: 8e:dc:96:81:d2:02 , SSID: Unknown SSID , Technology: 802.11ac Mac: 8e:dc:96:81:d2:02 , SSID: Unknown SSID , Technology: 802.11ac
Measured AP-d4:83 (# 6) @ Channel 4	Mac: 88:dc:96:81:d4:8f , SSID: VanCo TEST , Technology: 802.11n Mac: 88:dc:96:81:d4:8f , SSID: VanCo TEST , Technology: 802.11n
Measured AP-d4:83 (# 6) @ Channel 4	Mac: 88:dc:96:81:d4:8c , SSID: VanCo TEST , Technology: 802.11n Mac: 88:dc:96:81:d4:8c , SSID: VanCo TEST , Technology: 802.11n Mac: 88:dc:96:81:d4:8c , SSID: VanCo TEST , Technology: 802.11n Mac: 88:dc:96:81:d4:8c , SSID: VanCo TEST , Technology: 802.11n
Measured AP-d4:83 (# 6) @ Channel 4	Mac: 88:dc:96:81:d4:89 , SSID: VanCo TEST , Technology: 802.11n Mac: 88:dc:96:81:d4:89 , SSID: VanCo TEST , Technology: 802.11n Mac: 88:dc:96:81:d4:89 , SSID: VanCo TEST , Technology: 802.11n Mac: 88:dc:96:81:d4:89 , SSID: VanCo TEST , Technology: 802.11n

Measured AP-d4:83 (#  6) @ Channel 4	Mac: 88:dc:96:81:d4:86 , SSID: VanCo TEST , Technology: 802.11n Mac: 88:dc:96:81:d4:86 , SSID: VanCo TEST , Technology: 802.11n Mac: 88:dc:96:81:d4:86 , SSID: VanCo TEST , Technology: 802.11n Mac: 88:dc:96:81:d4:86 , SSID: VanCo TEST , Technology: 802.11n Mac: 88:dc:96:81:d4:86 , SSID: VanCo TEST , Technology: 802.11n
Measured AP-d4:83 (# 6) @ Channel 7	Mac: 88:dc:96:81:d4:83 , SSID: VanCo TEST , Technology: 802.11n
Measured AP-d4:83 (# 6) @ Channel 64@40	Mac: 88:dc:96:81:d4:84 , SSID: VanCo TEST , Technology: 802.11ac
Measured AP-d4:83 (#  6) @ Channel 104@40	Mac: 88:dc:96:81:d4:87 , SSID: VanCo TEST , Technology: 802.11ac Mac: 88:dc:96:81:d4:87 , SSID: VanCo TEST , Technology: 802.11ac Mac: 88:dc:96:81:d4:87 , SSID: VanCo TEST , Technology: 802.11ac
Measured AP-d4:83 (# 6) @ Channel 104@40	Mac: 88:dc:96:81:d4:8a , SSID: VanCo TEST , Technology: 802.11ac
Measured AP-d4:83 (# 6) @ Channel 120@40	Mac: 88:dc:96:81:d4:8d , SSID: VanCo TEST , Technology: 802.11ac Mac: 88:dc:96:81:d4:8d , SSID: VanCo TEST , Technology: 802.11ac