Wi-Fi Network Report



Name: WIFI Apart Hotel Location: CZ_Praha

Responsible Person: Ing. Aleš Moravec



Wi-Fi Network Report

Project description	



Hotel 2NP

Survey routes and Access Points for 191125_PPL21_elektro_2np



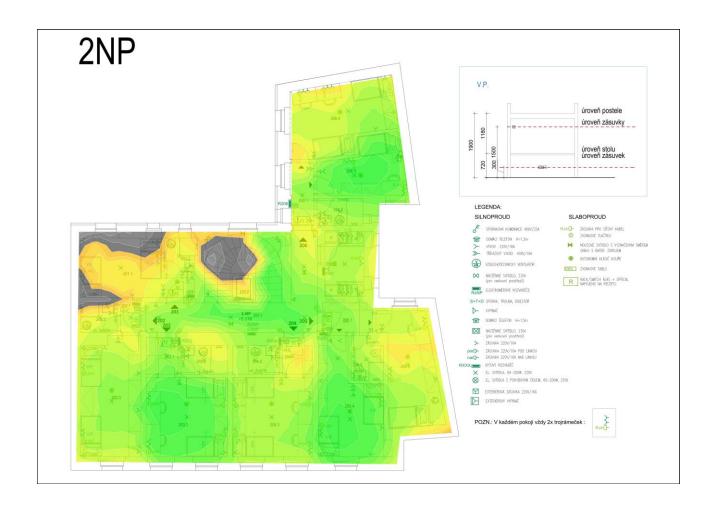
Area-2 (222 m²)

Coverage Requirement: High Speed Connectivity	Signal Strength Min	-70.0 dBm
	Signal-to-noise Ratio Min	16.0 dB
	Data rate Min	12 Mbps
	Secondary Signal Strength Min	-80.0 dBm
	Channel Interference Max	3 at min80.0 dBm
	Round Trip Time (RTT) Max	300 ms
	Packet Loss Max	5.0 %
Capacity Requirement		
	50 Generic Laptop [Cor	nferencing, GoToMeeting]
	50 Generic Smartphone [Web Email (2 Mbps)]	
	Total: 100 (356 Mbits/s)	
Notes		



Signal Strength for 191125_PPL21_elektro_2np 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.

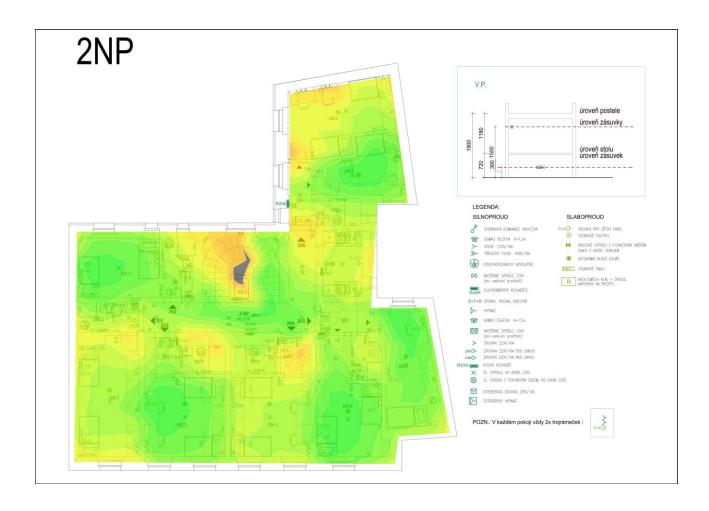


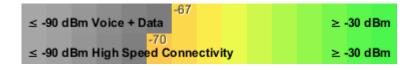




Signal Strength for 191125_PPL21_elektro_2np on 5 GHz band

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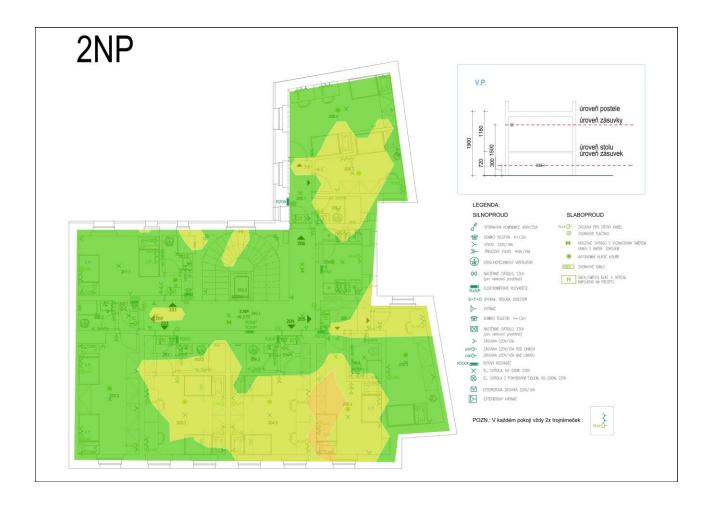






Channel Interference for 191125_PPL21_elektro_2np on 2.4 GHz band

Channel interference indicates the number of access points overlapping at each location in a single channel.

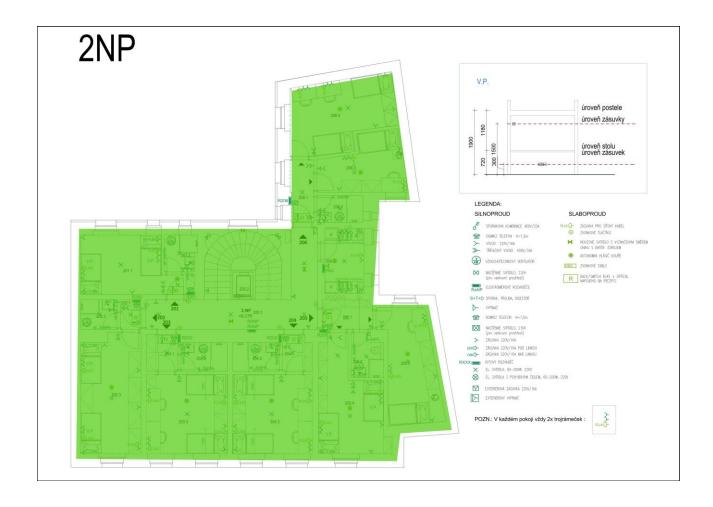






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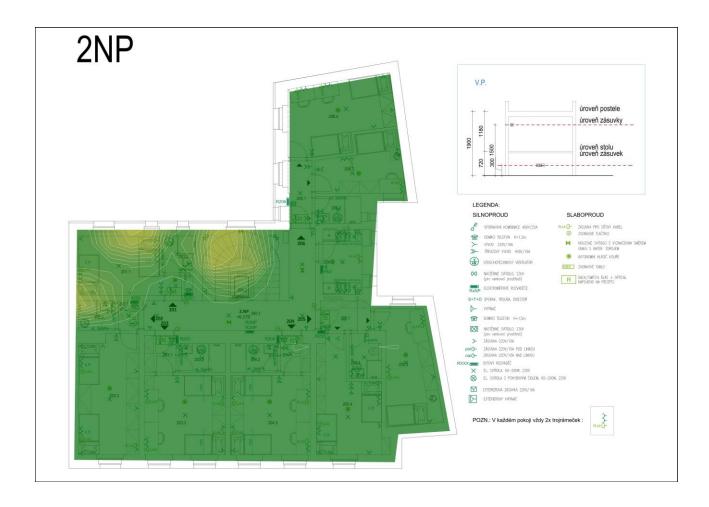






Data Rate for 191125_PPL21_elektro_2np on 2.4 GHz band

Data Rate is the highest possible speed (measured in megabits per second) at which the wireless devices will be transmitting data. Typically the true data throughput is about half of the data rate or less.

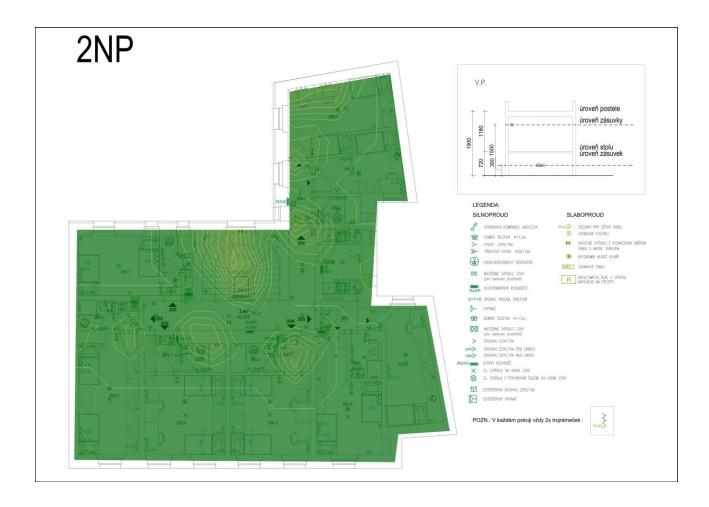


1 Mb/s 134 Mb/s



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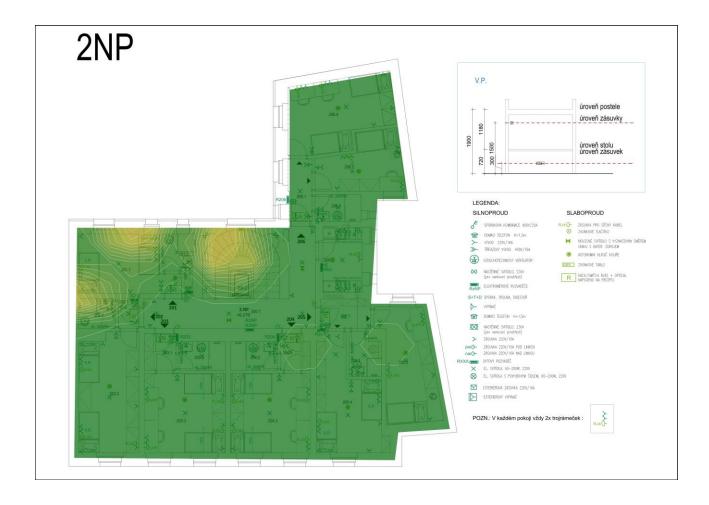


1 Mb/s 375 Mb/s



Throughput for 191125_PPL21_elektro_2np on 2.4 GHz band

Displays the measured throughput. If no measured throughput is available, then the estimated maximum throughput is shown instead.

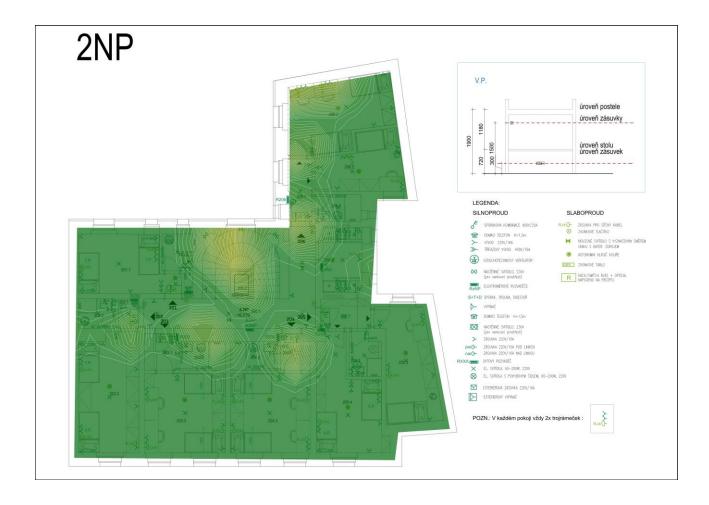






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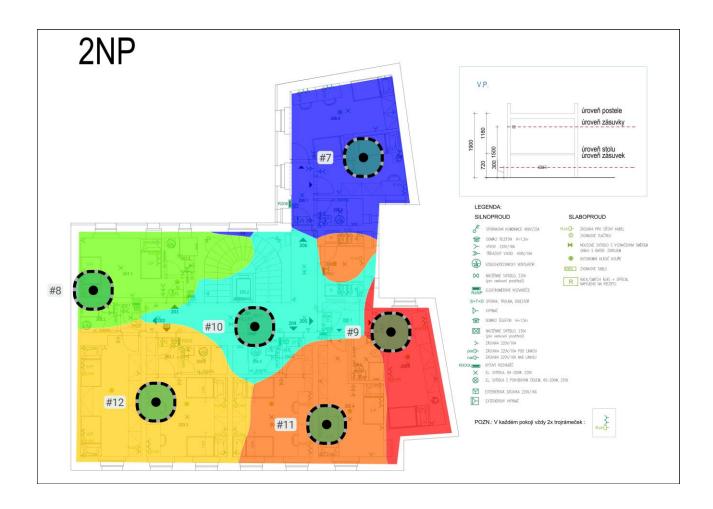


0 Mb/s 295 Mb/s



Associated Access Point for 191125_PPL21_elektro_2np

Displays the access point the client device is associated with. The image shows Predicted Association - Signal Strength



AP#	Access Point				
7	Simulated AP-10		EnGenius ECW220		
	•802.11ax	1	60 mW	EnGenius ECW220 2.4GHz	
	802.11ax	157@40	120 mW	EnGenius ECW220 5GHz	
8	Simulated AP-11		EnGenius ECW220		
	Off	-	-	EnGenius ECW220 2.4GHz	



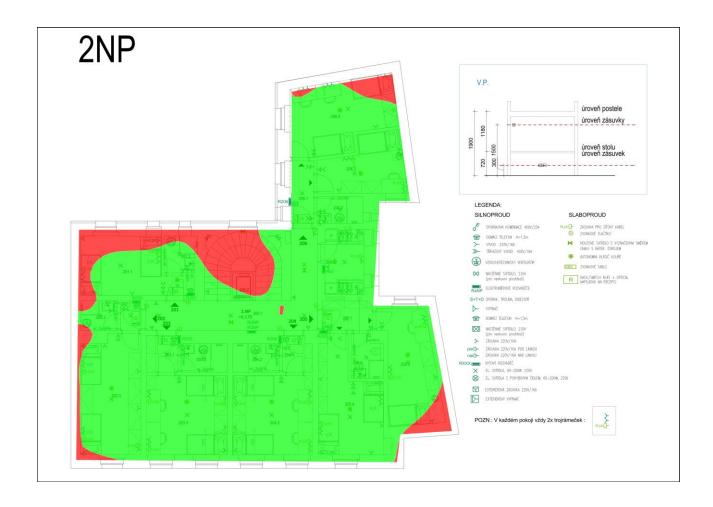
Wi-Fi Network Report

	•802.11ax	124@40	120 mW	EnGenius ECW220 5GHz
9	Simulated AP-12		EnGenius ECW220	
	Off	-	-	EnGenius ECW220 2.4GHz
	•802.11ax	40@40	120 mW	EnGenius ECW220 5GHz
10	Simulated AP-7		EnGenius ECW220	
	•802.11ax	6	60 mW	EnGenius ECW220 2.4GHz
	802.11ax	112@40	120 mW	EnGenius ECW220 5GHz
11	Simulated AP-8		EnGenius ECW220	
	•802.11ax	11	60 mW	EnGenius ECW220 2.4GHz
	802.11ax	60@40	120 mW	EnGenius ECW220 5GHz
12	Simulated AP-9		EnGenius ECW220	
	•802.11ax	1	60 mW	EnGenius ECW220 2.4GHz
	802.11ax	153@40	120 mW	EnGenius ECW220 5GHz



Network Health for 191125_PPL21_elektro_2np on 2.4 GHz band

Wi-Fi is typically built for a certain purpose or several purposes, such as VoIP, web browsing, or location tracking. With Network Health, you can, with a single visualization, display whether the network meets your requirements or not.

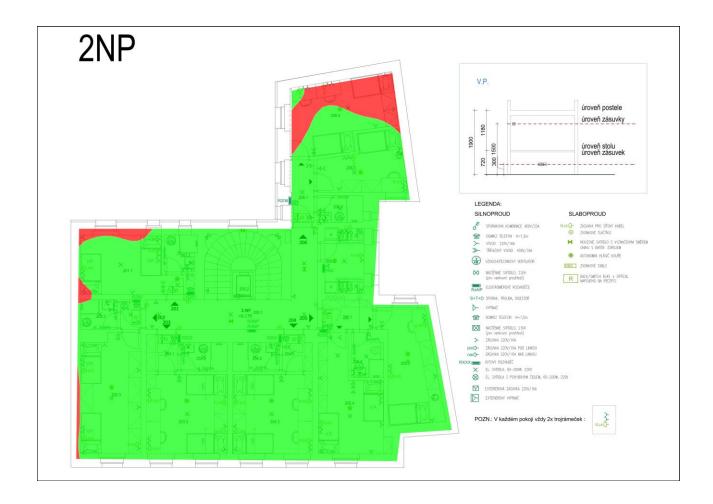






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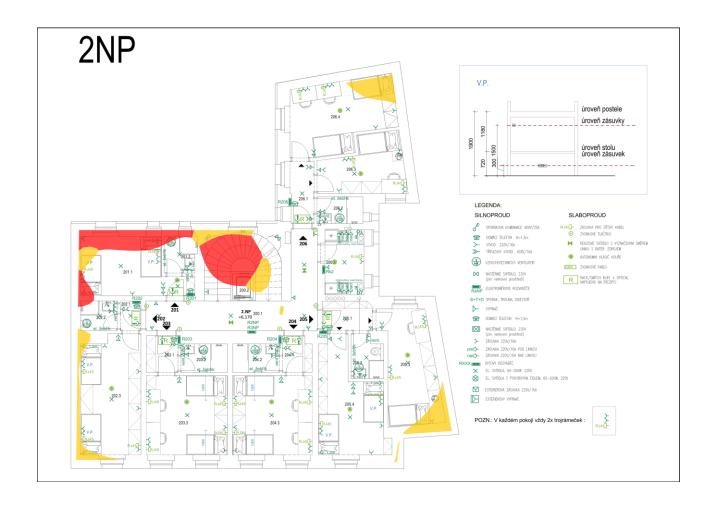






Network Issues for 191125_PPL21_elektro_2np on 2.4 GHz band

Network Issues complements Network Health by showing the requirement that is below the threshold level at each location. Whereas Network Health answers the question "Does it work?", Network Issues answers the question "If it doesn't work, why?".

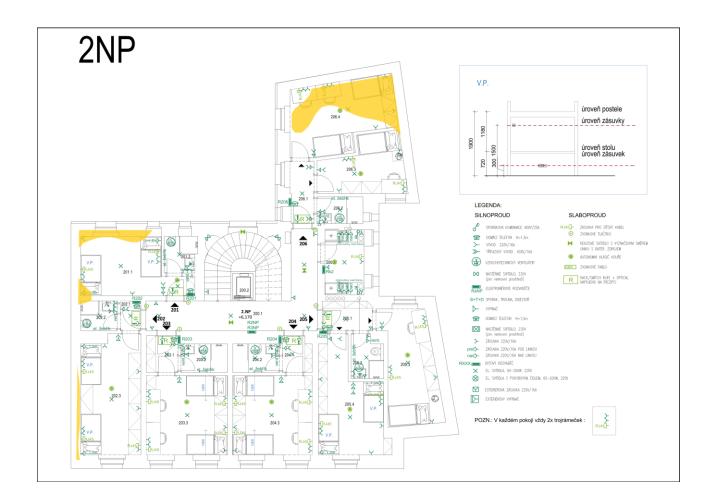


S.Str S.Str2



Network Issues for 191125_PPL21_elektro_2np on 5 GHz band

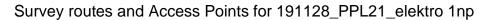
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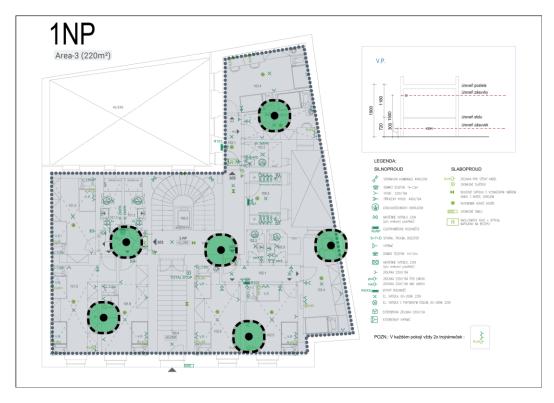


S.Str S.Str2



Hotel 1NP





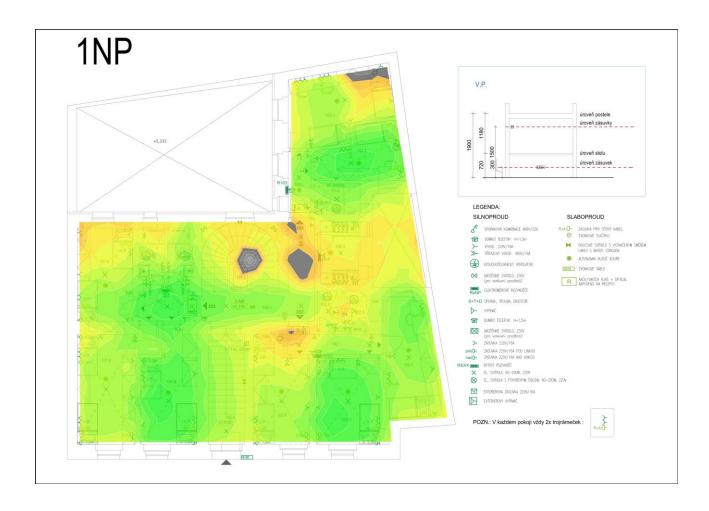
Area-3 (220 m²)

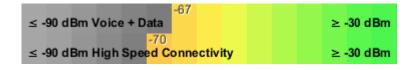
Coverage Requirement: High Speed Connectivity	Signal Strength Min Signal-to-noise Ratio Min Data rate Min Secondary Signal Strength Min Channel Interference Max Round Trip Time (RTT) Max Packet Loss Max	-70.0 dBm 16.0 dB 12 Mbps -80.0 dBm 3 at min80.0 dBm 300 ms
Capacity Requirement Notes	50 Generic Laptop [Conferencing, GoToMeeting] 50 Generic Smartphone [Web Email (2 Mbps)] Total: 100 (356 Mbits/s)	



Signal Strength for 191128_PPL21_elektro 1np on 2.4 GHz band

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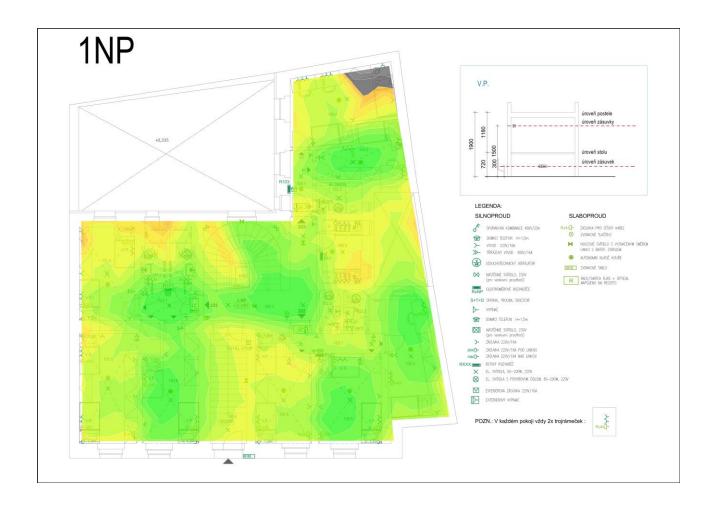


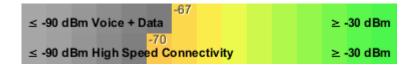




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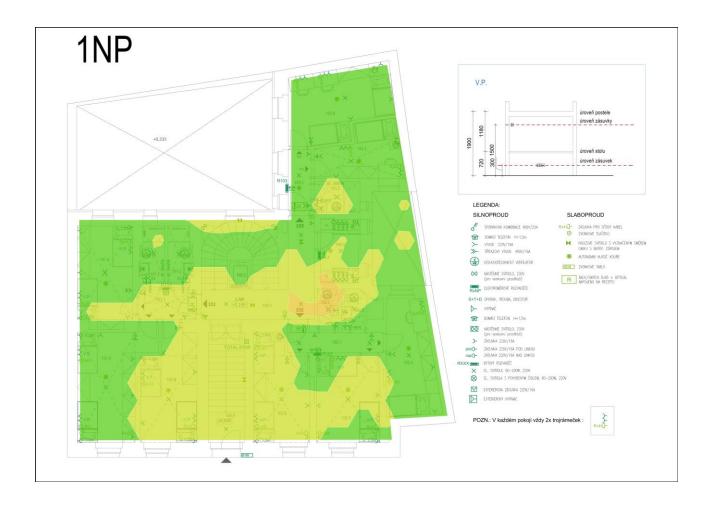






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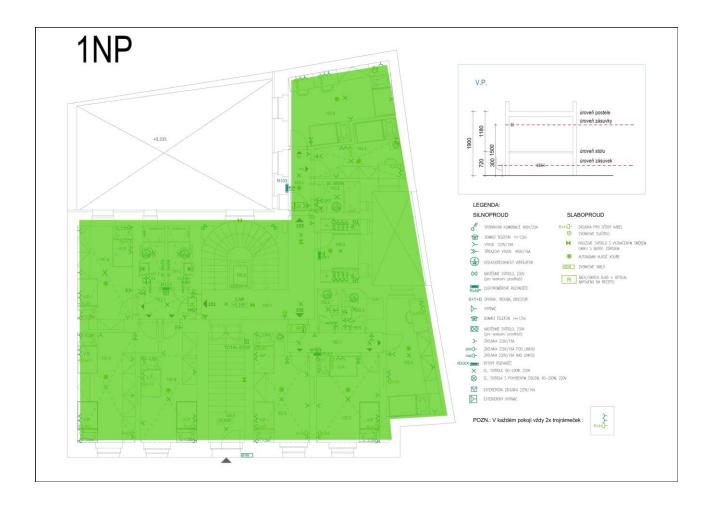






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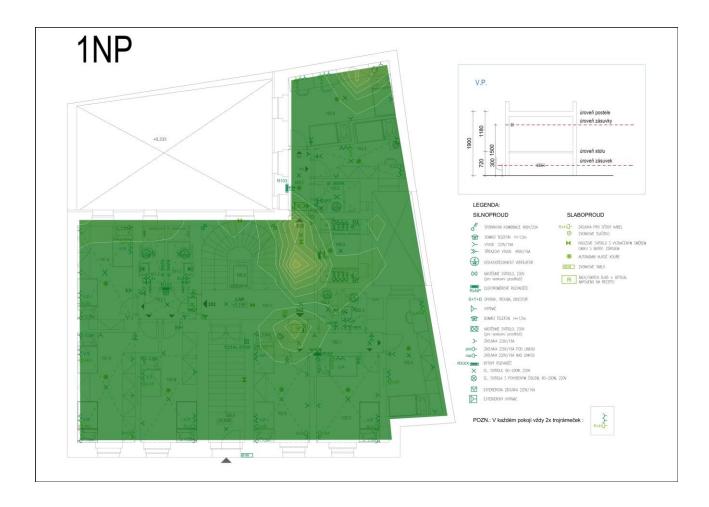






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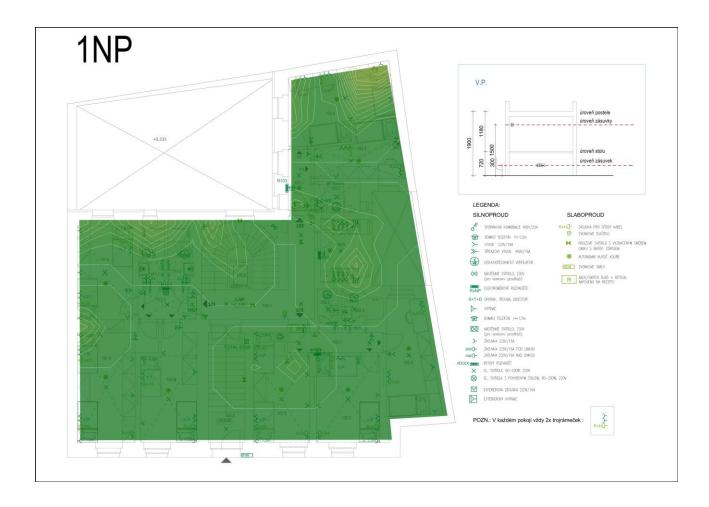


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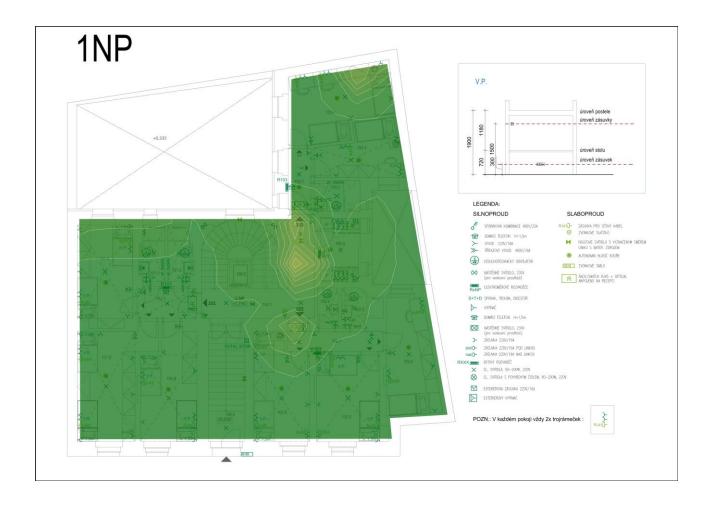


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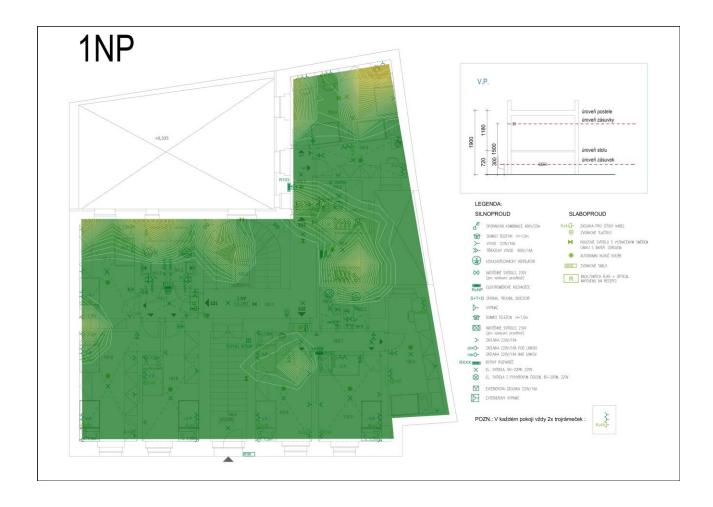






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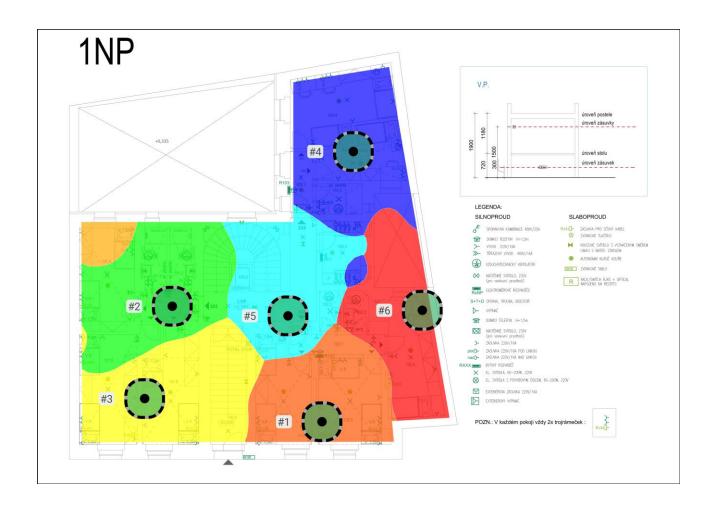


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	•802.11ax	1	60 mW	EnGenius ECW220 2.4GHz
	802.11ax	132@40	120 mW	EnGenius ECW220 5GHz
2	Simulated AP-2		EnGenius ECW220	
	•802.11ax	11	60 mW	EnGenius ECW220 2.4GHz



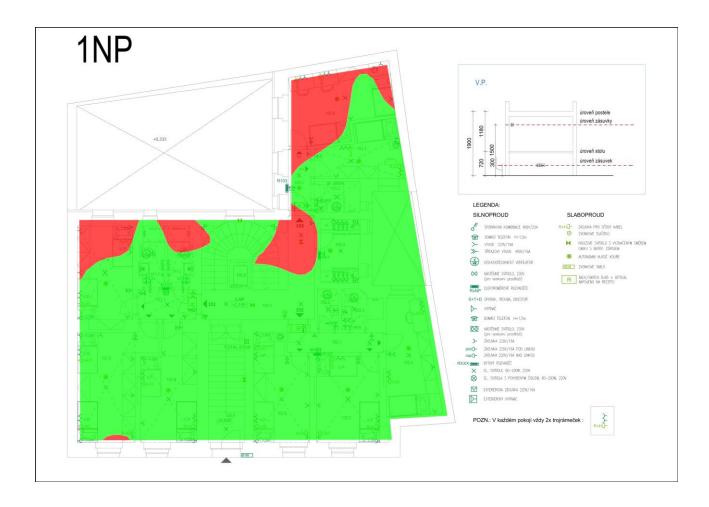
Wi-Fi Network Report

	802.11ax	116@40	120 mW	EnGenius ECW220 5GHz
3	Simulated AP-3		EnGenius ECW220	
	•802.11ax	6	60 mW	EnGenius ECW220 2.4GHz
	802.11ax	157@40	120 mW	EnGenius ECW220 5GHz
4	Simulated AP-4		EnGenius ECW220	
	•802.11ax	11	60 mW	EnGenius ECW220 2.4GHz
	802.11ax	153@40	120 mW	EnGenius ECW220 5GHz
5	Simulated AP-5		EnGenius ECW220	
	Off	-	-	EnGenius ECW220 2.4GHz
	•802.11ax	44@40	120 mW	EnGenius ECW220 5GHz
6	Simulated AP-6		EnGenius ECW220	
	802.11ax	6	6 mW	EnGenius ECW220 2.4GHz
	●802.11ax	100@40	120 mW	EnGenius ECW220 5GHz



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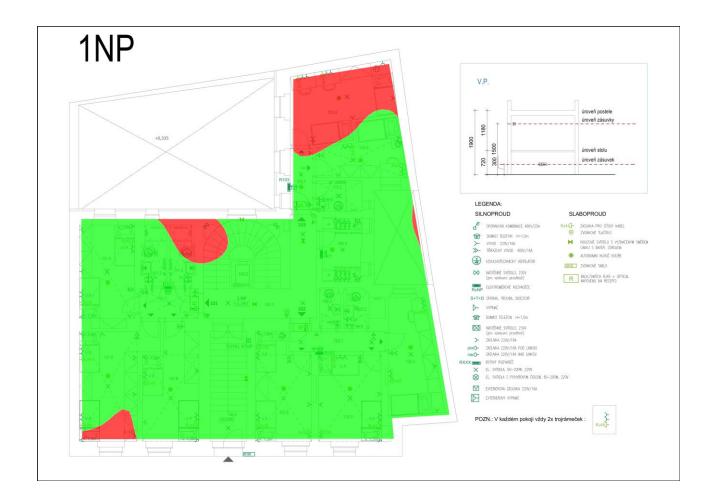






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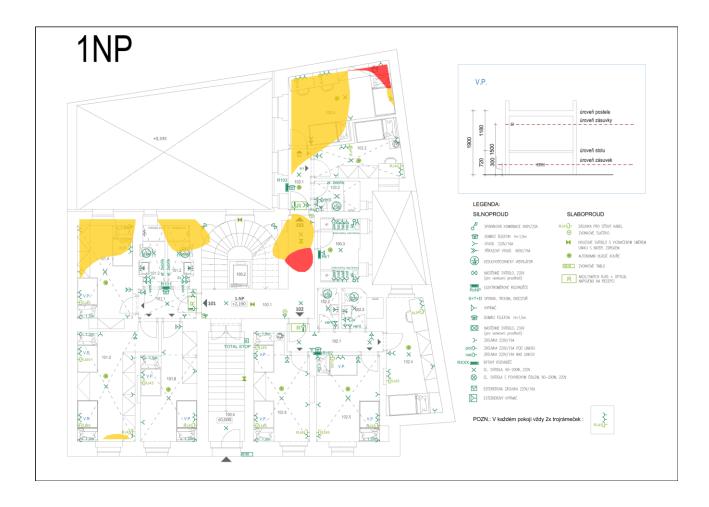






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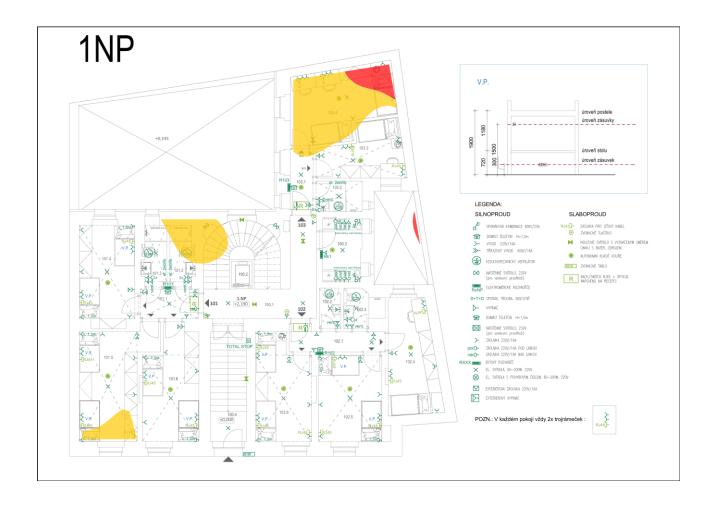


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S.Str S.Str2

