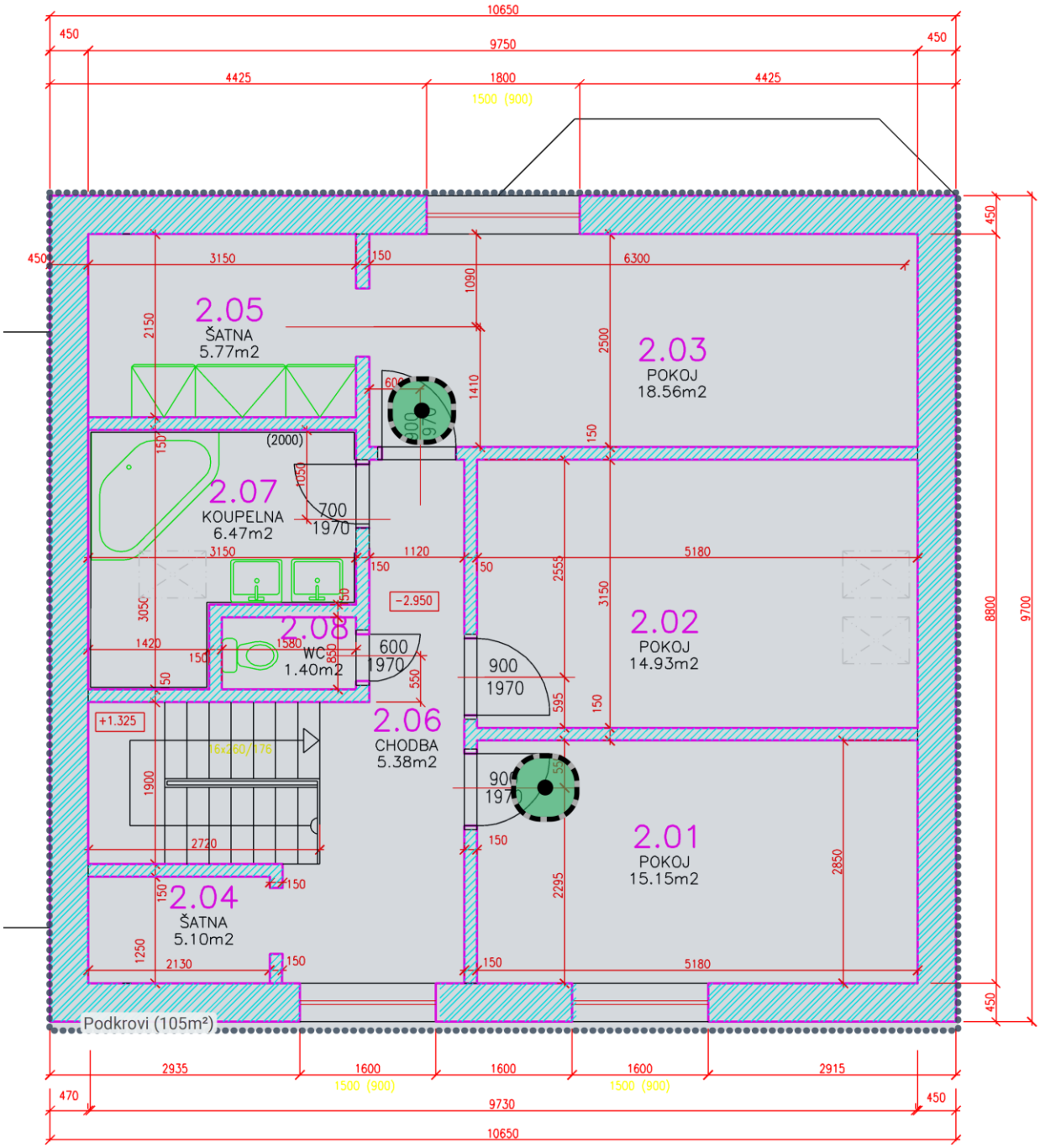
Wi-Fi Network Report

Name: **RD_Kolin_1**
Location: **CZ_Kolín**
Responsible Person: **Ing. Aleš Moravec**

Project description

podkrovi_2.3.04

Survey routes and Access Points for podkrovi_2.3.04



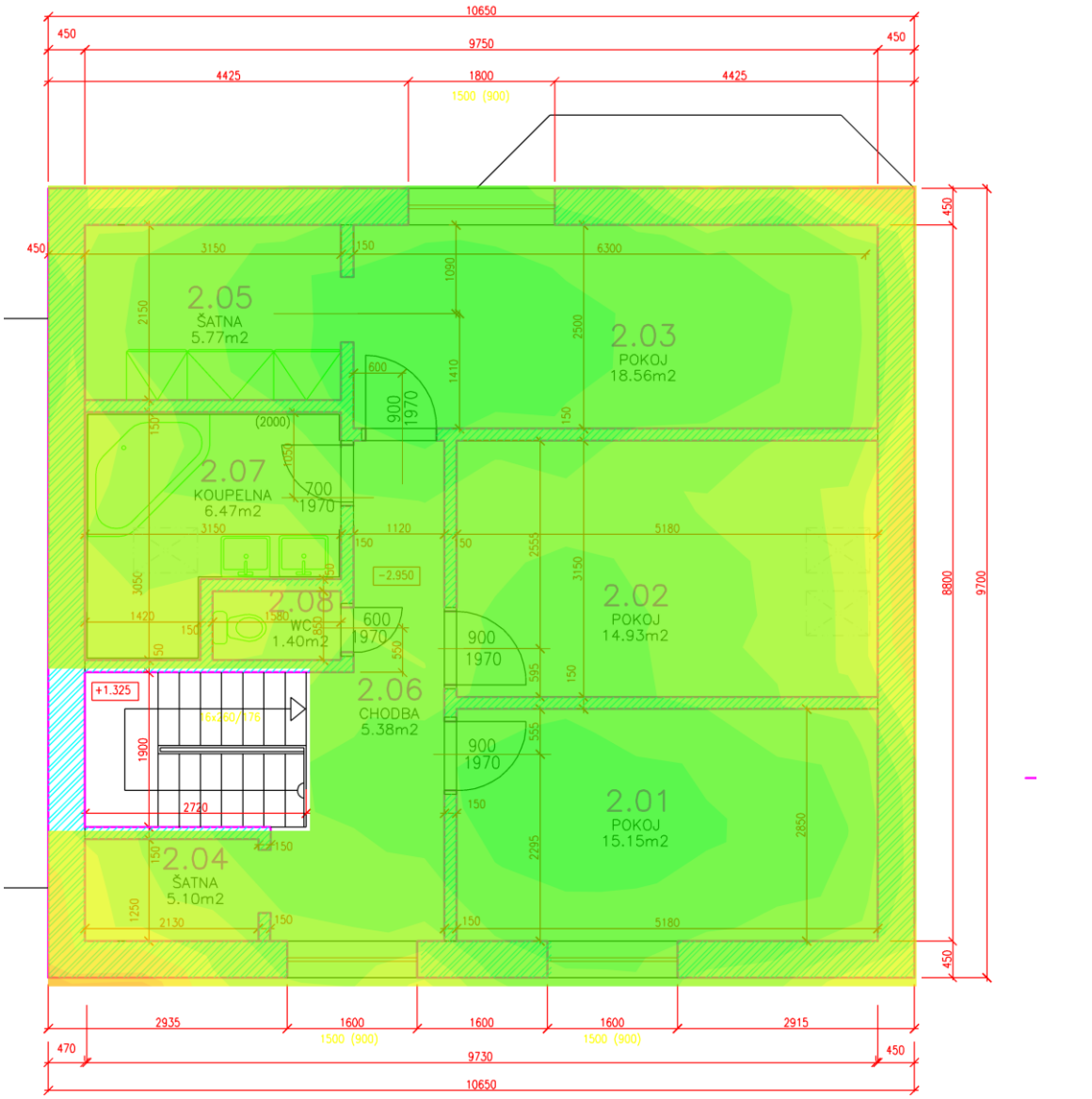
Podkrovi (99 m²)

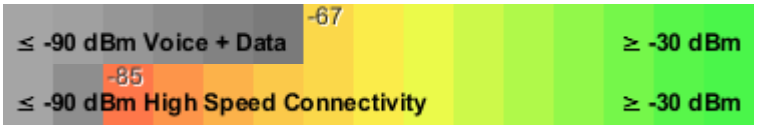
Coverage Requirement: **High Speed Connectivity**	Signal Strength Min	**-85.0 dBm**

	Secondary Signal Strength Min	**-80.0 dBm**
	Signal-to-noise Ratio Min	**16.0 dB**
	Data rate Min	**12 Mbps**
	Channel Interference Max	**3 at min. -80.0 dBm**
	Round Trip Time (RTT) Max	**300 ms**
	Packet Loss Max	**5.0 %**
Capacity Requirement		
	3	Generic Laptop [Web Email (2 Mbps)]
	5	Generic Smartphone [Background Sync]
	5	Generic Tablet [Streaming, Video]
	Total: 13 (23.5 Mbits/s)	
Notes		

Signal Strength for podkrovi_2.3.04 on 2.4 GHz band

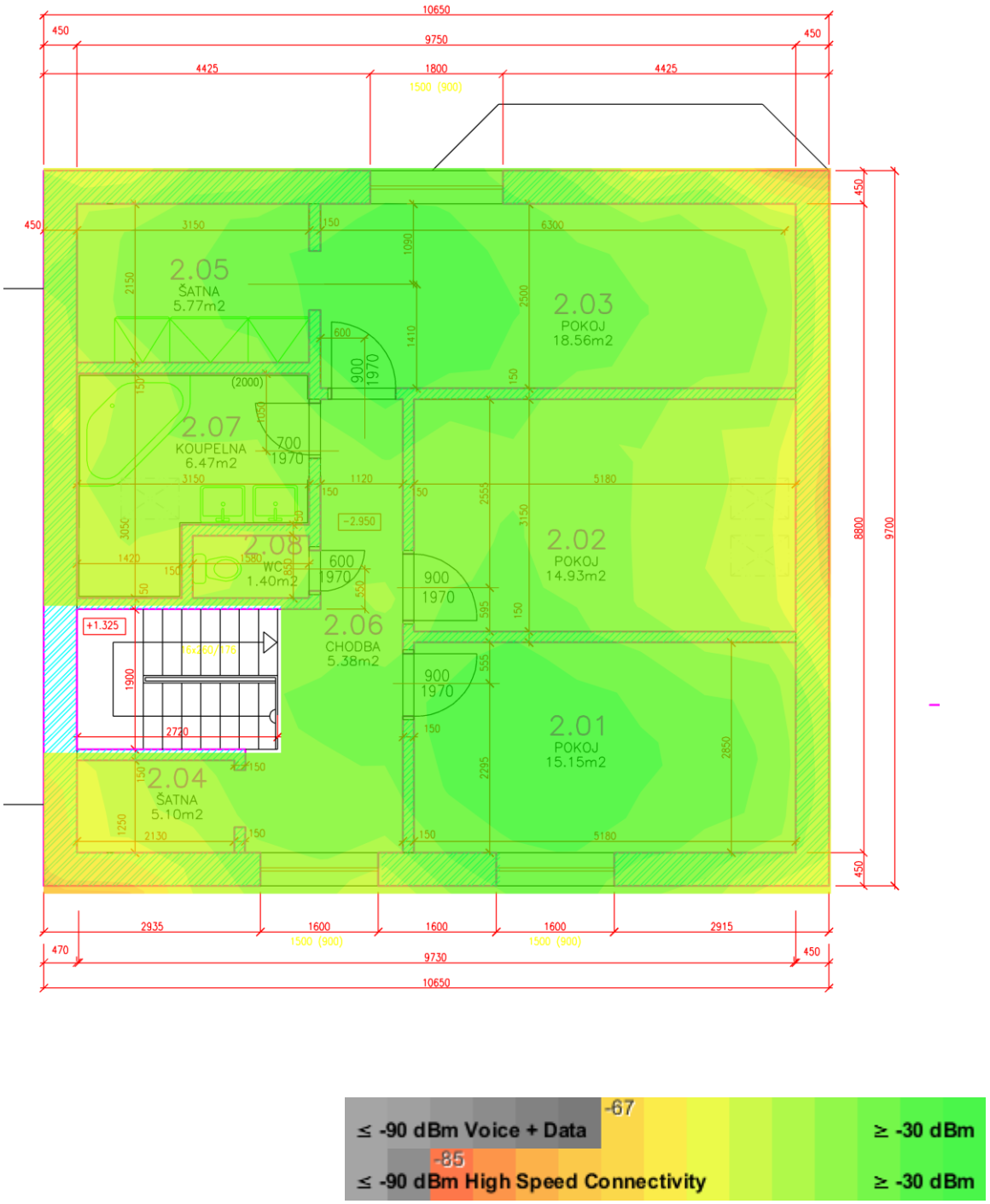
Signal Strength - sometimes called coverage - is the most basic requirement for a wireless network. As a general guideline, low signal strength means unreliable connections, and low data throughput.





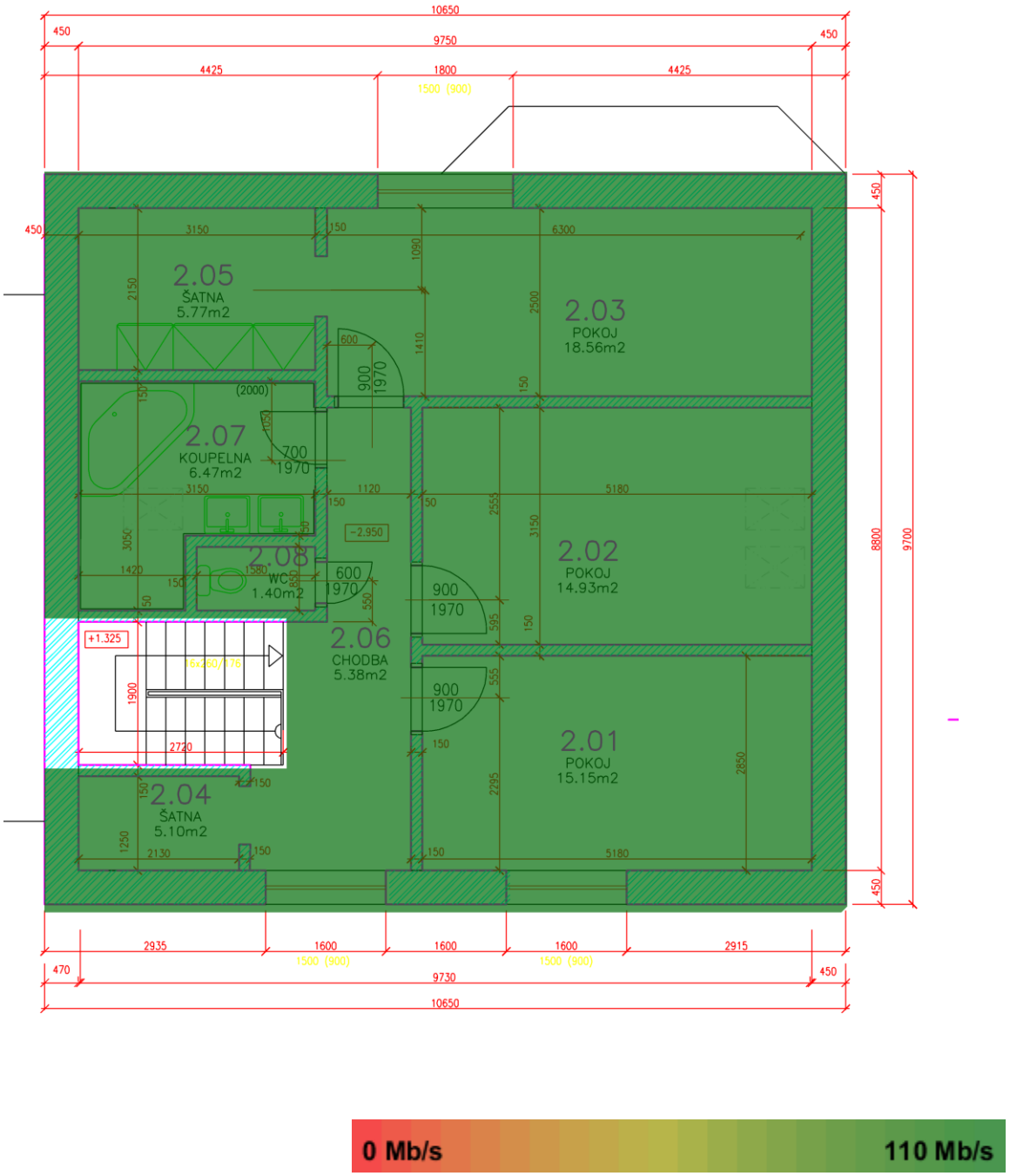
Signal Strength for podkrovi_2.3.04 on 5 GHz band

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



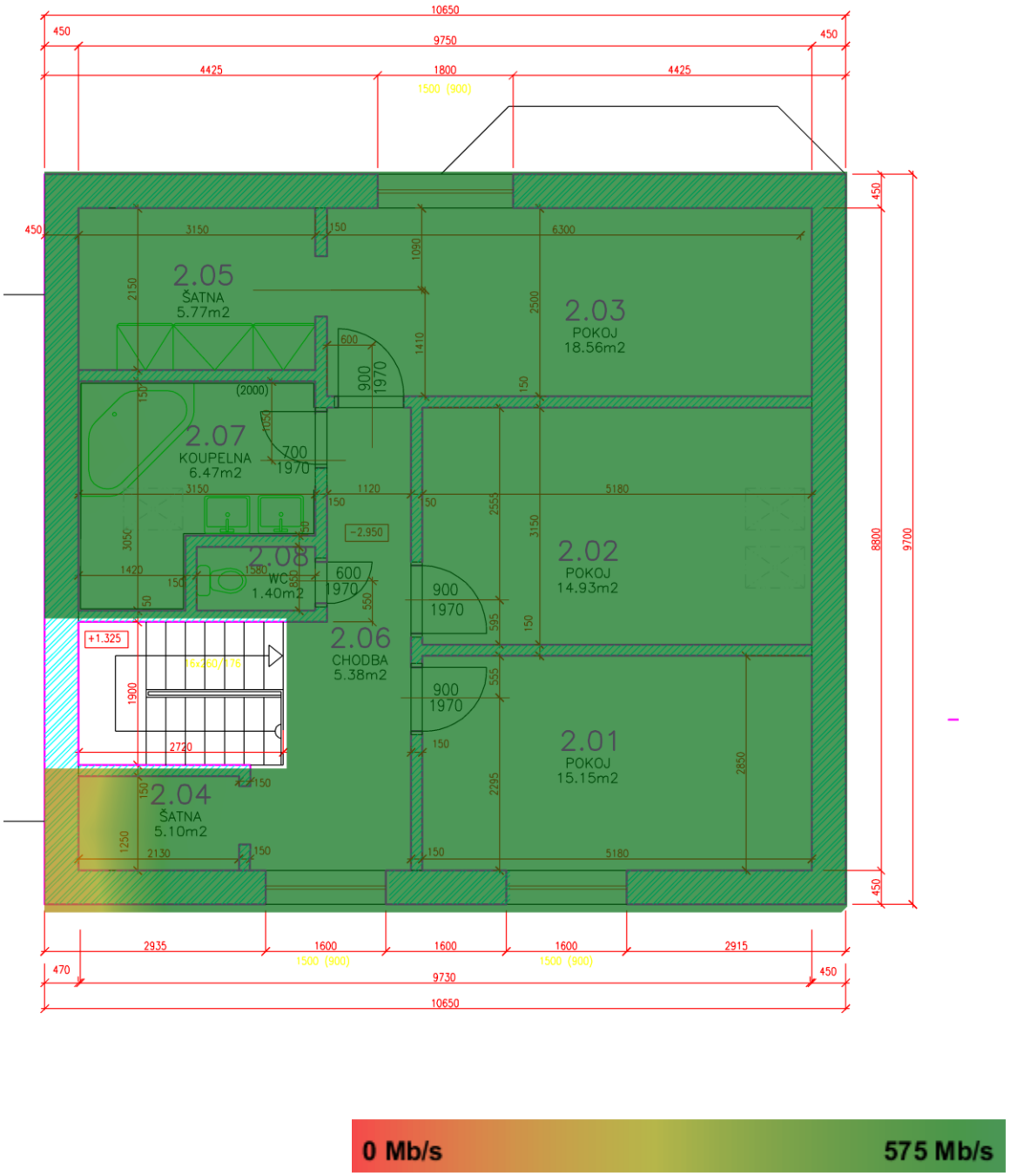
Throughput for podkrovi_2.3.04 on 2.4 GHz band

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



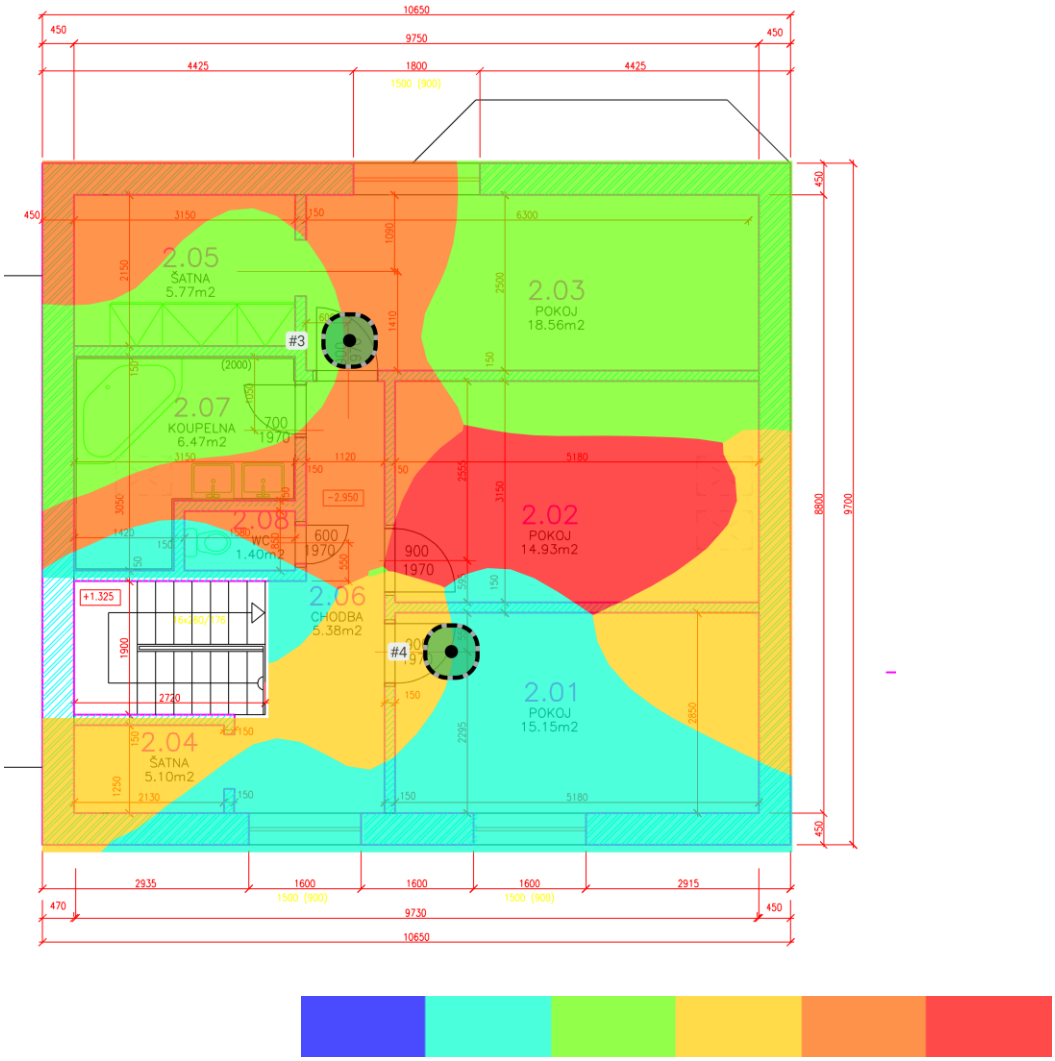
Throughput for podkrovi_2.3.04 on 5 GHz band

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



Associated Access Point for podkrovi_2.3.04

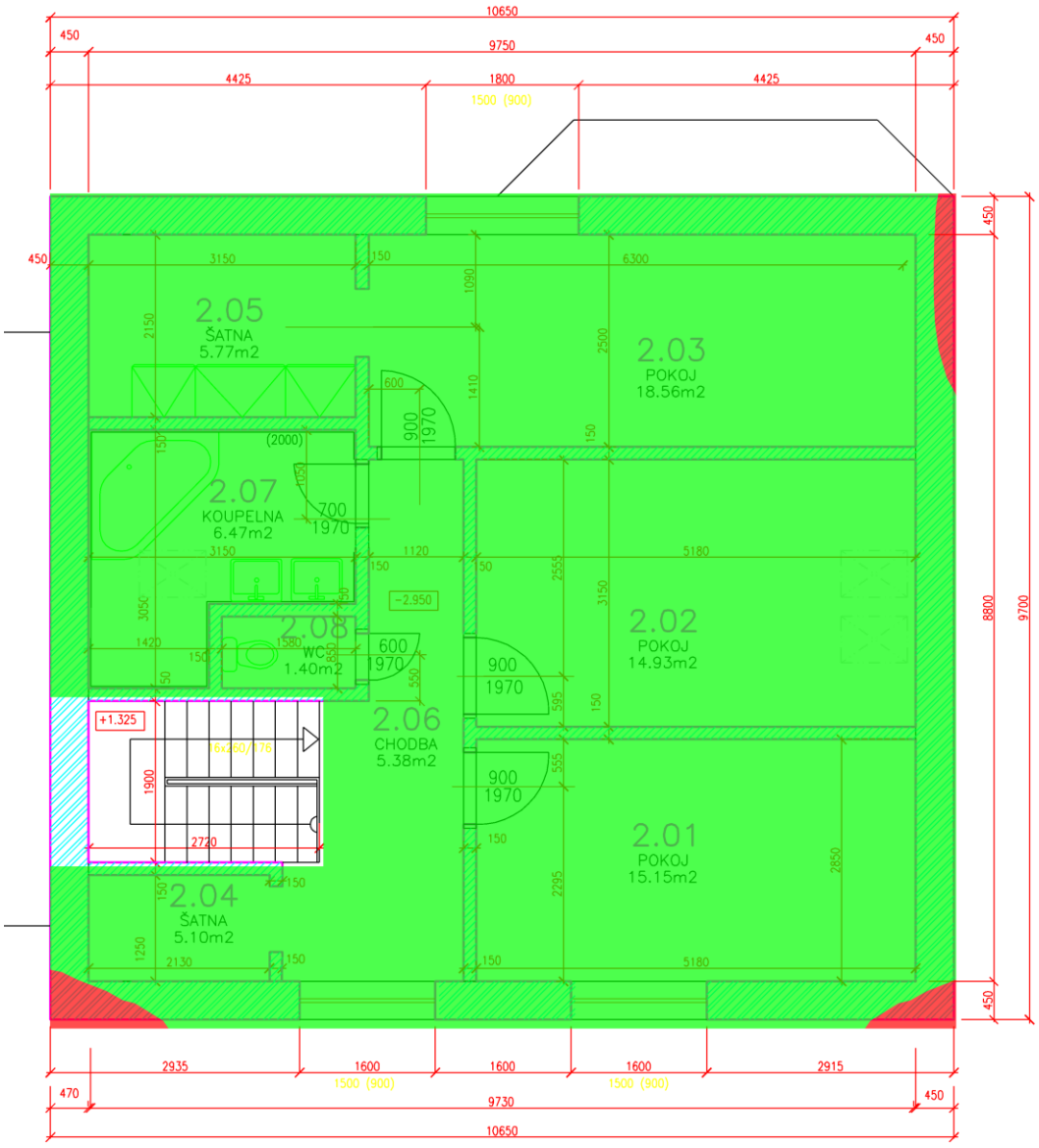
Displays the access point the client device is associated with. The image shows Predicted Association - Signal Strength



AP #	Access Point			
3	Simulated AP-3		EnGenius ECW120	
	●802.11n	1	30 mW	EnGenius ECW120 2.4GHz
	●802.11ac	100@80	200 mW	EnGenius ECW120 5GHz
4	Simulated AP-4		EnGenius ECW120	
	●802.11n	11	30 mW	EnGenius ECW120 2.4GHz
	●802.11ac	36@80	200 mW	EnGenius ECW120 5GHz

Network Health for podkrovi_2.3.04 on 2.4 GHz band

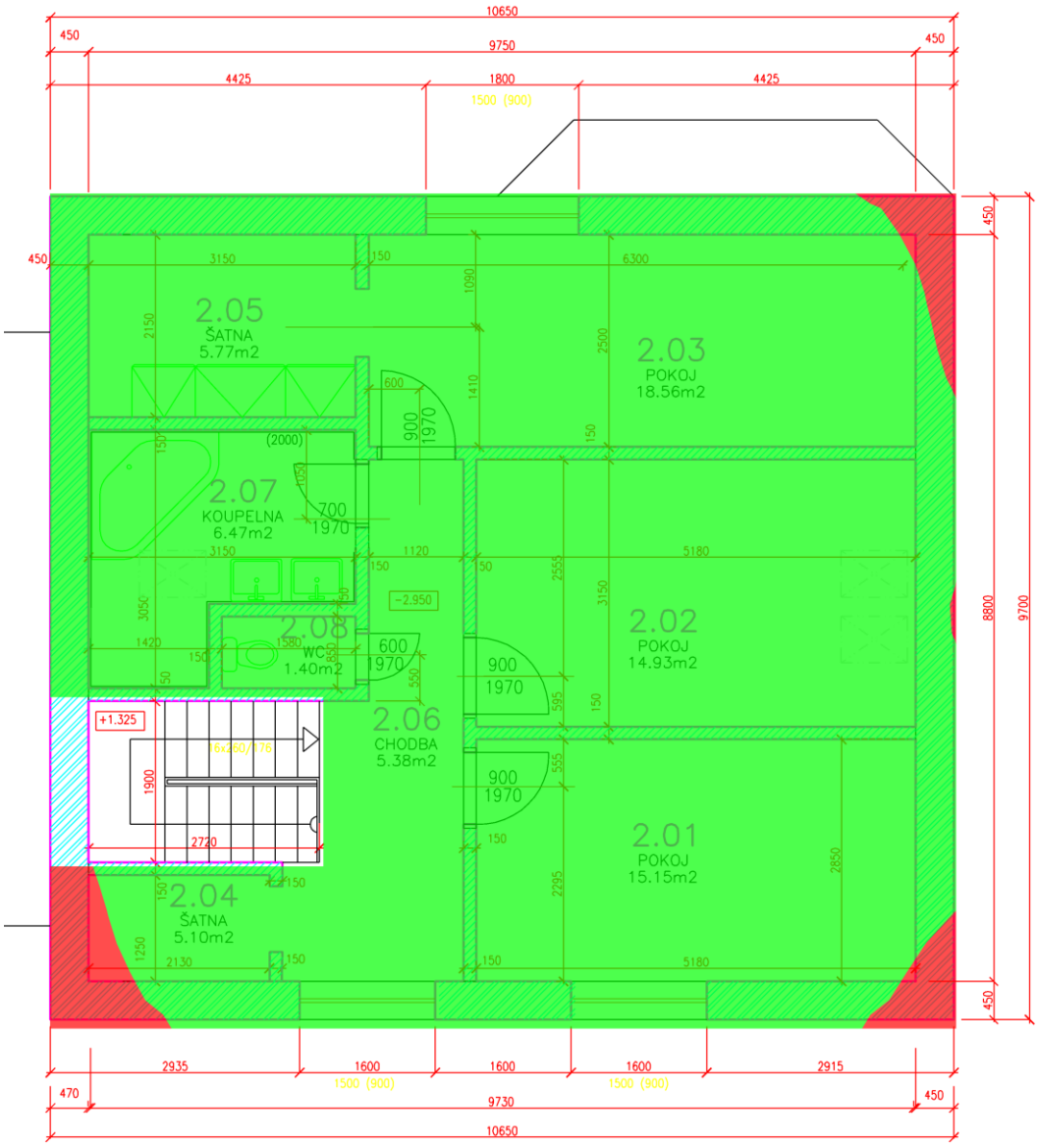
Wi-Fi is typically built for a certain purpose or several purposes, such as VoIP, web browsing, or location tracking. With Network Health, you can, with a single visualization, display whether the network meets your requirements or not.



Fail | Pass

Network Health for podkrovi_2.3.04 on 5 GHz band

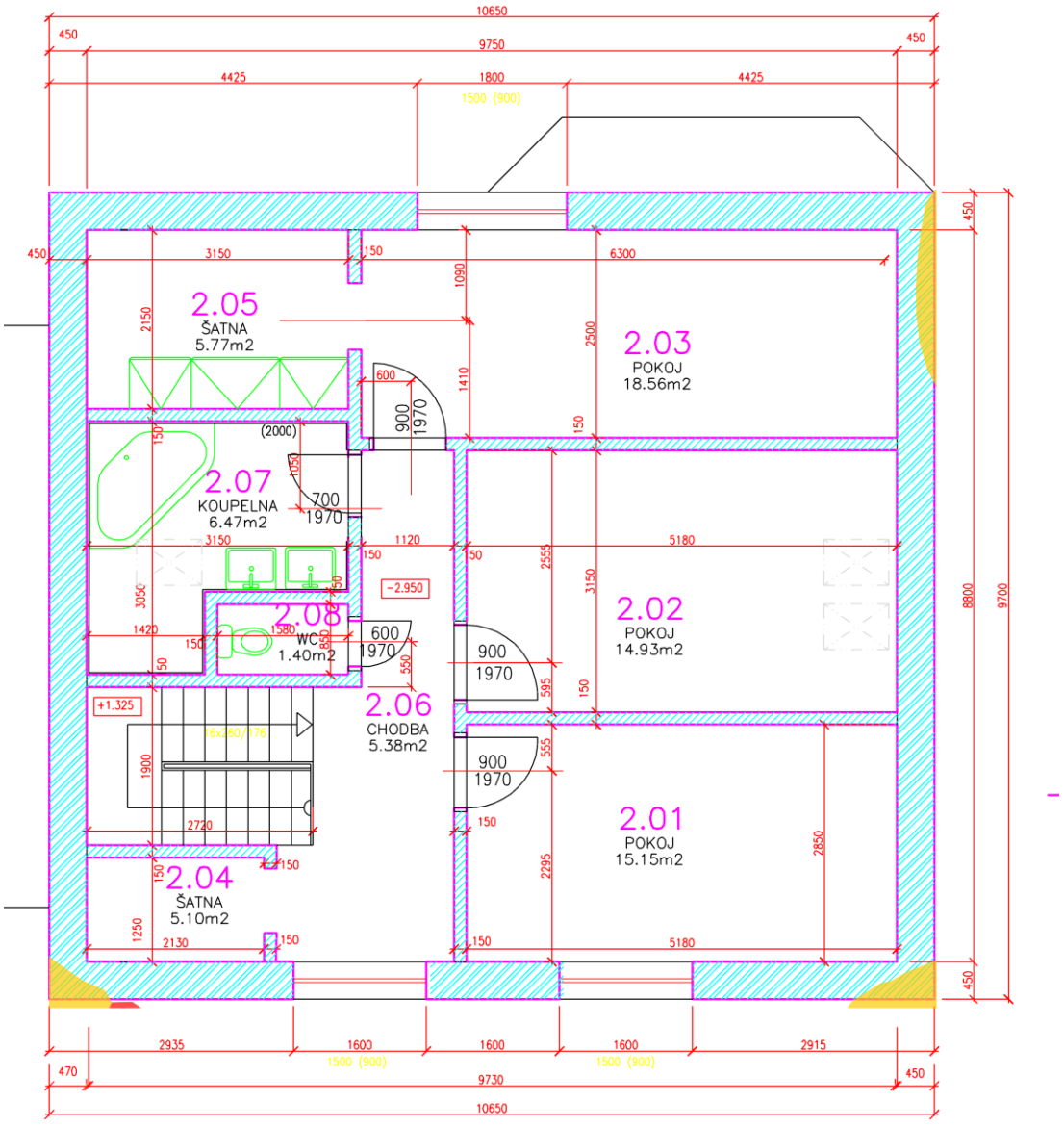
Wi-Fi is typically built for a certain purpose or several purposes, such as VoIP, web browsing, or location tracking. With Network Health, you can, with a single visualization, display whether the network meets your requirements or not.



Fail | Pass

Network Issues for podkrovi_2.3.04 on 2.4 GHz band

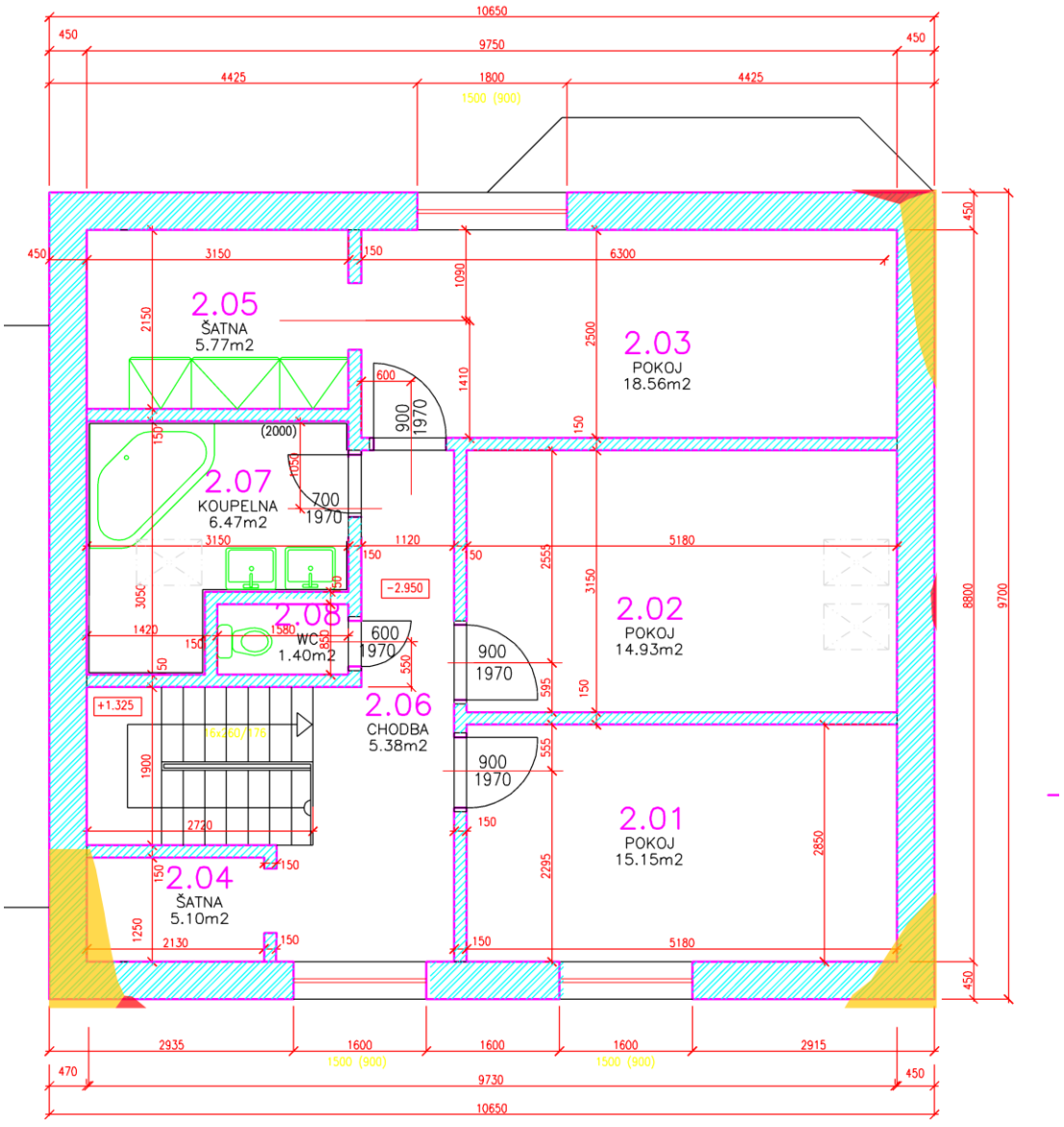
Network Issues complements Network Health by showing the requirement that is below the threshold level at each location. Whereas Network Health answers the question "Does it work?", Network Issues answers the question "If it doesn't work, why?".



S.Str | S.Str2

Network Issues for podkrovi_2.3.04 on 5 GHz band

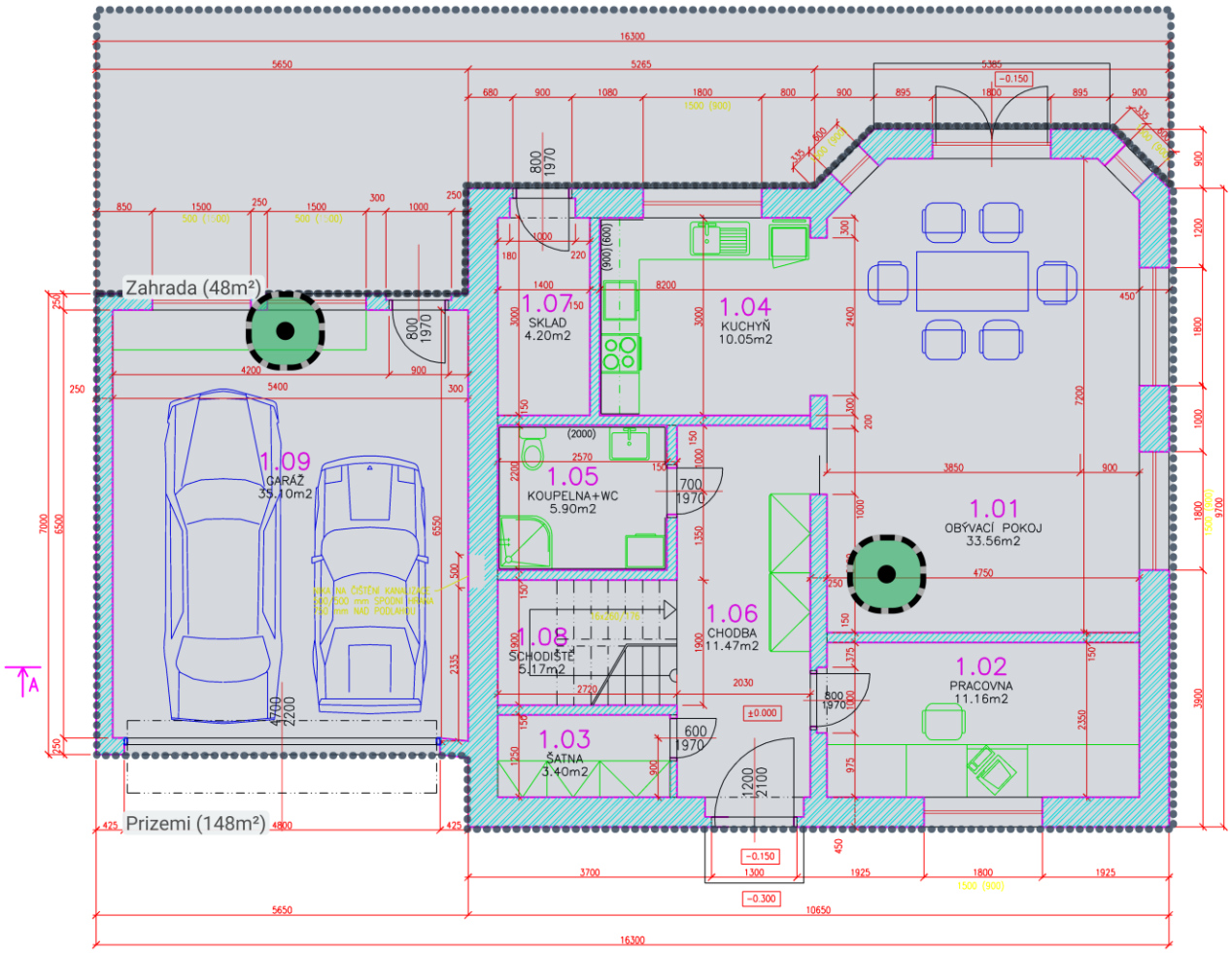
Network Issues complements Network Health by showing the requirement that is below the threshold level at each location. Whereas Network Health answers the question "Does it work?", Network Issues answers the question "If it doesn't work, why?".



S.Str | S.Str2

prizemi_2.3.04

Survey routes and Access Points for prizemi_2.3.04



Prizemi (142 m²)

Coverage Requirement: **High Speed Connectivity**	Signal Strength Min	**-85.0 dBm**
	Secondary Signal Strength Min	**-80.0 dBm**
	Signal-to-noise Ratio Min	**16.0 dB**
	Data rate Min	**12 Mbps**
	Channel Interference Max	**3 at min. -80.0 dBm**
	Round Trip Time (RTT) Max	**300 ms**
	Packet Loss Max	**5.0 %**
Capacity Requirement		

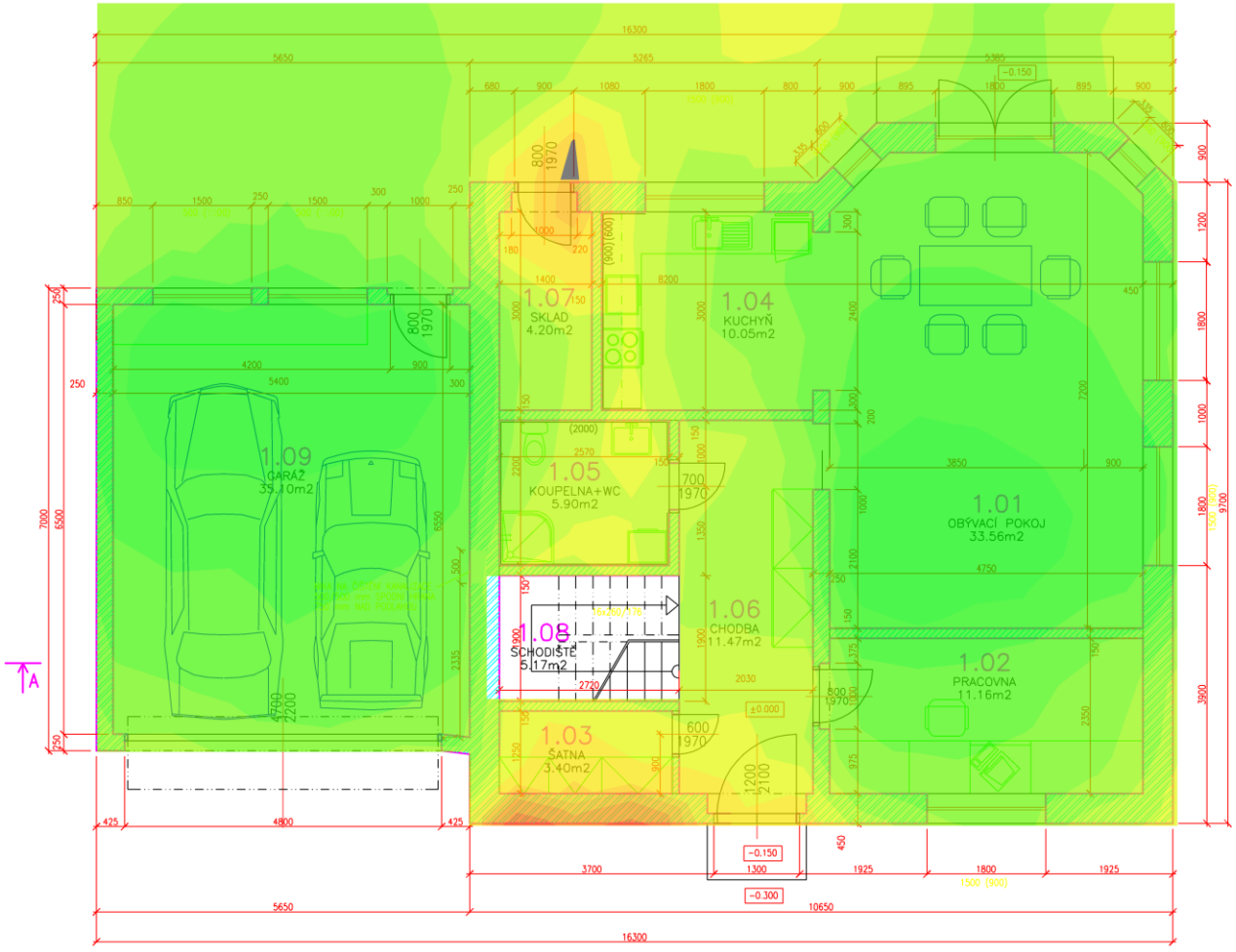
	5 Generic Laptop [Conferencing, Lync/Skype] **5** Generic Smartphone [Background Sync] **5** Generic Tablet [Web Email (2 Mbps)] **Total: 15 (33.1 Mbits/s)**
Notes	

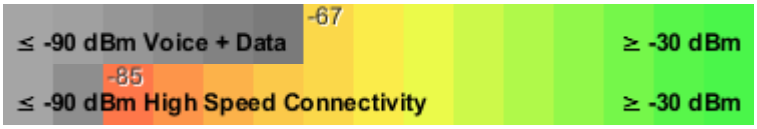
Zahrada (48 m²)

Coverage Requirement: **Voice + Data**	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 %**
Capacity Requirement	No capacity devices for this area	
Notes		

Signal Strength for prizemi_2.3.04 on 2.4 GHz band

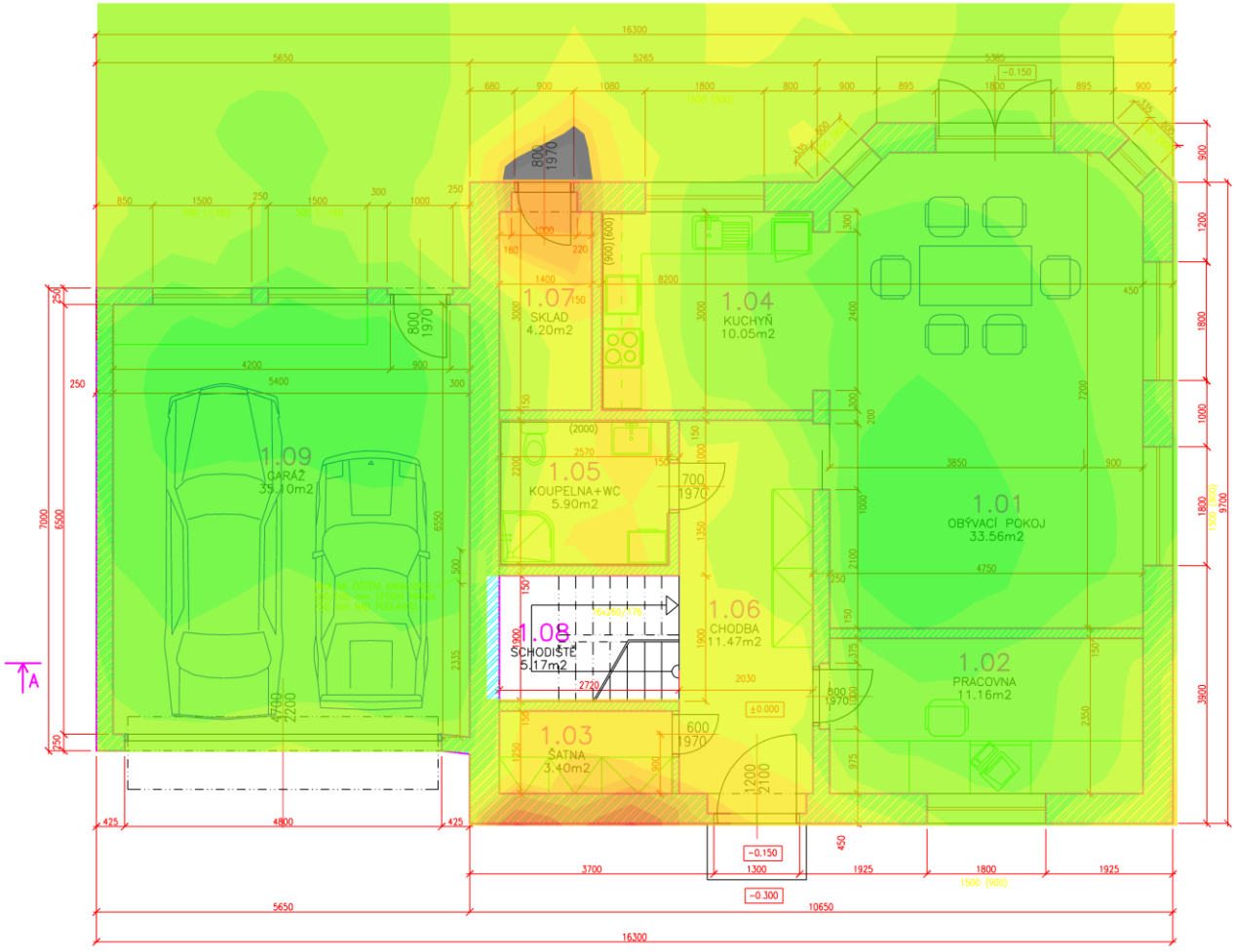
Signal Strength - sometimes called coverage - is the most basic requirement for a wireless network. As a general guideline, low signal strength means unreliable connections, and low data throughput.

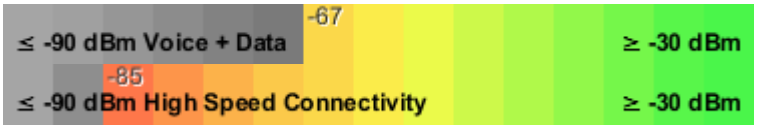




Signal Strength for prizemi_2.3.04 on 5 GHz band

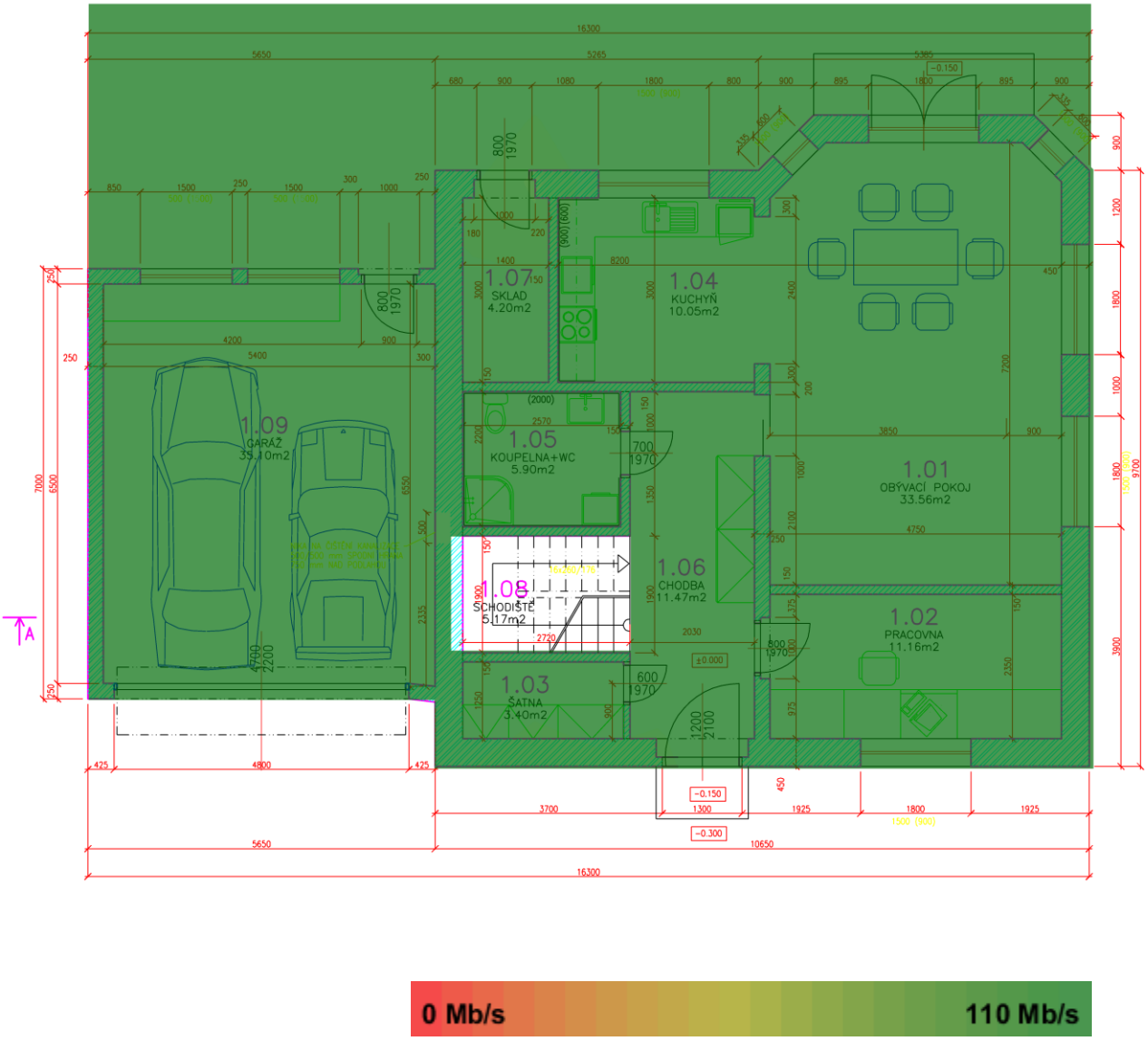
Signal Strength - sometimes called coverage - is the most basic requirement for a wireless network. As a general guideline, low signal strength means unreliable connections, and low data throughput.





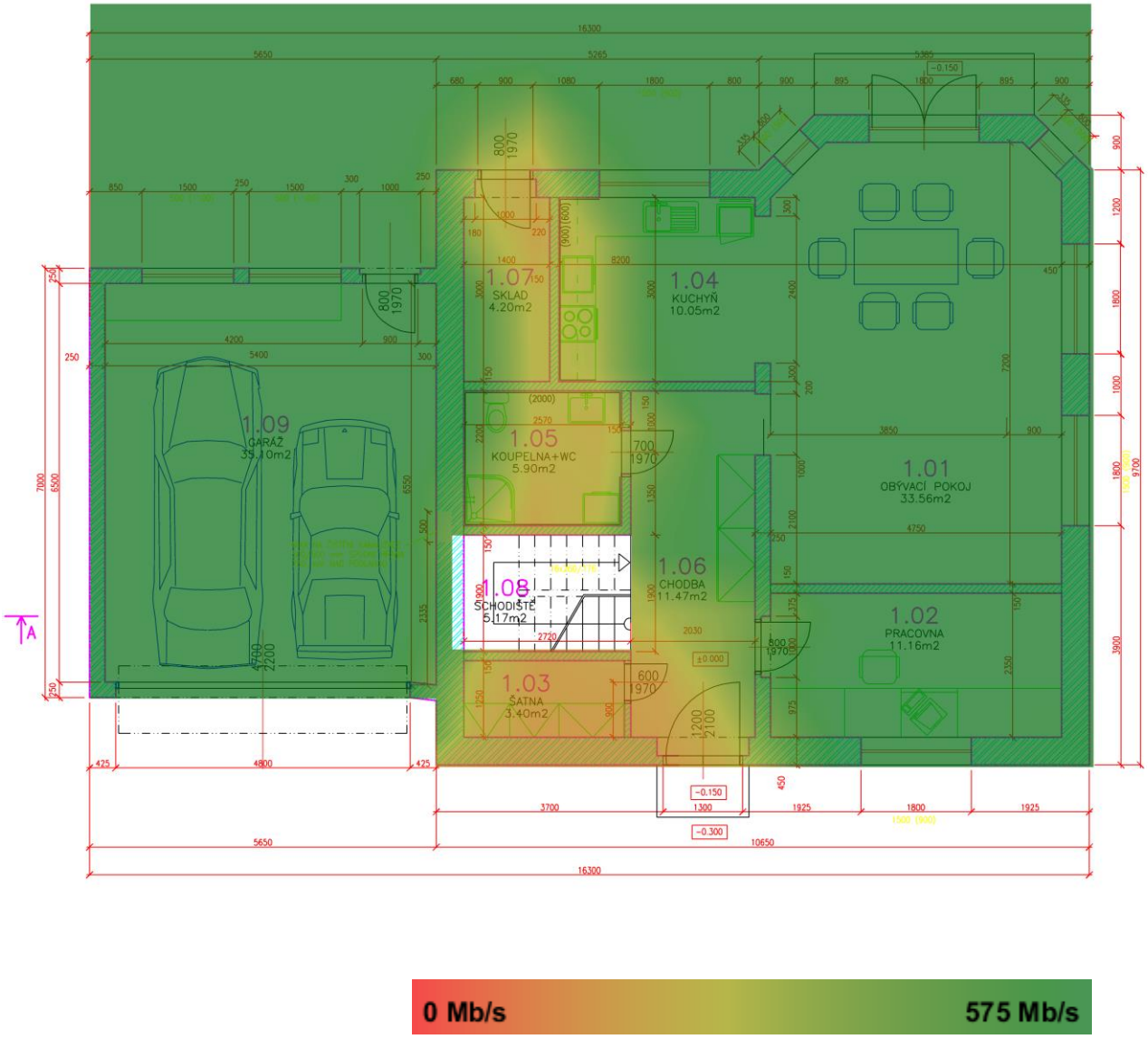
Throughput for prizemi_2.3.04 on 2.4 GHz band

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



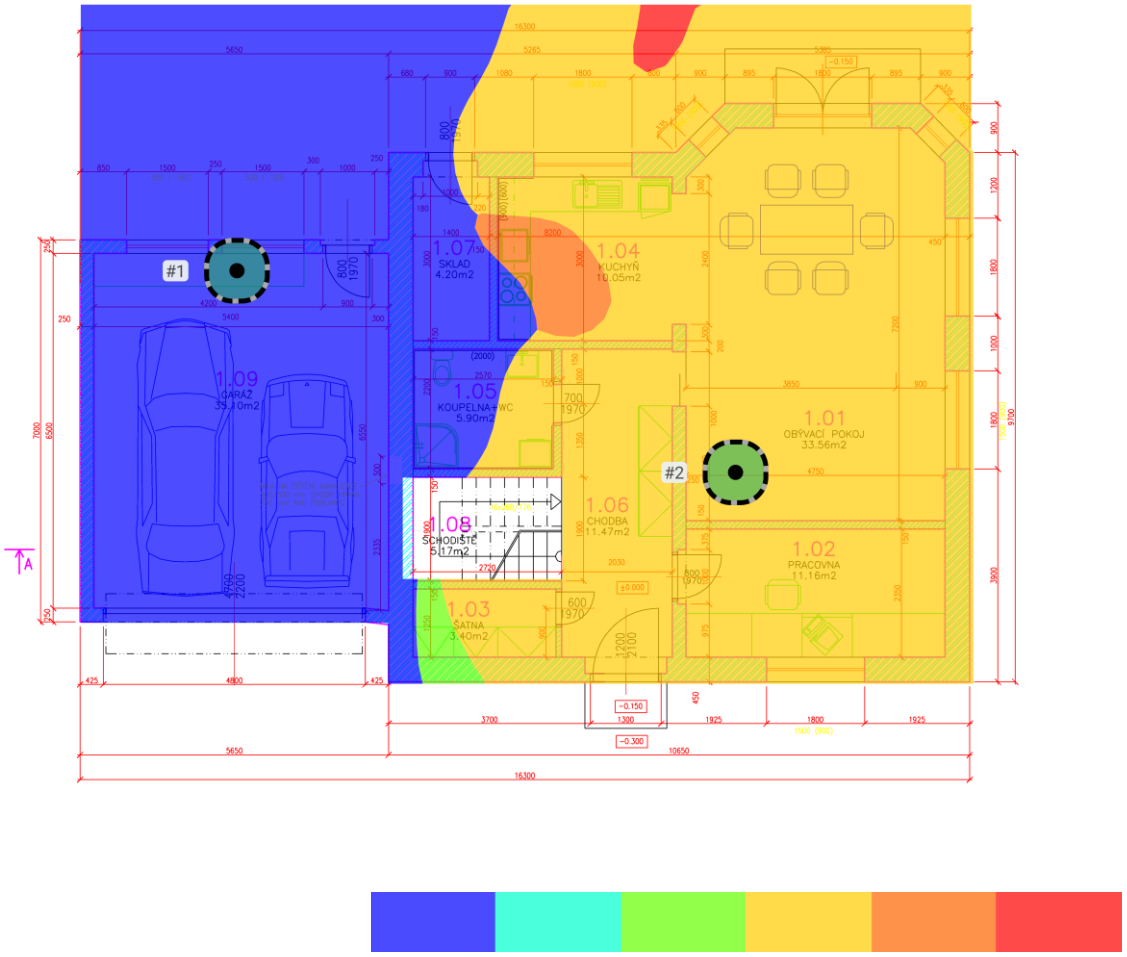
Throughput for prizemi_2.3.04 on 5 GHz band

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



Associated Access Point for prizemi_2.3.04

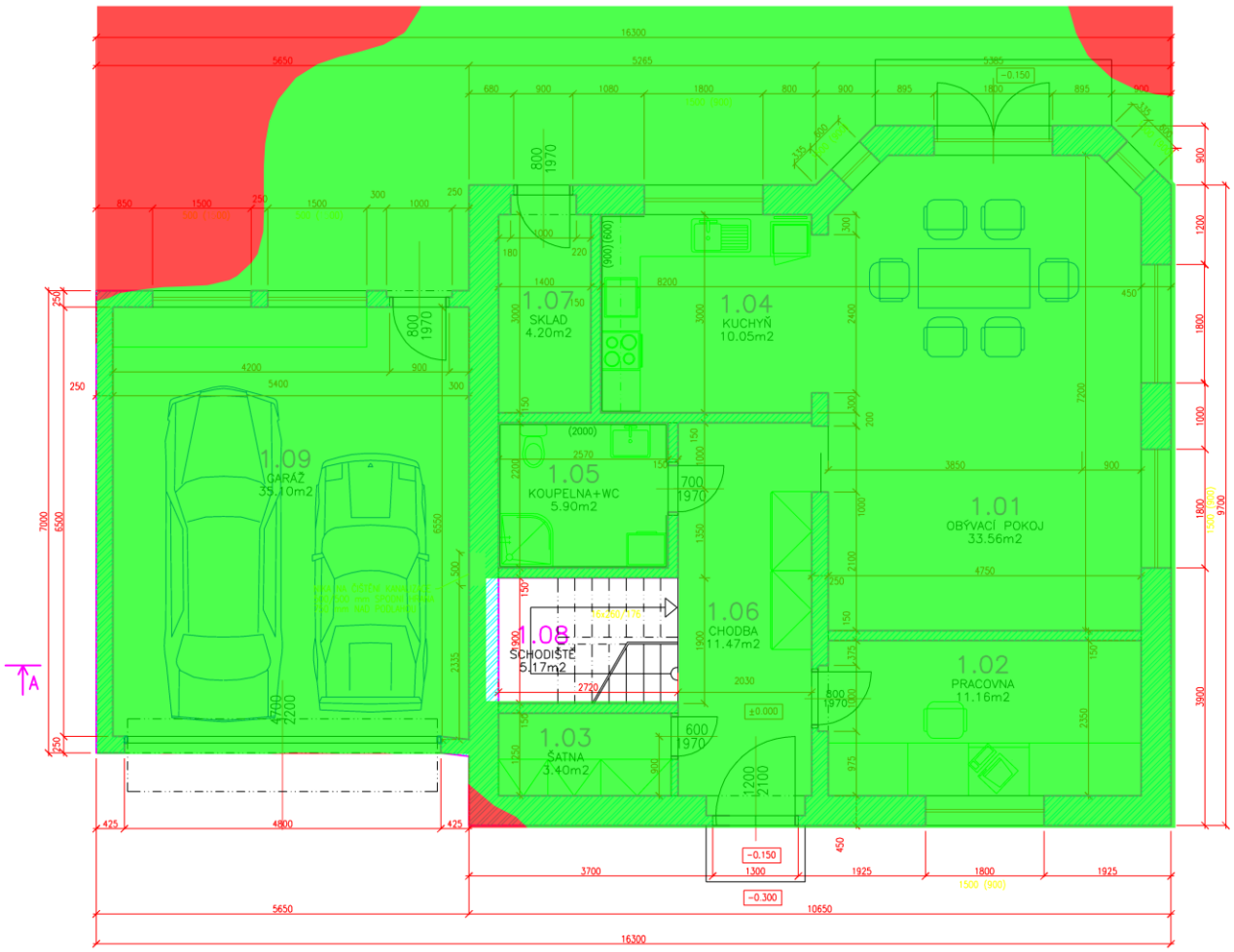
Displays the access point the client device is associated with. The image shows Predicted Association - Signal Strength



AP #	Access Point			
1	Simulated AP-1		EnGenius ECW120	
	●802.11n	1	100 mW	EnGenius ECW120 2.4GHz
	802.11ac	116@80	200 mW	EnGenius ECW120 5GHz
2	Simulated AP-2		EnGenius ECW120	
	●802.11n	11	100 mW	EnGenius ECW120 2.4GHz
	802.11ac	149@80	200 mW	EnGenius ECW120 5GHz

Network Health for prizemi_2.3.04 on 2.4 GHz band

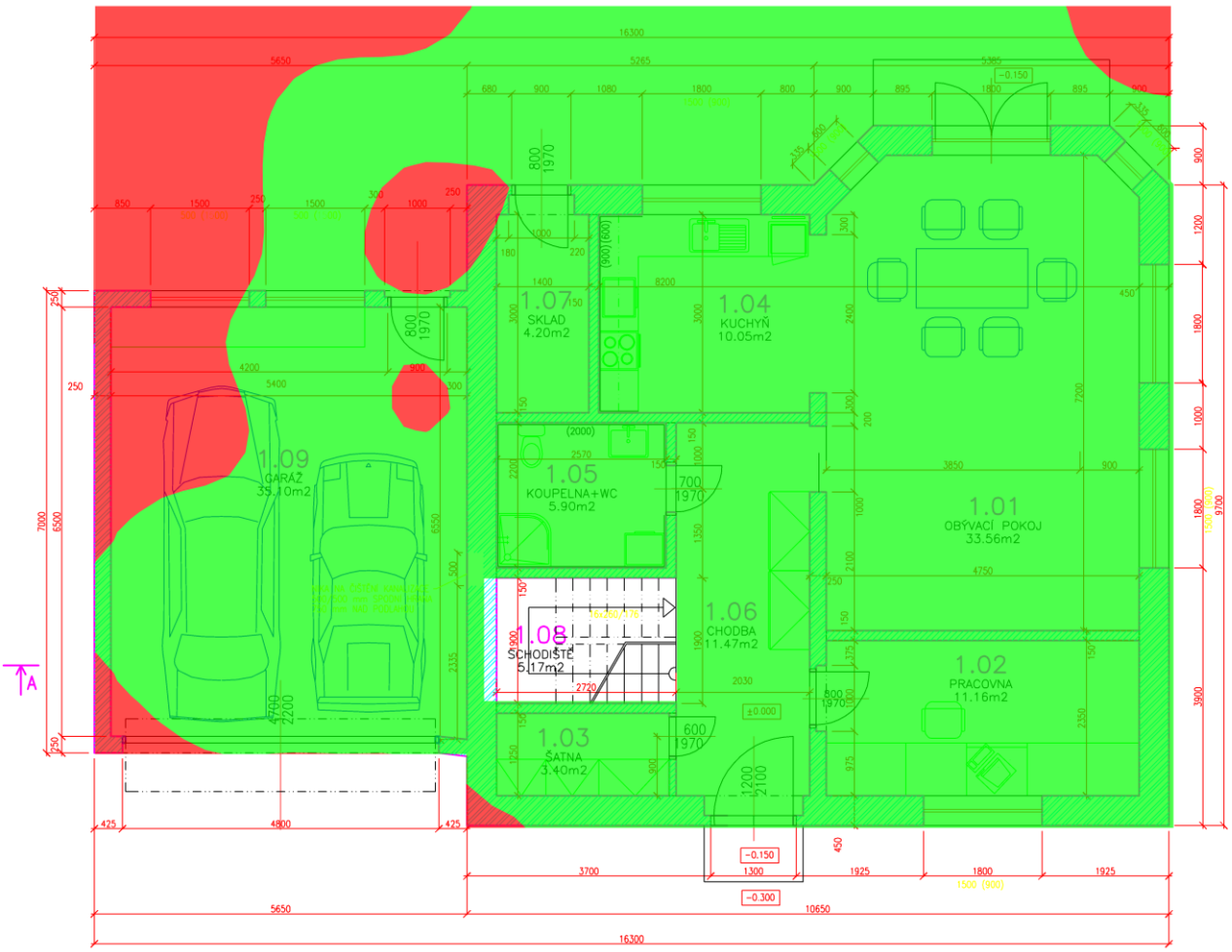
Wi-Fi is typically built for a certain purpose or several purposes, such as VoIP, web browsing, or location tracking. With Network Health, you can, with a single visualization, display whether the network meets your requirements or not.



Fail | Pass

Network Health for prizemi_2.3.04 on 5 GHz band

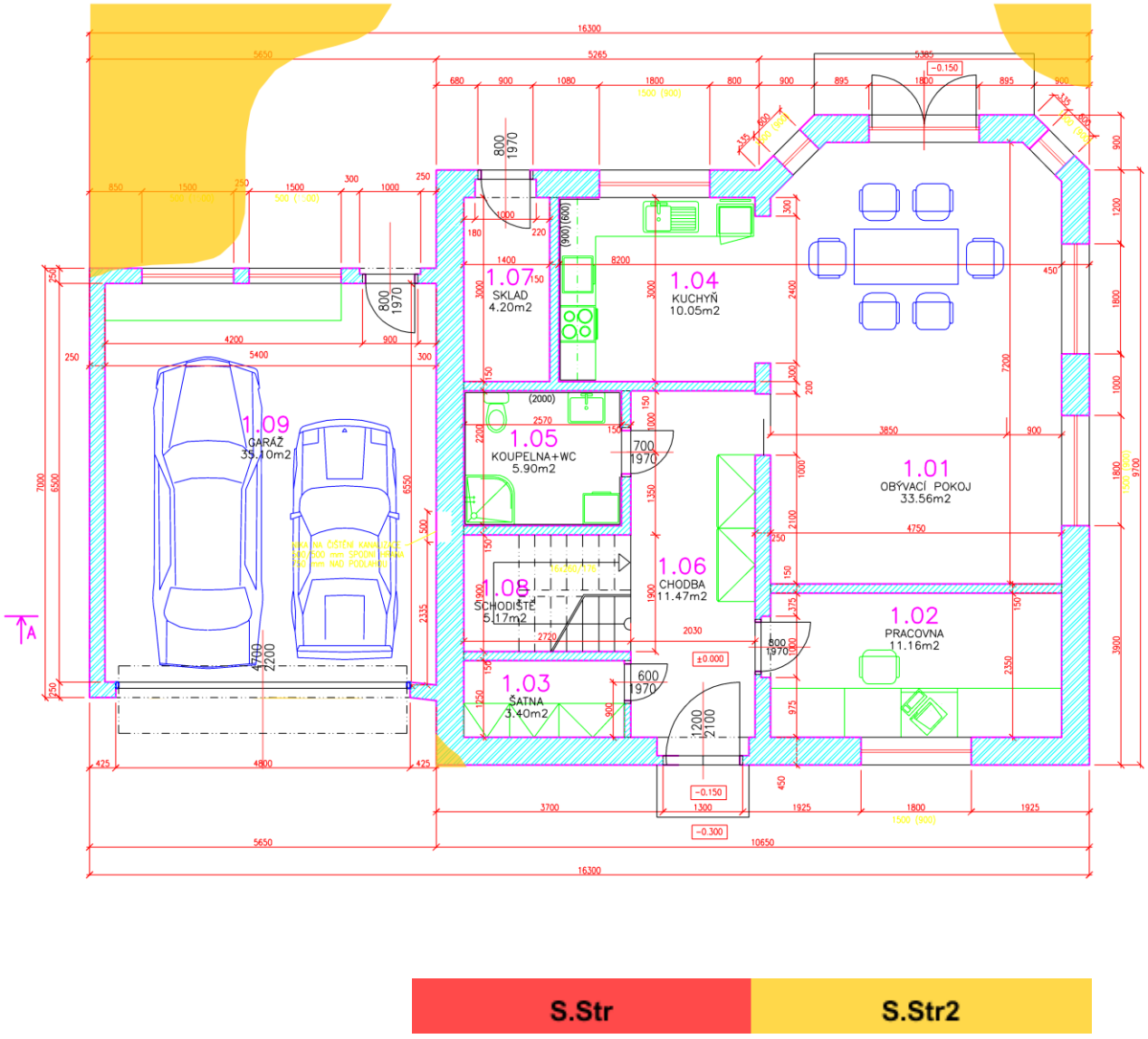
Wi-Fi is typically built for a certain purpose or several purposes, such as VoIP, web browsing, or location tracking. With Network Health, you can, with a single visualization, display whether the network meets your requirements or not.



Fail | Pass

Network Issues for prizemi_2.3.04 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?".



Network Issues for prizemi_2.3.04 on 5 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?".