Site Survey Report

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Survey Name	ActiveSurvey_SampleReport
Surveyor	Milla B.
Location	Floor 2
Description	Active Survey

Date(s)	Thursday, February 18, 2021

Map with no visualizations
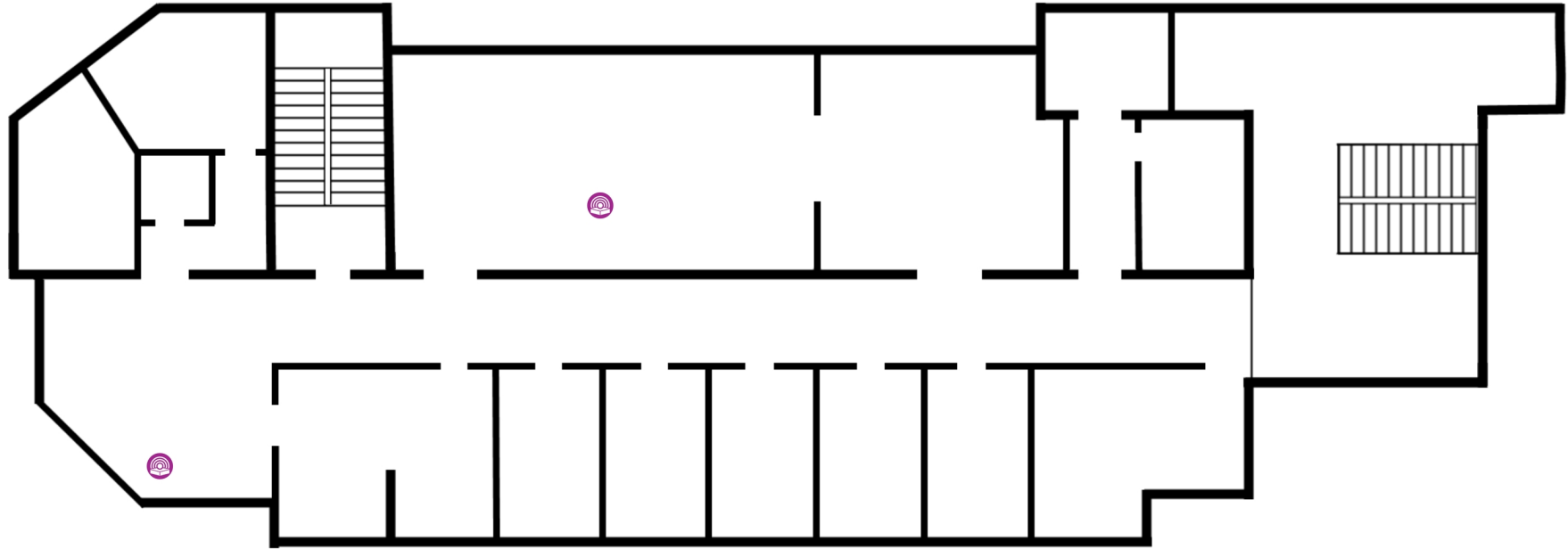
List of APs

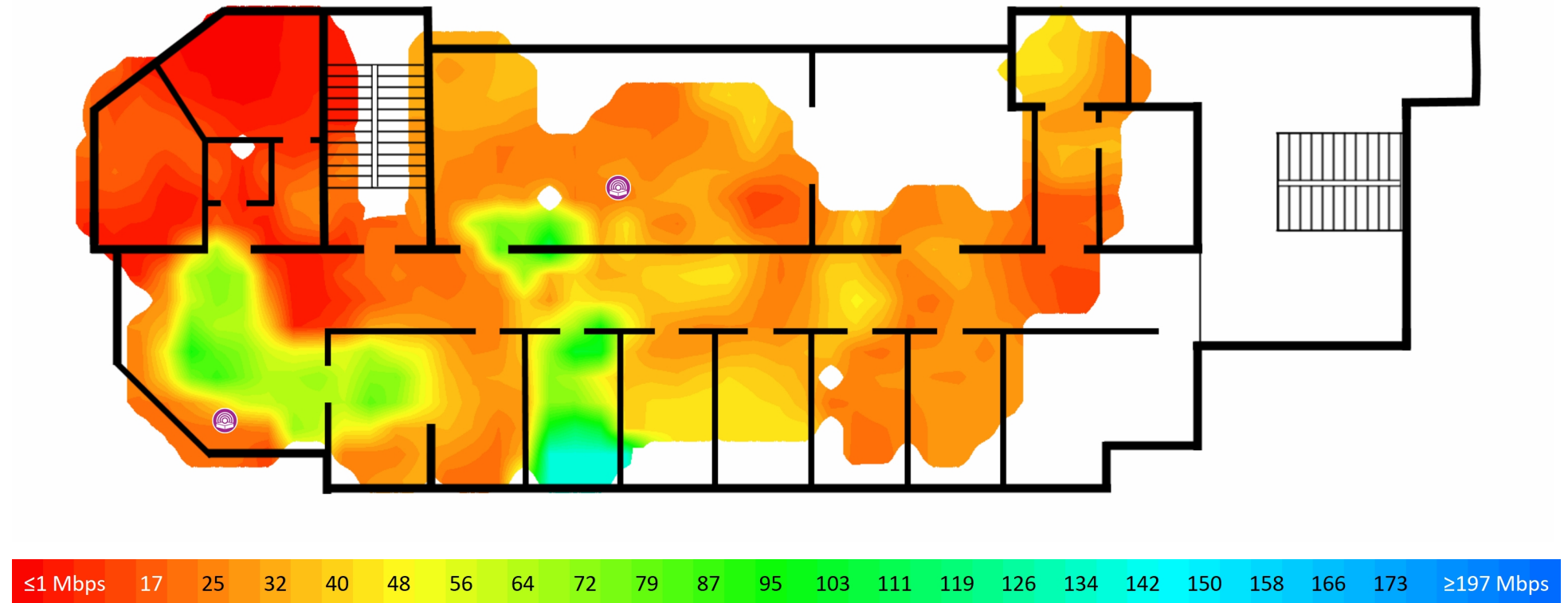| Name	SSID	MAC	Vendor	Channel	Max Rate	Encryption	Max Signal
Keenetic 802.11ac Ultra	K-U77-5	50:FF:20:00:00:A6	Keenetic	44 (44-48@40, 36-48@80)	1733.3	WPA2PSK (CCMP)	-10
Keenetic 802.11n (2.4 GHz) Ultra	K-U77	50:FF:20:00:00:A4	Keenetic	1	288.9	WPA2PSK (CCMP)	-17
Keenetic 802.11ac Air	K-U77-5	50:FF:20:00:00:4C	Keenetic	44 (44-48@40, 36-48@80)	866.7	WPA2PSK (CCMP)	-22
Keenetic 802.11n Air	K-U77	50:FF:20:00:00:4A	Keenetic	6 (6-8@40)	300.0	WPA2PSK (CCMP)	-17

Actual PHY Rate

The physical layer (PHY) rate is the speed at which client devices communicate with the AP. When you move a computer connected to the AP within the WLAN coverage area, the adapter properties dialog in Windows displays the varying connection speed, which may be as high as 450 or 300 Mbps when you are close to the AP or as low as 1 Mbps when you are 50 meters away from it. The displayed speed is the actual PHY rate at which the client was connected to the AP during an active survey.

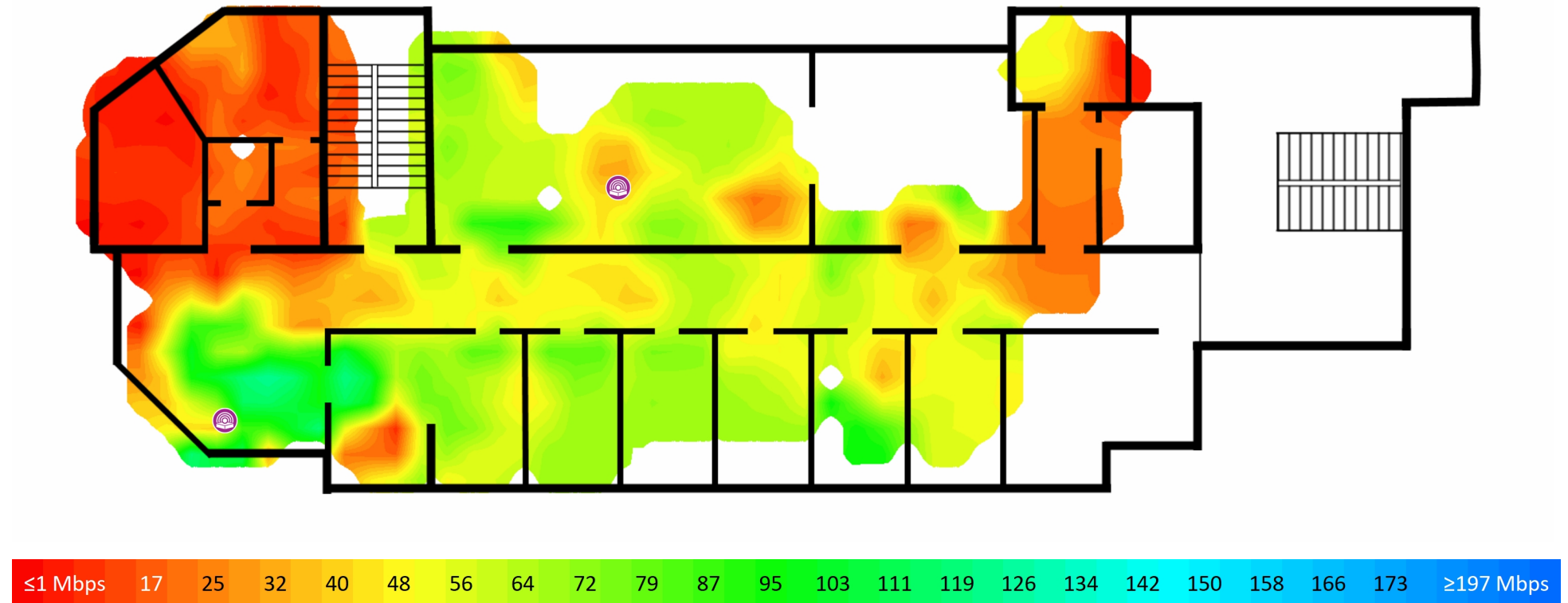| 1 Mbps | 61 | 91 | 122 | 150 | 180 | 210 | 240 | 271 | 300 | 329 | 360 | 390 | 420 | 450 | 480 | 510 | 540 | 574 | 600 | 630 | 658 | 688 | 720 | 750 | 780 | ≥900 Mbps |
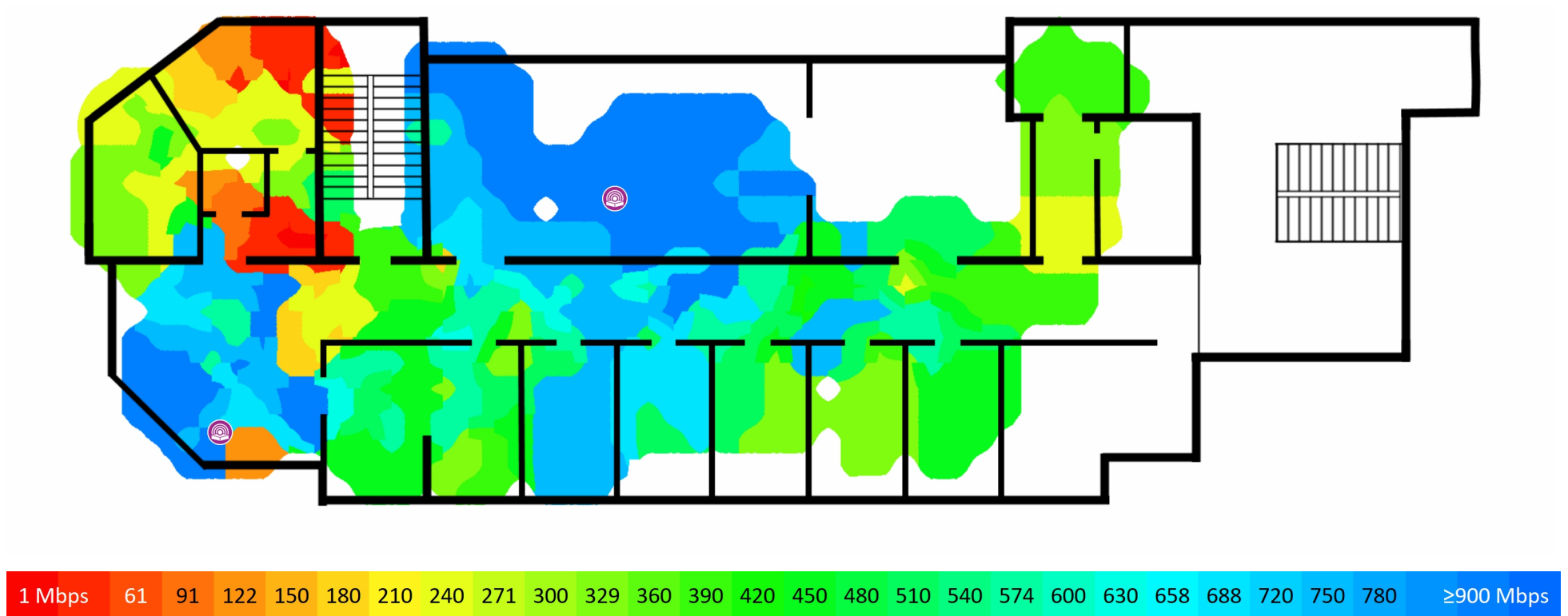
TCP Upstream Rate

This visualization shows the TCP upstream throughput measured in Megabits per second. This is the amount of useful information that is delivered per second to the application layer protocol from the client to the server, i.e., upstream. This value does not include protocol overhead.

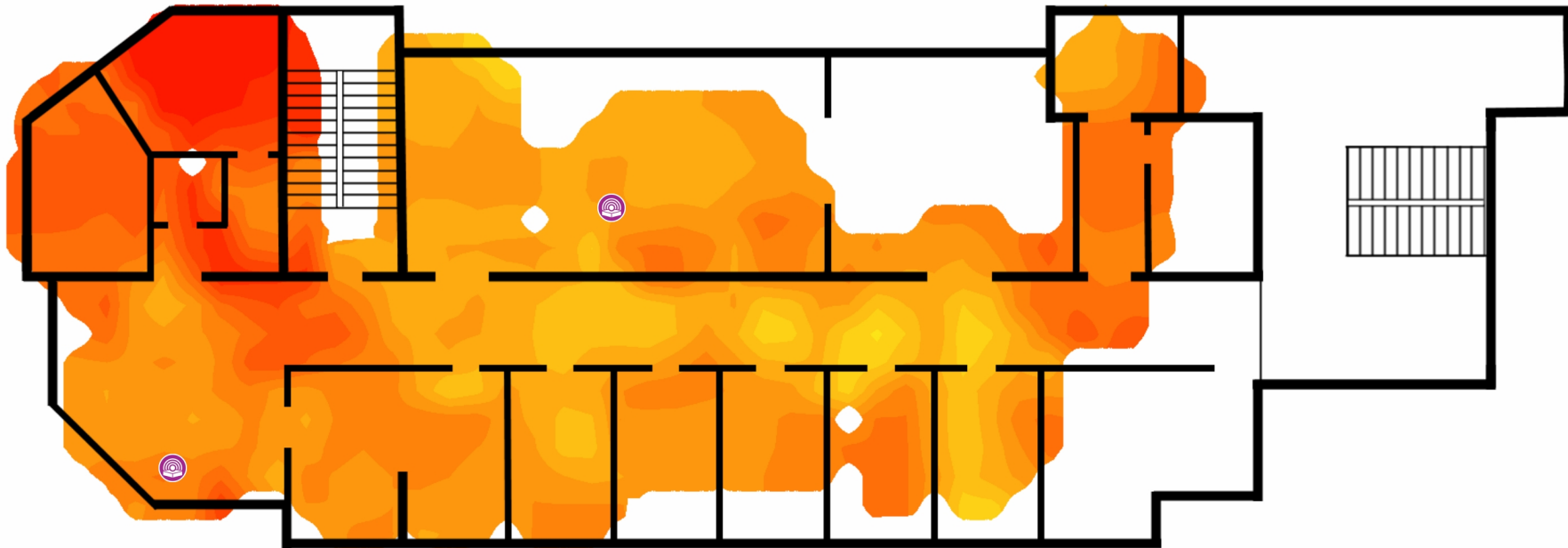| ≤1 Mbps | 17 | 25 | 32 | 40 | 48 | 56 | 64 | 72 | 79 | 87 | 95 | 103 | 111 | 119 | 126 | 134 | 142 | 150 | 158 | 166 | 173 | ≥197 Mbps |

TCP Downstream Rate

This visualization shows the TCP downstream throughput measured in Megabits per second. This is the amount of useful information that is delivered per second to the application layer protocol from the server to the client, i.e., downstream. This value does not include protocol overhead.

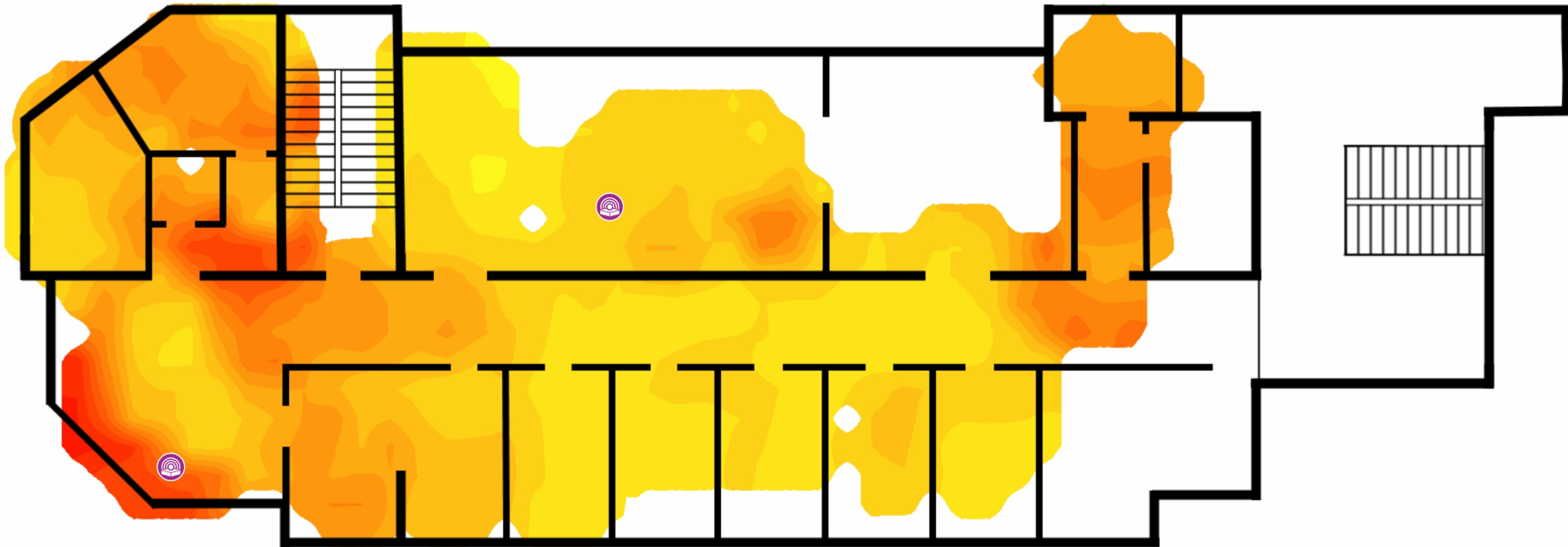| ≤1 Mbps | 17 | 25 | 32 | 40 | 48 | 56 | 64 | 72 | 79 | 87 | 95 | 103 | 111 | 119 | 126 | 134 | 142 | 150 | 158 | 166 | 173 | ≥197 Mbps |

UDP Upstream Rate

This visualization shows the UDP upstream throughput measured in Megabits per second. This is the amount of useful information that is delivered per second to the application layer protocol from the client to the server, i.e., upstream. This value does not include protocol overhead.

| ≤1 Mbps | 17 | 25 | 32 | 40 | 48 | 56 | 64 | 72 | 79 | 87 | 95 | 103 | 111 | 119 | 126 | 134 | 142 | 150 | 158 | 166 | 173 | ≥197 Mbps |

UDP Downstream Rate

This visualization shows the UDP downstream throughput measured in Megabits per second. This is the amount of useful information that is delivered per second to the application layer protocol from the server to the client, i.e., downstream. This value does not include protocol overhead.

| ≤1 Mbps | 17 | 25 | 32 | 40 | 48 | 56 | 64 | 72 | 79 | 87 | 95 | 103 | 111 | 119 | 126 | 134 | 142 | 150 | 158 | 166 | 173 | ≥197 Mbps |

UDP Upstream Loss

This visualization shows the UDP loss that is calculated as the percentage of data that was lost during transmission from the client to the server, i.e., upstream.

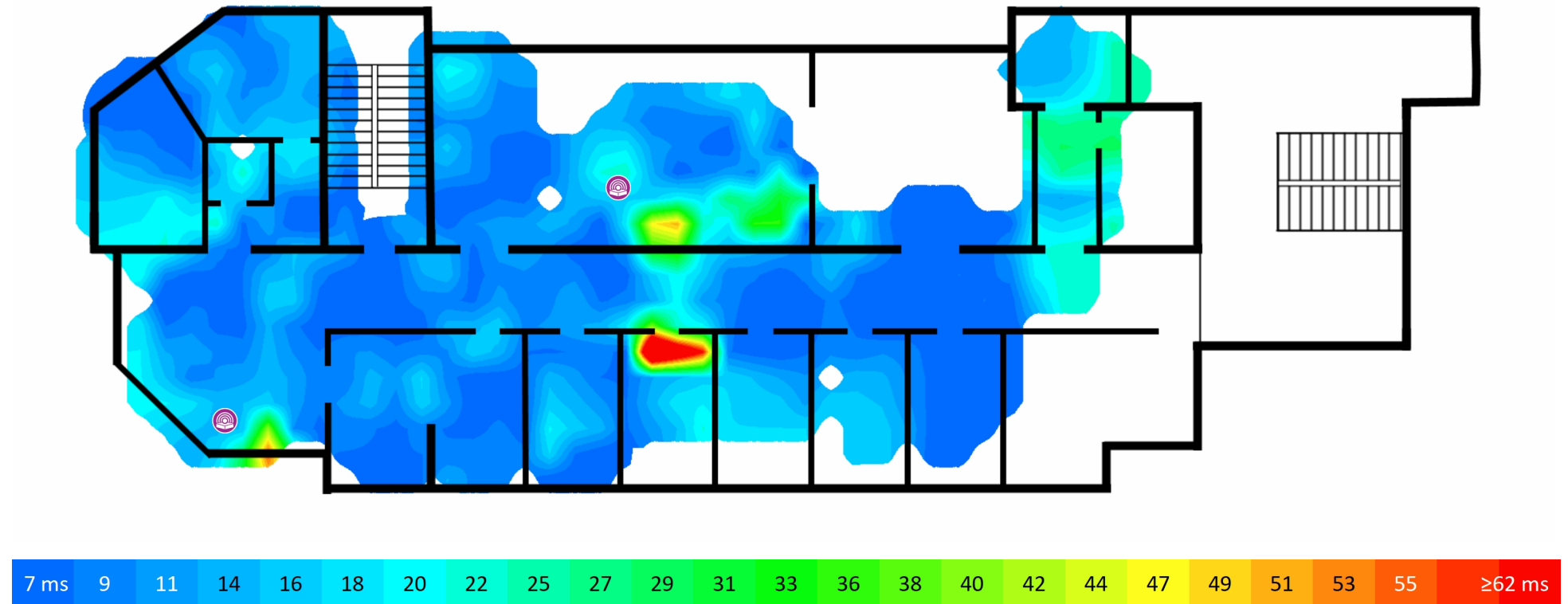| 0% | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 100% |
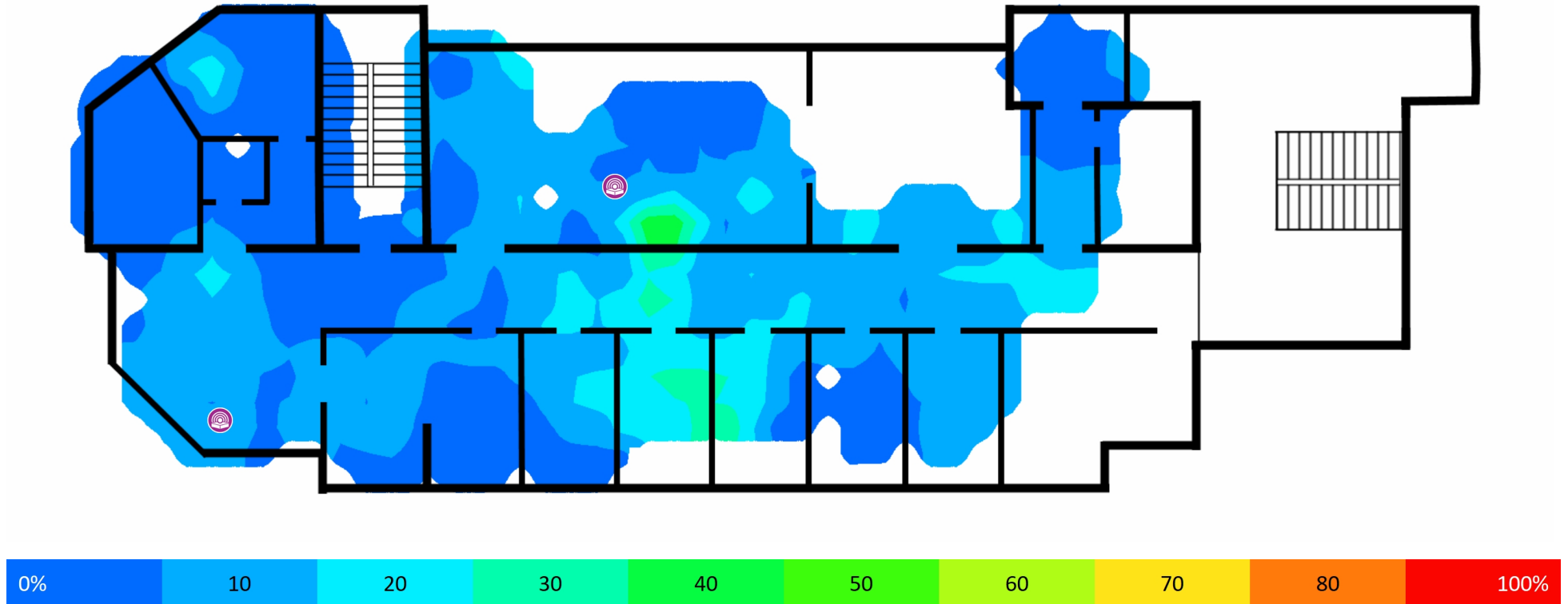
UDP Downstream Loss

This visualization shows the UDP loss that is calculated as the percentage of data that was lost during transmission from the server to the client, i.e., downstream. In a WLAN, high UDP downstream loss values are normal, because the server on the wired side can typically send far more packets per second than the AP can transmit to the client.

| 0% | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 100% |
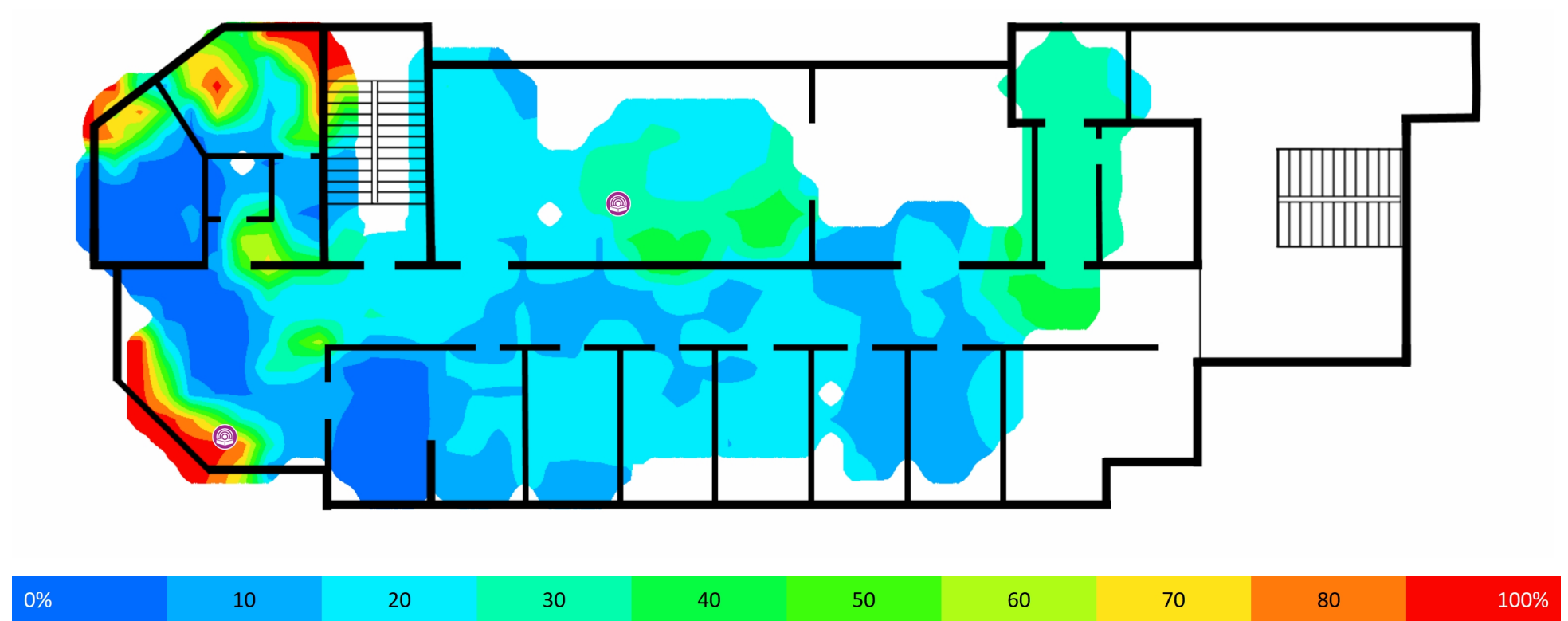
Round-trip Time

This visualization shows the round-trip time (RTT) measured in milliseconds. RTT is the length of time it takes for a data packet to be sent from the client to the server and back.

| 7 ms | 9 | 11 | 14 | 16 | 18 | 20 | 22 | 25 | 27 | 29 | 31 | 33 | 36 | 38 | 40 | 42 | 44 | 47 | 49 | 51 | 53 | 55 | ≥62 ms |

Associated AP

This visualization shows to which AP the client was associated during an active survey. This makes it possible to analyze client roaming behavior.
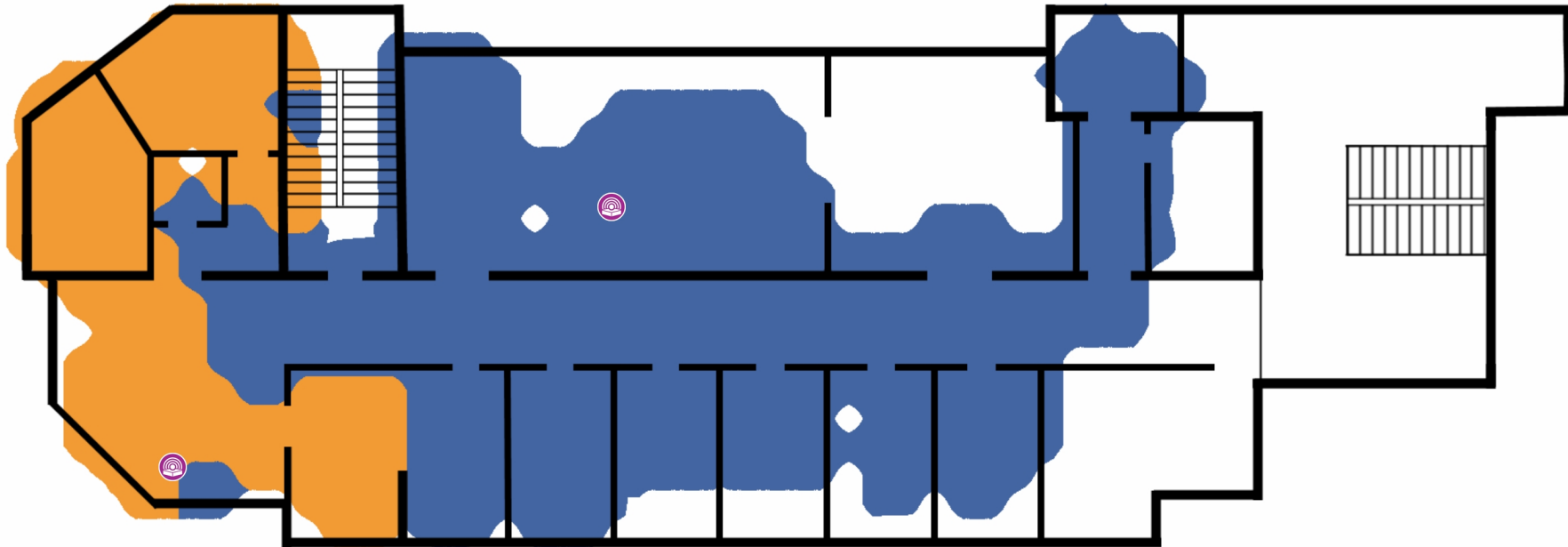
1 Keenetic 802.11ac Ultra **2** Keenetic 802.11ac Air

Requirements

This visualization shows what requirements set by the user for active surveys are met. The zones where the requirement is not met are marked with the corresponding legend color. If more than one requirement is not met, only one color will be used.   TCP - TCP Upstream Rate;   TCP - TCP Downstream Rate;   UDP - UDP Upstream Rate;   UDP - UDP Downstream Rate; APHY - Actual PHY Rate; RTT - Round-trip Time.

| ↑TCP | ↓TCP | ↑UDP | ↓UDP | APHY | RTT |