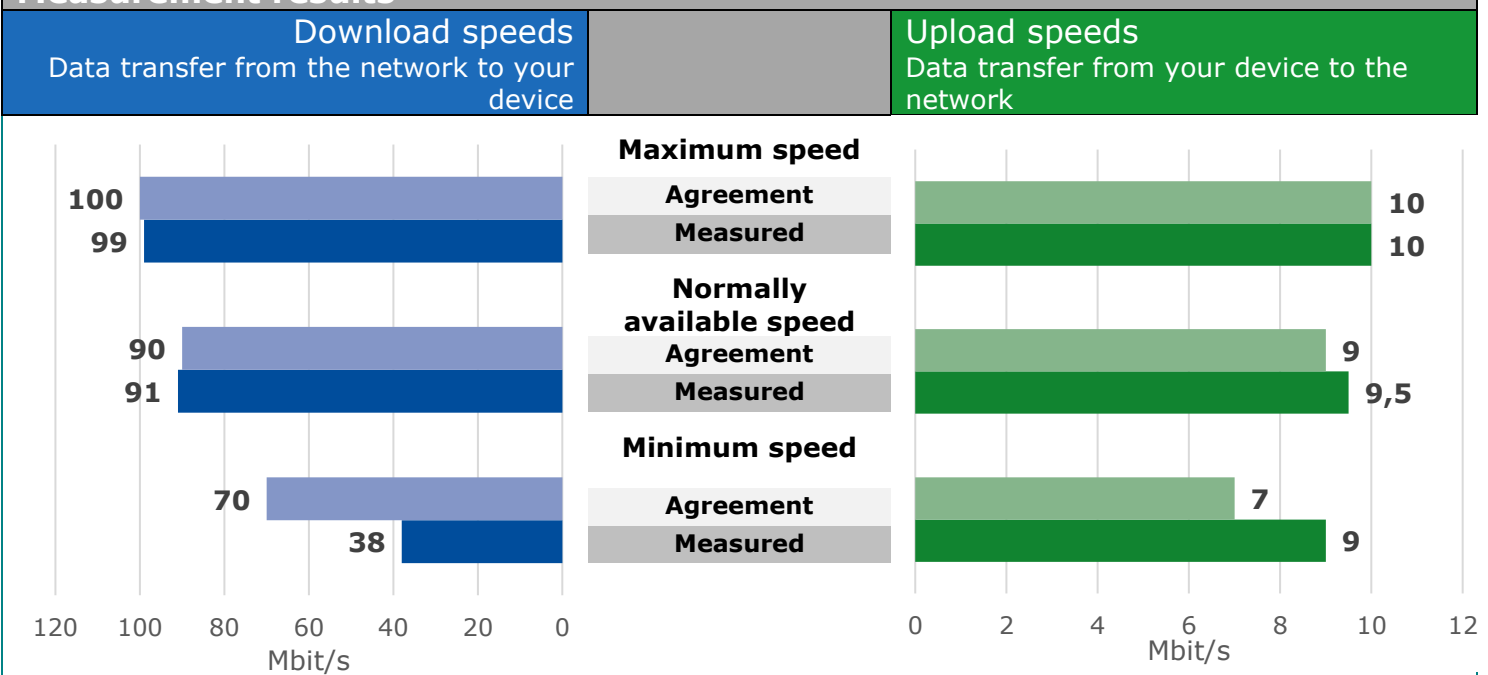


BROADBAND CONNECTION QUALITY REPORT

This is a report of the quality of your broadband connection generated by the Finnish Transport and Communications Agency Traficom's Bittimittari application for the purpose of assessing liability for defects. For the purpose of generating the report, the application has carried out a total of 48 individual measurements. The graph below provides a comparison between the measurement results and the speeds defined in your subscriber connection agreement, as reported by you.

Survey started	15.9.2022 9:19:30	Survey ended	15.9.2022 13:19:30
IP address	86.115.218.254	ISP	Company
Browser and browser version	Chrome 104.0.0.0		
Location of the connection used	Testi, 00100 Helsinki		
Make and model of the modem	Modell		

Measurement results



The **maximum speed** is defined in the subscriber connection agreement. The end user can expect to achieve this speed at least part of the time, such as once a day. Even if the maximum speed was not achieved during a single four-hour measurement period, this does not mean that the connection is defective.

The **normally available speed** is defined in the subscriber connection agreement. The end user can expect to achieve this speed most of the time when using the service. In practice, operators have defined the normally available speed in line with Traficom's opinion regarding the speed of internet access services, according to which it should be achieved 90% of the time during each four-hour period. The normally available speed is defined as 90% of the maximum speed of the connection for connections with a maximum speed of up to 100 Mbit/s.

For example, using a connection with a maximum speed of 100 Mbit/s and thus a normally available speed of 90 Mbit/s, no more than four measurements in a series of 48 measurements should fail to reach a speed of 90 Mbit/s.

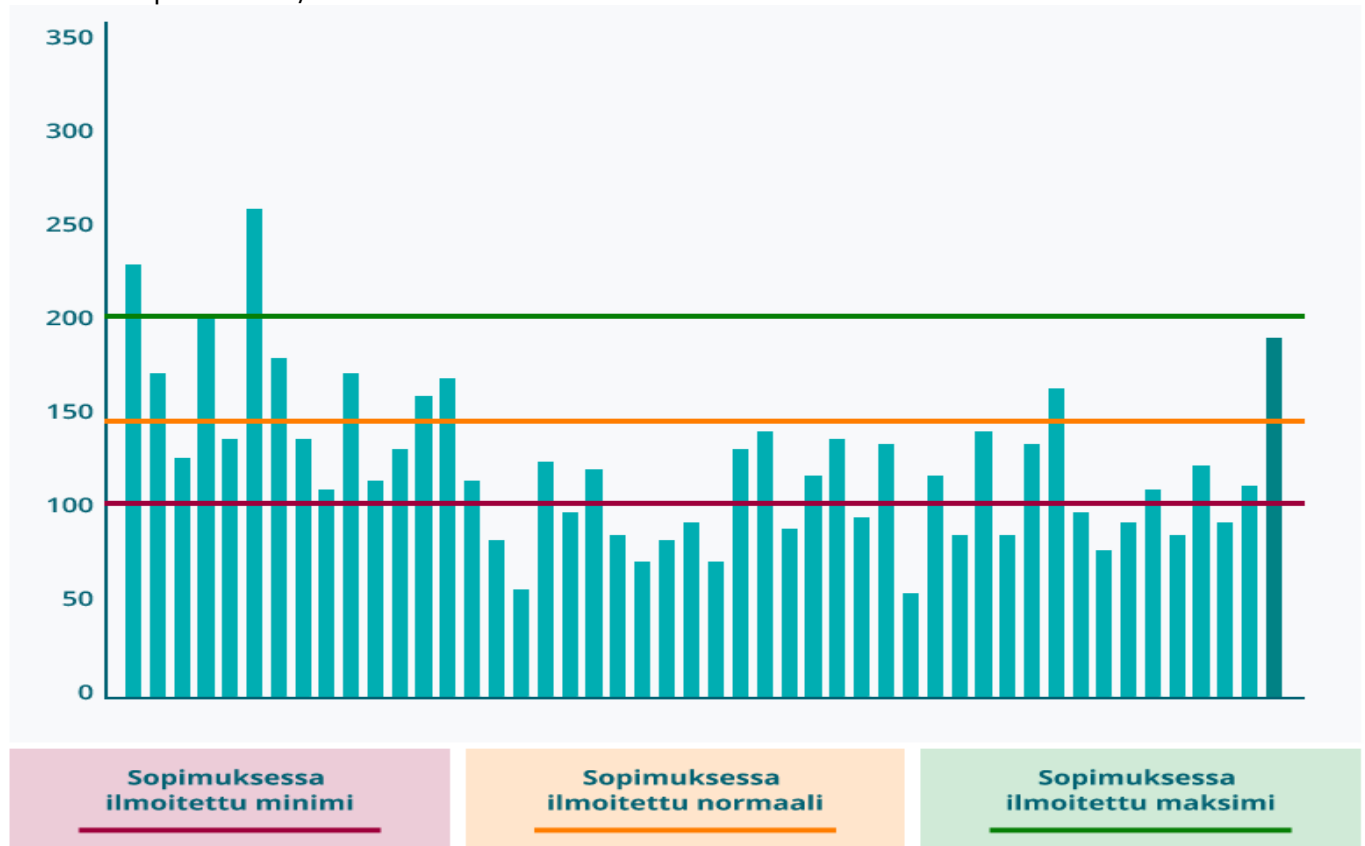
The **minimum speed** is defined in the subscriber connection agreement. As a rule, it should be achieved at all times.

Latency and latency variation

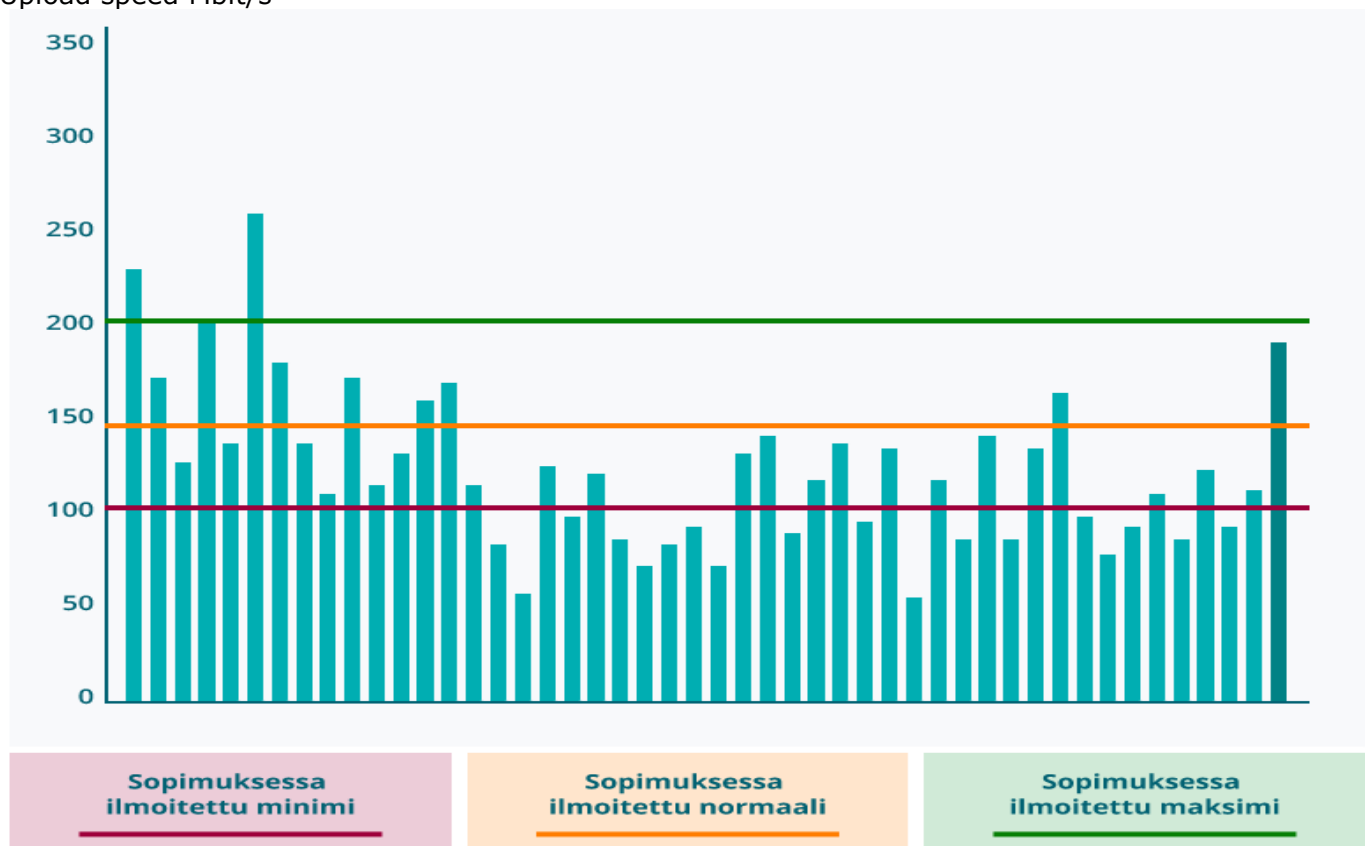
Average latency	10 ms	Average latency variation	3 ms
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In addition to speed, the use of online services, such as online gaming and internet calls, is affected especially by latency and the variation thereof. Latency and the variation thereof are included in this report, even though they are not usually defined in subscriber connection agreements and thus do not play a clear role in the assessment of liability for defects. Latency is the time in milliseconds that it takes for data to be transferred from the user's device to the network and back. Latency variation is the variation of latency during a single measurement.

Download speeds Mbit/s



Upload speed Mbit/s



Completed measurements

#	Aika (UTC+2)	Nopeus DL	Nopeus UL	Viive
1	2020-10-26 10:42:53	90,1	12,0	10
2	2020-10-26 10:47:53	89,4	11,9	11
3	2020-10-26 10:52:53	92,3	11,6	7
4	2020-10-26 10:57:53	85,6	11,3	8
5	2020-10-26 11:02:53	87,1	11,1	9
6	2020-10-26 11:07:53	95,1	11,9	12
7	2020-10-26 10:42:53	95,3	11,8	13
8	2020-10-26 10:42:53	86,4	12,0	11
9	2020-10-26 10:42:53	88,6	12,1	10
10	2020-10-26 10:42:53	89,1	11,3	12
11	2020-10-26 10:42:53	87,4	11,5	9
12	2020-10-26 10:42:53	88,9	11,7	10
13	2020-10-26 10:42:53	90,1	12,0	11
14	2020-10-26 10:42:53	89,4	11,9	7
15	2020-10-26 10:42:53	92,3	11,6	8
16	2020-10-26 10:42:53	85,6	11,3	9
17	2020-10-26 10:42:53	87,1	11,1	12
18	2020-10-26 10:42:53	95,1	11,9	13
19	2020-10-26 10:42:53	95,3	11,8	11
20	2020-10-26 10:42:53	86,4	12,0	10
21	2020-10-26 10:42:53	88,6	12,1	12
22	2020-10-26 10:42:53	89,1	11,3	9
23	2020-10-26 10:42:53	87,4	11,5	10
24	2020-10-26 10:42:53	88,9	11,7	11
25	2020-10-26 10:42:53	90,1	12,0	7
26	2020-10-26 10:42:53	89,4	11,9	8
27	2020-10-26 10:42:53	92,3	11,6	9
28	2020-10-26 10:42:53	85,6	11,3	12
29	2020-10-26 10:42:53	87,1	11,1	13
30	2020-10-26 10:42:53	95,1	11,9	11
31	2020-10-26 10:42:53	95,3	11,8	10
32	2020-10-26 10:42:53	86,4	12,0	12
33	2020-10-26 10:42:53	88,6	12,1	9
34	2020-10-26 10:42:53	89,1	11,3	10
35	2020-10-26 10:42:53	87,4	11,5	11
36	2020-10-26 10:42:53	88,9	11,7	7
37	2020-10-26 10:42:53	90,1	12,0	8
38	2020-10-26 10:42:53	89,4	11,9	9
39	2020-10-26 10:42:53	92,3	11,6	12
40	2020-10-26 10:42:53	85,6	11,3	13
41	2020-10-26 10:42:53	87,1	11,1	11
42	2020-10-26 10:42:53	95,1	11,9	10
43	2020-10-26 10:42:53	95,3	11,8	12
44	2020-10-26 10:42:53	86,4	12,0	9
45	2020-10-26 10:42:53	88,6	12,1	11
46	2020-10-26 10:42:53	89,1	11,3	12
47	2020-10-26 10:42:53	87,4	11,5	13
48	2020-10-26 10:42:53	88,9	11,7	9

Technical details of the measurements

#	Data DL	Kesto DL	Data UL	Kesto UL	Yhteydet DL	Yhteydet UL	Requested
1	78 MB	7302 ms	8 MB	7123 ms	3	1	3
2	79 MB	7205 ms	9 MB	7205 ms	3	1	3
3	80 MB	7145 ms	8 MB	7145 ms	3	1	3
4	81 MB	7312 ms	9 MB	7312 ms	3	1	3
5	77 MB	7215 ms	8 MB	7215 ms	3	1	3
6	75 MB	7154 ms	8 MB	7154 ms	3	1	3
7	80 MB	7078 ms	9 MB	7078 ms	3	1	3
8	74 MB	7154 ms	9 MB	7154 ms	3	1	3
9	82 MB	7245 ms	9 MB	7245 ms	3	1	3
10	81 MB	7678 ms	8 MB	7678 ms	3	1	3
11	79 MB	7545 ms	9 MB	7545 ms	3	1	3
12	81 MB	7132 ms	8 MB	7132 ms	3	1	3
13	78 MB	7302 ms	8 MB	7123 ms	3	1	3
14	79 MB	7205 ms	9 MB	7205 ms	3	1	3
15	80 MB	7145 ms	8 MB	7145 ms	3	1	3
16	81 MB	7312 ms	9 MB	7312 ms	3	1	3
17	77 MB	7215 ms	8 MB	7215 ms	3	1	3
18	75 MB	7154 ms	8 MB	7154 ms	3	1	3
19	80 MB	7078 ms	9 MB	7078 ms	3	1	3
20	74 MB	7154 ms	9 MB	7154 ms	3	1	3
21	82 MB	7245 ms	9 MB	7245 ms	3	1	3
22	81 MB	7678 ms	8 MB	7678 ms	3	1	3
23	79 MB	7545 ms	9 MB	7545 ms	3	1	3
24	81 MB	7132 ms	8 MB	7132 ms	3	1	3
25	78 MB	7302 ms	8 MB	7123 ms	3	1	3
26	79 MB	7205 ms	9 MB	7205 ms	3	1	3
27	80 MB	7145 ms	8 MB	7145 ms	3	1	3
28	81 MB	7312 ms	9 MB	7312 ms	3	1	3
29	77 MB	7215 ms	8 MB	7215 ms	3	1	3
30	75 MB	7154 ms	8 MB	7154 ms	3	1	3
31	80 MB	7078 ms	9 MB	7078 ms	3	1	3
32	74 MB	7154 ms	9 MB	7154 ms	3	1	3
33	82 MB	7245 ms	9 MB	7245 ms	3	1	3
34	81 MB	7678 ms	8 MB	7678 ms	3	1	3
35	79 MB	7545 ms	9 MB	7545 ms	3	1	3
36	81 MB	7132 ms	8 MB	7132 ms	3	1	3
37	78 MB	7302 ms	8 MB	7123 ms	3	1	3
38	79 MB	7205 ms	9 MB	7205 ms	3	1	3
39	80 MB	7145 ms	8 MB	7145 ms	3	1	3
40	81 MB	7312 ms	9 MB	7312 ms	3	1	3
41	77 MB	7215 ms	8 MB	7215 ms	3	1	3
42	75 MB	7154 ms	8 MB	7154 ms	3	1	3
43	80 MB	7078 ms	9 MB	7078 ms	3	1	3
44	74 MB	7154 ms	9 MB	7154 ms	3	1	3
45	82 MB	7245 ms	9 MB	7245 ms	3	1	3
46	81 MB	7678 ms	8 MB	7678 ms	3	1	3
47	79 MB	7545 ms	9 MB	7545 ms	3	1	3
48	81 MB	7132 ms	8 MB	7132 ms	3	1	3

Additional information provided by the user for the survey

