

Barometer of fixed Internet connections in Norway



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1 Summary of results

1.1 Summary table and nPerf score, all technologies combined



***** Eninvest, the best fixed Internet performance during the last 2 semesters *****

1.2 Our analysis

From July the 1st 2019 to June the 30th 2020, nPerf users conducted 50.666 connection tests on Norway's five largest Internet Service Providers. Eninvest dominates the market in terms of performance of fixed Internet connections by providing good download and upload throughputs and the best latency in the country.

106 Mb/s is the average download speed of Norwegian people which is a very good performance.

Altibox is the fastest Internet Provider of the last 12 months.

During the last 12 months, Altibox has provided the fastest Internet connections on fixed networks in Norway with an average download speed of 126 Mb/s and an upload speed of 115 Mb/s.

Enivest, first on latency, good news for gamers

Enivest is the king of latency (12 ms!) but also provide very good download and upload speeds (around 98 Mb/s in both ways). If you are a gamer, choose Enivest.

Conclusion

On fixed networks, over the last two semesters, one provider has made the difference, Enivest, with an exceptional latency of 12 ms and significant improvements on its download and upload speeds. However, Enivest will have to keep a close watch on its rival Altibox, not far behind.

A beautiful battle in perspective for the next semesters!

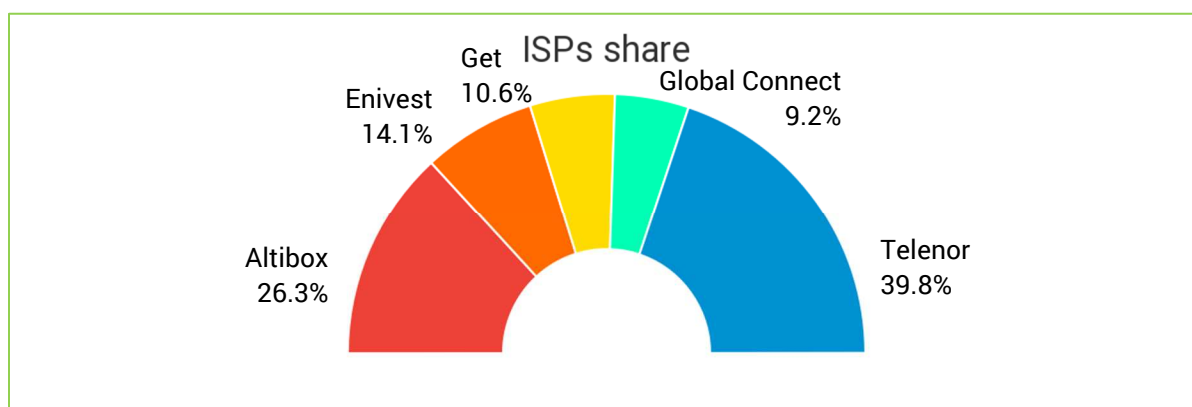
2 Overall results, all technologies combined

2.1 Data amount and distribution

From **July 1, 2019** to **June 30, 2020** we counted **50.666 tests**, distributed after filtering as follows:

Country	Tests
Norway	39.923

Breakdown of tests by provider

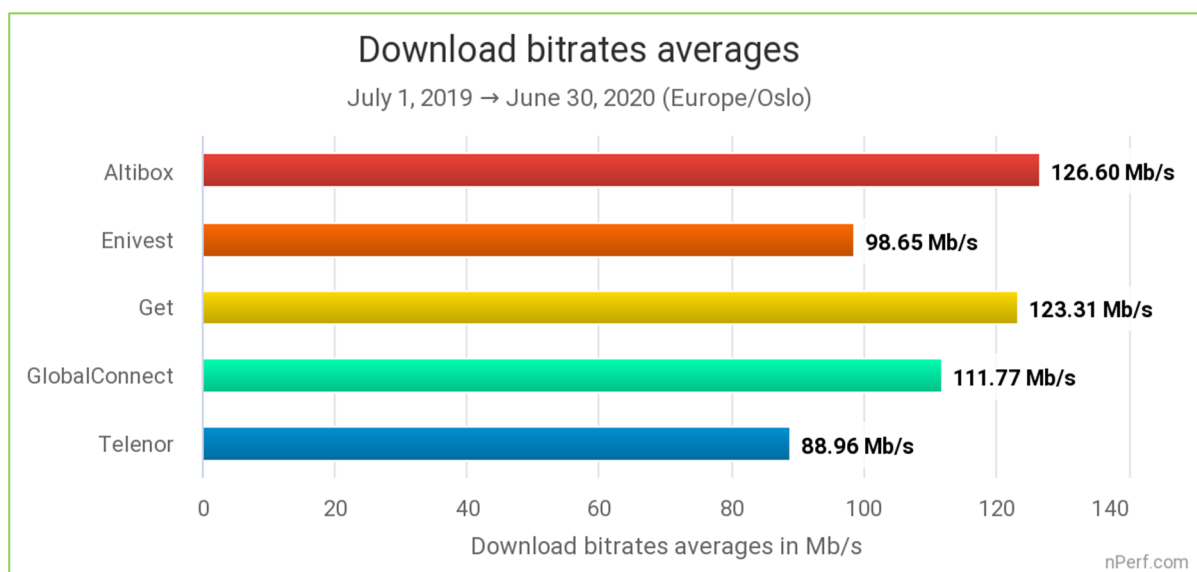


The largest number of speed tests have been carried out on the website of our partner in Norway:

<https://itavisen.no/speedometer/>

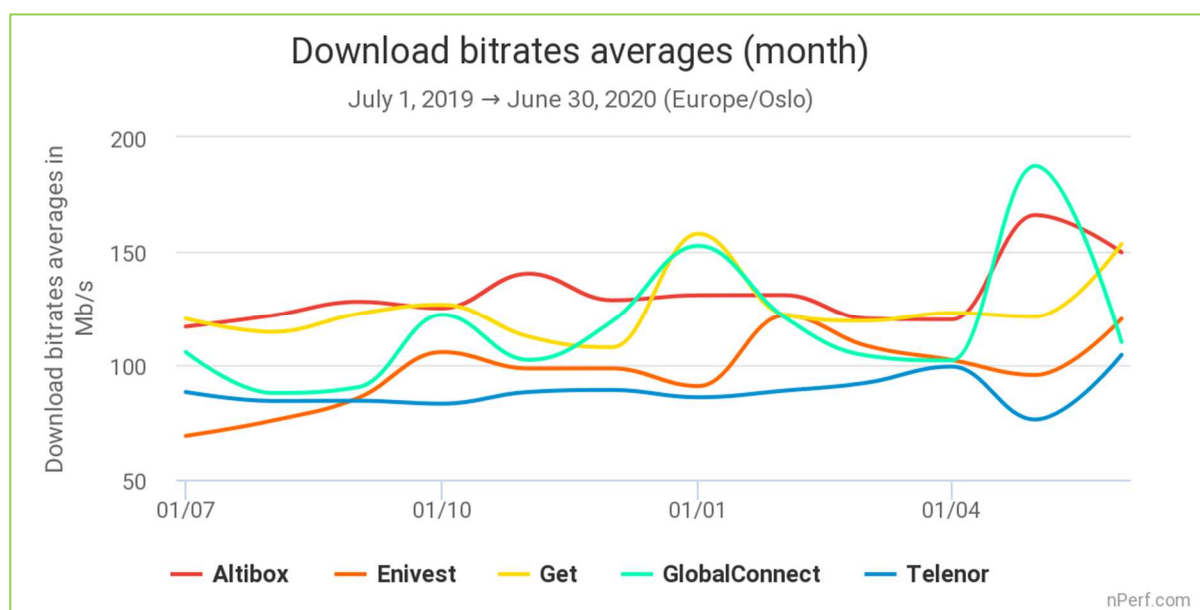
2.2 Download speed

The average download speed in Norway was 106 Mb/s during the last 2 semesters.



The highest value is the best.

Altibox and Get have provided the best fixed download speeds during the last 2 semesters.

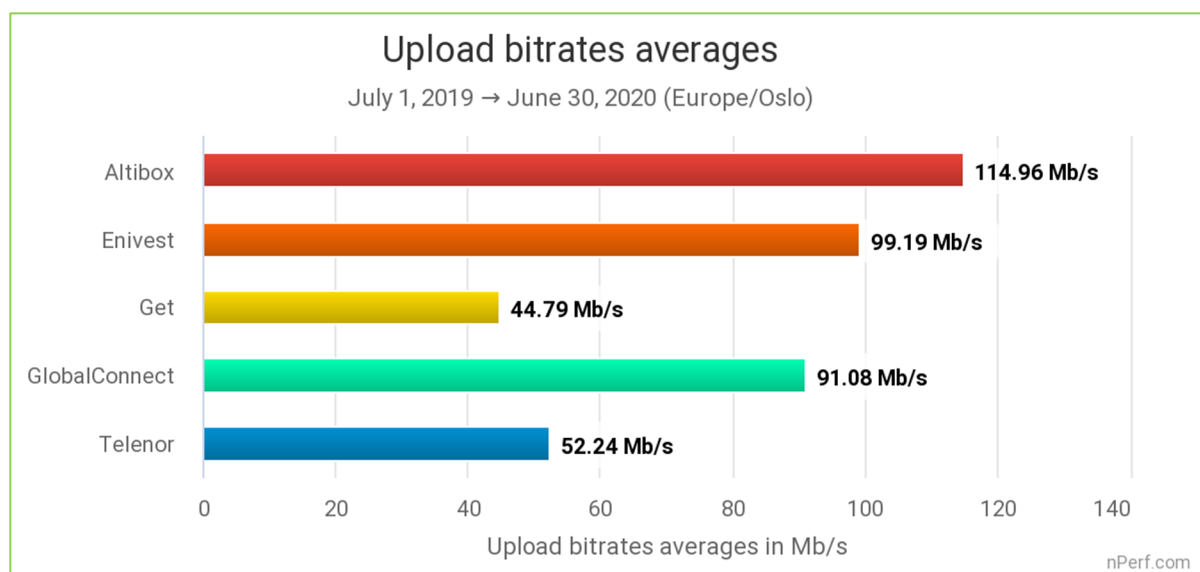


Above graph illustrates the ability of providers to maintain a constant download speed over the period regardless of network load (number of connected end-users).

Globally, all ISPs have slightly improved their performance over the past 12 months, but **Global Connect** and **Eninvest** have stood out the most.

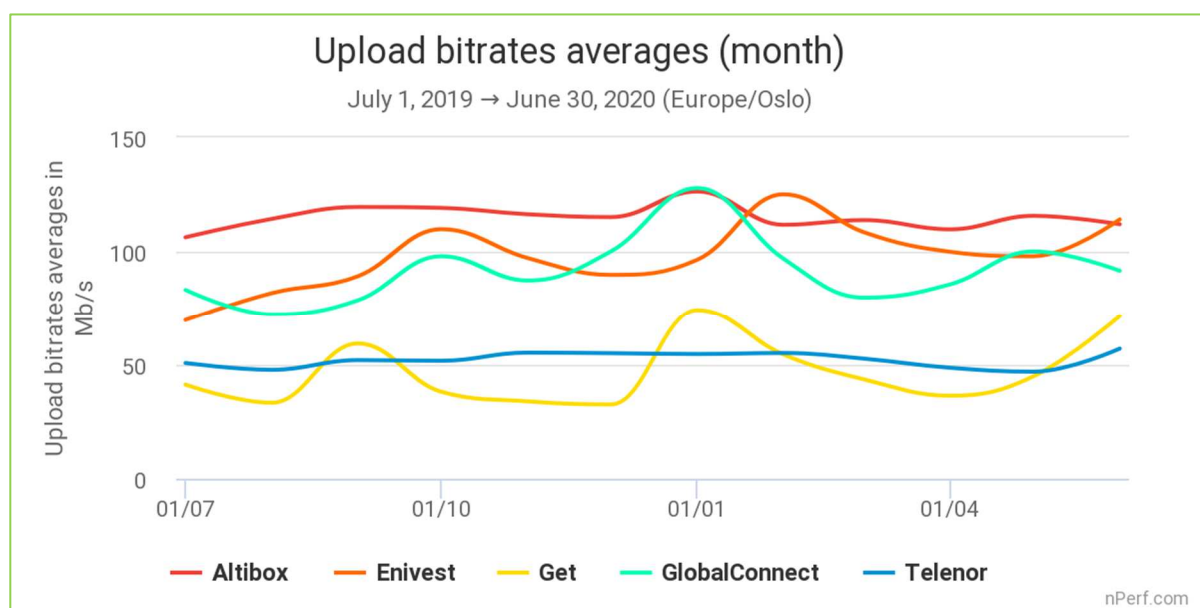
2.3 Upload speed

The average upload speed in Norway was 78 Mb/s during the last 2 semesters.



The highest value is the best.

Altibox has provided the best fixed upload speed during the last 2 semesters.



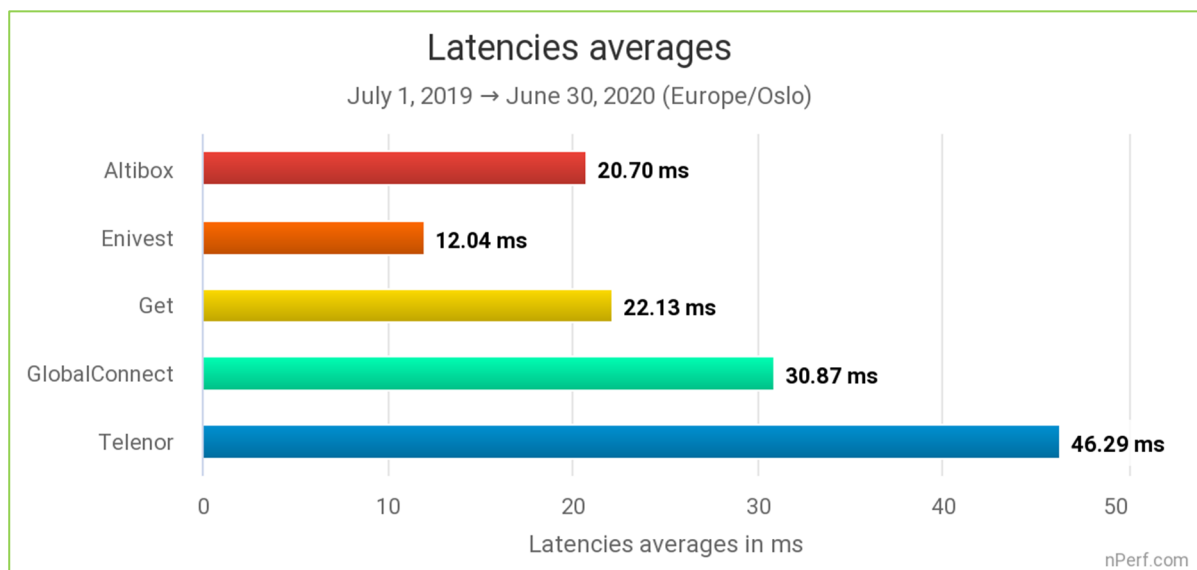
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Above graph illustrates the ability of providers to maintain a constant upload speed over the period regardless of network load (number of connected end-users).

Globally, all ISPs have been relatively stable over the last two semesters, except for **Global Connect** and **Eninvest** that have improved significantly.

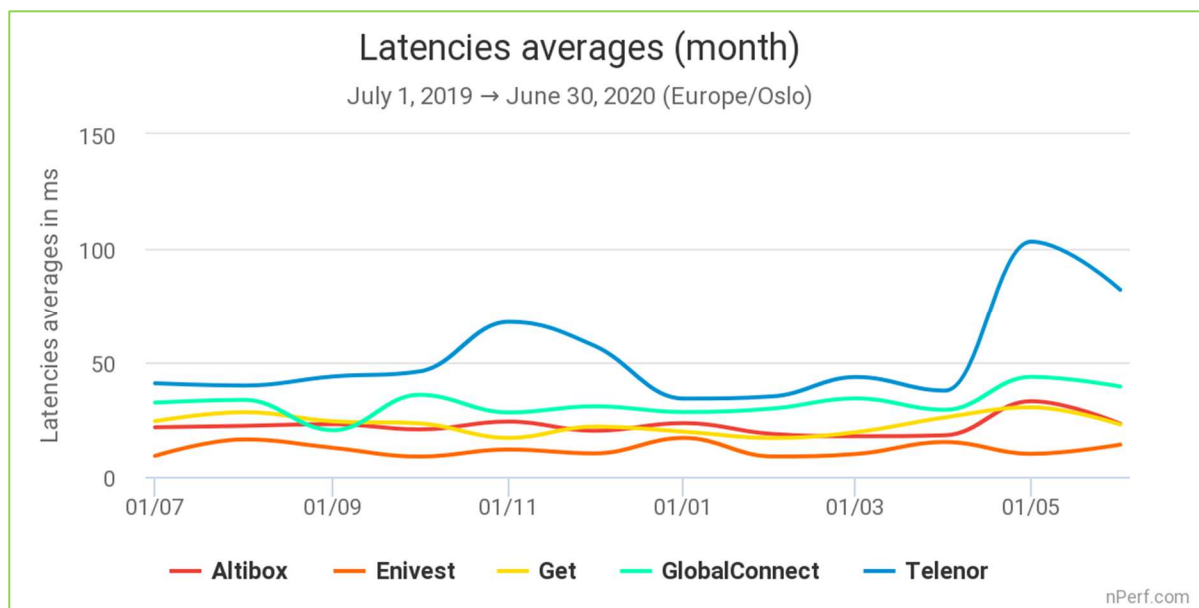
2.4 Latency

The average latency in Norway was 31 ms during the last 2 semesters.



The lowest value is the best.

Eninvest has provided the best fixed latency during the last 2 semesters.



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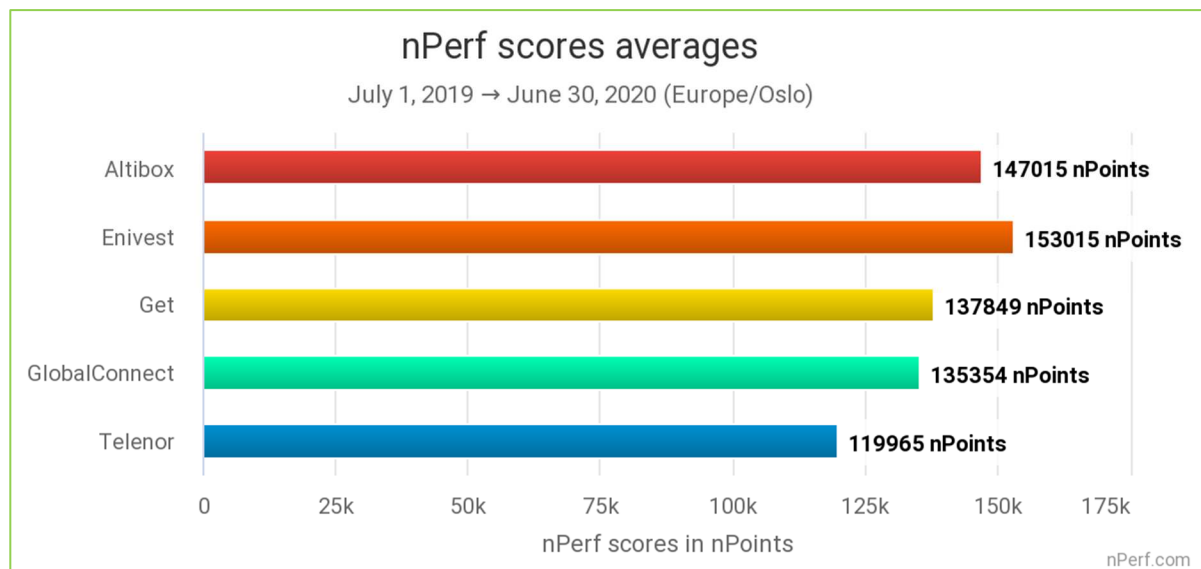
This graph illustrates the ability of providers to maintain a constant latency during the period, regardless of network load (number of connected end-users).

Globally, all ISPs were relatively stable in their latency over the last two semesters except for Telenor.

2.5 nPerf score, all technologies combined

The nPerf score, expressed in nPoints, gives an overall picture of the quality of a connection. It takes into account measured bitrates (2/3 Download + 1/3 Upload) and latency. These values are calculated on a logarithmic scale to better represent the perception of the user.

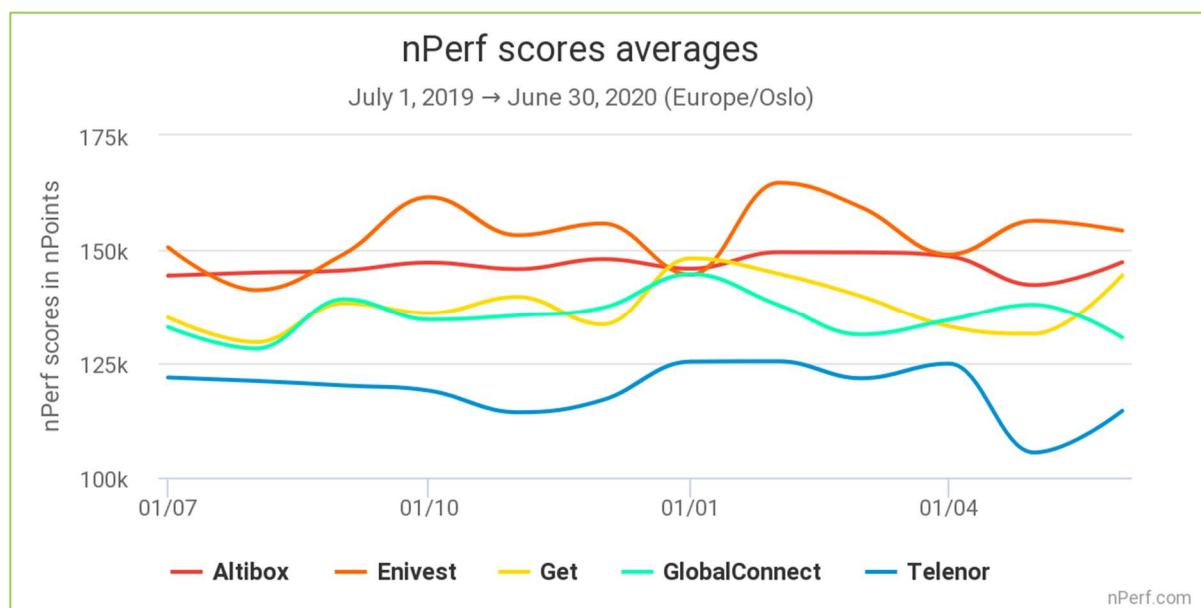
Thus, this score reflects the overall quality of the connection for mainstream consumer use.



The highest value is the best.

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Eninvest, the best fixed Internet performance during the last 2 semesters.



Overall, all ISPs have been relatively stable over the last two semesters, with the exception of one company, Eninvest, that has significantly improved its score by improving continuously its download and upload speeds. However, Altibox is not far behind so a great battle is in perspective for the coming months.

3 Methodology

3.1 The panel

nPerf offers an Internet speed test application, which can be used for free at www.nPerf.com.

Everyone is free to use nPerf to measure the speed of their Internet connection. All users of the nPerf application form the panel of this study.

In addition, the results from the nPerf speed tests integrated on our partner websites are also included in the panel.

Thus, the nPerf study is based on thousands of tests, making it the study with the largest panel in Norway.

3.2 Speed and latency tests

3.2.1 Objectives and operation of the speed and latency test

The purpose of the nPerf Speed Test is to measure the maximum capacity of the data connection in terms of data rates and latency.

To achieve this, nPerf establishes multiple connections simultaneously to saturate the bandwidth to accurately measure it. The speed used for the barometer is the average speed measured by the application.

Speed measurements thus reflect the maximum capacity of the data connection. This rate may not be representative of the user experience experienced during normal use of the Internet, as it is measured only on nPerf servers.

The measured bit rate can be impacted by the quality of the user's local network, especially since the expected flow is high. Thus, for an optical fiber internet connection, a local WiFi or Power-Line connection can greatly reduce performance. However, since these constraints are identical to all market operators, they do not bias the comparison. In addition, the user is made aware of these constraints and invited to use a wired local connection for testing very high speed.

3.2.2 nPerf servers

To ensure maximum user bandwidth at all times, nPerf relies on a network of servers dedicated to this task.

These servers are located with hosts in Norway and abroad.

Local providers are welcome to install nPerf servers, that's free!

The total bandwidth available for Norway is greater than **17 Gb/s**, and that for the world is greater than **6 Tb/s** with more than **1100** active nPerf servers!

3.3 Statistical accuracy

With regard to the total volume of unit tests, the statistical precision used in this publication is:

- ✓ 3% for absolute values

If, for a given indicator, one or more operators have results very close to the best, in the confidence interval defined above, these will be share first place.

3.4 Filtering of test results

The results obtained are subject to automatic and manual checks to avoid duplication and to rule out possible abusive or fraudulent use (massive tests, robots ...).

Tests performed on cellular connections (2G, 3G, 4G) are also excluded from this barometer.

4 You too, participate in the nPerf panel!

To participate in the panel, simply test your connection on the website www.nperf.com. For mobile Internet, you can also use the nPerf app, available for free on the Apple AppStore for iPhone and iPad, on Google Play for Android devices and on the Windows Store for Windows Phone and Windows Mobile devices.

5 Custom analysis & contact

Do you need further study or want to get the raw data, punctually or automatically, to compile it yourself?

You can contact nPerf via www.nPerf.com "Contact Us" section or directly from the mobile app.

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Stay in touch with us, follow us!

