

March 20, 2024



# Barometer of mobile Internet connections in Guinea-Bissau.

01/01/2023 - 31/12/2023



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## Expert in the telecom network optimization

nPerf is an independent French company based in Lyon (France). For over a decade, nPerf has been a trusted partner for both fixed and mobile operators, providing comprehensive network testing solutions and analysis. Our mission is to accurately measure, evaluate, and enhance the understanding of Internet connectivity around the world.

 **300k+** tests daily worldwide.

 **26Md+** coverage scans in total.

 **3k+** servers all around the world.

## Test your Internet connection with nPerf!

nPerf allows you to test the quality of your fixed, mobile, or Wi-Fi Internet connections up to 10 Gb/s!  
Download our app or visit our website!



## 2. Executive Summary



The subscribers of Orange enjoyed the best mobile Internet performances in Guinea-Bissau during 2023.

### Cellular Internet connections in Guinea-Bissau

	MTN	Orange
Download bitrates (Mb/s)	9.43	10.82
Upload bitrates (Mb/s)	3.29	9.20
Latency (ms)	242.31	51.01
Web browsing (%)	35.55	46.52
Youtube streaming (%)	68.54	70.18
nPerf Score (nPoints)	25 296	41 942

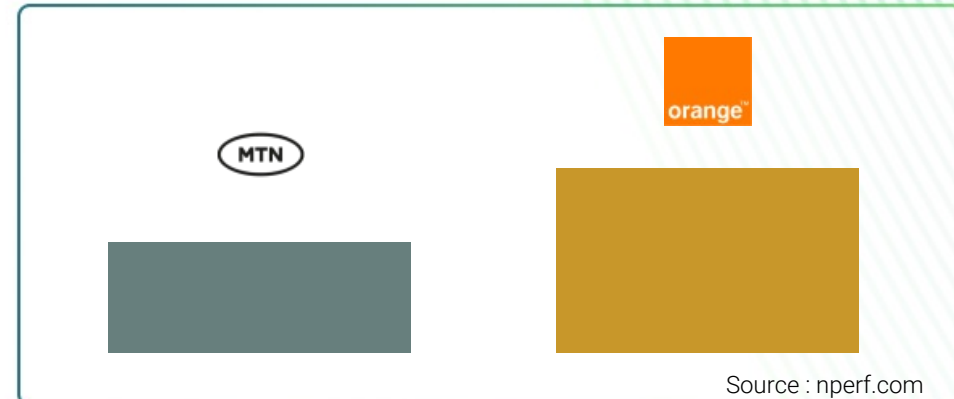
Source : nperf.com



**Best mobile Internet performance in 2023**



Source : nperf.com



Source : nperf.com

In Guinea-Bissau, the mobile telecommunications sector is dominated by key players like MTN and Orange. These operators play a central role in defining the telecommunications experience in the region.

### **Orange : The leader**

Orange stands out as the leader in the telecommunications sector in Guinea-Bissau with an impressive nPerf score of 41,942 points. This leading position is supported by the highest download speed of 10.82 Mb/s and a remarkable upload speed of 9.2 Mb/s, ensuring efficient and fast Internet access. The carrier also boasts the lowest latency at 51.01ms, contributing to smoother and more responsive online experiences. With respective web browsing and YouTube streaming success rates of 46.52% and 70.18%, Orange Mobile demonstrates its strong network capacity and quality of service, making it a preferred choice for many users. in Guinea-Bissau.

### **MTN : The competitor**

MTN, with an nPerf score of 25,296 points, positions itself as a strong competitor in the market. The operator offers a download speed of 9.43 Mb/s and an upload speed of 3.29 Mb/s. While these speeds are competitive, they are overshadowed by Orange's superior performance. MTN is facing challenges with high latency of 242.31ms, which could affect real-time online activities. However, the service still maintains a reasonable web browsing success rate of 35.55% and a YouTube streaming rate of 68.54%, indicating a reliable service that meets the needs of its customer base well.

### **Conclusion**

The telecom landscape in Guinea-Bissau illustrates a clear performance lead by Orange, showcasing its robust infrastructure and customer-centric services. MTN Mobile, while trailing in terms of overall performance metrics, plays a crucial role in the market, providing valuable services to its users.

For future strategic development, focusing on enhancing network infrastructure, reducing latency, and improving internet speeds will be key for both operators to enrich their service offerings. The competition between Orange and MTN drives the telecom sector forward in Guinea-Bissau, promising better connectivity and more advanced digital services for the country's population.

## 4. Methodology



nPerf provides a **free tool to assess Internet connection quality** via its website and mobile apps (Android, iOS). Daily, thousands of people rely on nPerf for speed tests in their country, contributing to a comprehensive crowdsourced database covering all operators.

The study employs a strong filtering method to reflect real customer experiences on a specific network (mobile or fixed line). Measures are taken to prevent probes and measurement robots from affecting the results.

For mobile connections, we assess:

### ▼ Download bitrate :

Indicates the amount of data your connection can receive in one second from the nPerf server. The highest the measured value, the best is the bitrate of your connection.

### ▲ Upload bitrate :

Indicates the amount of data your connection can send in one second from the nPerf server. The highest the measured value, the best is the bitrate of your connection.

### ◀▶ Latency (ping) :

It indicated the delay a small packet of data requires to make a round-trip from your computer to the nPerf server. The shorter the delay, the most reactive your connection is. The main is the minimum value.

### 🌐 Browsing performance :

The browsing test assesses the load time of the fully loaded pages, including images, JavaScript, CSS, and fonts, for the five most popular sites. This indicator reflects the user's perceived quality of the Internet network.

### 📺 Streaming performance :

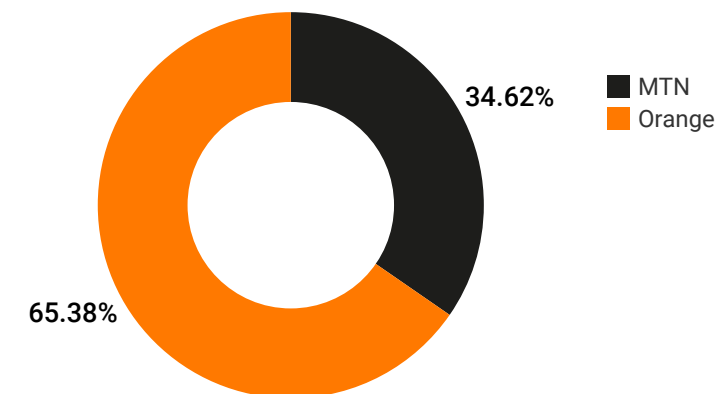
The video streaming test gauges the load time of a fully loaded video in three resolutions on YouTube, considering stalls during playback. This indicator reflects the user's perceived quality of the Internet network.

Statistical precision is crucial in accurately determining winners. At nPerf, we prioritize test quality, precise reporting, and transparency. Analyzing a large volume of tests in this study, we've achieved 3 % precision for absolute values and 1 point for percentage-based results, highlighting the reliability and accuracy of our data.

For a more comprehensive understanding of the user experience, our report features test results during both Busy hours (6 PM to 11 PM) and Idle hours (the rest of the day). Busy hours, marked by network strain, can impact user experience through congestion. This approach helps in understanding how network performance fluctuates throughout the day.

We only include national Internet service providers with test share above 5% share. The chart below shows the overall test distribution for each service provider.

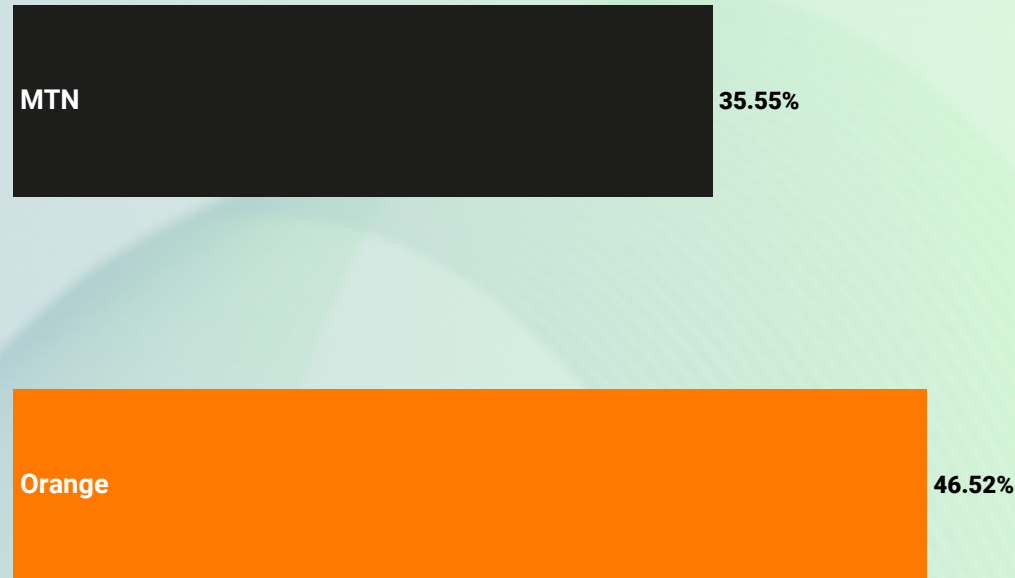
Overall distribution of the tests per provider (ISPs Share)



Source : nperf.com



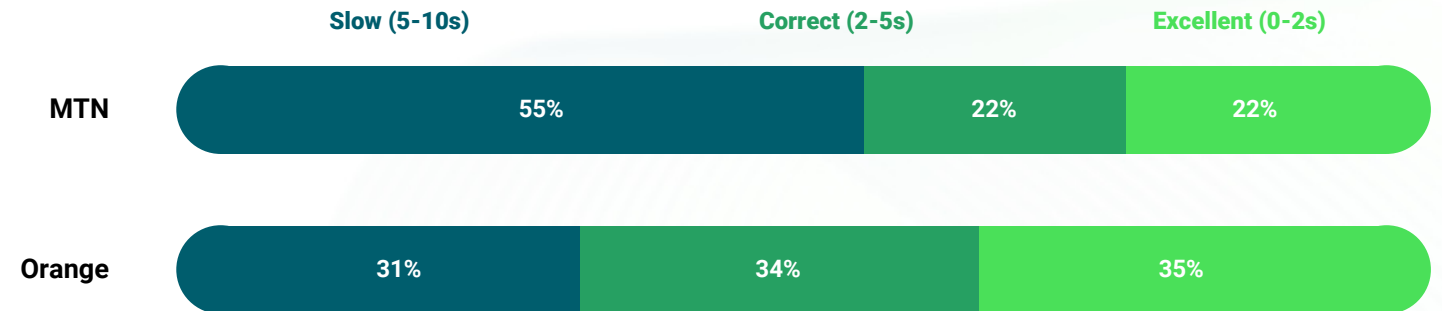
## Browsing Performance rate (average)



Source : nperf.com

The subscribers of Orange enjoyed the best mobile Internet browsing performance in 2023.

## Browsing Performance results ventilation (average)



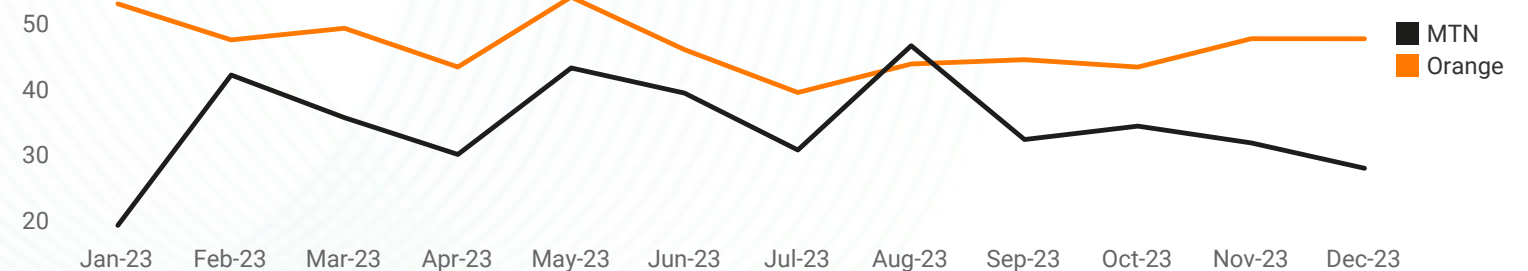
Source : nperf.com

## Browsing Performance rate (average)



Source : nperf.com

## Browsing performance rate (average) evolution over the year



Source : nperf.com



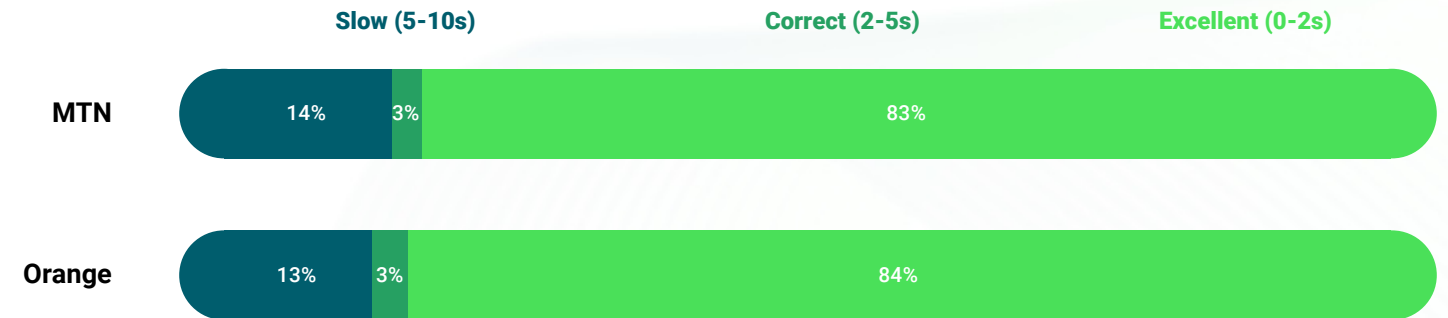
## Streaming Performance rate (average)



Source : nperf.com

The subscribers of Orange enjoyed the best mobile Internet streaming performance in 2023.

## Streaming Performance results ventilation (average)



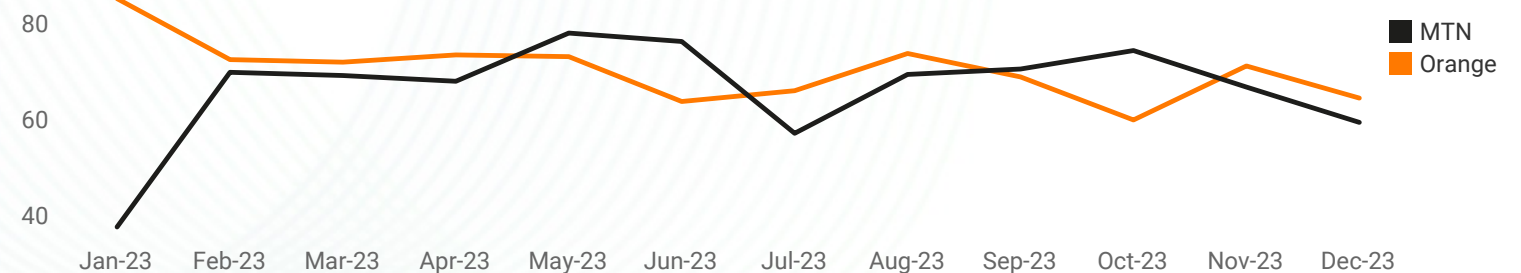
Source : nperf.com

## Streaming Performance rate (average)



Source : nperf.com

## Streaming performance rate (average) evolution over the year

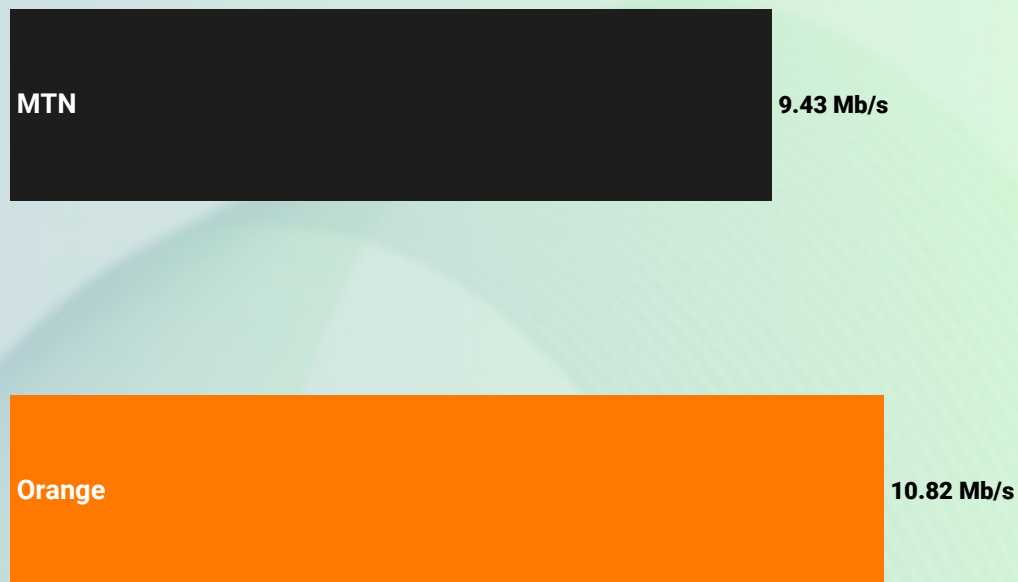


Source : nperf.com





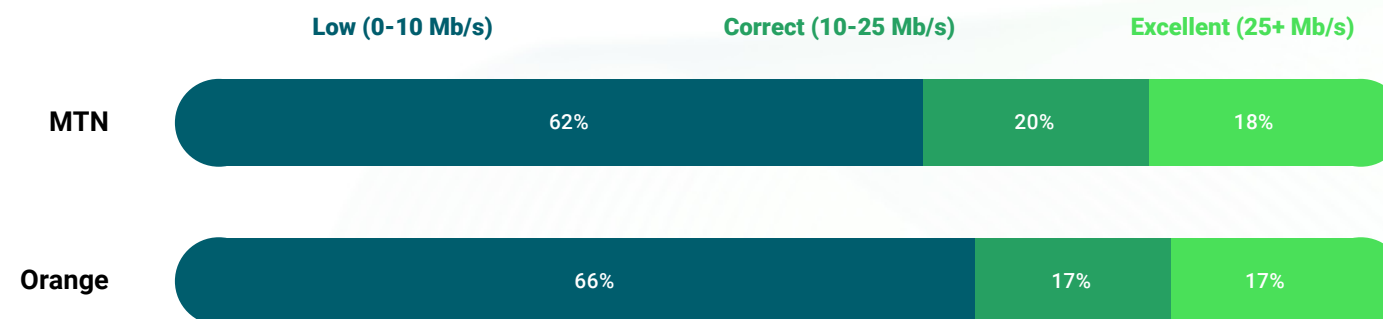
## Download Speed (average)



Source : nperf.com

The subscribers of Orange enjoyed the best average mobile Internet download speed in 2023.

## Download Speed results ventilation (average)



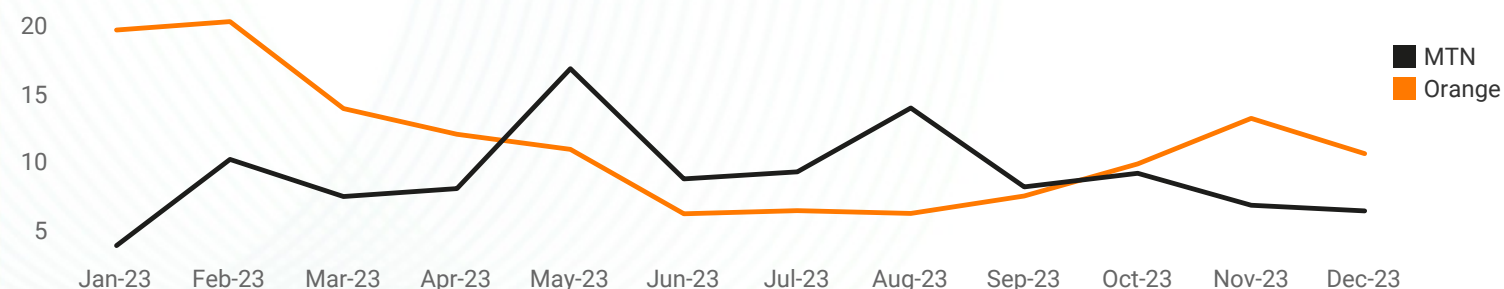
Source : nperf.com

## Download Speed (average)



Source : nperf.com

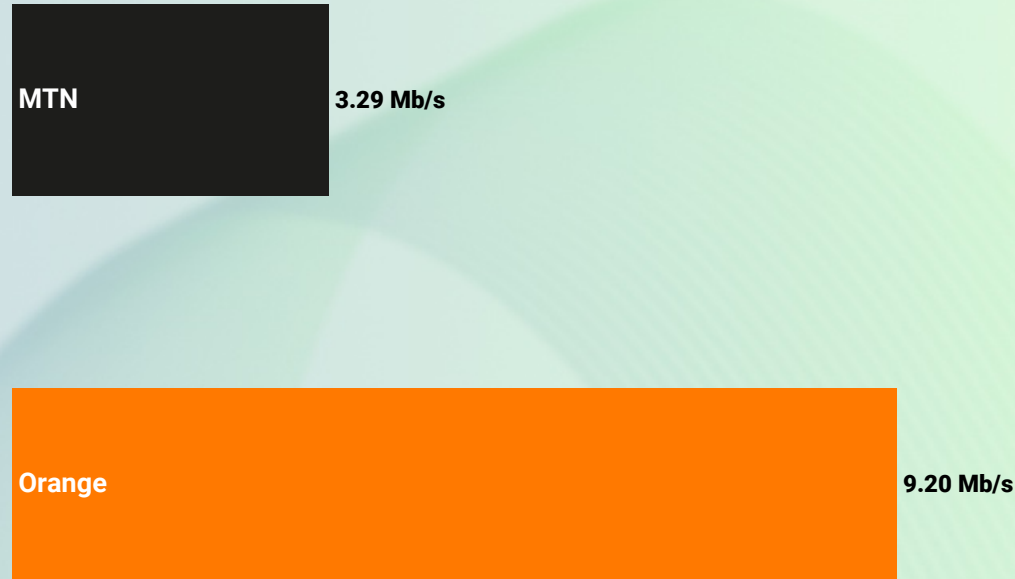
## Download Speed evolution over the year (average)



Source : nperf.com



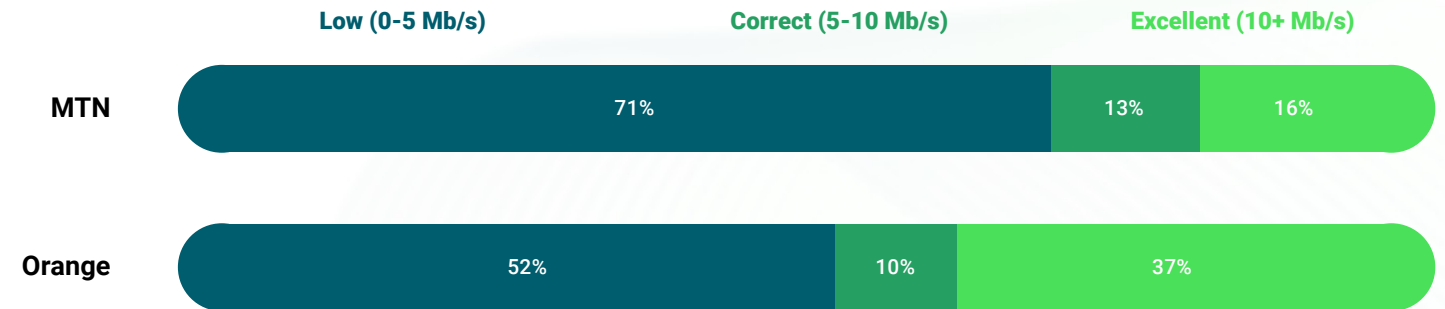
## Upload Speed (average )



Source : nperf.com

The subscribers of Orange enjoyed the best average mobile Internet upload speed in 2023.

## Upload Speed results ventilation (average)



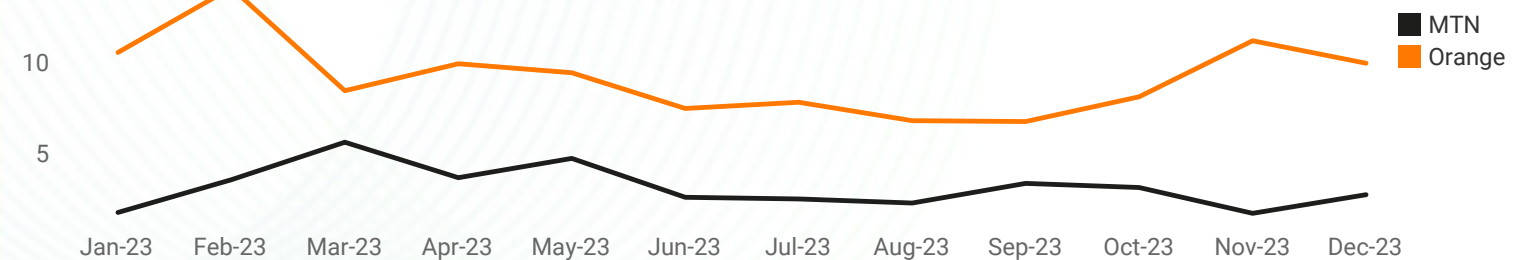
Source : nperf.com

## Upload Speed (average )



Source : nperf.com

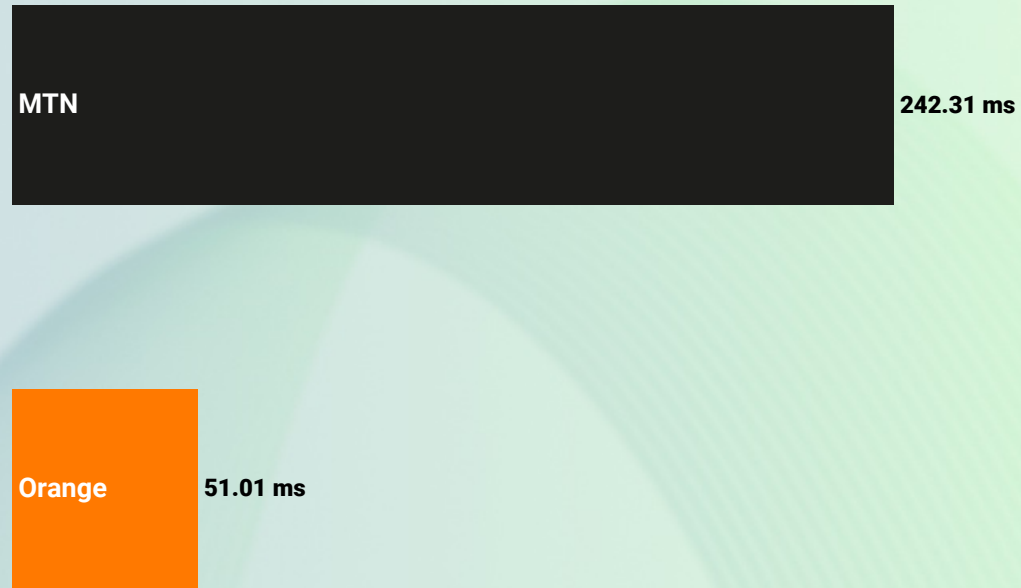
## Upload Speed evolution over the year (average)



Source : nperf.com



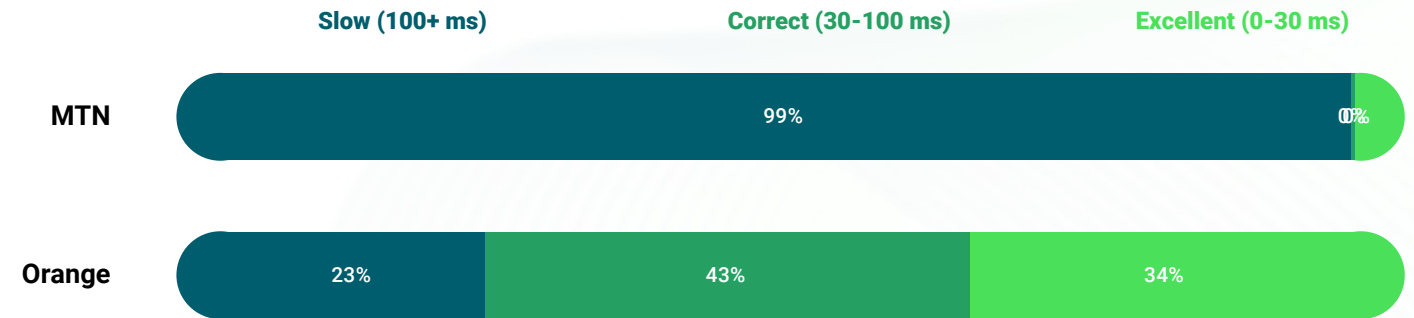
## Latency Speed (average)



Source : nperf.com

The subscribers of Orange enjoyed the best average mobile Internet latency speed in 2023.

## Latency Speed results ventilation (average)



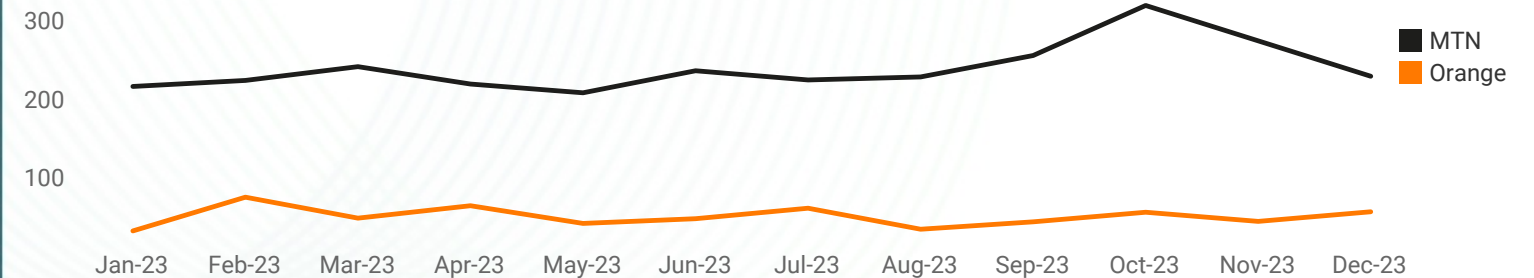
Source : nperf.com

## Latency Speed (average)



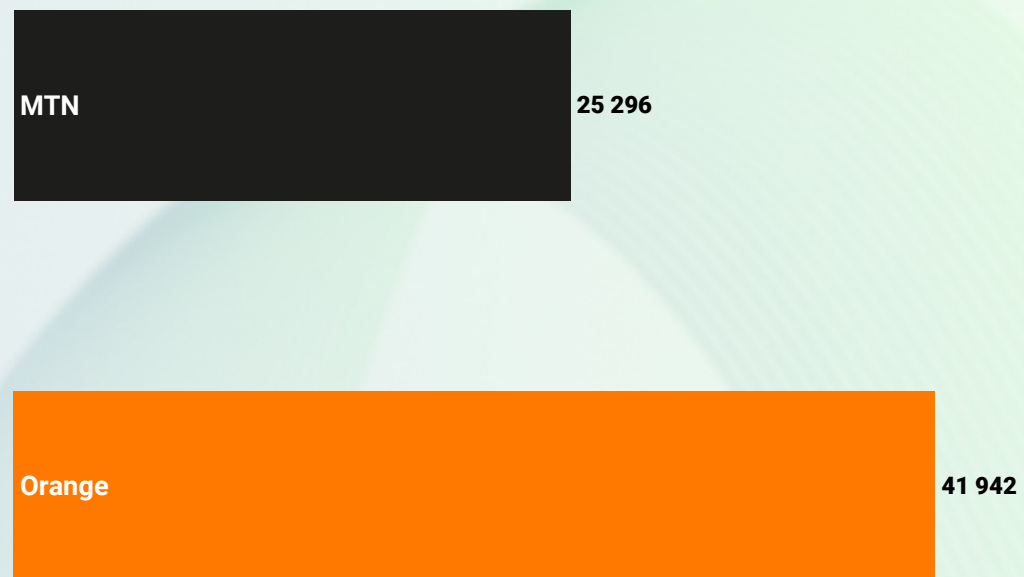
Source : nperf.com

## Latency Speed evolution over the year (average)



Source : nperf.com

## nPerf Score (nPoints)



Source : nperf.com

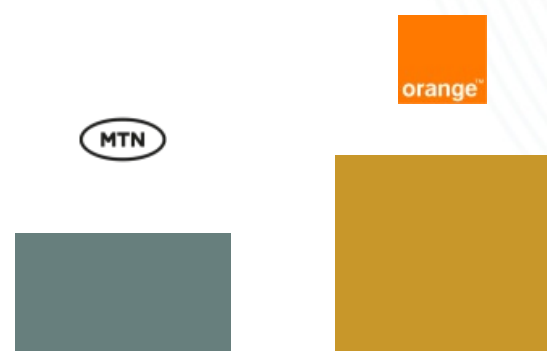
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The nperf score takes into account the measured bitrates, the latency and the Qoe tests. The value of the points for the rates and the latency is calculated on a logarithmic scale, to better represent the perception of the user.

Thus, this score reflects the overall quality of the connection experienced by the user.

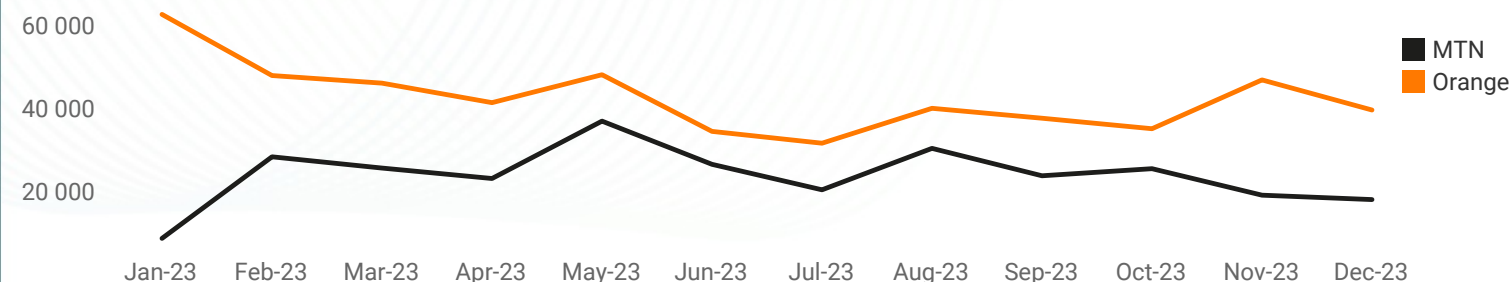
Source : nperf.com

Best mobile Internet performance in 2023



Source : nperf.com

## nPerf score evolution over the year (average)



Source : nperf.com



We qualify your connection