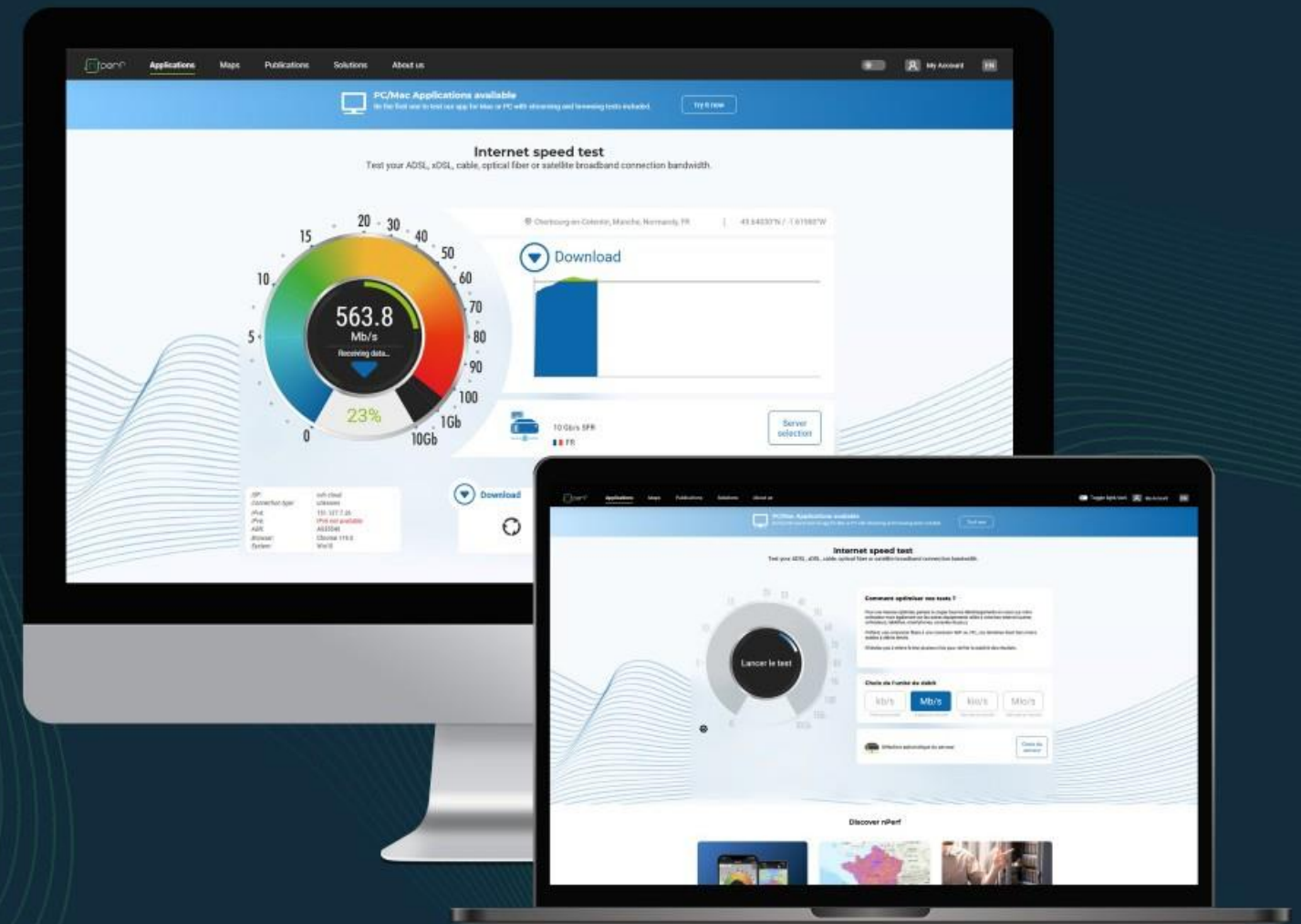July 15, 2024

nperf
We qualify your connection

Barometer of fixed Internet connections in Bolivia (Plurinational State of)

01/07/2023 - 30/06/2024

Agenda

1 Introducing nPerf

2 Executive summary

3 Analysis

4 Methodology

5 nPerf Network assesment

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! Dowload our app or visit our website!

Available on the App Store

GET IT ON Google Play

Test your connection on nPerf.com

The subscribers of AXS enjoyed the best fixed Internet performances in Bolivia (Plurinational State of) during 2024.

Fixed Internet connections in Bolivia (Plurinational State of)

	AXS	Comteco	Cotas	Entel	Tigo
Download bitrates (Mb/s)	43,64	27,69	30,08	36,67	33,92
Upload bitrates (Mb/s)	24,39	15,63	12,04	22,21	12,65
Latency (ms)	71,48	92,71	89,57	88,21	111,91
Web browsing (%)	63,19	63,58	62,60	65,12	64,31
Youtube streaming (%)	74,87	77,75	69,60	75,57	76,51
nPerf Score (nPoints)	66 797	58 885	54 811	64 005	58 598

Source : nperf.com

Best fixed Internet performance in 2024

No.1 BROADBAND PERFORMANCE nPerf AWARDS

Source : nperf.com

Source : nperf.com

Introduction

In Bolivia's telecommunications market, AXS takes the lead, followed by Entel in second place, Comteco in third, Tigo in fourth, and Cotas in last position. This ranking reflects the diverse performance of each internet service provider (ISP) in areas such as download and upload speeds, web browsing, and YouTube streaming.

AXS leads with strong performance

AXS emerges as the leader due to its excellent performance in download speed (43.64 Mbps), upload speed (24.39 Mbps), and latency (71.48 ms). These metrics underscore AXS's capability to provide a reliable and fast internet experience, securing its top position in the market.

Entel: strong in web and youtube streaming

Entel, in second place, excels in web browsing (65.12) and youtube streaming (75.57). These strengths make Entel a strong contender, especially for users who prioritize smooth and efficient streaming experiences.

Comteco: youTube streaming champion

Comteco holds the third position, standing out as the champion in youtube streaming with a score of 77.75. This highlights Comteco's specialization in delivering high-quality streaming services, making it a competitive option for users focused on media consumption.

Tigo: reliable streaming performance

In fourth place, Tigo offers consistent performance in streaming, although it does not match the top three ISPs in overall metrics. Tigo remains a viable choice for users seeking reliable streaming services without the premium performance of higher-ranked providers.

Cotas: struggling to compete

In the last position, Cotas lags significantly behind its competitors. Cotas's performance in key areas does not enable it to compete effectively in the Bolivian telecommunications market, impacting its attractiveness to users.

Conclusion

The Bolivian telecommunications market is led by AXS, thanks to its strong download and upload speeds and low latency. Entel follows closely, excelling in web browsing and youtube streaming. Comteco maintains a solid third position with exceptional youtube streaming capabilities. Tigo provides reliable streaming performance, while Cotas struggles to keep up with its rivals. This competitive landscape offers users a range of options based on their specific needs, whether they prioritize speed, streaming quality, or overall reliability.

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.
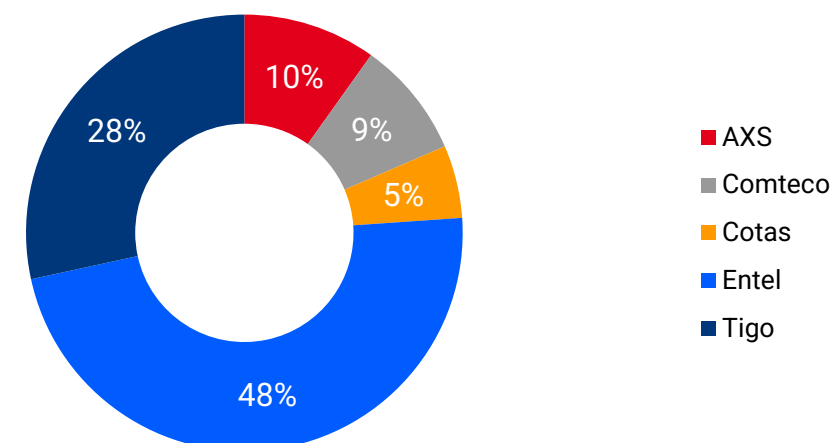
For mobile connections, we assess:

▼ **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 4,9% precision for absolute values, 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.
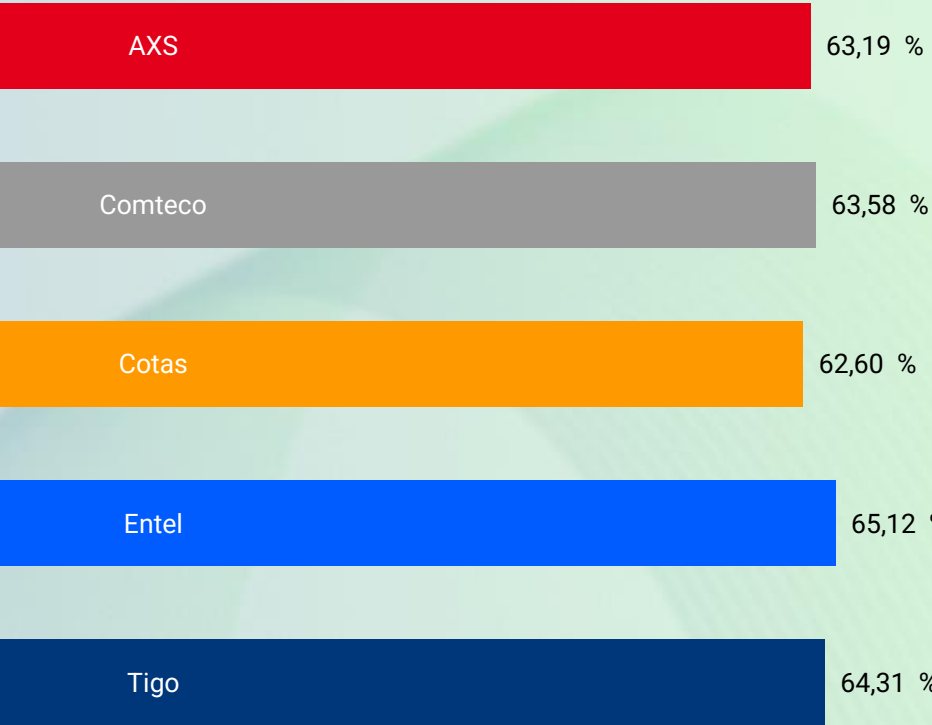
Overall distribution of the tests per provider (ISPs Share)

- AXS: 10%
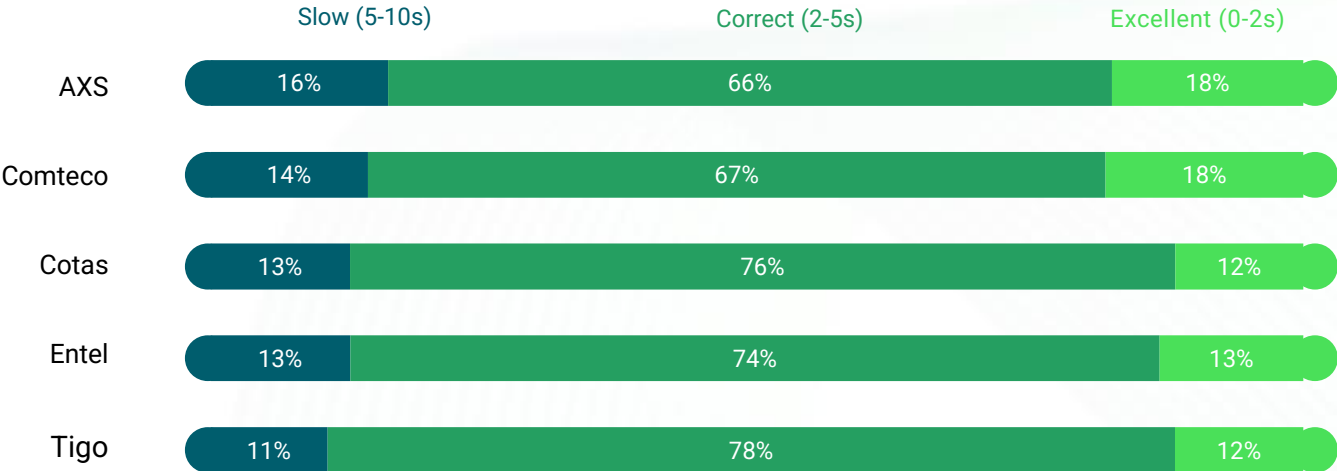- Comteco: 9%
- Cotas: 5%
- Entel: 48%
- Tigo: 28%

Source : nperf.com

Quality of Experience : Browsing

Browsing Performance rate (average)

Provider	Rate
AXS	63,19 %
Comteco	63,58 %
Cotas	62,60 %
Entel	65,12 %
Tigo	64,31 %

Source : nperf.com

The subscribers of Comteco , Entel and Tigo enjoyed the best mobile Internet browsing performance in 2024.

Browsing Performance results ventilation (average)

Slow (5-10s)   Correct (2-5s)   Excellent (0-2s)

Provider	Slow (5-10s)	Correct (2-5s)	Excellent (0-2s)
AXS	16%	66%	18%
Comteco	14%	67%	18%
Cotas	13%	76%	12%
Entel	13%	74%	13%
Tigo	11%	78%	12%

Source : nperf.com

Browsing Performance rate (average)

Busy Time		Idle Time
61,79 %	AXS	63,75 %
55,26 %	Comteco	65,87 %
57,74 %	Cotas	64,92 %
63,59 %	Entel	65,83 %
64,12 %	Tigo	64,39 %

Source : nperf.com

Browsing performance rate (average) evolution over the year

Legend: AXS, Comteco, Cotas, Entel, Tigo

2023-07 2023-08 2023-09 2023-10 2023-11 2023-12 2024-01 2024-02 2024-03 2024-04 2024-05 2024-06

Source : nperf.com

Quality of Experience : Streaming

Streaming Performance rate (average)

Operator	Rate
AXS	74,87 %
Comteco	77,75 %
Cotas	69,60 %
Entel	75,57 %
Tigo	76,51 %

Source : nperf.com

The subscribers of Comteco , Entel and Tigo enjoyed the best mobile Internet streaming performance in 2024.

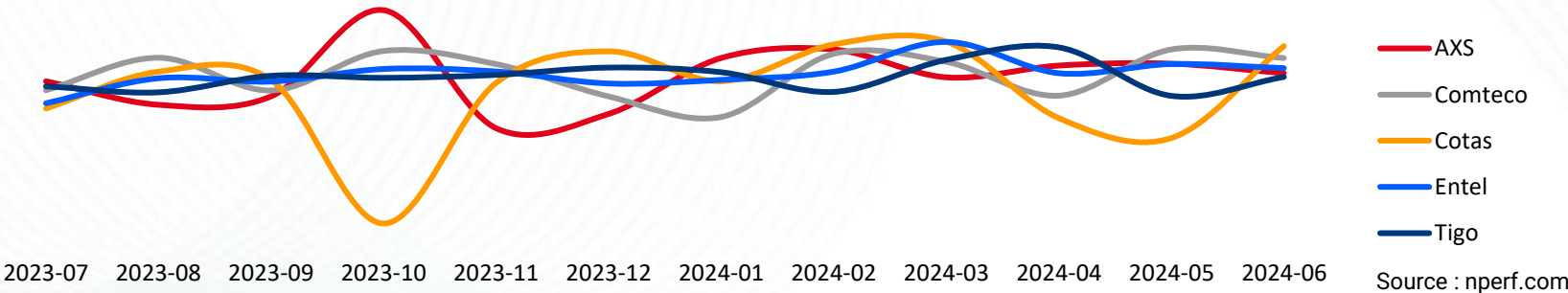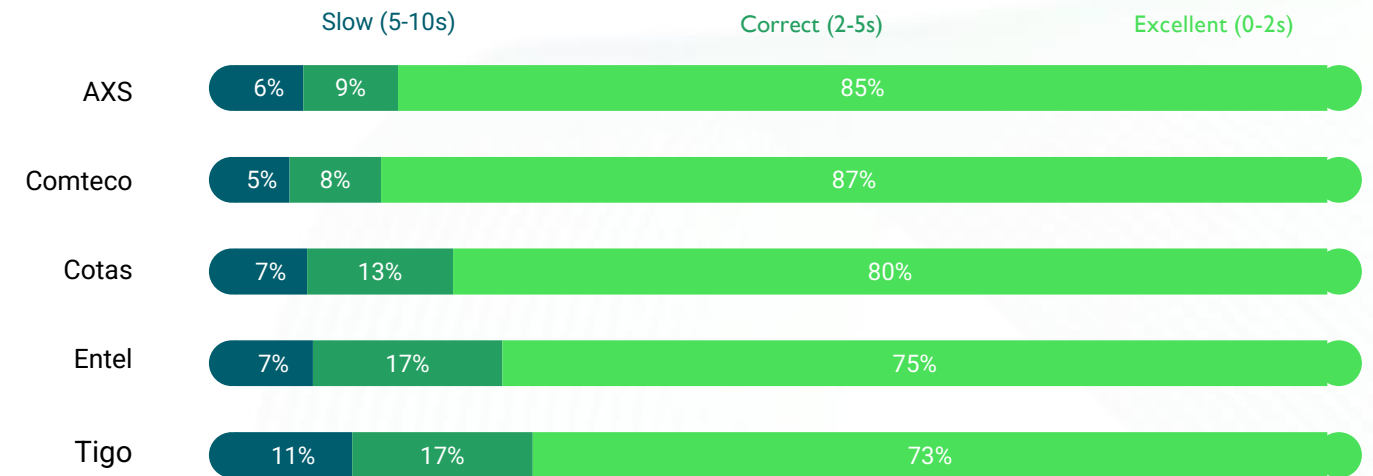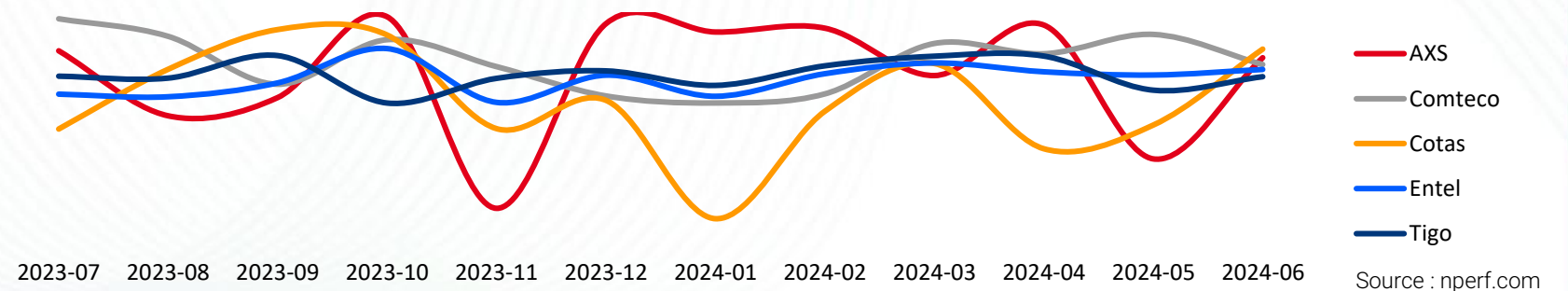## Streaming Performance results ventilation (average)

Slow (5-10s)   Correct (2-5s)   Excellent (0-2s)

Operator	Slow	Correct	Excellent
AXS	6%	9%	85%
Comteco	5%	8%	87%
Cotas	7%	13%	80%
Entel	7%	17%	75%
Tigo	11%	17%	73%

Source : nperf.com

Streaming Performance rate (average)

	Busy Time		Idle Time
AXS	73,87 %		75,24 %
Comteco	66,68 %		80,74 %
Cotas	76,71 %		66,50 %
Entel	69,25 %		78,58 %
Tigo	73,04 %		77,99 %

Source : nperf.com

Streaming performance rate (average) evolution over the year

AXS
Comteco
Cotas
Entel
Tigo

2023-07 2023-08 2023-09 2023-10 2023-11 2023-12 2024-01 2024-02 2024-03 2024-04 2024-05 2024-06

Source : nperf.com

Speed : Download

Download Speed (average)

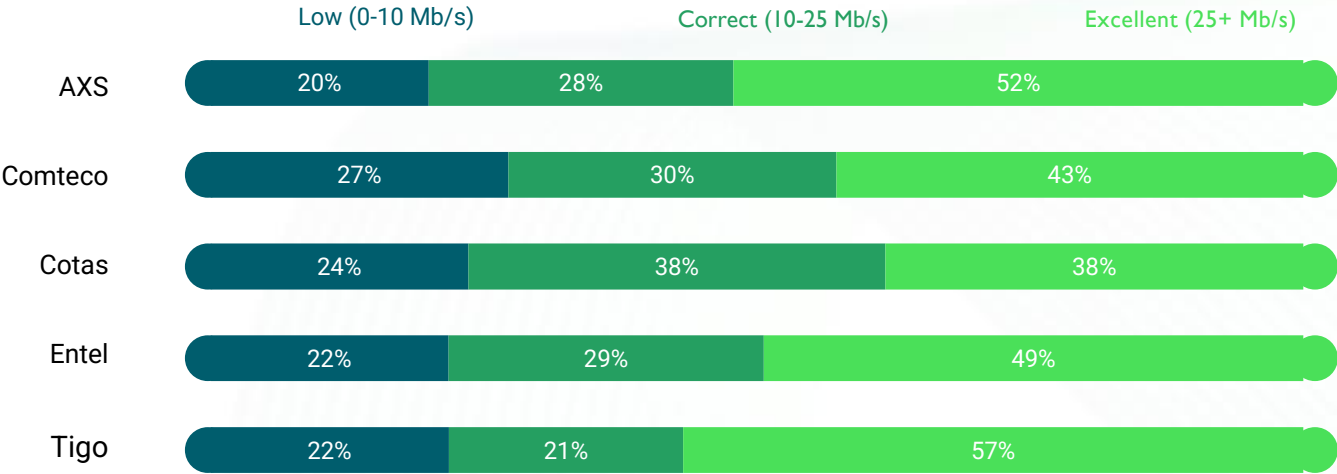|	
AXS	43,64 Mb/s
Comteco	27,69 Mb/s
Cotas	30,08 Mb/s
Entel	36,67 Mb/s
Tigo	33,92 Mb/s
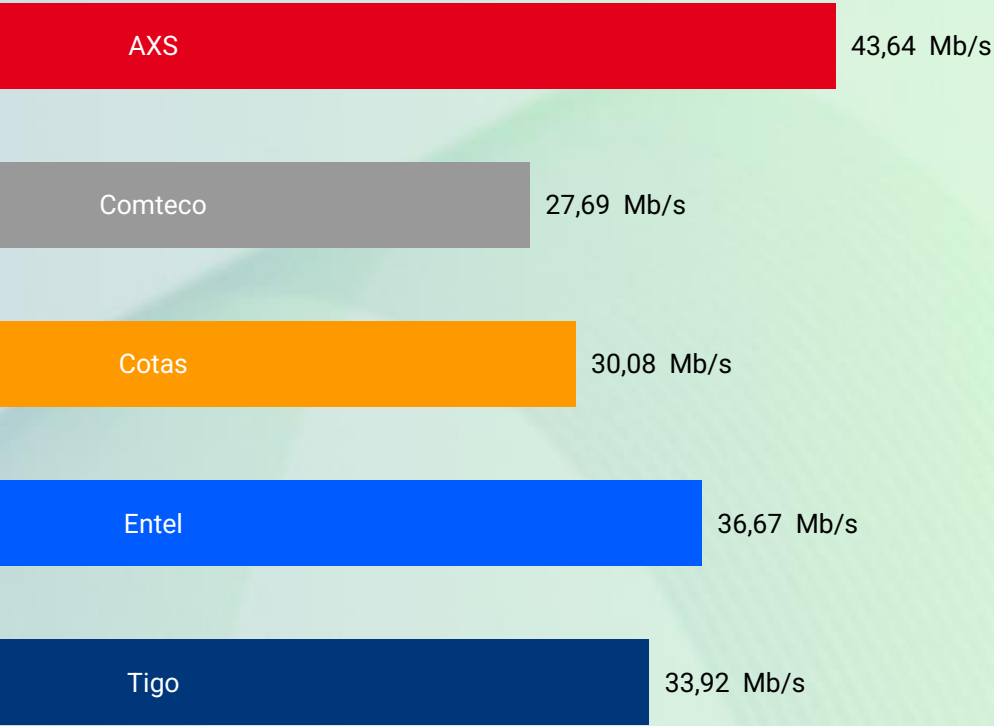
Source : nperf.com

The subscribers of AXS enjoyed the best average mobile Internet download speed in 2024.

Download Speed results ventilation (average)

Low (0-10 Mb/s)   Correct (10-25 Mb/s)   Excellent (25+ Mb/s)

	Low	Correct	Excellent
AXS	20%	28%	52%
Comteco	27%	30%	43%
Cotas	24%	38%	38%
Entel	22%	29%	49%
Tigo	22%	21%	57%

Source : nperf.com

Download Speed (average)

Busy Time		Idle Time	
28,23 Mb/s	AXS	49,43 Mb/s	
23,10 Mb/s	Comteco	29,42 Mb/s	
25,89 Mb/s	Cotas	31,64 Mb/s	
26,44 Mb/s	Entel	40,96 Mb/s	
31,42 Mb/s	Tigo	35,16 Mb/s	
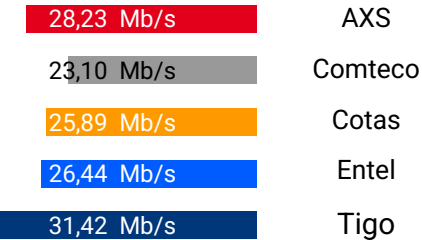
Source : nperf.com

Download Speed evolution over the year (average)
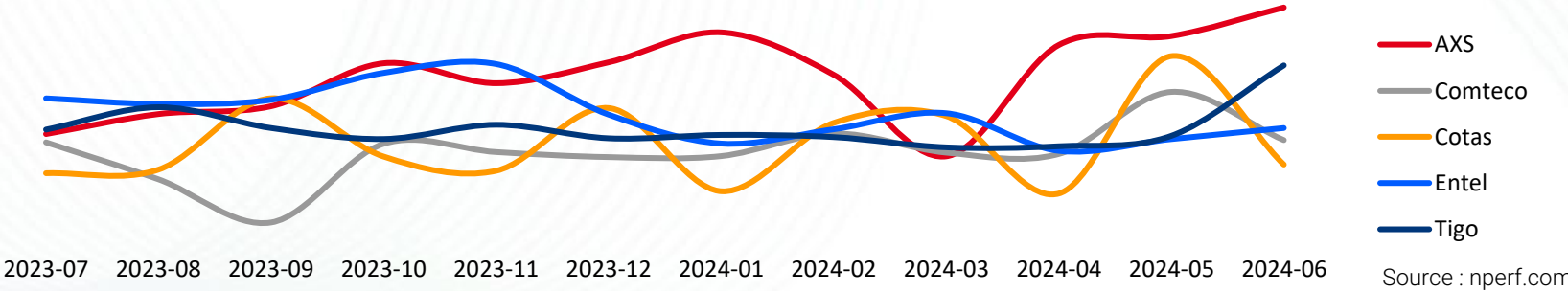
Legend: AXS, Comteco, Cotas, Entel, Tigo

2023-07 2023-08 2023-09 2023-10 2023-11 2023-12 2024-01 2024-02 2024-03 2024-04 2024-05 2024-06

Source : nperf.com

Upload Speed (average)

AXS	24,39 Mb/s
Comteco	15,63 Mb/s
Cotas	12,04 Mb/s
Entel	22,21 Mb/s
Tigo	12,65 Mb/s
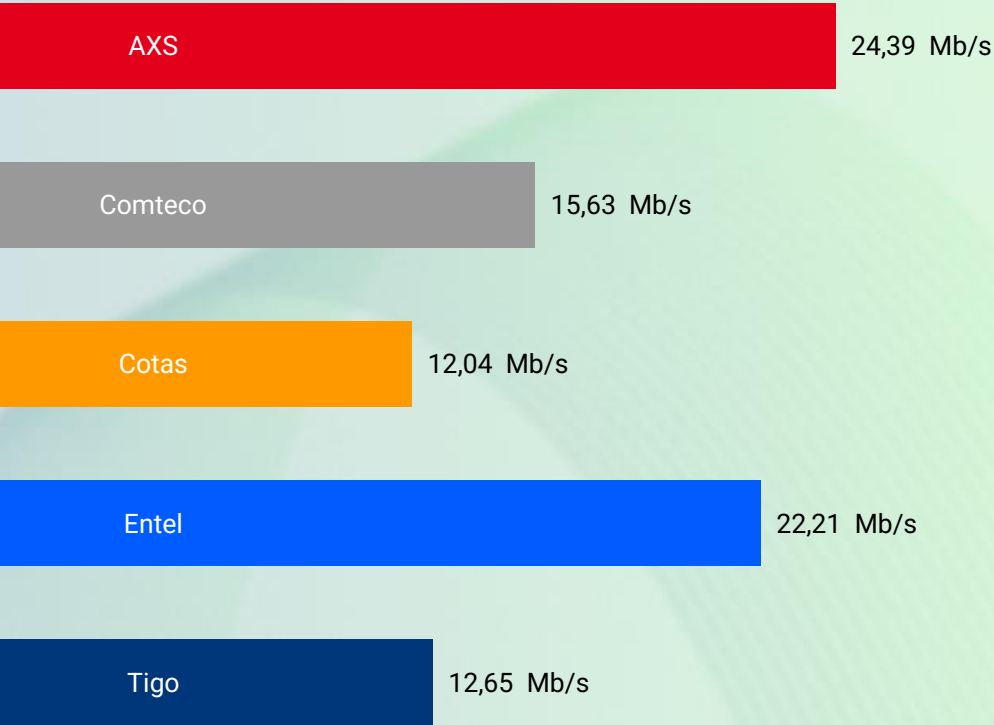
Source : nperf.com

The subscribers of AXS enjoyed the best average mobile Internet upload speed in 2024.
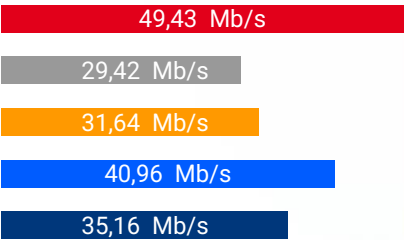
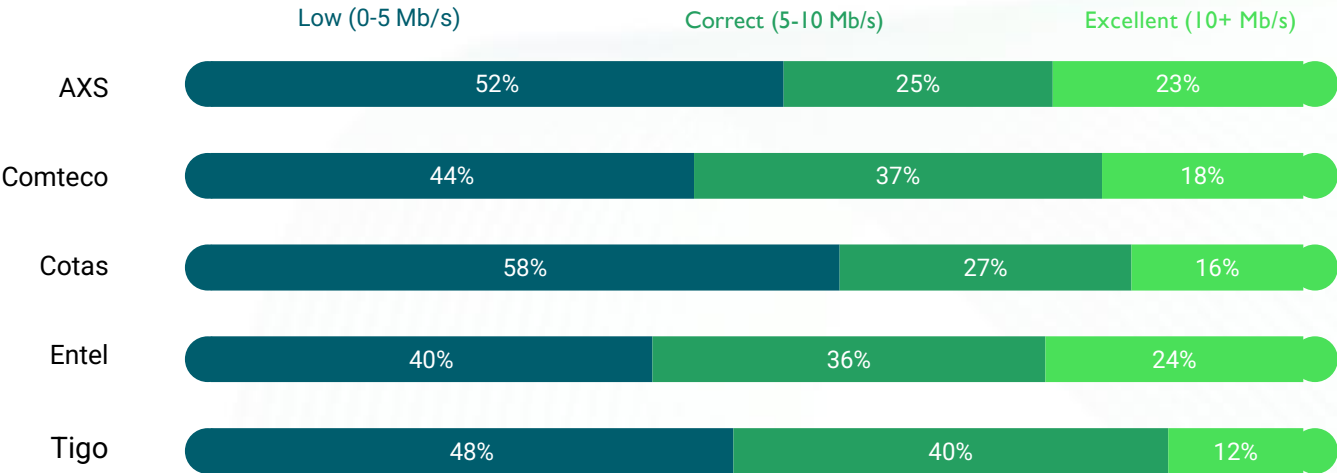## Upload Speed results ventilation (average)

	Low (0-5 Mb/s)	Correct (5-10 Mb/s)	Excellent (10+ Mb/s)
AXS	52%	25%	23%
Comteco	44%	37%	18%
Cotas	58%	27%	16%
Entel	40%	36%	24%
Tigo	48%	40%	12%

Source : nperf.com

Upload Speed (average)

Busy Time		Idle Time	
12,18 Mb/s	AXS	28,97 Mb/s	
13,55 Mb/s	Comteco	16,42 Mb/s	
10,46 Mb/s	Cotas	12,63 Mb/s	
14,93 Mb/s	Entel	25,27 Mb/s	
11,32 Mb/s	Tigo	13,31 Mb/s	
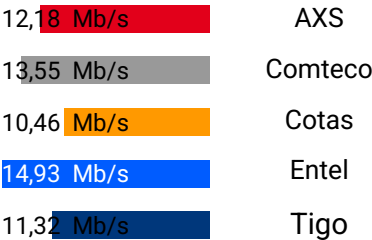
Source : nperf.com

Upload Speed evolution over the year (average)
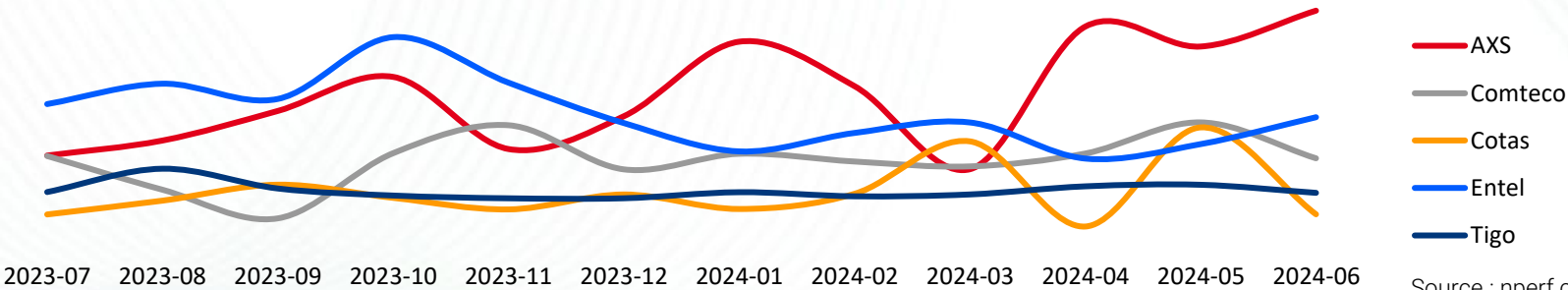
AXS — Comteco — Cotas — Entel — Tigo

2023-07 2023-08 2023-09 2023-10 2023-11 2023-12 2024-01 2024-02 2024-03 2024-04 2024-05 2024-06

Source : nperf.com

Speed : Latency

Latency Speed (average)

Provider	Latency
AXS	71,48 ms
Comteco	92,71 ms
Cotas	89,57 ms
Entel	88,21 ms
Tigo	111,91 ms
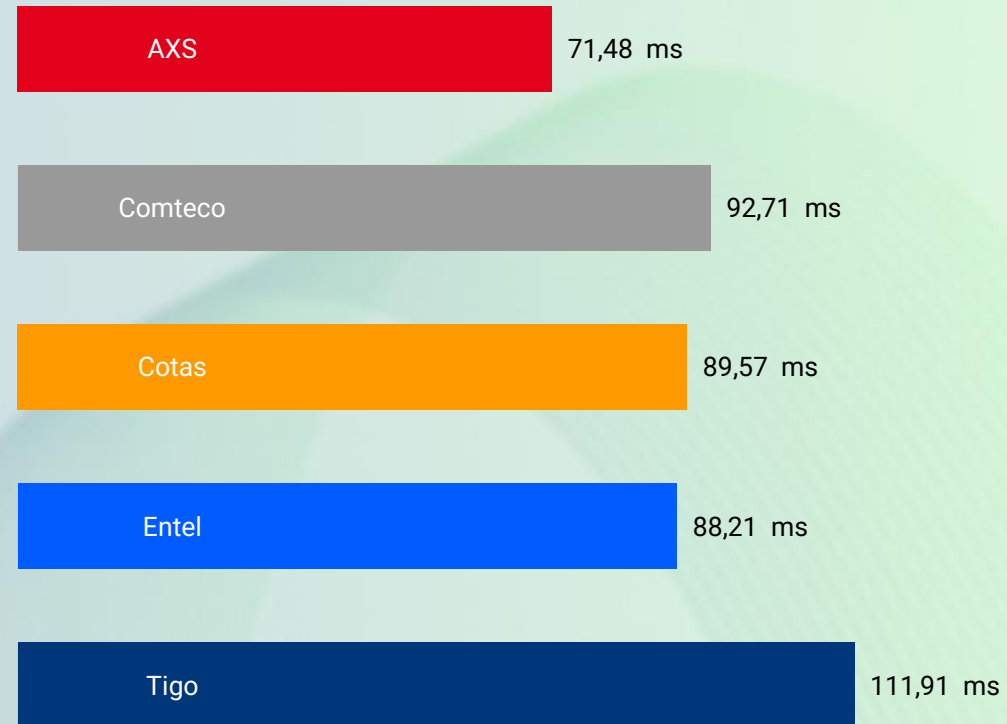
Source : nperf.com

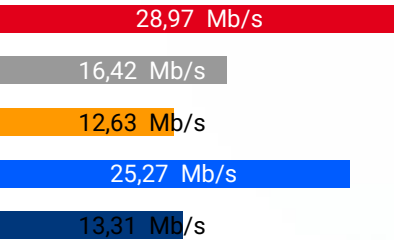The subscribers of AXS enjoyed the best average mobile Internet latency speed in 2024.

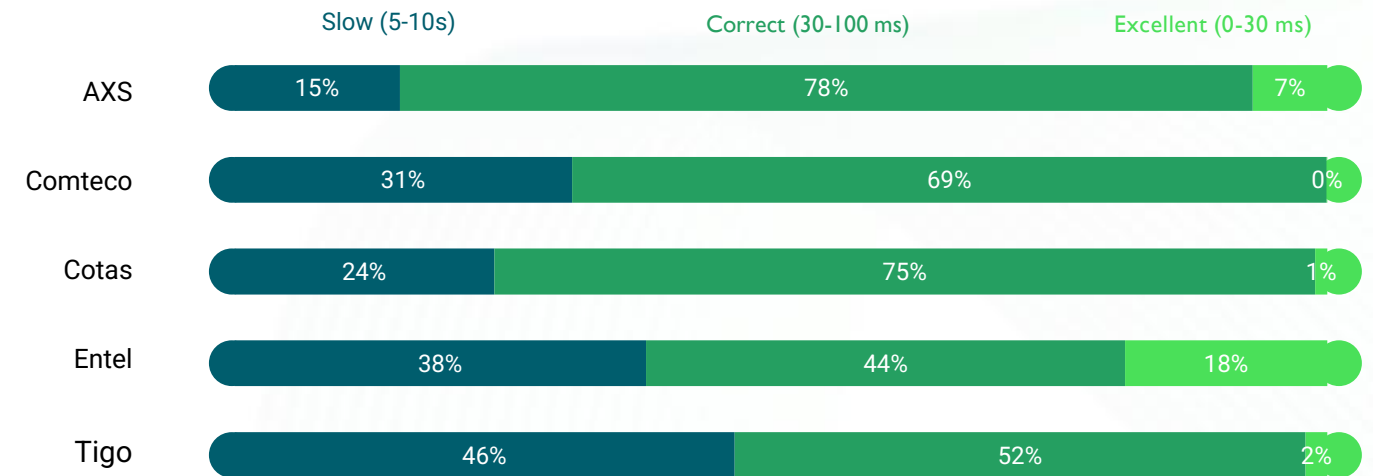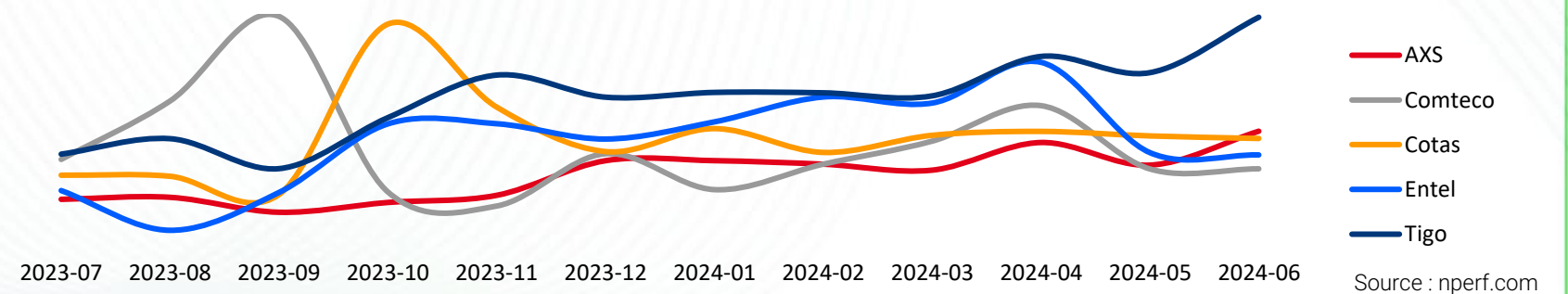## Latency Speed results ventilation (average)

Slow (5-10s)   Correct (30-100 ms)   Excellent (0-30 ms)

Provider	Slow	Correct	Excellent
AXS	15%	78%	7%
Comteco	31%	69%	0%
Cotas	24%	75%	1%
Entel	38%	44%	18%
Tigo	46%	52%	2%

Source : nperf.com

Latency Speed (average)

Busy Time	Provider	Idle Time
77,87 ms	AXS	69,13 ms
99,35 ms	Comteco	90,28 ms
98,20 ms	Cotas	86,21 ms
94,88 ms	Entel	85,47 ms
110,31 ms	Tigo	112,72 ms

Source : nperf.com

Latency Speed evolution over the year (average)

Legend: AXS, Comteco, Cotas, Entel, Tigo

Axis: 2023-07, 2023-08, 2023-09, 2023-10, 2023-11, 2023-12, 2024-01, 2024-02, 2024-03, 2024-04, 2024-05, 2024-06

Source : nperf.com

Fixed Internet performance in Bolivia

nPerf

nPerf Score (nPoints)

Provider	Score
AXS	66 797
Comteco	58 885
Cotas	54 811
Entel	64 005
Tigo	58 598

Source : nperf.com

The subscribers of AXS enjoyed the best fixed Internet performances in Bolivia (Plurinational State of) during 2024.

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.
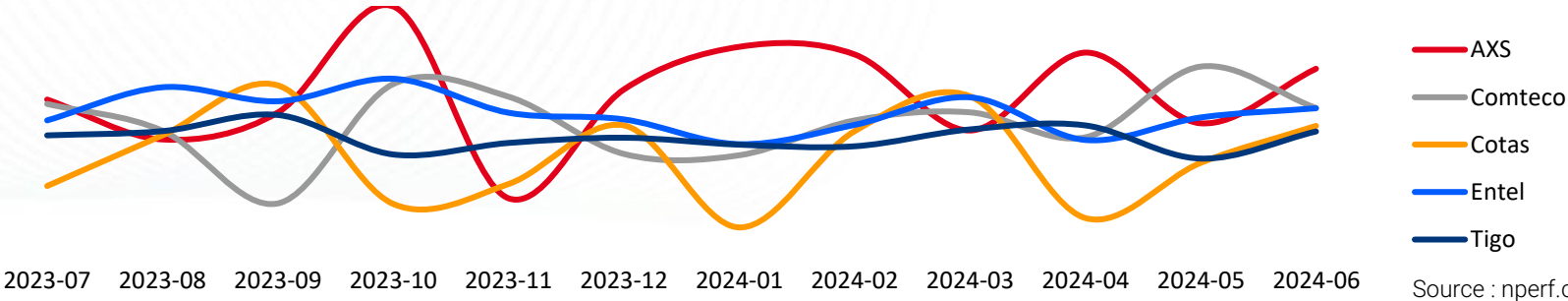
Source : nperf.com

Best fixed Internet performance in 2024

No.1 BROADBAND PERFORMANCE

Source : nperf.com

nPerf score evolution over the year (average)

Legend: AXS, Comteco, Cotas, Entel, Tigo

2023-07, 2023-08, 2023-09, 2023-10, 2023-11, 2023-12, 2024-01, 2024-02, 2024-03, 2024-04, 2024-05, 2024-06

Source : nperf.com

nperf
We qualify your connection