

CERTIFICATE

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Rohde & Schwarz SwissQual AG, as the issuer of this document, certifies that



Telia Eesti AS

Mustamäe tee 3

15033 Tallinn

Estonia

attained the

Most Reliable Data Services Score

for Estonia, assessed during the 2025 nationwide mobile network benchmarking campaign from September 19 to October 11, 2025. We congratulate **Telia Estonia** for ranking first for the most reliable data services with a score of **193 out of 207 points**, that corresponds to 96% of the maximum achievable score, on the Rohde & Schwarz Network Performance Score in line with ETSI TR 103 559.

Hansmann Axel

CEO Rohde & Schwarz SwissQual AG



Link to the benchmarking
campaign details



Scoring methodology in
line with ETSI TR 103 559

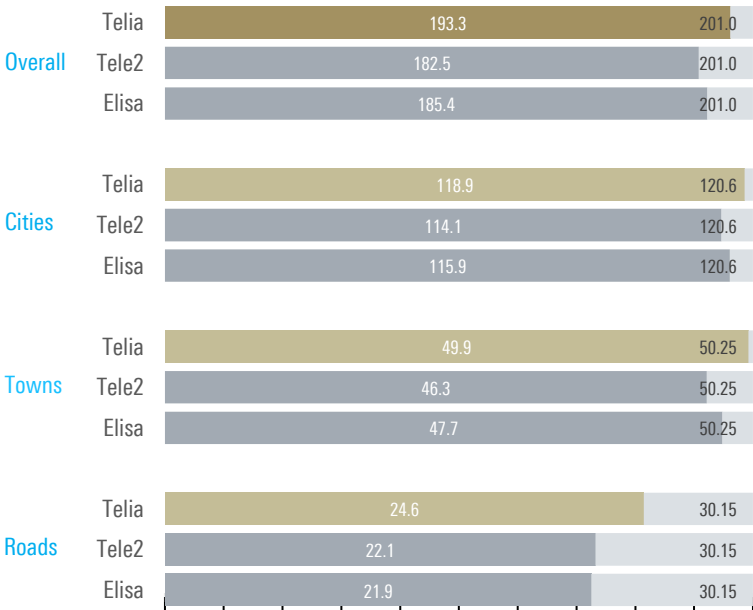


NETWORK PERFORMANCE SCORE

Commissioned by Telia, Rohde & Schwarz SwissQual AG performed a mobile network benchmarking campaign assessing the quality and performance of Estonia’s leading mobile operators. The drive-test based data collection campaign was implemented from September 19 to October 11, 2025 and covered Estonia’s main cities, towns and roads.

During this mobile network benchmarking campaign, over 85,590 individual data tests were performed to calculate a Network Performance Score in line with ETSI TR 103 559.

Most Reliable Data Services Score



Measurement campaign overview

- ▶ **Driven kilometers:** 5,740 km
- ▶ **Time period:** September 19 to October 11, 2025
independently selected by Rohde&Schwarz SwissQual AG
- ▶ **Test routes:** Covering >64% of Estonian population,
routes selected independently by Rohde&Schwarz SwissQual AG
based on population and population density
- ▶ **Network operators:** Elisa, Tele2, Telia



MEASUREMENT CAMPAIGN METHODOLOGY

Rohde & Schwarz SwissQual AG applied a fully transparent, harmonized and end-user centric scoring methodology as described in ETSI TR 103 559 and calculates a single overall Network Performance Score in line with this integrative methodology.

The scoring methodology includes essential aspects of popular mobile services and the resulting Network Performance Score reflects user's perceived performance of a mobile network in daily use regardless of the available technologies. The overall Network Performance Score is an aggregation of rated service performance over different regions covered by mobile networks with a state-of-art mobile phone.

- ▶ Data collection and analysis follows established standards and rules as defined in ETSI and ITU-T.
- ▶ The performance assessment uses tests of popular services in mobile networks, such as voice telephony, data transfer, video and app-specific services.
- ▶ The applied methodology provides insights into dedicated service classes and individual KPIs as well as for individual pre-defined geographical or morphologic categories.
- ▶ The entire measurement campaign used state-of-the art smartphones supported by all operators in Estonia.
- ▶ Data collection and analysis used Rohde&Schwarz SwissQual AG de-facto industry standard benchmarking equipment that supports the Network Performance Score methodology.
- ▶ All measurements were performed in 5G preferred mode.

MEASUREMENT CAMPAIGN CONFIGURATION AND SETUP

DATA SERVICE TESTING

Measurement device used for data service testing: Samsung S25+ (SM-S936B)



Data transfer

- ▶ Successful upload and download of data files to a local cloud server (10MB download and 5MB upload)



Video streaming

- ▶ YouTube streaming test in line with ETSI TR 101 578 and ITU-T E.804.1
- ▶ Receiving video on demand and live streams for 45s
- ▶ Video Quality measurement in line with ITU-T J.343.1
- ▶ Success, access time and video quality evaluated



Web Browsing

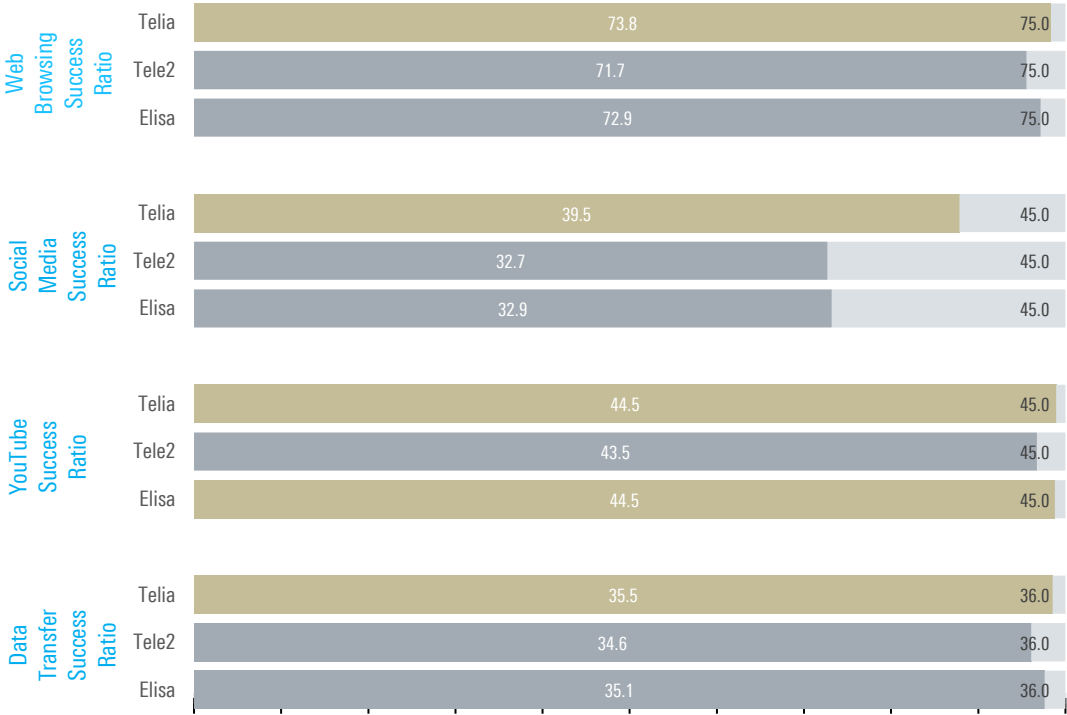
- ▶ Accessing and retrieving web-content from different websites
- ▶ Testing of locally popular dynamic sites in different sizes
- ▶ In line with ITU-T E.804.1 and ETSI TR 103 733, success and download time evaluated



Post to Internet / Social Media

- ▶ Uploading data content (files) to WhatsApp (5MB size)
- ▶ In line with ITU-T E.804.1, success and transfer time evaluated

Most Reliable Data Services Score - Breakdown per KPI



DATA KPIS				
Geographical Category	Service KPI	Elisa	Tele2	Telia
City	Web Browsing Success Ratio	99.67 %	99.40 %	99.89 %
	Social Media Success Ratio	97.26 %	96.88 %	99.06 %
	YouTube Success Ratio	99.93 %	99.65 %	99.86 %
	HTTP Success Ratio	99.84 %	99.59 %	99.97 %
Town	Web Browsing Success Ratio	99.66 %	99.13 %	99.81 %
	Social Media Success Ratio	96.23 %	96.11 %	99.60 %
	YouTube Success Ratio	99.81 %	99.03 %	100.00 %
	HTTP Success Ratio	99.91 %	99.09 %	100.00 %
Road	Web Browsing Success Ratio	98.12 %	97.91 %	98.54 %
	Social Media Success Ratio	81.50 %	82.60 %	88.20 %
	YouTube Success Ratio	99.00 %	98.62 %	99.13 %
	HTTP Success Ratio	97.62 %	97.92 %	98.17 %

About Rohde & Schwarz SwissQual AG

Together with teams from the global Rohde & Schwarz group of companies, our employees in the Swiss Rohde & Schwarz SwissQual AG subsidiary develop and market integrated solutions and managed services to test and improve the quality and performance of mobile networks.

Our experts for global benchmarking campaigns plan and run large-scale optimization and benchmarking campaigns and empower customers to make QoE centric business decisions with confidence, to deliver better services with higher quality for their end users, to reduce time to market for new technologies and services and to safeguard and increase the value of their business.

For more information about Rohde&Schwarz products visit:

www.rohde-schwarz.com/mnt

For more information about mobile network testing managed services visit:

www.rohde-schwarz.com/mnt/network-analytics-services

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Telia Estonia sponsored an independent evaluation of its mobile network performance that was conducted by Rohde & Schwarz SwissQual AG. Telia was ranked with the leading performance score in Estonia based on an ETSI approved methodology