Planet Network International

PRODUCT OVERVIEW

ADVANCED SOLUTIONS FOR TELECOM REGULATORY AUTHORITIES

Mobile quality and tariffs, independently verified

Planet Network International gives regulators continuous evidence of how mobile networks perform and whether customers are charged correctly, and shares the results with the public.

01

RPM System

Network performance monitoring and QoS enforcement from the operators' own counters, down to the cell.

02

D.QoS Portal and Mobile App

Coverage, operator ranking and service status, open to the public on the web and on iOS and Android.

03

Tariff Audit System

Independent test calls, SMS and data sessions that check billing against the published tariffs.

04

Traffic Monitoring System

Daily monitoring of subscriber usage and revenue from the operators' own billing records.

12+
regulators in production across Africa

4
major vendors: Huawei, Ericsson, Nokia, ZTE

2G–5G
every mobile technology covered

24/7
continuous monitoring, all year

RPM System

The regulator's engine: every cell, every hour, all year

The RPM System collects the performance measurement (PM) files that every mobile network already produces. It computes the ITU-T High-Level KPIs for QoS evaluation with 3GPP KPI Formulas and compares each operator against the thresholds in the regulator's QoS guidelines.

1 Operator OSS
3GPP PM files, cell-level counters, all vendors

2 Collection
VPN and SFTP, automatic, every hour

3 Integrity checks
Source Availability, Reliability Indicator

4 KPI computation
Cell to national level, hourly to monthly

5 Dashboards
Alarms, QoS status and audit reports

QoS delivered status: gauges from national level down to the cell (screen from a live deployment)



Multi-vendor, 2G to 5G

Huawei, Ericsson, Nokia and ZTE are supported natively through 3GPP PM files.

Data integrity first

Late or incomplete operator files are visible the same day, so no decision rests on partial data.

Alarms on the regulator's thresholds

Minor, Major and Critical alarms per KPI and per cell, as soon as a value leaves its threshold.

Enforcement with evidence

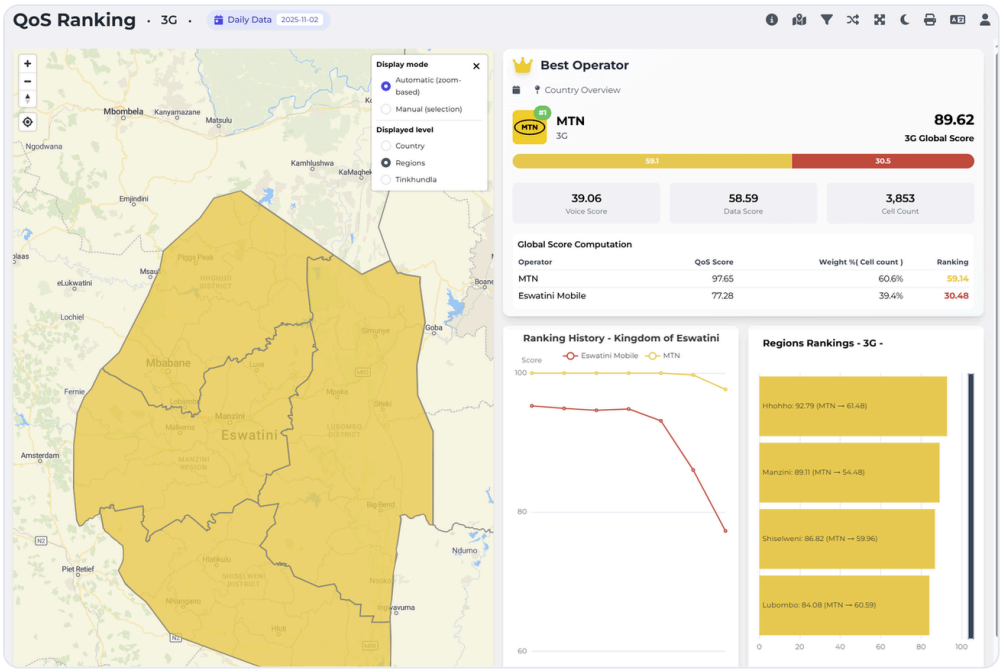
Warning cells and penalty cells listed every month, in line with ITU-T E.800 Supplement 9.

Four QoS categories, one view. Network Availability, Service Accessibility, Service Retainability and Service Integrity, for voice and data, per operator, technology and vendor.

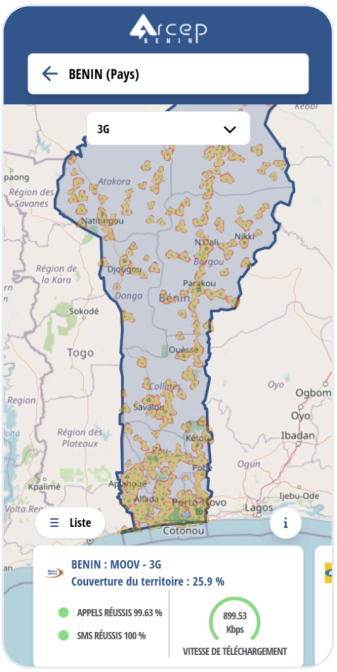
D.QoS Portal and Mobile App

The quality each operator delivers, open to everyone

D.QoS turns the RPM System's results into something the public can read: a web portal and an iOS and Android app showing coverage, the quality of service delivered and how operators compare. It is fed automatically every day.



D.QoS portal: scoring and ranking of operators (live screen)



Mobile app: coverage map

Scoring and ranking

One global QoS score per operator, built from voice and data quality, with its history over time.

Benchmarking

Any two operators compared on the same KPI, technology and day, on the map.

Coverage maps

Radio coverage per operator for 2G, 3G, 4G and 5G, with the antenna map.

QoS delivered

Up to three high-level KPIs per operator and technology, in plain view.

Outage notifications

Instant notifications from the regulator when an operator reports an outage.

Surveys and feedback

Users report network issues and answer the regulator's surveys from their phone.

Two products, one chain of evidence

RPM SYSTEM

The engine behind the scenes. Hourly, cell-level monitoring and enforcement for the regulator, with restricted access.

D.QOS

The public interface. Daily, district-level results for the public and the regulator, openly accessible.

Operator scoring follows ETSI TR 103 559

PRODUCTS 03 AND 04 · BILLING INTEGRITY

Tariff Audit System

Is the customer charged correctly for what they actually used?

The Tariff Audit System (TAS) makes real, controlled calls, SMS and data sessions on regulator-owned SIMs, then reconciles each one against the operators' billing records, to ±100 ms and ±1 byte. Delivered by PNI with its technology partner Roscom.

Independent verification

The regulator's own measurements, not the operator's claims, anchor every audit.

Evidence-based enforcement

Evidence packs link each test event to the operator's unrated and rated records.

Automated auditing

Scheduled test campaigns run 24/7, with discrepancy alerts in near real time.

Traffic Monitoring System *The inside view of the operators' billing*

The Traffic Monitoring System (TMS) reads the operators' full CDR feeds and monitors subscriber usage and revenue against a library of controls, with exception reports when a value falls outside tolerance.

TAS tests from the outside, TMS monitors from the inside. Together they follow each event from the network to the bill.

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Dedicated to regulators

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Standards-based

Built on ITU-T, ETSI and 3GPP specifications.

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