

Pilot Pioneer v10.6

Mobile Network Testing, Verification and Troubleshooting Solution

Pilot Pioneer is a comprehensive laptop-based drive testing solution for initial tuning, 5G site acceptance, new feature validation, network troubleshooting and analysis, etc.

It supports the latest technologies and commercial testing devices, enabling measurement end-user quality of service (QoS) and improve quality of experience (QoE).

Pilot Pioneer supports mobile network lifecycle measurement and verification, from roll-out, optimization and benchmarking to network monitoring and troubleshooting.



Highlights

- Measures end-user QoS and QoE
- Proven drive test and measurement solution for over 20 years
- Supports latest devices and networks (2G – 5G NR)
- In-depth network testing and troubleshooting solution from roll-out to network monitoring
- Collects data for comprehensive post-processing and analytics insights

Solutions

Small Cell Validation

- Supports commercial testing terminals and modules
- Our customers: Intel, Nokia, China Mobile, etc.
- Supports 3U1D1S uplink subframe, with rate up to 680Mbps

VoNR/ViNR/VoLTE Measurement

- Automatic mobile to mobile and remote VoNR/ ViNR/EPS FB /VoLTE test
- Single and multi-channel POLQA voice quality testing solution
- Real-time SIP signaling and detailed decoding, supports RTP packet information collection, audio and video packet loss rate output, and real-time event detection output
- In-depth VoNR/ ViNR /EPS FB / VoLTE statistics report

5G Carrier Aggregation(CA) Test

- Qualcomm and HiSilicon chipset-based CA test
- High speed download for data services
- Real-time CA measurement and key events monitoring

Remote Test Automation

- Remote test control and automation to avoid repetitive manual errors
- Test automation with command-based test scripts via TCP/IP socket connection to Pilot Pioneer
- Custom API interface for specific needs



NB-IoT & eMTC Test and Measurement

- Qualcomm and HiSilicon chipset-based NB-IoT measurement
- Supports Ping and UDP iperf with AT/PPP
- Supports NB-IoT and Emtc reselection
- Supports eMTC switching test
- Supports network/band/ frequency/ area forcing for more testing scenarios

OTT Test from User Perspective

- APP Voice quality testing
- Enables autonomous POLQA MOS testing for off-to-shell commercial testing terminals
- Facebook, Twitter, Whatsapp, Instagram, Youtube, Tiktok, Skype, and Zoom application testing



* Pilot Pioneer supports the latest commercial Apple phones and Android-based devices, including Samsung, Huawei, Xiaomi, etc.

Features & Benefits

Single Site Verification

- Supports custom pre-defined testing scenarios
- Multi-dimensional KPIs, i.e. radio parameters, coverage map, peak rate of data service, EPS FB/VoLTE/CSFB
- Supports real-time acceptance report generation to preview the result faster and improve efficiency

Real-time KPIs Statistics

- Real-time statistics of duration, distance, network coverage and other KPIs
- Basic Statistics: test counts, status, success rate, delay, etc.
- Radio Parameters: the maximum, minimum, mean and median value of key parameters, total samples count, parameters threshold, CDF and PDF statistics, etc.
- Abnormal statistics: Quick troubleshooting capabilities for abnormal services, low MOS score, low speed, etc.

Drive Test

- Ideal for outdoor testing scenarios, i.e. city roads, highways, high-speed trains, scenic areas, etc.
- Offer embedded satellite maps, Google Map, Bing Map, Amap Map, Mapinfo, etc.
- Supports base station positioning, information management, search and quick positioning.
- Allow manual positioning when GPS signals are not available

Indoor Measurement

- Suitable for hotels, residential areas, elevators, airports, and bus station, etc.
- Supports multiple indoor map sources such as iBWave, standard floor plans, floor photo maps, etc.
- Pre-pinpoint and pinpoint with walk test to ensure the positioning accuracy
- Indoor test management and test data storage based on building floors
- Built-in specialized reports for indoor test

User-friendly Test Management

- Hard dongle license query and online upgrade
- Supports autonomous test
- Supports one-click backup and restore for testing projects
- Supports custom pre-defined testing scenarios
- Drag-and-drop adaptive indicator window and extensive shortcut buttons

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