

DATASHEET

TEMS™ Paragon

Streamlined mobile network benchmarking campaigns

Benchmark your mobile network against your competitors with TEMS™ Paragon

TEMS™ Paragon is a multi-device benchmarking solution that enables you to compare the service quality of your network to the competition. Its purpose-built user interface allows non-technical drivers to perform advanced network testing. TEMS Paragon is highly scalable, enabling you to test multiple use cases across all your competitors in a single drive test. While seamless integration to TEMS™ Cloud means testing can be managed, controlled and monitored in real-time by engineers back at HQ.

Compare your network to the competition with scalable multi-device support that allows you to benchmark and analyze multiple operators in a single drive test campaign

Centrally manage your benchmarking campaigns via TEMS Cloud which enables campaigns to be managed, controlled and monitored in real-time by engineers back at HQ



Improve your benchmarking efficiency with a purpose-built user interface that allows a single driver to perform advanced network testing

Benchmark customer experience by testing voice quality, OTT applications and user interactivity across competitors

Benchmark against out-of-country operators with ETSI-compliant test methodologies and shareable testing procedures

TEMS Paragon use cases

Competitor benchmarking

Perform deep market comparisons across the latest devices and popular OTT apps.

To consistently provide a competitive network, you need to measure subscriber experience across operators, devices, and services. TEMS Paragon's multi-device configuration, supporting both iOS and Android devices, along with in-depth service quality level testing including all the popular OTT applications, lets you perform a deep market comparison. Coupled with TEMS Cloud, for automation and analytics, you can significantly reduce your benchmarking costs by minimizing field effort.



Internal benchmarking

Truly understand ongoing network performance with regular benchmarking.

When deploying new network assets or optimizing those in place, you rely on a baseline view of your performance to measure your progress. TEMS Paragon, along with TEMS™ Discovery for post-processing of the data, allows you to compare network performance measurements across multiple bands, multiple device types and at different times, providing you the insight you need to truly understand how well you are meeting network coverage and performance improvement goals.



Global benchmarking

Understand how all your OpCo's are performing relative to each other.

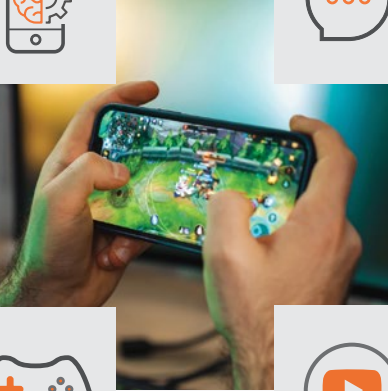
Global benchmarking, that is comparing your network to those in other countries, can be just as valuable as in-country benchmarking. TEMS Paragon's ETSI standards-based testing approach, coupled with the ability to follow the exact same test methodology and report in a standardized way, means two networks in different countries can be successfully benchmarked against each other. Useful if an operator group wants to understand the relative performance of all its networks across the world.




User experience testing

Accurately measure QoE for all native and OTT applications and services

Your network needs to successfully support a vast array of services, everything from simple text messages to services characterized by demanding requirements such as high bandwidth (e.g. 4K video streaming) or very low latency (e.g. e-gaming). TEMS Pocket’s user experience testing capabilities enable you to understand and improve the user experience for all applications and services. It includes solutions for native and OTT voice services, OTT applications, and on-device application control.




sQLEAR
Voice quality testing for VoNR, VoLTE & OTT voice




Generic OTT voice testing
OTT voice quality testing with a generic client approach



Interactivity Scoring
User interactivity testing with generic OTT service/app traffic patterns



Generic OTT media testing
OTT application testing with a generic framework approach



Take a generic OTT testing approach

These days, app and service performance is critical to satisfaction subscribers. However, it is not feasible to validate the performance of the thousands of apps and services available to ensure they are all performing well. A generic OTT testing approach, as employed by TEMS Pocket, provides a practical and cost-effective approach which closely mimics real apps and services. It delivers trustworthy results that are highly correlated to real-world testing, providing you with confidence that the network will deliver the expected user experience across all apps and services.

A few TEMS Paragon highlights



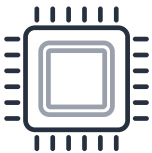
Extensive device support

Agreements with leading handset manufacturers including Samsung, OnePlus, Xiaomi, Sony, Asus and more enable Infovista to support full logging capability across a vast array of devices.



Support for multiple scanners

Support for PCTEL and Rohde & Schwarz scanners provides device independent RF measurements across multiple channels/bands/technologies and advanced capabilities such as mobile blind scan.



Comprehensive chipset support

Agreements with major chipset vendors including Qualcomm, Samsung, Huawei, and MediaTek means faster time to market for new devices and highly accurate Layer 3 message decoding.



Device monitoring

5G test cases are resource intensive and smartphones often respond by CPU throttling to protect themselves, negatively impacting test results. TEMS Paragon generates alarms to warn users of performance affecting device conditions so mitigating action can be taken.



On-device measurement

Measurements performed on handsets provide the closest alignment to actual end-user experience. TEMS Paragon can control applications installed on test phones to perform voice and data test scenarios.



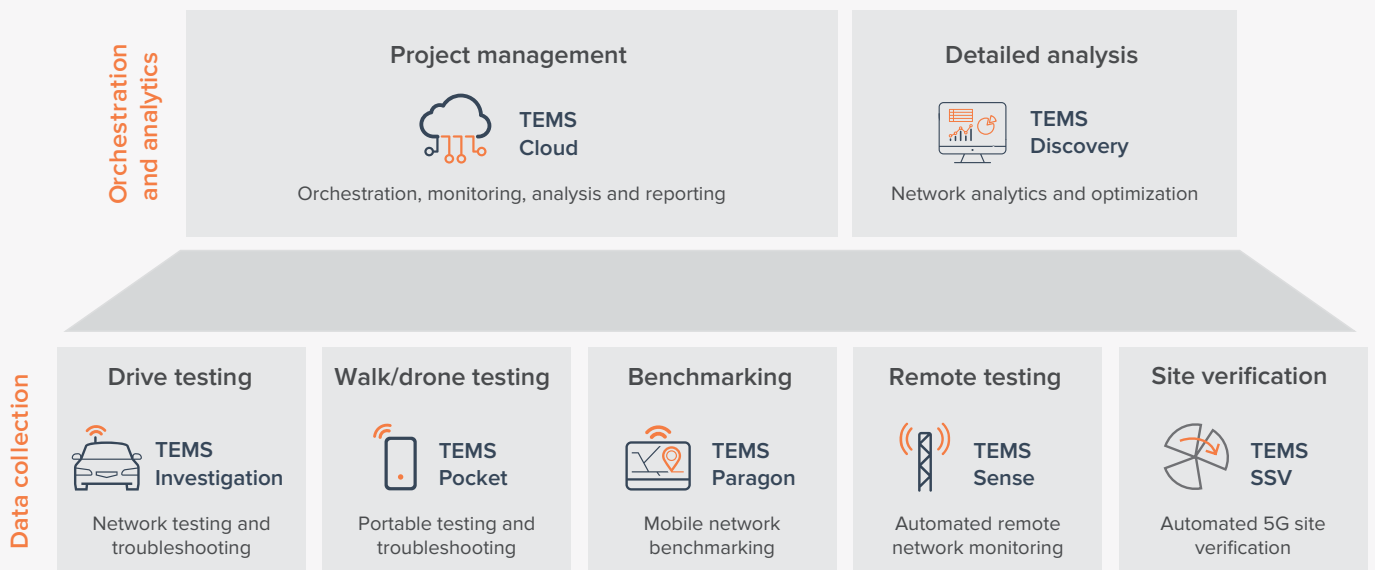
Service control designer

TEMS Paragon features a drag-and-drop service control designer for flexible and efficient creation of test scripts to automate and simplify data collection and service testing.

Part of the Infovista TEMS Suite for mobile network testing

The TEMS Suite is our portfolio of solutions that allow you to address every aspect of testing and troubleshooting your network from a subscriber’s perspective, whether it be just 5G or a combination of multiple technologies. If you are looking to verify the performance of new 5G sites, walk test strategic indoor locations, benchmark your network performance against your competitors, or any one of numerous other network testing use cases, TEMS has a solution to meet your needs.

- **TEMS Cloud** – manage your network test projects with real-time control and analytics
- **TEMS Investigation** – perform drive tests to verify, optimize and troubleshoot all your mobile network technologies
- **TEMS Pocket** – walk test indoor locations and drone test hard-to-reach places
- **TEMS Paragon** – streamline your mobile network benchmarking campaigns
- **TEMS Sense** – proactively monitor your wireless network services end-to-end with active testing
- **TEMS SSV** – automate site acceptance for faster 5G roll-outs with fewer personnel
- **TEMS Discovery** – turn your network test data into analytics and actionable insights for optimization





About Infovista

Infovista is the global leader in network lifecycle automation (NLA) for the next-gen networks era. With its unique NLA approach, Infovista allows communications service providers (CSPs) and enterprises to improve their network performance and customer experience, optimize their productivity, and reduce their costs, while maximizing return on their investments. Spanning the entire network lifecycle, Infovista's products and solutions leverage an open, integrated, cloud native portfolio that automates tasks, flows, analytics, and decisions to the greatest extent possible. More than 1,000 customers, including 400 Mobile Network Operators, around the world rely on Infovista to plan, design, deploy, test, operate, support, optimize, evolve, report on and monetize their networks.



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