



BENEFITS

- Improve troubleshooting processes and network performance.
- Accelerate the time to fault isolation.
- Reduce dependence on biased NEM-based metrics.
- Simplify decision-making and validation of problem root causes.
- Identify transient problems within actionable time periods.

TrendNavigate

Performance Management for 3G and LTE Access Networks

Deliver Timely Visibility to Traffic Radio Network Quality

TrendNavigate supports network investigation and performance monitoring with simplicity. Designed to handle large amounts of daily and hourly data collected from UMTS and LTE interfaces, TrendNavigate efficiently summarizes RAN performance in terms of accessibility, retainability, and mobility KPIs.

With around-the-clock RAN visibility, TrendNavigate assists operations and engineering teams in proactively identifying issues and accelerating the isolation of root cause. Using only daily top cell reports to reactively prioritize network congestion preoccupies network planning and engineering teams with problems that often fail to address the source of subscriber-facing issues. RAN insights made possible with TrendNavigate deliver timely, 24/7 visibility to traffic radio network quality.

Avoid Problems and Improve Efficiencies

Good network design and efficient utilization of resources is compulsory for the prevention of problems and optimizing RAN capacity. As LTE adds additional layers of complexity to these fundamental tasks, RAN Planning and Engineering teams have to move forward with clarity and confidence. TrendNavigate offers enhanced visibility and actionable intelligence to get the most out of the network and personnel.

Optimize and Validate CAPEX Spend

Adding RAN capacity often requires a significant investment, and operators are under pressure to make every purchase count. With comprehensive KPIs, TrendNavigate provides the statistics necessary to accurately characterize RAN performance with effective Operations Maintenance Counter (OMC) baseline capabilities that can guide network tuning recommendations to improve capacity.

Gain Real-time Actionable Views

TrendNavigate KPI dashboards serve as the launching point for problem investigation and capacity planning tasks by delivering a composite view of network performance over time. The dashboards are optimized for responsiveness using KPI aggregations for a quick, intuitive view of the whole network or user-defined area. Simple selection of alternative aggregation intervals allows for performance comparisons over time (days, weeks, months, or years) in order to accurately characterize persistent, periodic and transient issues. KPI Details and Cause Reports complement high-level performance views with failure distributions by network, element, and top worst-performing cells for impact analysis and prioritization.

Identify Compromised Coverage Areas

TrendNavigate Cell Benchmark Reports track the performance of single cells based on accessibility, retainability, and mobility KPIs. This information can reveal coverage and interference issues contributing to observed KPI degradation. With support for multiple KPIs and third-party OSS counters, multi-cell comparisons may be analyzed within a single report.

Differentiate Performance by Service

With the introduction of Voice and Video over LTE, service providers must differentiate RAN performance based on the services provided. TrendNavigate LTE enables this distinction with visibility to Radio Access Bearer (RAB) setup Failures and Drops per QoS Class Identifier (QCI) for a more accurate picture of the quality of experience for LTE services.

Address Complex Handover Scenarios

When analyzing handover performance, information about the serving cell is of equal importance as its relationship to neighboring cells. TrendNavigate's Cell Matrix capabilities enable root cause analysis for cross-interference issues when troubleshooting inter- and intra-RAT handover failures. Neighbor Management report options ensure ongoing success with quick isolation of configuration errors resulting in "Missing" and "Unused" neighbor cells.

Independent and Efficient Data Collection with GeoSoft RAN

Harvesting information directly from inherent element trace ports, GeoSoft RAN-based solutions combine data from multiple elements and vendors for use with TrendNavigate. Offering a vendor-independent view of RAN performance across deployed access infrastructures, mobile operators can readily address a variety of scenarios.

Application Highlights

- KPI dashboards enable swift interpretation of network behavior for a vendor-independent, 3GPP compliant view.
- Historical trend reporting delivers invaluable insights to uncover transient and periodic problems within an actionable time period.
- Drill-down workflows from KPI reporting to end-to-end control and user plane views in Iris Session Analyzer support clear identification of problem sources and performance impacts.
- Cell Matrix visualizations reveal how neighbor cells connect and interoperate for assessment of handover performance and neighbor misconfiguration.
- Drill-down paths allow for seamless investigation from top-level dashboards, matrix views, and failure cause reports to individual call details.
- OSS counter import and correlation capabilities extend application coverage for existing and proprietary vendor installations.
- User-defined alarms trigger notification of unacceptable KPIs and breached thresholds.
- Built-in management of sporadic "outliers" improves accuracy and minimizes false alarm conditions.

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