Groundhog

Agile 5G with CovMo™

FIRST-TO-MARKET 5G GEOLOCATION SOLUTION

The architectural complexities of 5G introduction challenge mobile operators to diminish costs while also accelerating their network deployments. CovMo™ has evolved to ensure a smooth and agile transition to 5G. The CovMo™ integrated multi-vendor geolocation platform ideally supports a seamless 5G services launch. It facilitates the planning and optimization of the 5G network during the initial NSA and SA phases and beyond. CovMo™ 5G most efficiently monitors and analyzes network performance to assure optimum customer experience.

FEATURES

Subscriber-Oriented Analysis with Hotspot Detection

Analysis subscriber density with data volume & throughput, to provide deep insight into network conditions to detect Hotspots and Notspots for the initial 5G network build-out.

Full Spectrum Analysis Covering mmWave

Performance analysis of each frequency – crucial for the monitoring of mmWave frequencies.

Service-Centric Monitoring with Network Slice Differentiation

Traffic differentiation by services and locations to monitor QoS – imperative for the visualization of 5G-NR services (eMBB, URLLC, and mMTC), as well as in 5G SA architecture, KPI monitoring can be further aggregated in each Network Slice.

Multi-RAT Connectivity & High Mobility Experience

Full set of KPI analysis for all the scenarios of Multi-RAT Connectivity (ENDC, NEDC, MRDC, etc.) and Mobility (Intra-frequency HO, Inter-frequency HO, IRAT, MCG Cell Change, SCG Cell Change, etc.)

Device Type Analysis with UE Capability Intelligence

In-depth visibility into end-user and machine-type devices to assure 5G service reliability and high availability, in support of opco customer SLA's.

Cutting Edge Support for each Technological Evolutions

Continuous market leading support throughout the evolution of each technology: LTE → DSS → NR-NSA → NR-SA. With full set of KPI Analysis for SA; including those for the analysis on UE RRC Inactive Mode, PDU Session, and VoNR.

BENEFITS

- Efficiently make 5G site planning decisions while reducing CAPEX and OPEX during the introduction phase and throughout the lifecycle.
- Automated detection of problematic areas, Fake 5G, missing ENDC configurations and more.
- Monitor the network end-to-end and understand subscribers Quality of Experience (QoE) to enforce supplier and maintain customer SLA.
- Significantly decrease time to troubleshoot and optimize network performance during 5G rollout and subsequent operations.
- Drastically minimize reliance on time-consuming and costly drive and walk testing.

DIFFERENTIATORS

Highest Geolocation Accuracy & System Performance • **Lowest Possible Data Processing Latency, Real-Time Exports and More** • **Leading Geolocation Solution from 2G to 5G** • **Support World's First E2E Fully Virtualized Network**

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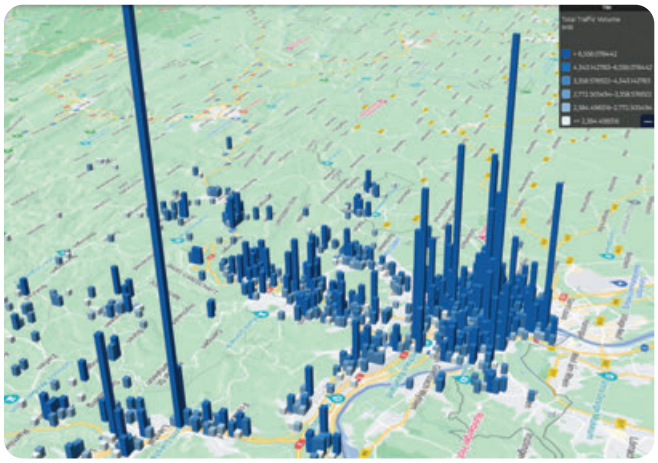
CovMo™

GAIN VISIBILITY AT EVERY 5G PHASE TO ENSURE THE BEST QOS/QOE



1 PLANNING & DESIGN

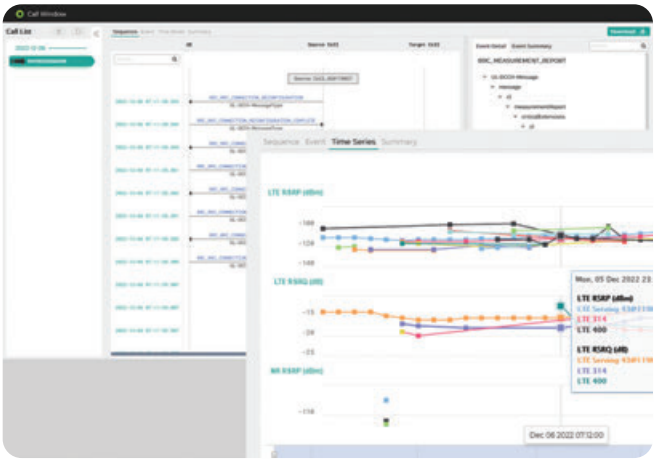
Guarantee Service Availability

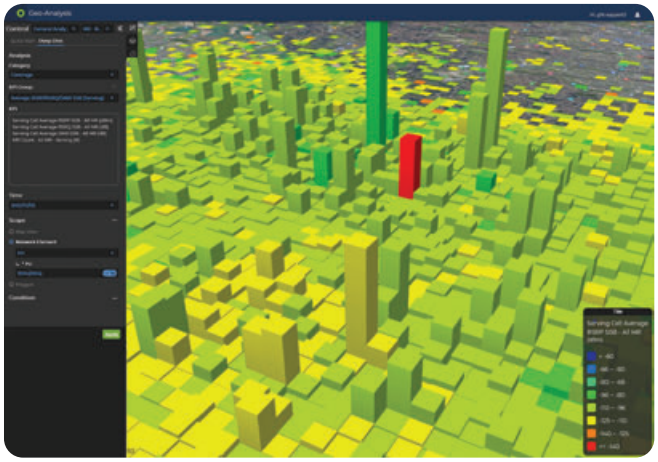
CovMo™ provides operators with the required visibility to build a robust interdependent 5G NR access and 4G core network. Operators can detect traffic hotspots, where the planned maximum 4G capacity has been exceeded; to reveal areas of poor subscriber experience to precisely identify where to deploy 5G first. CovMo™ 5G differentiates between sites that might only require optimization, with those requiring more capacity - and is used to assure compliance with 5G SLAs including high service availability.

2 IMPLEMENTATION & TROUBLESHOOTING

Speed Up Commercial Readiness of 5G Sites

CovMo™ offers near real-time health site reports to validate 5G network design implementations. For instance, it geolocates interference and dominant cell, allowing accurate rectification of increased interference due to the densification of 5G networks. In addition, CovMo™ is programable to automatically detect and alert regarding underperforming network elements and regions, which allow operators to troubleshoot failures immediately, speeding up the problem resolution of commercially available sites.





3 MONITORING & OPTIMIZATION

Deliver Superior Customer Experience

CovMo™ 5G customer and service-centric monitoring capabilities allow operators to have a clear and immediate understanding of the network performance and the subscriber's 5G QoE. Operators can leverage CovMo™ geolocated network KPIs to analyze and fine tune end-to-end 5G network interworking with legacy networks, consequently, boosting 5G performance and the delivery of superior customer experience continuously.