

RAN SOLUTIONS

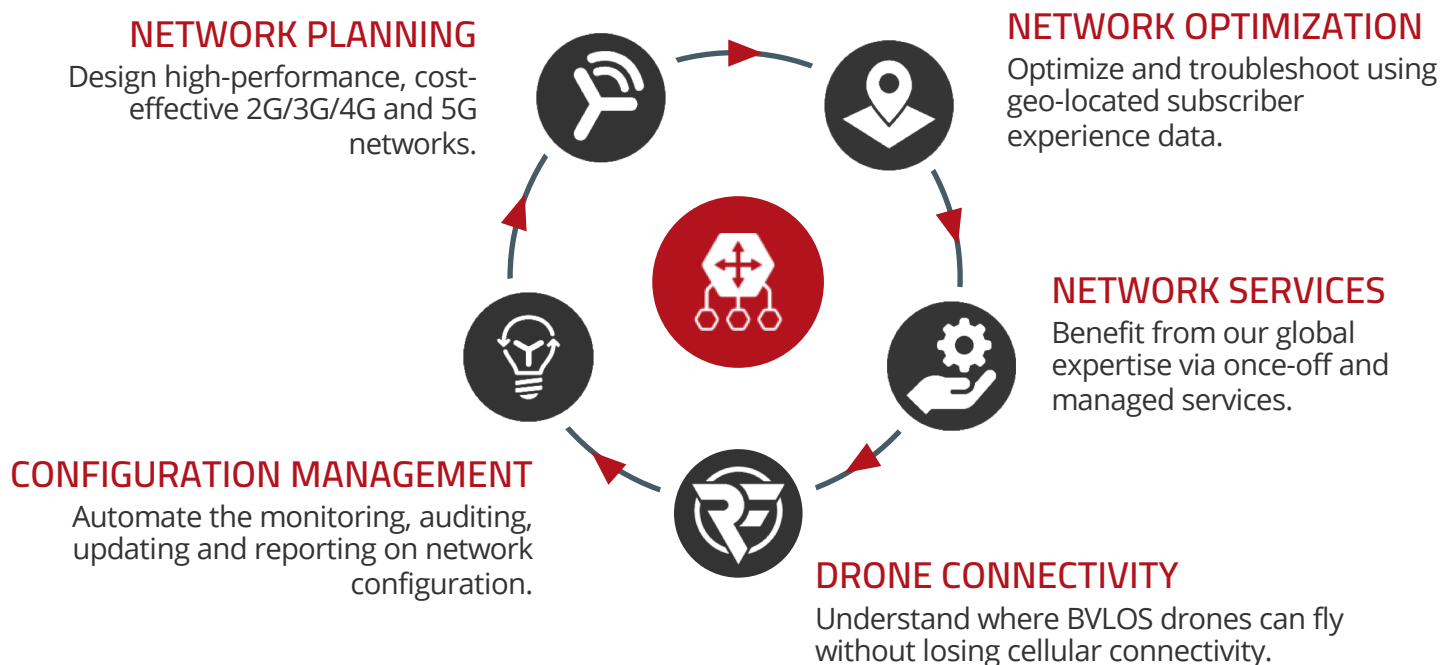




Planning, configuring, analyzing and optimizing wireless networks and their expansions are complex and resource intensive tasks, especially with the introduction of 5G and new IoT devices and services.

With quality of service being a key differentiator, CSPs are only as good as their network performance. Maintaining network quality while expanding coverage, adding capacity, and introducing new technologies and services is a challenging undertaking.

With intelligent solutions to address each stage of the network lifecycle, we help service providers deliver maximum network performance and ensure efficient CAPEX utilization.



TEOCO is a network engineering tools market leader

For over 5 years, Analysys Mason has ranked TEOCO as a leading vendor of network engineering software tools.

5G

The ASSET Suite is a comprehensive planning portfolio designed to deliver cost-effective high performance networks for 2G/3G/4G and 5G.

The products within the ASSET Suite cover radio, backhaul and capacity planning across a wide range of technologies. Key to the success of the ASSET suite of products is its ability to seamlessly integrate into your wider business, delivering business process automation and improving overall planning efficiency and accuracy.



Understand traffic demand: by leveraging crowdsourced data, geo-located subscriber data, PM data and CM network data



Address all aspects of planning: macro, small cell, backhaul, multi-height coverage and capacity and automated design optimization



Deliver 5G: validate business cases, model scenarios and plan 5G networks



ASSET
Radio



ASSET
Backhaul



ASSET
Design



ASSET
Web



ASSET
Update



ASSET
Geo

NETWORK OPTIMIZATION



TEOCO's Mentor Suite is a comprehensive portfolio of products delivering advanced subscriber geo-location analytics and network optimization by leveraging network measurements and geo-location algorithms.

The products within the Mentor Suite are each tailored to meet the needs of specific groups of users. They are multi-technology, covering 2G, 3G, 4G and 5G, and support all the major network equipment vendors. Our best-in-class geo-location algorithms employ innovative machine learning based positioning techniques. Automation and closed-loop capabilities deliver improved operational efficiencies and the Mentor Suite is fully GDPR compliant.



CogniSense

Multi-technology network monitoring, analytics, structured troubleshooting and reporting.



Mentor

Multi-technology user-driven troubleshooting and automated cluster-wide optimization.



Forte

Automated GSM frequency planning, neighbor list optimization and spectrum refarming.



Mentor Server

Single common backend for data collection, system monitoring, administration and APIs.

CONFIGURATION MANAGEMENT

SmartCM is a configuration management and site integration tool. It maintains network integrity by automating the monitoring, auditing, updating and reporting on cell site configurations.

As networks are expanded and optimized, it is critical to validate that configuration changes made to the Radio Access Network (RAN) are accurate. This helps ensure a healthy network and excellent customer quality of experience are maintained.

SmartCM allows engineers to monitor and improve network quality by providing visibility to the live network configuration and comparing it against the desired network baseline. This highlights configuration discrepancies – a primary cause of poor network performance. And is able to generate error-free site integration transcripts at the click of a button, significantly reducing engineering effort during network deployments.

Additionally, SmartCM ensures network integrity is maintained by continuously auditing and monitoring all network changes made by engineers, tools, and even managed service providers. It is vendor and technology-agnostic, supporting GSM, UMTS, LTE and 5G network infrastructure from all the major network equipment vendors.

SmartCM provides a full range of workflow capabilities with decades of expertise built-in, saving CSPs and network equipment manufacturers massive amounts of time and countless headaches.



DELIVER NETWORK QUALITY

Resolve configuration discrepancies to improve QoE



IMPROVE NETWORK OPERATIONS

Understand the impact of network misconfiguration



INCREASE ENGINEERING EFFICIENCY

Identify and prioritize configuration problems

NETWORK SERVICES

RAN Services delivered as packaged solutions; a powerful combination of tools, methodology and people, leveraging global best practices.

We deliver a competitive advantage to your engineering team by combining our advanced vendor agnostic solution sets for network planning, optimization, configuration and refarming, with our years of expertise and well-defined methodology, all tailored to your timeframes and according to your needs. Our extensive multi-vendor experience allows us to share best practices from market leaders around the globe, and our offshore capabilities help ensure our deliveries are timely and cost-effective.

PLANNING AND EVOLUTION

Planning services for all network technologies and layers, including VoLTE, IoT, 5G and network consolidation.

OPTIMIZATION AND CAPACITY

Proactive cluster tuning, new feature activation and ROI based capacity expansion planning.

AUDIT AND OPERATIONS

Subscriber/network audits and analytics, customer complaint handling and vendor management.

SPECTRUM REFARMING

Repurpose existing, often under-utilized spectrum for use by other technology layers.

MANAGED SERVICES

Managed Services leveraging TEOCO's software and expertise, typically underpinned by multi-year contracts.



"TEOCO's consultancy services business represents a competitive strength as operators look to contract out many complex aspects of multi-technology network operations and planning." – Analysys Mason



AirborneRF is TEOCO's connectivity data platform for beyond visual line-of-sight (BVLOS) drone operations in cellular networks, providing valuable information about where drones can fly without losing wireless connectivity.



Flight Planning

AirborneRF takes into account both national airspace control and cellular network coverage to define an air safety compliant, three-dimensional corridor where UAV's can be reliably controlled.



In-flight Monitoring

Drone flights are monitored by AirborneRF. Measurements of real-world conditions during flight can be used to instantly recalculate routes, if necessary, to ensure safe completion of the flight.



Physical Network Audits

BVLOS drones are an ideal solution for carriers to perform physical site audits (antenna heights, azimuths etc.) AirborneRF can be used to plan and coordinate the flights required to complete these audits.



Monetize Business Cases

Demonstrate network capabilities to companies that are considering UAV technology for BVLOS applications, such as first responder reconnaissance, package delivery, infrastructure inspections, and so on.

ABOUT TEOCO

TEOCO is a leading provider of analytics, assurance and optimization solutions to over 300 communication service providers (CSPs) worldwide.

Our solutions enable the digital transformation of CSPs while enhancing their network QoS, improving their customer experience and reducing their operational costs.

Through advanced analytics, TEOCO products provide actionable and measurable insights into network and customer behavior. This includes the optimization, effective monetization, and delivery of new and existing services, such as 5G.

Our commitment to network flexibility and agility makes TEOCO the obvious choice for CSPs looking to maximize the revenue potential of 5G investments and capitalize on new opportunities tied to the emerging Internet of Things (IoT).



**Global
Footprint**



**Extensive
Portfolio**



**Proven
Solutions**



“TEOCO’s market leading position in Engineering Systems reflects the success of its extensive network planning and optimization solution set, built by some very cohesive acquisitions and integrated effectively to form a leading portfolio”

- Analysys Mason