Mentor

aircom
A TEOCO Company

Mentor is a GIS-based solution leveraging network measurements and geolocation algorithms to deliver advanced network troubleshooting, optimization, and subscriber experience analytics across 2G, 3G, 4G, and 5G networks.

With multiple technologies, vendors, and layers within a mobile network, engineers need an end-to-end solution that can analyze, troubleshoot, and optimize both RAN network performance and the subscriber experience.

Mentor provides advanced user-driven analysis and troubleshooting of RAN performance. It also delivers cluster-wide optimization thanks to its powerful network measurement-based optimization engine.

Gain insights across devices, subscribers, and locations, underpinned by our geolocation engine. Mentor delivers market-leading accuracy by leveraging innovative machine learning positioning algorithms based on topographical maps and enrichments such as transportation infrastructure and 3D building data. And when it comes to subscriber analysis, Mentor is fully GDPR compliant, with built-in functionality for securely protecting the privacy of your customers.

Optimize your network

Geolocated Coverage Maps

Understand indoor/outdoor, coverage, throughput, and problems in network deployments.

Classification of Traffic

Where is the most important traffic? Where are the issues observed?

Virtual Drive Tests

Reduce drive tests, measure real-life subscriber experience, achieve 50% OPEX savings.

Maximize Throughput

Maximize CAPEX effectiveness, analysis, and optimization to maximize throughput.

Geo-Analytics and Troubleshooting

By leveraging geolocated call trace data, Mentor allows engineers to conduct advanced and dynamic investigations into network performance issues across multiple technologies from 2G to 5G. Ad-hoc filtering for map queries and the ability to apply mathematical functions to multiple map layers enables engineers to customize maps on the fly, thereby showing only the most pertinent information to their investigation.
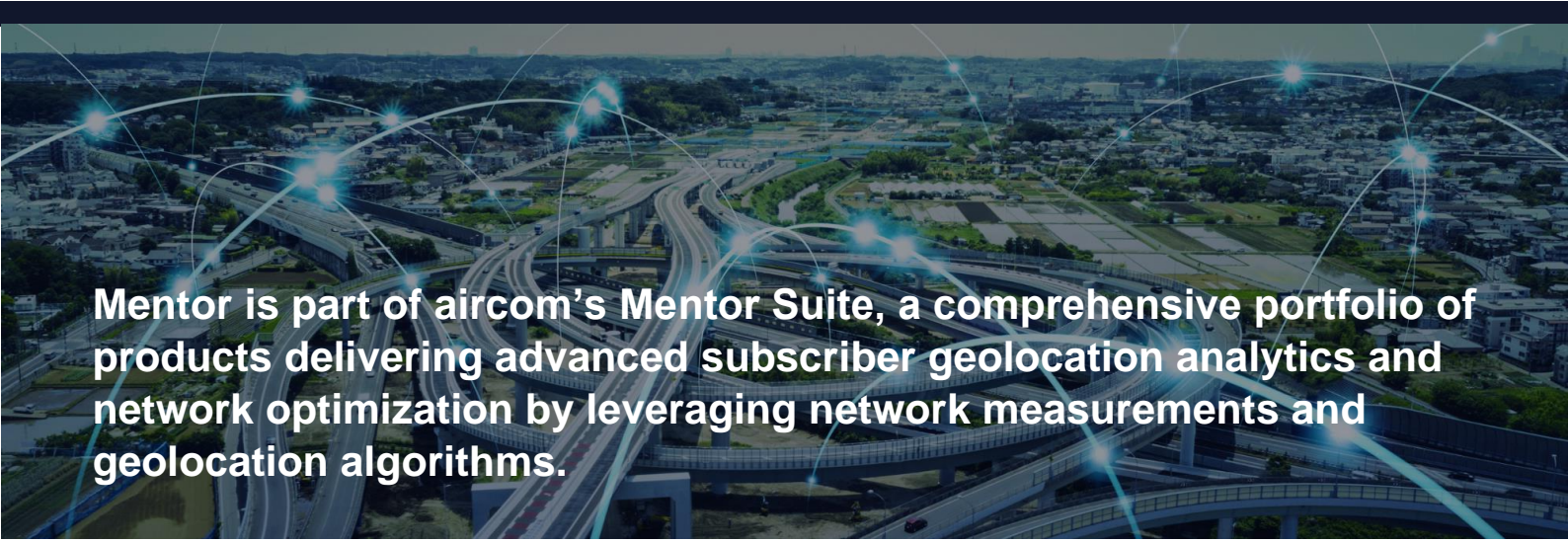
Cluster-Wide Optimization

To complement its geo-analytics capabilities, Mentor provides automated cluster-wide optimization underpinned by traffic-oriented algorithms. Capabilities include load balancing, RSI optimization, VoLTE SRVCC optimization, scrambling code / PCI conflict resolution, neighbor list optimization, antenna parameter optimization (power, tilt and over undershooting), paging area optimization, swapped sector analysis, and more. Optimization workflows are wizard-driven and provide current vs. optimized plan analysis.

Automation, Scalability, and Integration

Automatic Problem Detection highlights geographical polygons where performance KPIs have not been met. The detected problems are assigned a severity level, enabling engineers to focus on the most service-impacting ones first. Hadoop support ensures the scalability and application performance required to support the largest and most complex networks. A collection of APIs stream data to 3rd party applications and customer data lakes.

Mentor is part of aircom's Mentor Suite, a comprehensive portfolio of products delivering advanced subscriber geolocation analytics and network optimization by leveraging network measurements and geolocation 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 geolocation 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.
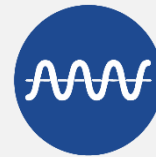
CogniSense

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 re-farming.

Mentor Server

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

Aircom is a network engineering tools market leader

About Aircom

Aircom is a leading provider of RAN analytics, design, and optimization solutions to communication service providers worldwide.

Aircom is a brand that you have known and loved for many years, now backed by the financial strength of TEOCO.

For over 25 years, aircom has enabled mobile operators to automate how they plan, configure, and optimize their networks. This is even more critical when dealing with complex services like fixed wireless access (FWA), 5G standalone, private networks, and IoT, where everything needs to work in harmony to deliver a supreme customer experience. Through advanced analytics, our products provide actionable and measurable insights into network and customer behavior.

Cutting-edge products and services.
Market-leading solutions for addressing today's complex RAN environments.

Innovation is in our DNA.
We have the latest AI/ML-powered algorithms, automation, and new services to revolutionize your RAN.

Trusted by the world's leading service providers.
With 125+ customers in 100+ countries, we have the knowledge and experience you're looking for.

With decades of experience and a customer list that spans the globe, aircom helps its customers improve service quality, resolve network challenges, automate processes, and establish a competitive edge.

Trusted globally

2000+	125+	100+
Users logins into aircom tools daily	CSPs run their networks using aircom tools	Countries with active aircom tools & services