



# RANAdvisor™ — RANScope Solution

Cost-effectively deploy and optimize your network

Service providers are constantly challenged by the increase in mobile data use. Success for operators is not just about growing the network, quickly adding coverage and capacity—it also requires cost-effectiveness. Providers and their partners need solutions that help them be agile and efficient when deploying and optimizing wireless networks.

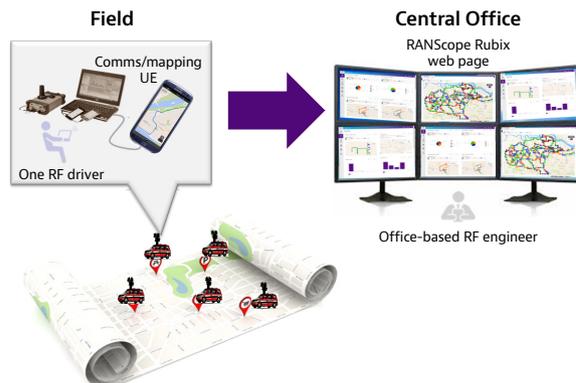
The Viavi RANAdvisor RANScope solution helps customers significantly reduce OpEx by reducing the number of resources needed for a successful drive test. Leveraging the cloud-based Rubix™ analytics engine, drive-test progress and results can be analyzed in near-real-time from the back office—making experienced engineers far more productive. RANScope delivers the insight for engineers to quickly identify and resolve network problems.

## RANScope Remote Monitor

By combining a central monitoring capability with a mobile mapping heads-up display, a single RF driver can execute the RF drive while a single, skilled RF engineer can monitor the progress of several RF drivers from a convenient, central location.

The three key components of the RANScope solution are:

- RANScope Android mapping application
- RANScope communications tray application
- RANScope Rubix cloud application for central visualization of results



### Key Benefits

- Lower OpEx by reducing the number of experienced resources deployed in the field
- Let back-office engineers identify issues and troubleshoot them quickly
- Minimize repeat data-capture drives with near-real-time data processing
- Reduce training costs with a simple setup and an easy-to-use interface
- Scalable pay-as-you-go model gives flexibility and control over OpEx

### Key Features

- Isolates backhaul for measurement data
- Uses a heads-up mapping display with simple start/stop control of the drive tool
- Provides near-real-time map locations of remote drive-test units and a breadcrumb trail of progress
- Shows backhaul connection status with Device Connectivity Heartbeat
- Displays key RF KPIs (such as strength, and signals quality) along with data sequencer test status

## RANScope Android Mapping Application

The RANScope Android mapping application provides a simple-to-use interface with a built-in drive-test start/stop control. This lets a driver focus on the road without worrying about the RANAdvisor software. The "Heads-Up" map display makes it easy for the driver to follow the pre-planned drive route and the route color change identifies which sections of the route have been completed. The driver does not need to directly interact with the laptop PC and, for safety, the screen is blacked out during the drive.

## RANScope Communications Tray Application

The RANScope Tray application lets RANAdvisor connect to the RANScope Rubix cloud service through a dedicated backhaul. The detailed drive test log is collected locally on the PC while an optimized subset of measurement data is sent to the cloud-based dashboard.

## RANScope Rubix Cloud Application

A cloud-based display engine maps the location of remote drive-test units and shows a breadcrumb trail of progress, giving visibility to the RF engineer at the central office. A heartbeat backhaul connection status lets the driver and the central-office engineer quickly resolve any data collection issues.

Map and line chart views show drive progress and key RF parameters such as serving cell ID, RSSI, RSRP, RSRQ, RSCP, RxLEV, and RF KPIs depending on the phone technology in use.

## RANScope Rubix Cloud Service

The RANScope Rubix service is all you need to enable RANScope on your RANAdvisor product. It is available on a pay-per-use model, licensed by the number of unique mobiles sending data to the Rubix server.



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