

## **R&S MobileLocator from Rohde & Schwarz: efficient interference hunting in urban areas**

**The R&S MobileLocator from Rohde & Schwarz offers new ways to quickly and efficiently locate interference in the radio spectrum. The benefits of this innovative concept become especially apparent under difficult urban conditions. Integrating it into the R&S ARGUS standard solution for ITU-compliant spectrum monitoring makes it possible, for the first time, to map the entire workflow in a single application.**

Munich, March 8, 2016 — Interferers have to be eliminated to ensure seamless radio services such as wireless communications, radio and TV. Regulatory authorities detect such interferers and locate their emitters based on the transmit frequency. Around the globe, Rohde & Schwarz mobile spectrum monitoring systems are used for this purpose. Users in specially equipped DF vehicles rely on R&S ARGUS software. Adding the R&S MobileLocator option now allows them to quickly locate the source of a detected interferer without the need for extra hardware. R&S ARGUS maps the entire spectrum monitoring process – scanning of the frequency band, detection of critical signals based on reference data, analysis of the transmitter, locating and reporting – in a single application.

The R&S MobileLocator algorithm leverages statistical analysis to filter the bearings of interference frequencies. It discards irrelevant readings. This is especially relevant in urban areas with heavy multipath propagation, i.e. where reflections off buildings cause misleading signals. R&S MobileLocator automatically detects and locates signals in the frequency range from 20 MHz to 8.2 GHz. R&S MapView displays probability heat maps (clouds) over a precise map of the area to help operators locate signal sources quickly and efficiently.

Rohde & Schwarz has been globally successful in the spectrum monitoring field for decades. The company's stationary and mobile system solutions enable regulatory authorities worldwide to carry out their work efficiently. The solutions meet all applicable requirements and recommendations of the International Telecommunication Union (ITU) – the United Nations (UN) agency responsible for regulating the use of the frequency spectrum.

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**Rohde & Schwarz**

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