



*R&S High Performance Drive Test System: GSM/UMTS/CDMA2000 Scanner, 4x mobiles, QoS (Network-Qual., Data Qual., Speech Qual. PESQ-MOS), Interference, missing neighbours, Handover analyzer, etc. Based on industrial PC with 12Vdc supply.*



*R&S Suitcase: GSM/UMTS/CDMA2000 Scanner, 4x mobiles, GPS, QoS (Network-Qual., Data Qual., Speech Qual. PESQ-MOS)*

# Drive Test Solutions by Rohde & Schwarz – complete systems for QoS measurements



The complexity of mobile communication networks is increasing drastically. Beside the classic GSM operation used since the early 90ties a lot of extensions have been implemented into the networks. There are in operation new technologies such as GPRS, EDGE, UMTS (WCDMA), HSDPA, HSUPA, which mainly have been used for the provision of high data throughput.

Besides still the speech quality of the communication is an important factor.

Lots of mobile networks are in operation, competition is increasing in every European country. Consequently the classical drive test tools are used today for a parallel, simultaneous measurement of coverage and QoS data. Besides also benchmarking tests between the various networks need to be performed.

Rohde & Schwarz Drive Test Systems are

available in various mechanical designs, always tailored for the needs and best benefit of the user.

Due to the complexity of the networks nowadays drive tests are becoming quite expensive. Consequently in a single measurement everything that could be measured has to be measured. So, practically all the measurement data are available for evaluation in a post process, without any lack of field data.

For all the QoS measurements Rohde & Schwarz algorithms are based on ETSI standards and ITU recommendations. For the Speech Quality test the Rohde & Schwarz drive test solutions are based on OPTICOM's PESQ algorithm with a MOS presentation.

*Please find out more about these solutions at the 3GSM Congress 2007, booth no. 1C50 or under [www.rohde-schwarz.com](http://www.rohde-schwarz.com).*