T&M Portfolio Speeds Successful Rollouts of LTE-FDD and TD-LTE Networks

The first LTE-FDD and TD-LTE networks are being rolled out in Europe, the USA and in Asia. These new wireless communications standards have extremely high data rates – up to 100 Mbit/s – that allow high-speed mobile internet access. Rohde & Schwarz offers the T&M equipment to ensure the rapid deployment of LTE-FDD and TD-LTE. The company has a complete product portfolio for developing and manufacturing chipsets, user equipment and infrastructure as well as for network planning, setup and monitoring. Rohde & Schwarz presents its solutions for LTE at the Mobile World Congress in Barcelona (hall 1, booth 1D33).

Generators and analyzers for the development and production of RF components, base stations and mobile user equipment Rohde & Schwarz offers a wide range of signal generators and signal analyzers to meet the development and production needs of manufacturers of RF components, base stations and mobile user equipment. The instruments are used wherever signaling is not required. The R&S SMU200A high-end vector signal generator and the R&S SMBV100A vector signal generator can generate nearly every type of standard-compliant LTE signal. The R&S SMU200A can carry out performance tests on receivers with fading and noise. The R&S FSQ high-end signal and spectrum analyzer is available for signal analysis and the R&S FSV for general-purpose applications.

The R&S CMW500 wideband communication tester is the ideal solution for all phases of the development and production of chipsets and wireless devices. Its unique platform concept makes the R&S CMW500 suitable for protocol, RF and conformance tests. This multistandard platform, which has already established a worldwide presence, supports LTE-FDD and TD-LTE as well as all current cellular and non-cellular standards. In production, the R&S CMW500 performs alignment and verification up to 10 times faster than conventional solutions. The R&S CMW500 handles signaling and non-signaling tests. Both test concepts are used in production, making the R&S CMW500 a safe investment.

The R&S TS8980 from Rohde & Schwarz is a scalable RF test system for developing LTE capable wireless devices. The system's smart design, providing both transmitter and receiver tests, frees manufacturers from investing time and money to develop their own test systems. Manufacturers and test houses can use the R&S TS8980 to perform general development tests as well as precompliance and conformance tests.

Rohde & Schwarz offers an extensive line of portable instruments for installing and servicing LTE networks. The R&S ZVH cable and antenna analyzer offers superior operating convenience. With the R&S ZVH, installation teams can set up significantly more antenna systems in the same amount of time compared to the competition. When more in depth analysis capability or LTE signal demodulation is

required, users can opt for the R&S FSH4 and R&S FSH8 handheld spectrum analyzers. The portable R&S PR100 receiver can be used to locate interference sources.

Using the R&S TSMW scanner and the R&S ROMES drive test software, operators can confidently plan, expand and optimize their LTE networks. The scanner supports both stationary and mobile applications. When rolling out large-scale networks, base station operators and manufacturers will take advantage of the scanner's high degree of automation. The R&S TSMW also boasts high sensitivity and measurement speed and it can maintain this speed even when measuring different technologies in parallel.

3GPP Release 9 features such as positioning reference signals are initially supported from a signal generation perspective. Rohde & Schwarz has an extensive LTE-Advanced program and has published an application note dealing with this technology. Features such as carrier aggregation are supported on signal generators and spectrum analyzers. Multicarrier ACLR measurements on up to five aggregated 20 MHz component carriers are already possible using basic instrument functions on signal and spectrum analyzer solutions.

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