

## **Tektronix Adds New RFID and HSUPA Test Software for Real-Time Spectrum Analyzers**

### **New Capabilities Designed to Address Advances in Wireless Devices**

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Tektronix, Inc. , a leading worldwide provider of test, measurement and monitoring instrumentation, introduced new software measurement capabilities to support digital RF tests using the WCA200A, RSA3300A and RSA3408A Series Real-Time Spectrum Analyzers. The new software provides test engineers with easy-to-use analysis tools that test RFID standards, 3rd generation mobile phone technology including High Speed Uplink Packet Access (HSUPA), and the Project 25/Mobile Land Radio standard for digital two-way wireless communication. The new measurements help test engineers take-on the challenging issues associated with the growth of digital RF technologies in wireless communications.

The advance of digital RF technologies, spurred by increasing consumer demands has led to rapid growth in wireless communications. However, test engineers face unique problems since digital RF signals carry complex modulation and are variable over time, changing from one instant to the next, hopping frequencies, bursting, spiking briefly and then disappearing. These transient and time varying transmission techniques help RF devices avoid interference and maximize peak power. The new Tektronix software measurements for Real-Time Spectrum Analyzers expand the award winning capabilities to an even broader range of standards and applications.

"Digital RF creates the need for test tools whose capabilities mirror the time-varying nature of today's signals," said Rick King, Vice President, Real-Time Spectrum Analyzer product line, Tektronix. "Real-Time Spectrum Analyzers dramatically improve customers' ability to troubleshoot RF systems by providing insights into problems with their design. The new software measurements for RFID and HSUPA provide new capabilities for engineers. Customers will be able to capitalize on these capabilities in order to facilitate and expedite design characterization, system integration and validation to industry standards certification for emerging technologies used in a variety of devices from simple RFID tags to complex HSUPA/HSDPA systems."

Interoperability continues to be a significant issue in the wireless world. With more RFID standards & devices, and with the prospect of additional RFID standards being developed, interoperability is a key issue in RFID work. To help ensure interoperability, Tektronix has expanded RFID support to include ISO14443 (Type A and B) and legacy support for EPCglobal Gen1. Only the Tektronix Real-Time Spectrum Analyzers offer patented frequency domain trigger capability, unique capture capability, and powerful time correlated multi-domain analysis features to help designers understand the full range of RFID interrogator and transponder behavior.

Adding to existing support for High Speed Downlink Packet Access (HSDPA), Tektronix is now offering support for HSUPA 3GPP Release 6. This allows test engineers to monitor the uplink channel and check signal quality such as Error Vector Magnitude (EVM) and Code Domain Power. In addition, engineers can check the interaction between the base station and the handset using a Tektronix unique gain ratio view and codogram to enable the engineer to monitor power consumption, and validate total system operation.

The new capabilities also support the analysis of C4FM modulation as used in Project 25, an industry standard for the manufacturing of interoperable digital two-way wireless communications products, created to improve radio spectrum efficiency. Project 25 is becoming increasingly important in the modern era to

address communication among various emergency-response agencies. The software offers new standard measurements as well as troubleshooting capabilities for the Real-Time Spectrum Analyzers.

#### About Tektronix

Tektronix is a leading supplier of test, measurement, and monitoring products, solutions and services for the communications, computer, and semiconductor industries -- as well as military/aerospace, consumer electronics, education and a broad range of other industries worldwide. With 60 years of experience, Tektronix enables its customers to design, build, deploy, and manage next-generation global communications networks, advanced and pervasive technologies. Headquartered in Beaverton, Oregon, Tektronix has operations in 19 countries worldwide. Tektronix' Web address is [www.tektronix.com](http://www.tektronix.com) .

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