

# **MissionCritical Communications, Radio Resource International, and Public Safety Report - wireless voice and data communications for mobile, remote and public safety operations**

## **PSCR Signs More Vendors to Supply Gear to Broadband Demo Network (3/18/11)**

Several more vendors have announced their participation in the Public Safety Communications Research (PSCR) 700 MHz broadband demonstration network.

Aeroflex entered into a cooperative research and development agreement (CRADA) with the U.S. Department of Commerce program and is supplying a test mobile system for Long Term Evolution (LTE) network infrastructure. The first call was completed successfully on the LTE network using an Aeroflex TM500 Test Mobile with an Alcatel-Lucent base station. Alcatel-Lucent was the first vendor to supply equipment to the program.

Network robustness is being tested to make certain the network can handle sudden spikes in network traffic during emergencies, as well as potential heavy loads in sparsely populated areas. "In an emergency, hundreds of first responders will simultaneously begin using the network with different levels of access and priority. These unique public-safety scenarios necessitate testing the type of real-world network usage that can only be properly emulated with the TM500 test mobile system," said Oleg Fishel, Aeroflex Test Solutions North American marketing manager.

CommScope is engaged with the demonstration project to test the interoperability of next-generation public-safety networks and equipment. The company's portfolio of Andrew Solutions wireless products, including RF feeder lines, base station antenna systems and cable assemblies, are used in the Boulder, Colo., network. Andrew base station antennas are the only antennas used at the demo network sites, company officials said.

"The PSCR demo network was designed to create a totally interoperable, broadband public-safety network across the United States, and we are proud to be contributing the RF path antennas and cables that are making it possible," said Paul Bell, senior vice president and general manager, CommScope.

LG subscriber units are also being used on the demonstration network, said Andrew Thiessen, PSCR lead electrical engineer.

The network consists of three sites on which various stakeholders and end users can

test the interoperability of their equipment. Only PSCR and CRADA staffs are accessing the network, said Dereck Orr, PSCR program manager.

The following companies also had CRADAs with the PSCR:

- Anritsu
- IP Wireless
- ISCO
- LG
- US Cellular
- Wavesat
- Nokia Siemens
- Cisco
- Ixia
- Ericsson
- T-Mobile
- Agilent
- Harris
- EDX
- Syniverse
- Powerwave
- Talley
- Motorola Solutions

The agreements don't necessarily mean the companies have equipment operating on the network, but at a minimum are agreements to work together, Orr said.

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