

Motorola Accelerates TD-LTE Commercialization with Success in Trials

Motorola's extensive expertise in LTE commercialization, TDD technologies experience and strong global R&D networks bringing TD-LTE trials closer to market reality in China

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BEIJING – 06 Aug 2009 – [Motorola](#), Inc. (NYSE: MOT) [Home & Networks Mobility](#) today announced successful completion of its joint Over-the-Air (OTA) trial with operators as part of the collaborative [Time Division Duplex Long-Term Evolution](#) (TD-LTE) commercialization. The milestone demonstrates Motorola's commitment to deliver next generation networks to meet the future needs of TDD spectrum operators in China and around the world.

Motorola's key trial achievements include:

- First company to complete download throughput up to 70 megabits per second (Mbps) in a 20 megahertz (MHz) bandwidth channel
- Mobility and hand-over with live applications
- Multi-User Equipment (UE) testing under one sector

All trial results have been submitted to the LTE/System Architecture Evolution (SAE) Trial Initiative (LSTI).

In addition to the collaborative trials with operators, Motorola is actively engaged with the TD-LTE trials initiated by China's Ministry of Industry and Information Technology (MIIT) as part of its efforts to develop a globally competitive TD-LTE industry. Motorola's Wireless Broadband Access Solutions (WBAS) Hangzhou team and Wideband Base Transceiver Systems (WBTS) China team have been working with Chinese operators for many years and can provide valuable insights on local needs. By leveraging their unique understanding and strong technical base, Motorola is working closely with others in the industry to promote the development of TD-LTE in China and around the world.

"Motorola is committed to broadband and 4G developments, and supports both TD-LTE and Frequency Division Duplex (FDD) LTE. We've made significant progress in TD-LTE commercialization as demonstrated by these trials," said Dr. Mohammad Akhtar, vice president and general manager, Home and Networks Mobility, Motorola China. "The development milestone we're announcing today shows that Motorola remains on track to come to market early with field-proven, end-to-end LTE solutions to support TDD and FDD deployments. It represents our latest efforts to fulfill Motorola's commitment to support operators around the world in delivering true media mobility experiences to consumers at home and on the go."

Motorola's success in these trials and competency in TD-LTE has been built upon its commercialized Orthogonal Frequency Division Multiplexing (OFDM) solutions and a number of industry-leading [LTE](#) successes. Equipment involved in these trials is based on Motorola's second-generation OFDM products including Motorola's Base Band Unit (BBU) that supports TD-LTE, FDD-LTE and [WiMAX](#), and features a Remote Radio Unit (RRU) that supports 2x2 Multiple Input Multiple Output (MIMO).

"LTE is the next big technology in wireless networking and incorporates several key technologies such as smart antenna, all IP and OFDM to enable operators to deliver rich, high bandwidth, multimedia services," said Sudhakar Ramakrishna, corporate vice president, Software Operations and WBAS Development, Home and Networks Mobility, Motorola. "As a pioneer in these technologies, Motorola is leveraging its rich WiMAX heritage and expertise to accelerate TD-LTE commercialization and ecosystem."

Motorola's LTE Solution

Motorola wrapped up the first half of 2009 with significant LTE advancements. Earlier this year, Motorola deployed a live [700MHz LTE demonstration network](#) in Las Vegas, replicating the successful [2.6GHz live LTE](#) experience in Barcelona. During these two drive tours, visitors were driven around the streets to experience the performance of LTE in a real-life metropolitan RF environment. Motorola also launched its most advanced [Wireless Broadband Radio \(WBR\) 500r LTE eNodeB](#) at CTIA Wireless 2009, bringing a very agile zero-footprint LTE solution that addresses the full scope of operators' deployment needs. Motorola is actively involved in LTE trials with operators in North America, Europe and Asia, and recently launched its [LTE trial network and testing lab](#) in Swindon, United Kingdom.

Motorola's LTE solution is comprised of its OFDM broadband platform and a selection of radio options that include MIMO and smart antennas as well as its advanced self-organizing network (SON) solution. The portfolio includes frame based-mounted radios, remote radio heads and tower top radios to support a wide variety of LTE deployment scenarios across a wide variety of spectrum bands to meet the needs of the global market. Motorola's WBR 500 series eNodeB LTE base stations offer flexible deployment options, evolved packet core elements, compelling end-user devices, backhaul beyond voice network, network management solutions, video solutions that monetize LTE investment, and a complete portfolio of professional services. Motorola's LTE solution has won multiple awards in various categories, including the "4G—Service Management" category for Motorola's LTE SON solution in the CTIA Wireless 2009 [E-Tech Competition](#).

World-Class Research Facilities in China

Motorola China R&D Institute (MCRDI), with a talented team of 3000 from various fields, is one of the largest multinational R&D organizations in China and has rich experience in software, handset, infrastructure, value-added applications and various 2G and 3G technologies. 4G, including LTE and related migration solutions, has become one of MCRDI's key focuses with contributions from Motorola's Hangzhou R&D center and WBTS since 2006.

About Motorola

Motorola is known around the world for innovation in communications and is focused on advancing the way the world connects. From broadband communications infrastructure, enterprise mobility and public safety solutions to high-definition video and mobile devices, Motorola is leading the next wave of innovations that enable people, enterprises and governments to be more connected and more mobile. Motorola (NYSE: MOT) had sales of US \$30.1 billion in 2008. For more information, please visit www.motorola.com.

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