



June 21, 2010

Via Electronic Filing

Ruth Milkman
Chief, Wireless Telecommunications Bureau
Julius Knapp
Chief, Office of Engineering and Technology
Federal Communications Commission
445 Twelfth Street, SW
Washington, DC 20554

Re: Written Ex Parte Presentation in WT Docket Nos. 07-195, 04-356 and GN Docket Nos. 09-51, 09-157

Dear Ms. Milkman and Mr. Knapp:

I am writing to you in your capacity as the heads of the FCC's Spectrum Taskforce. As you review various bands including AWS-3, AWS-2 and 700 MHz D Block for 4th generation wireless services, I wanted to draw your attention to the great progress being made in the LTE ecosystem to simultaneously utilize both FDD and TDD versions of this standard on consumer devices. This effort has been undertaken by various equipment vendors in response to a global initiative by China Mobile, Vodafone and Verizon Wireless as highlighted by the attached articles.¹

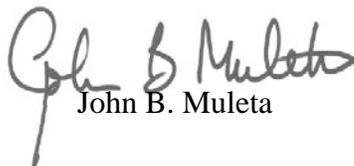
This welcome shift toward achieving interoperability between FDD and TDD systems opens up a number of benefits including a more efficient use of spectrum, better services for consumers and innovative business arrangements between FDD and TDD carriers including roaming and capacity overflow arrangements for data services between FDD and TDD operators.

¹ See China Mobile, Verizon Wireless and Vodafone Trials Confirm LTE as a Next Generation Candidate for Seamless Global Mobile Services, available at: http://www.vodafone.com/start/media_relations/news/group_press_releases/2009/china_mobile_verizon.html, (Feb. 2009); 3G Americas, 3GPP LTE for TDD Spectrum in the Americas, available at: <http://www.3gamericas.org/index.cfm?fuseaction=pressreleasedisplay&pressreleaseid=2576>, (Nov. 2009); Alcatel Lucent, China Mobile selects Alcatel-Lucent for TD-LTE trial network at World Expo 2010, available at: http://www.alcatel-lucent.com/wps/portal/!ut/p/kcxml/04_Sj9SPykssy0xPLMnMz0vM0Y_OjzKLd4x3tXDUL8h2VAQAURh_Yw!!?LMSG_CABI_NET=Docs_and_Resource_Ctr&LMSG_CONTENT_FILE=News_Releases_2009/News_Article_001867.xml, (Nov. 2009); Ericsson, Ericsson tests TD-LTE in Ireland available at: <http://www.mobilebusinessbriefing.com/article/ericsson-tests-td-lte-in-ireland>, (Jun. 2010); Samsung and Nokia Siemens Networks collaborate on world's first end-to-end TD-LTE data call, available at: <http://www.3gamericas.org/index.cfm?fuseaction=pressreleasedisplay&pressreleaseid=2770>, (Apr. 2010); Motorola, Motorola Teams with Innofidei and ASTRI to Promote TD-LTE Ecosystem Through Use of World's First TD-LTE Dongle at Shanghai Expo available at: <http://mediacenter.motorola.com/content/detail.aspx?ReleaseID=12868&NewsAreaId=2> (Jun. 2010).

I would appreciate the opportunity to discuss these developments with you at your earliest convenience.

Pursuant to Section 1.1206(b) of the Commission rules, an electronic copy of this letter is being filed. Please let me know if you have any questions regarding this submission.

Sincerely,



John B. Muleta



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China Mobile, Verizon Wireless and Vodafone Trials Confirm LTE as a Next Generation Candidate for Seamless Global Mobile Services

18 February 2009

China Mobile, Verizon Wireless, a joint venture of Verizon Communications and Vodafone, and Vodafone announce that they have taken significant steps in developing the next-generation technology LTE as a truly global radio access technology, following yesterday's LTE FDD/TDD Convergence Summit at the Mobile World Congress in Barcelona.

As part of their ongoing three-way trials, the operators have successfully demonstrated in laboratory conditions the time division version of LTE (TD-LTE) showing that the technology is capable of operating effectively in both unpaired as well as paired spectrum.

In addition to these initial results, a range of chipset suppliers including ST-Ericsson and Qualcomm are developing equipment capable of supporting both Frequency Division Duplex (FDD) and Time Division Duplex (TDD) flavours of the LTE technology in a single device.

The trials are a step towards the goal of developing a single device capable of operating on TD-LTE technology in the case of unpaired spectrum or LTE FDD technology in the case of paired spectrum

The availability of a converged LTE FDD and TD-LTE system is set to enable an effective solution for both paired and unpaired spectrum. This also raises the prospect of providing greater interoperability between different global operators offering customers greater levels of convenience.

The TD-LTE portion of the trial, which involves seven vendors, will progress to full field trials in the second half of 2009. The locations for these field trials have been agreed in China, Europe and India.

The corresponding LTE FDD trials are progressing as planned and are now well into the final field trial stages where peak download speeds of up to 50 to 60 Mbps using 10 MHz bandwidth have been demonstrated. These field trials, which will also be introduced for the TD-LTE trials, create real-world loaded network conditions by using multiple base stations and terminal devices.

LTE's potential as a flexible global technology with a strong eco-system was the core theme presented at yesterday's LTE FDD/TDD Convergence Summit. The event attended by regulators, operators and vendors, was jointly hosted by China Mobile, Verizon Wireless and Vodafone with an endorsement from the GSMA and TD Alliance.

LTE technology is designed to deliver a range of customer benefits including higher speeds and enhanced throughput performance and lower latency thanks to improved spectral efficiency.

LTE is an evolution of existing 3G (WCDMA, TD-SCDMA and CDMA) cellular networks and has the advantage of offering inter-working with existing 3G technologies.

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About China Mobile

China Mobile has been playing a leading role in the development of the mobile communications industry in China and holds an important position in the international arena as well. After over ten years of efforts, China Mobile has established a comprehensive network with large coverage, high quality, rich variety of businesses and first-class customer services. With more than 360 thousand mobile base stations and more than 450 million subscribers, China Mobile ranks first in the world in terms of network scale and customer base.

For eight consecutive years, China Mobile has been listed in Fortune 500 with a latest ranking of 148. For more information, please visit www.chinamobile.com.

About Verizon Wireless

Verizon Wireless operates the nation's most reliable and largest wireless voice and data network, serving more than 80 million customers. Headquartered in Basking Ridge, N.J., with more than 85,000 employees nationwide, Verizon Wireless is a joint venture of Verizon Communications (NYSE: VZ) and Vodafone (NYSE and LSE: VOD). For more information, visit www.verizonwireless.com. To preview and request broadcast-quality video footage and high-resolution stills of Verizon Wireless operations, log on to the Verizon Wireless Multimedia Library at www.verizonwireless.com/multimedia.

About Vodafone

Vodafone is the world's leading international mobile telecommunications company, with equity interests in 27 countries and Partner Markets in more than 40 countries. As of 31 December 2008, Vodafone had approximately 289 million proportionate customers worldwide. For further information, please visit www.vodafone.com.

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3G Americas Publishes Report on Key Advantages of LTE TDD for Unpaired Spectrum in the Americas

Report Highlights Important Considerations for Serving Society's Demands for Mobile Broadband

November 19 2009

Bellevue, WA –

3G Americas, a wireless industry trade association representing the GSM family of technologies including LTE, today announced that it has published an educational white paper titled, [3GPP LTE for TDD Spectrum in the Americas](#). The report provides a top-level overview on the considerations for deployment of Long Term Evolution (LTE) in Time Division Duplex (TDD) technology spectrum in the Americas and recommends LTE TDD as a mobile broadband solution to utilize valuable TDD spectrum assets in the region.

"LTE TDD provides a tremendous solution for utilizing the large swaths of fragmented and unpaired TDD spectrum that are present throughout the Americas region," said Chris Pearson, President of 3G Americas. "LTE TDD can be a complementary solution to LTE FDD and serve society's demands for a global mobile broadband technology."

The white paper explains the technical mechanism in which LTE TDD (also known as TD-LTE) and Time Division Synchronous Code Division Multiple Access (TD-SCDMA), a 3rd Generation Partnership Project (3GPP) third generation technology deployed in China, are smartly designed with the ability to operate together with great harmonization and efficiency. LTE TDD is a natural migration for TD-SCDMA operators. The technical synergy between LTE TDD and TD-SCDMA operators will thus increase the economies of scale for LTE TDD operators throughout the world.

Although operators are making plans for the deployment of LTE Frequency Division Duplex (FDD) technology, the white paper emphasizes that operators, regulators, license holders and investors must strongly consider the significant opportunities behind deployment of LTE in fragmented TDD spectrum as a mobile broadband solution that can serve the communication needs and demands of the marketplace.

Additionally, the report highlights that as mobile broadband is becoming ubiquitous throughout the Americas and the Internet generation is growing more accustomed to having broadband access everywhere, technology usage is exploding and, thus, is putting a tremendous strain on already well-utilized networks and spectrum. *3GPP LTE for TDD Spectrum in the Americas* focuses on the LTE ecosystem and how operators are working to meet this increasing demand for mobile broadband services.

"LTE TDD is often overlooked as a mobile broadband solution," Pearson said. "Operators and regulators must consider all of their options in meeting mobile broadband demands."

Erasmus Rojas, Director of Latin America and the Caribbean, added, "Specifically, this is a critical time in the industry for regulators in the Latin American region to carefully plan TDD spectrum allocations ensuring that technologies do not cause undue interference while at the same time making certain that the spectrum is consistent with global TDD allocations to take advantage of the economies of scale."

The LTE ecosystem supports both FDD and TDD operation, offering operators flexibility to match their existing networks, spectrum and business objectives for mobile broadband and multimedia services. Fifteen paired (for FDD operation) and eight unpaired (for TDD operation) spectrum bands have already

been identified by the 3GPP for LTE. This means an operator can introduce LTE in new spectrum bands.

The white paper, [3GPP LTE for TDD Spectrum in the Americas](#), was written collaboratively by members of 3G Americas and is available for **free download** on the 3G Americas website at www.3gamericas.org.

About 3G Americas: *Unifying the Americas through Wireless Technology*

3G Americas is an industry trade organization composed of telecommunications service providers and manufacturers. The organization's mission is to promote, facilitate and advocate for the deployment of the GSM family of technologies including LTE throughout the Americas. 3G Americas has contributed to the successful commercial rollout of GSM across the Americas and its place as the number one technology in the region, as well as the global adoption of EDGE. The organization aims to develop the expansive wireless ecosystem of networks, devices, and applications enabled by GSM and its evolution to LTE. 3G Americas is headquartered in Bellevue, Washington, with an office for Latin America and the Caribbean in Dallas, Texas. More information is available at www.3gamericas.org.

3G Americas' Board of Governors members include Alcatel-Lucent, América Móvil, AT&T, Andrew Solutions, Cable & Wireless, Ericsson, Gemalto, Huawei, HP, Motorola, Nokia Siemens Networks, Nortel, Openwave, Research In Motion (RIM), Rogers, T-Mobile USA and Telefónica.

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China Mobile selects Alcatel-Lucent for TD-LTE trial network at World Expo 2010

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Paris, November 18, 2009 - Alcatel-Lucent (Euronext and NYSE: ALU) today announced that it has been selected by China Mobile to deploy a TD-LTE* trial network at the occasion of the World Expo 2010 in Shanghai (May 1 to Oct 31, 2010). The deployment will be the first in the world and follows Alcatel-Lucent's first TD-LTE call on a third party terminal achieved earlier this year. The agreement was signed through Alcatel-Lucent Shanghai Bell, Alcatel-Lucent's Chinese flagship company.

Alcatel-Lucent's industry-leading TD-LTE platform will provide indoor coverage for 2 pavilions of World Expo 2010, namely the Theme pavilion and the Africa pavilion. Visitors will be able to enjoy advanced mobile services including ultra high speed internet access and HDTV at the exposition. Expected to have 200 participants and 70 million

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visitors, World Expo 2010 will open on May 1st next year.

With the explosion of mobile data traffic that is underway today, service providers need to increase their wireless network capacity and to transform toward end-to-end IP networks in order to support a wide array of new revenue generating services while also driving down the operational cost of supporting the growing volume mobile broadband services. These needs are addressed by Alcatel-Lucent's High Leverage Network™ architecture, which is intended to address the business, technical and operational challenges faced by service providers, enterprises and developers as they create, manage and market new applications. The High Leverage Network supports Alcatel-Lucent's application enablement vision, which is focused on combining the trusted capabilities of service providers and enterprises with the speed and innovation of the Web to provide both consumers and business users with richer, more trusted and valuable experiences.

"China Mobile's selection of our TD-LTE solution for this historical event further confirms that Alcatel-Lucent is playing a leading role in the evolution of 3G to 4G and that we are ready to help worldwide operators to take advantage of this technology," said Olivia Qiu, President of Alcatel-Lucent Shanghai Bell and head of Alcatel-Lucent in East Asia.

LTE is the next evolution in mobile network standards defined by 3GPP (Third Generation Partnership Project) and supports operations in both the paired spectrum and unpaired spectrum. Alcatel-Lucent is a pioneer in the LTE market. It is able to provide common platform for both TDD and FDD spectrum, which creates a truly global ecosystem, and enables all operators to take advantage of a common system and unrivalled economies of scale as they look to provide 4G wireless broadband services to their subscribers.

In February 2009, Alcatel-Lucent announced that it has completed the first data calls – involving terminals from third-party suppliers – using TD-LTE technology, demonstrating Alcatel-Lucent's commitment to supporting a smooth evolution path to 4G for all service providers.

* *TD-LTE: Long Term Evolution (LTE) technology for Time Division Duplex (TDD) spectrum*

For more information about Alcatel-Lucent's LTE solution, please visit: <http://www.alcatel-lucent.com/lte>

About Alcatel-Lucent

Alcatel-Lucent (Euronext Paris and NYSE: ALU) is the trusted partner of service providers, enterprises and governments worldwide, providing solutions to deliver voice, data and video communication services to end-users. A leader in fixed, mobile and converged broadband networking, IP technologies, applications and services, Alcatel-Lucent leverages the unrivalled technical and scientific expertise of Bell Labs, one of the largest innovation powerhouses in the communications industry. With operations in more than 130 countries and the most experienced global services organization in the industry, Alcatel-Lucent is a local partner with a global reach. Alcatel-Lucent achieved revenues of Euro 16.98 billion in 2008 and is incorporated in France, with executive offices located in Paris. For more information, visit Alcatel-Lucent on the Internet: <http://www.alcatel-lucent.com>

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News

Ericsson tests TD-LTE in Ireland

Published: Monday 7 June 2010

Region: [Europe](#)

Tags: [TD-LTE](#) [Ericsson](#)

TD-LTE technology has been tested in Ireland, the latest country to be linked to the emerging 'unpaired' version of the next-generation mobile communications standard LTE. Swedish vendor Ericsson carried out tests in the 2.3GHz band using a license issued under Irish regulator ComReg's test and trial licensing programme. Specific details of the tests – the first TD-LTE trials in Ireland – were not disclosed, with the regulator noting only that they were designed to test TD-LTE's capability "to provide high-speed broadband services which can be used to support services such as high-definition TV, video conferencing and many others."

Initially regarded as just the unpaired, Chinese version of the more common FDD variant of LTE, TD-LTE has recently been linked to deployments in Taiwan, India and the US. With reports only last week noting that [China Mobile plans to team up with foreign operators to establish a TD-LTE trial network overseas in the next six months](#), the technology is gaining momentum and stealing the limelight from rival technology WiMAX.

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Orange UK to launch commercial HD voice this year

Orange is expected to rollout high-definition (HD) voice services across the UK by the end of this summer following trials currently taking place in Bristol, Reading and Southampton.

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SoftBank and O2 push back on new iPhone 4

Japan's SoftBank and Europe's O2 are the latest operators to have amended plans to sell Apple's new iPhone 4 due to low stock.

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Nokia and Broadcom boost NFC

The nascent Near Field Communications (NFC) market may finally be on the verge of living up to its potential following two major

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TD-LTE ecosystem reaches maturity with landmark data call

Samsung and Nokia Siemens Networks collaborate on world's first end-to-end TD-LTE data call

April 29 2010

Hangzhou, China –

Marking an important milestone in TD-LTE commercialization, Samsung and Nokia Siemens Networks have successfully conducted the world's first TD-LTE data call using a prototype end-user device. The demonstration proved the interoperability of Nokia Siemens Networks' end to end TD-LTE network solution with Samsung's TD-LTE USB dongle.

The trialing of TD-LTE data calls, which can be used for high-definition video services, was conducted at Nokia Siemens Networks' R&D Center in Hangzhou, China. The call employed the company's TD-LTE infrastructure, comprising both the award-winning Flexi Multiradio Base Station and the company's core network solution, including the Flexi NS (Network Server) and the Flexi NG (Network Gateway) – all using LTE software compliant with the 3GPP March 09 baseline specifications. TD-LTE devices from Samsung were used proving the interoperability between them and the network. TD-LTE is the variant of LTE for unpaired spectrum expected to be deployed by operators such as China Mobile.

"As the evolutionary path for China Mobile's 3G TD-SCDMA networks, as well as an option for other operators around the world who have available unpaired spectrum, TD-LTE is one of the important global standards. As a leader in next-generation mobile technology, we see it as a great growth opportunity," said Byung-Duck Cho, executive vice president of Samsung Electronics' R&D Center. "This demonstration ensures the cohesive development of our devices for the roll-out of TD-LTE technology at a quicker pace."

"This is an important milestone in building the TD-LTE ecosystem," said Marc Rouanne, head of Nokia Siemens Networks' Network Systems business unit. "This successful data call demonstrates the end-to-end interoperability of TD-LTE network and device equipment. It also shows our global commercial readiness for deployments of TD-LTE, expected in the second half of 2010."

In October 2009, Nokia Siemens Networks achieved the first TD-LTE data call on its Flexi Multiradio Base Station with fully standards-compliant software. Moreover, in April of this year, the company inaugurated the industry's first TD-LTE open lab in its Hangzhou Development Center, providing an end-to-end testing environment to verify the compatibility of terminals and devices with the company's TD-LTE network products and solutions.

About Samsung Electronics

Samsung Electronics Co., Ltd. is a global leader in semiconductor, telecommunication, digital media and digital convergence technologies with 2009 consolidated sales of US\$116.8 billion. Employing approximately 188,000 people in 185 offices across 65 countries, the company consists of eight independently operated business units: Visual Display, Mobile Communications, Telecommunication Systems, Digital Appliances, IT Solutions, Digital Imaging, Semiconductor and LCD. Recognized as one of the fastest growing global brands, Samsung Electronics is a leading producer of digital TVs, memory chips, mobile phones and TFT-LCDs. For more information, please visit www.samsung.com

About Nokia Siemens Networks

Nokia Siemens Networks is a leading global enabler of telecommunications services. With its focus on innovation and sustainability, the company provides a complete portfolio of mobile, fixed and converged network technology, as well as professional services including consultancy and systems integration, deployment, maintenance and

managed services. It is one of the largest telecommunications hardware, software and professional services companies in the world. Operating in 150 countries, its headquarters are in Espoo, Finland. www.nokiasiemensnetworks.com

Engage in conversation about Nokia Siemens Networks' aim to reinvent the connected world at <http://unite.nokiasiemensnetworks.com> and talk about its news at <http://blogs.nokiasiemensnetworks.com>
Find out if your country is exploiting the full potential of connectivity at <http://connectivityscorecard.org>

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Notes to Editors

Long Term Evolution (LTE) is the next-generation mobile broadband technology and the evolutionary step from GSM, WCDMA/HSPA/HSPA+, TD-SCDMA, CDMA and WiMAX networks. It promises the delivery of broadband and smart device services thanks to increased data rates, reduced latency and a scalable flat all-IP network architecture. Nokia Siemens Networks is the frontrunner in LTE, being the first to make an LTE call using commercial hardware and standard compliant software in September 2009.

Nokia Siemens Networks has a long track record in demonstrating its technological leadership in LTE:

- November 2006 Nokia Siemens Networks conducted the world's first LTE demo with a handover to HSPA at the ITU World Congress in Hong Kong
- September 2008 Nokia Siemens Networks shipped the industry's first LTE base station hardware to customers.
- November 2008 Nokia Siemens Networks conducted the world's first demonstration of LTE-Advanced Relaying technology.
- September 2009 Nokia Siemens Networks made the world's first LTE call using a commercial base station and fully standards-compliant software (3GPP Rel 8 March 09 baseline).
- September 2009 Nokia Siemens Networks conducted with China Mobile the world's first TD-LTE femtocell demonstration
- October 2009 Nokia Siemens Networks made the world's first LTE handover test using a commercially available base station and fully standards-compliant software (3GPP Rel 8 March 09 baseline).
- October 2009 Nokia Siemens Networks conducted the world's first TD-LTE call using its Flexi Multiradio base station and fully standards-compliant software (3GPP Rel 8 March 09 baseline).
- October 2009 Nokia Siemens Networks conducts end-to-end LTE interoperability testing with four leading device vendors across several frequency bands.
- November 2009 Nokia Siemens Networks is a founding member of the One Voice initiative providing a blueprint for the early deployment of IMS-based Voice over LTE service. The company's Fast Track approach is fully compliant with One Voice.
- December 2009 Nokia Siemens Networks rings up another first in LTE with 3GPP standardized voice over LTE calls. Successful IMS-compliant voice calls and SMS messaging using standardized LTE equipment marks an important step towards commercial voice over LTE deployments.
- March 2010 World's first call between different VoLTE clients showcased at CTIA 2010. Nokia Siemens Networks demonstrates standards-based Voice over LTE (VoLTE) interoperability using two different clients

running on Samsung LTE devices

- April 2010 Nokia Siemens Networks sets up industry's first TD-LTE Open Lab. Provides smart phone and terminal testing facility to accelerate TD-LTE ecosystem
- April 2010 Nokia Siemens Networks commences production of Flexi Base Stations in the 800 MHz frequency band to enable countrywide LTE rollouts

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Motorola Teams with Innofidei and ASTRI to Promote TD-LTE Ecosystem Through Use of World's First TD-LTE Dongle at Shanghai Expo

June 01, 2010

NGMN Industry Conference & Exhibition - SHANGHAI, China – June 2, 2010 – The Networks business of [Motorola, Inc.](#) (NYSE: MOT), the main provider of indoor TD-LTE coverage at the Shanghai World Expo 2010, has teamed with Innofidei to enable visitors at the expo to experience mobile broadband on the world's first pre-commercial TD-LTE network. One of a select group of chipset providers chosen by China Mobile Communications Corporation (CMCC), Innofidei has collaborated with the Hong Kong Applied Science and Technology Research Institute (ASTRI) to bring a TD-LTE chipset solution to the Shanghai World Expo, in support of Motorola's TD-LTE showcase network.

Motorola used the Innofidei/ASTRI TD-LTE dongle at the [TD-LTE Showcase Network Opening Ceremony](#), during which it demonstrated a high-quality video wall including 24 simultaneous video streams, remote monitoring and high-speed Internet browsing applications running on the Motorola TD-LTE network. Motorola also is using the dongle on its 2.3GHz TD-LTE network to provide coverage in major pavilions at the expo. The Motorola end-to-end TD-LTE network encompasses the eNodeB, backhaul, evolved packet core (EPC), billing, home subscriber server (HSS) and LTE manager.

"The adoption of new technologies is driven in large part by a healthy ecosystem of devices," said Mohammad Akhtar, corporate vice president and general manager, Motorola Networks business in Asia Pacific. "By working with CMCC, and a range of chipset partners, Motorola is helping to drive the ecosystem of devices for TD-LTE and drive the TD-LTE opportunity globally."

"Innofidei thrives on innovation and promoting the development of technology," said Dr. Tom Zhang, CEO of Innofidei, "Shanghai World Expo 2010 is a premier opportunity for us, in conjunction with ASTRI, to showcase the performance of our TD-LTE dongle and let visitors see first-hand what this technology will make possible."

During Shanghai World Expo 2010, Motorola is also demonstrating TD-LTE on a Segway®. The two-wheeled, self-balancing, electric vehicle is equipped with a camera and laptop that capture TD-LTE experiences while on the move. Motorola's demonstrations at the expo represent collaborative efforts undertaken by Motorola to help drive the commercialization and globalization of TD-LTE. In addition, the demonstrations reaffirm Motorola's commitment to TDD spectrum operators worldwide.

"TD-LTE is a commercial reality, and there is now a growing interest in TD-LTE from many operators around the globe who are seriously considering TD-LTE for their next-generation network in both 2.3GHz and 2.6GHz spectrum," Akhtar said. "These will be the most likely used bands for TD-LTE around the world. The success of TD-LTE in China, bolstered by the growing cooperation of an ecosystem of chipset providers and device manufacturers, bodes well for its adoption in other regions of the world."

As a global wireless infrastructure leader, Motorola Networks is committed to 4G with WiMAX and LTE solutions that provide a way for operators to profitably meet the ever-growing demand for mobile broadband today while giving 2G and 3G customers a future path as we continue to support their legacy networks. Motorola brings its services, fourth-generation orthogonal frequency division multiplexing (OFDM) platform and 25 years of wireless data solutions innovation, experience and expertise to bear as service providers seek to evolve their networks for the future.

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About Innofidei

Founded in September 2006 in Beijing Z-Park with operations in Beijing, Silicon Valley and Taipei, Innofidei dedicates itself to provide enabling IC and system solutions for mobile TV broadcast and telecommunication market. Innofidei has teamed up with the Hong Kong Applied Science and Technology Research Institute (ASTRI), which was founded by the Government of Hong Kong, to develop TD-LTE solution. ASTRI has been conducting a spectrum of world class R&D and creating real economic impact to the Hong Kong and Mainland region. For more information about Innofidei, please visit www.innofidei.com. For more information about ASTRI, please visit www.astr.org

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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 \$22 billion in 2009. For more information, please visit www.motorola.com.

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