PRESS RELEASE
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ERICSSON AND CHINA MOBILE MAKE THE WORLD'S FIRST DUAL MODE HD VOICE OVER LTE CALL BASED ON MULTI-MODE CHIPSETS

- The world's first dual mode HD voice over LTE call between TD-LTE and LTE FDD demonstrated
- Based on ST-Ericsson Thor LTE modem and Renesas Mobile' quad-mode chipsets
- LTE TDD/FDD converged network infrastructure provided by Ericsson

Ericsson has successfully supported China Mobile in demonstrating the world's first dual mode HD voice over LTE (VoLTE) call between TD-LTE and LTE FDD based on ST-Ericsson's multimode modem and Renesas Mobile' quad-mode chipsets during the 2013 Mobile World Congress (MWC) in Barcelona. The success of the demonstration further paves the way for the ultimate commercial launch of Voice over TD-LTE.

The demonstration was accomplished on Ericsson's commercially verified LTE TDD/FDD converged radio solution and mature IMS platform, adopting ST-Ericsson's commercial Thor LTE modem and Renesas Mobile' quad-mode chipsets that are ready for mass production. TD-LTE and LTE FDD enjoy a technical similarity of over 90 percent, making it possible for both networks and terminal chipsets to share a common commercial platform.

By deploying communication services over an all-IP network, like LTE, the opportunity opens up to evolve the voice business and launch new services like HD voice and video calling, with telecom grade quality. At present VoLTE has been put into commercial service with several operators, and the demand for TD-LTE voice services is also growing, not only because the coming expanded deployment of TD-LTE networks, but also the realization of TD-LTE voice will allow TD-LTE operators to free up their 2G and 3G frequency bands, creating a competitive edge at a time when spectrum resources are quickly becoming scarcer.

The demonstration also achieved HD quality TD-LTE voice service. As of January 2013, operators in 45 countries have launched HD voice over WCDMA/GSM/LTE in 61 live networks, supported by mainstream devices. HD voice over TD-LTE will ensure superior user experience also for TD-LTE subscribers in the near future.

At its MWC debut as an exhibitor, China Mobile showcased a series of innovative applications in an LTE TDD/FDD integrated network environment, and also demonstrated the most complete TD-LTE end-to-end converged ecosystem so far. The network infrastructure

on site at the China Mobile booth, as well as the integration of multi-frequency bands and multi-vendor systems and terminals, are provided by Ericsson.

Sha Yuejia, Vice President of China Mobile said, “The convergence of TD- LTE and LTE FDD networks will significantly speed up the industrialization of LTE. Last December, China Mobile Hong Kong has successfully launched the world's first TD-LTE/LTE FDD converged network with partners including Ericsson. Today, here at the most important event of the mobile telecommunications industry of the year, we are demonstrating VoLTE supported by five-mode chipset. This marks a big step ahead for the TD-LTE/LTE FDD converged development.”

Mats H Olsson, President of Ericsson North East Asia, said: “Ericsson is honored to support China Mobile in establishing yet another milestone in the development of TD-LTE. The technology readiness and commercial availability of the system, platform and devices for TD-LTE that we demonstrated here is a strong testimonial to the maturity of a converged end-to-end TD-LTE ecosystem. Ericsson is determined to work continuously with China Mobile and operators around the world to drive the globalization and commercialization of TD-LTE.”

Mats Norin, Executive Vice President and Chief Technology Officer of ST-Ericsson, said: “ST-Ericsson is pleased to partner with China Mobile and Ericsson in successfully demonstrating this great innovative milestone at Mobile World Congress 2013. ST-Ericsson’s Thor modem solutions and NovaThor ModAp solutions are multimode platforms that are capable of supporting TD-LTE/LTE FDD/WCDMA/TD-SCDMA/GSM. In addition, ST-Ericsson’s modem and ModAp platforms are able to provide complete voice solutions including VoLTE, CSFB and SRVCC. We hope to continue our cooperation with China Mobile to promote the development of TD-LTE.”

Heikki Tenhunen, Senior Vice President Renesas Mobile Corporation, said; “Renesas Mobile’s long relationship with China Mobile and Ericsson brings another joint achievement to Mobile World Congress 2013. Renesas Mobile's SP253x and MP5232 platforms are quad-mode platforms supporting TD-LTE/LTE FDD/DC-HSPA+/GSM. They offer commercial-grade VoLTE and high performance LTE today.”

In December 2012, Ericsson assisted China Mobile Hong Kong in demonstrating the world’s first live, seamless, bi-directional LTE TDD/FDD interworking on the converged LTE TDD/FDD network. The launch of this converged network architecture, based on the recognized 3GPP standard, combines the power of both networks to benefit both China Mobile Hong Kong and its subscribers and the industry as a whole.

The convergence of TD-LTE and LTE FDD enables operators to maximize networks based upon traffic demands and spectrum availability. Convergence provides an operator the flexibility to deploy LTE FDD and LTE TDD throughout the network to ensure adequate coverage, and then add additional LTE in those areas where additional capacity is needed.

With convergence, the TDD/FDD network can be operated as a single network with the scale needed to foster the transformation of industries like entertainment, transportation, education, healthcare and energy.

As a firm supporter of TD-LTE, Ericsson also has a clear leadership position in the LTE market, with more than 120 LTE/EPC contracts on six continents. Ericsson's well-proven LTE solutions support the world's busiest networks. It has signed contracts with nine out of the 10 highest ranked mobile operators by revenue.

NOTES TO EDITORS

Ericsson at MWC 2013
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Our offering comprises services, software and infrastructure within Information and Communications Technology for telecom operators and other industries. Today more than 40 percent of the world's mobile traffic goes through Ericsson networks and we support customers' networks servicing more than 2.5 billion subscribers.

We operate in 180 countries and employ more than 100,000 people. Founded in 1876, Ericsson is headquartered in Stockholm, Sweden. In 2011 the company's net sales were SEK 226.9 billion (USD 35.0 billion). Ericsson is listed on NASDAQ OMX, Stockholm and NASDAQ, New York stock exchanges.

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