
ERICSSON 5G DELIVERS 5 GBPS SPEEDS

- Live, over-the-air demonstration of Ericsson pre-standard 5G technology achieves 5 Gbps throughput in the 15 GHz frequency band
- NTT DOCOMO and SK Telecom senior management witness Ericsson's achievement that employs innovative radio interface and advanced MIMO technology
- 5G performance will enable new machine-to-machine applications that benefit both consumers and enterprises

5G implementation in commercial mobile networks is expected in 2020, but Ericsson (NASDAQ:ERIC) has already achieved speeds of 5 Gbps in live, over-the-air demonstrations of the company's pre-standard 5G network technology. This proven performance will be critical to addressing both the relentless growth in mobile data demand and enabling the next-generation machine-to-machine applications. NTT DOCOMO and SK Telecom senior management witnessed Ericsson's achievement at Ericsson lab in Kista, Sweden.

The Ericsson Mobility Report (June, 2014) forecasts that 85 percent of North American mobile subscriptions will be LTE by 2019. This high penetration of LTE indicates that North America could be one of the first regions to adopt 5G. At the same time, Japan and South Korea are also likely to benefit from early 5G availability with trials already announced by both NTT DOCOMO and SK Telecom. A regional appendix of Ericsson Mobility Report shows LTE subscription penetration had already reached over 30 percent in Japan and over 50 percent in South Korea – the highest in the world.¹

Seizo Onoe, Executive Vice President and Chief Technical Officer at NTT DOCOMO, says: "5G promises significant performance enhancements to support future new applications that will impact both users and industry. To proceed with our joint project on 5G field trial further, we are very glad about Ericsson's success in demonstrating the real potential of 5G radio access technologies at this early stage."

The Mobility Report provides a comprehensive snapshot of the pre-5G mobile world and foreshadows the demand drivers for 5G. The report forecasts a 10-time growth in mobile data traffic between 2013 and 2019 and highlights three to four times growth in the number of active cellular M2M devices by 2019.

Alex Jinsung Choi, Executive Vice President and Head of ICT R&D Division at SK Telecom, says: "SK Telecom plans to take the lead in 5G wireless services so we are pleased to see the progress that Ericsson has already made with their live demonstration of 5G

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performance. 5G will build upon the investment that we have made in Long Term Evolution and expand our service offering to all of our customers.”

Sathya Atreyam, Research Manager Wireless Network Infrastructure at IDC, says: “Though the standard is not yet defined, 5G has already evolved from a technology vision to a network and business planning consideration for operators. It is important for network equipment vendors -- like Ericsson -- to demonstrate the potential of 5G as a means to begin creating a demand in the communications ecosystem.

Johan Wibergh, head of Segment Networks, says: “5G will impact both the access and core of mobile networks so we are working closely with leading operators, including NTT DOCOMO and SK Telecom, to ensure a practical and proactive evolution. The development of advanced radio technologies is one of the first critical steps in the realization of a 5G future.”

The live demonstration employs an innovative new radio interface concept and advanced Multiple-Input Multiple-Output (MIMO) technology to achieve the record-breaking results. Ericsson 5G network development activity includes new antenna technologies with wider bandwidths, higher frequencies and shorter transmission time intervals. Radio base stations built with baseband units and radio units are being developed specifically for 5G trials. Small cells in a heterogeneous network environment, new frequency bands (including 15 GHz) and high-speed, high-capacity backhaul transmission are also key 5G focus areas for Ericsson.

With faster speeds, lower latency and better performance in highly dense areas, 5G represents an evolution of the user experience, but it will also enable new device-to-device and M2M applications that will impact both consumers, such as traffic safety control, tactile internet, and industry, for example sensors or capillary networks. Though 5G standards are still in early development and new spectrum allocations are still to be considered, Ericsson’s live demonstration is a clear reflection of the company’s technology leadership.

NOTES TO EDITORS

Ericsson Mobility Report Regional Appendix – North East Asia (June 2014):
<http://www.ericsson.com/res/docs/2014/emr-june2014-regional-appendices-nea.pdf>

NTT DOCOMO to trial 5G with Ericsson: <http://www.ericsson.com/news/1783524>

Ericsson and METIS: http://www.ericsson.com/news/121127-paving-the-way-for-future-wireless-system_244159017_c

5G demo:

http://www.ericsson.com/thinkingahead/networked_society/visionary_ideas_from_mwc2014

5G transport: http://www.ericsson.com/news/140324-5g-transport_244099438_c

Tech Talk: 5G: http://www.ericsson.com/news/131122-tech-talk-5g_244129226_c

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White paper: http://www.ericsson.com/news/130625-5g-radio-access-research-and-vision_244129228_c

Ericsson Business Review: 5G – a business enabler and disruptor

<http://www.ericsson.com/res/thecompany/docs/publications/business-review/2013/5g-signals.pdf>

Ericsson Review: 5G radio access: http://www.ericsson.com/news/140618-5g-radio-access_244099437_c

Download high-resolution photos and broadcast-quality video at www.ericsson.com/press

Ericsson is the driving force behind the Networked Society – a world leader in communications technology and services. Our long-term relationships with every major telecom operator in the world allow people, businesses and societies to fulfill their potential and create a more sustainable future.

Our services, software and infrastructure – especially in mobility, broadband and the cloud – are enabling the telecom industry and other sectors to do better business, increase efficiency, improve the user experience and capture new opportunities.

With more than 110,000 professionals and customers in 180 countries, we combine global scale with technology and services leadership. We support networks that connect more than 2.5 billion subscribers. Forty percent of the world's mobile traffic is carried over Ericsson networks. And our investments in research and development ensure that our solutions – and our customers – stay in front.

Founded in 1876, Ericsson has its headquarters in Stockholm, Sweden. Net sales in 2013 were SEK 227.4 billion (USD 34.9 billion). Ericsson is listed on NASDAQ OMX stock exchange in Stockholm and the NASDAQ in New York.

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