

Field experiments of 4G LTE-advanced system underway

7 February 2011

NTT DOCOMO announced today that on January 27 it was pre-licensed by the Kanto Bureau of Telecommunications of the Ministry of Internal Affairs and Communications for field experiments of LTE-Advanced, a true fourth-generation (4G) mobile communication technology that provides data rates much faster than currently possible with LTE.

Provided by NTT DOCOMO

Once the license is issued, DOCOMO will begin field experiments of LTE-Advanced in real radio environments in the cities of Yokosuka and Sagami-hara in Kanagawa Prefecture, Japan.

In the [field experiments](#), the performance of key technologies for LTE-Advanced implemented in the experimental equipment will be evaluated in indoor and outdoor environments.

DOCOMO has already confirmed the performance of LTE-Advanced technologies using radio environment simulators in its R&D center, achieving transmission data rates of approximately 1 Gbps in the downlink and 200 Mbps in the uplink.

LTE-Advanced, as the name suggests, is an evolved version of LTE, which DOCOMO currently offers on a commercial basis under the Xi™ ("Crossy") brand in [Japan](#). LTE-Advanced is backward compatible with LTE, which will enable a smooth migration from DOCOMO's existing LTE network.

Standardization of LTE-Advanced is currently being finalized by the 3rd Generation Partnership Project (3GPP). In October 2010, LTE-Advanced was accepted by the International Telecommunication Union Radiocommunication Sector (ITU-R) as a technology compliant with the requirements of IMT-Advanced.

More information:

www.nttdocomo.com/pr/files/201...207_Attachment01.pdf

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