DOCOMO achieves world's first 1.2 gbps transmission with single-size antenna using smart vertical MIMO for LTE-advanced

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NTT DOCOMO, a personalized mobile solutions provider for smarter living, announced today that it has achieved the world's first transmission exceeding 1.2 Gbps in a field test using a single-size antenna incorporating a new transmission technology, Smart Vertical MIMO, for LTE-Advanced systems.

DOCOMO's new Smart Vertical MIMO transmission technology, which uses adaptive grouping of vertical antenna components according to the reception quality for mobile devices in the transmission area, enables a single-size antenna to achieve throughput equivalent to that of a four-antenna system.

Smart Vertical MIMO, a key technological development for the planned deployment of DOCOMO's LTE-Advanced network by the fiscal year ending March 31, 2016, reduces the cost and space of installing antenna equipment and improves spectrum utilization efficiency. Space reduction is particularly beneficial for deployments in congested urban areas.

DOCOMO will continue to enhance its Smart Vertical MIMO transmission technology, aiming to provide maximum-quality network services with its coming commercial LTE-Advanced network.

Provided by NTT