

## VoLTE Interoperability Tests by the MultiService Forum in the Test & Innovation Center



For the first time in the Test & Innovation Center, a "Multi-vendor" interoperability test for "Voice over Long Term Evolution" (VoLTE), including 19 network providers and terminal manufacturers, was successfully performed in September 2011. A total of 60 engineers participated. The tests were performed by the MultiService Forum (MSF, [www.msforum.org](http://www.msforum.org)) with support from the GSM Association (GSMA) in the Vodafone Test and Innovation Center in Dusseldorf as well as in the China Mobile Research Institute Laboratory in Beijing.

At the core of the five test scenarios was the validation of all essential network interfaces for the LTE and Evolved Packet Core (EPC) as well as those of the IP Multimedia Subsystem (IMS) and the SIP-based server-terminal communication. Goals included getting confidence in the implementation of new technologies from different providers as well as to validate the technical recommendation from the GSMA for IMS-based VoLTE. Test scenarios included VoLTE based interoperability, global roaming as well as the inter-network interfaces according to the GSMA specification.

Successful Voice-over-LTE calls, based on 3GPP Multimedia Telephony, were performed between Beijing and Dusseldorf during the testing. In addition, LTE Roaming using dynamic Policy Control was successfully demonstrated between the two host sites.

As a result of its multifaceted infrastructure and facilities, this was the second time that the Vodafone Test & Innovation Center has hosted an IOT Event for the MultiService Forum. All parties involved confirmed that the multi-vendor test event was again a great success in this year. Hence, a further event of this type is currently being considered.