

VoLTE Application Puts HD Voice to the Ultimate Test

Posted by Janine E. Mooney, Editor

Ixia announced that it will demonstrate a new industry-leading VoLTE test solution at Mobile World Congress 2012 from February 27 – March 1, in Barcelona. The live demonstration will take place in Ixia's booth 1E47, Hall 1.

Voice and SMS services are the primary revenue sources for mobile operators, contributing close to 80% of the overall revenue. Over-the-top (OTT) voice and video service providers are a significant threat to steal market share from mobile operators. Operators may be reluctant to commit large amounts of capital to LTE deployments without having confidence that they will be able to provide customers with voice quality and reliability equivalent to that of existing 2G and 3G networks. Support of toll grade, operator supported voices services over LTE's all IP infrastructure presents a substantial technological challenge.

Ixia has introduced a new test application to its IxLoad solution to measure voice quality end-to-end, from the cell tower through the core network. Operators can easily compare and contrast the voice quality of over-the-top (OTT) service to operator-provided voice services. Using best-in-class industry algorithms, operators can measure the mean opinion score (MOS) of voice quality before going live. Additionally, Ixia's new application tests the functionality, scalability, and resiliency of LTE infrastructure components and new IMS networks that support VoLTE-based services.

Ixia's IxLoad is a unified test solution for testing all aspects of wireless networks end-to-end, including LTE base stations, core network components, and the IMS subsystem. IxLoad supports a broad set of test applications measuring the scalability and capacity of data applications, the quality of rich media services, and the evaluation of security vulnerabilities.

Ixia's VoLTE solution will be available for demonstration at MWC 2012 in booth 1E47, Hall 1.

Key Facts:

- IxLoad measures voice quality by a mean opinion score (MOS) using E-model and perceptual estimation of speech quality (PESQ) algorithms.
- IxLoad's high RTP performance supports more than one million concurrent calls with media per chassis.
- IxLoad measures control plane and media latency which can be used to understand call setup latency.
- VoLTE features include:
 - o Support of the GSMA IR.92 specification
 - o Emulation of SIP endpoints to initiate and receive voice calls and SMS texts

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over eGTP

- o Emulation of the IMS network (P-CSCF & MGW)
- o AMR and AMR-WB codecs
- o AKAv1 & AKAv2 authentication
- o Default and dedicated bearers

For more information, visit www.ixiacom.com [1].

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