

World's first LTE test cases validated by 7 layers! An important step to LTE certification

7 layers, Germany, Ratingen, 4th February 2010: 7 layers, a global group of test & service centers for the wireless communications industry, is the first company world-wide that has succeeded in validating LTE test cases. Long Term Evolution (LTE) is the next-generation 3G technology for GSM, CDMA and WCDMA cellular carriers. LTE uses a different air interface and packet structure than current 3G systems. Enormously increased data transmission rates (average 150MBit/s) are an important precondition that will finally make the mobile web come real.

Test case verification and validation is an important step in order to guarantee that tests running on specific test equipment are fulfilling the respective technology and test specifications. Once test cases have been validated they will be approved by leading certification groups, thus defining important market access requirements. This is a vital step in order to ensure interoperability of products from various manufacturers.

"Experts from 7 layers have more than 10 years of experience in verifying and validating test cases for cellular technologies. Such experience in combination with technology know-how regarding test case development and test equipment build-up is an important asset when validating test cases", explains Mohamed El-Fikri, Senior Engineer at 7 layers in Germany.

The LTE test cases have been provided by the European Telecommunications Standards Institute (ETSI) according to the mobile phone standard 3GPP TS 36.523. 7 layers has verified and validated the first ten FDD-7 LTE protocol test cases for the Rohde & Schwarz R&S[®] CMW500, a powerful wideband radio communication tester for network simulation. The Global Certification Forum (GCF) has already approved 7 layers validation results, which were presented on the 21st CAG meeting in Sophia Antipolis/ France (26th to 27th January 2010). The respective approval of the PCS Type Certification Review Board (PTCRB) is still pending. - PTCRB manages the test and certification process for GSM/UMTS wireless devices operating on a PTCRB network (mainly in North America). - 7 layers is the first company ever that has submitted LTE test case validation results to PTCRB for approval. PTCRB will review the LTE test case validation from 7 layers on the next PVG meeting 9th February, 2010. Thanks to the LTE test case validation from 7 layers, certification of top modern LTE devices has reached a further important milestone!

About 7 layers

7 layers is an international group of test and service centers, supporting wireless communications with test and certification expertise for GSM, GPRS, W-CDMA, EDGE, 3G, TETRA, W-LAN, Bluetooth (R) and other modern wireless communications technologies, such as GPS, LTE etc. End product manufacturers, component and reference design manufacturers as well as network operators and technology associations benefit from the 7 layers' services.

The 7 layers Test House provides test and global market access services in its own accredited laboratories. The 7 layers test & service centers in the USA, Germany, China, Korea and Japan work closely together in order to speed up certification and type approval processes.

The 7 layers Systems House offers engineering services, supporting the development of certification systems, test specifications, test cases, test solutions and end-user products. It also develops stand alone test systems based on the InterLab System Software.

The 7 layers Software House has developed the InterLab System Software, which supports HighTech industries with the systematic and efficient verification and validation of complex product structures. It coordinates the activities of R&D and test departments from various locations, supports version control processes and result analysis as well as automation and reproducibility of test processes.

For more information go to www.7Layers.com

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