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swissmeeting
Journée d'information CEM

Abstracts



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Bundesamt für Kommunikation BAKOM
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Abstract

Quelles sont les conditions de mise sur le marché et comment l’OFCOM s’assure qu’elles soient respectées?

Description des bases légales et le rôle de l’OFCOM dans le domaine CEM. Explication des responsabilités des différents acteurs du marché (fabricant, importateur, vendeur). Information sur les accords internationaux dans le domaine CEM. Présentations de la surveillance de marché de l’OFCOM.

Référent: Lucio Cocciantelli, OFCOM



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Abstract

Problématique CEM entre services radio et réseaux câblés dans la bande des 800 MHz

Description de la problématique CEM générée par la nouvelle attribution de la bande de fréquence 790-862MHz à la téléphonie mobile. Analyse du risque de perturbation entre les réseaux câblés et la téléphonie mobile de nouvelle génération (LTE). Exposé des différentes mesures effectuées par l'OFCOM.

Référent: Pascal Krähenbühl, OFCOM

Abstract

Precompliance-Measurements - Overload risk with broadband emissions

Performing diagnosis and precompliance measurements often D.U.T's are tested for their RFI-emissions without knowledge or experience of emitted levels and possible pulse energy distribution across the frequency spectrum. The test instrumentation used with broadband inputs/frontends reach rapidly its technical limits or overshoot it. The transition to overload isn't always clear and can lead to misinterpretation.

The presentation gives advice for correct use of test instrumentation with regard to technical limitations.

Referent: Volker Janssen, Rohde & Schwarz GmbH & Co. KG

Abstract

Modern signal-analyzer technology used for efficient EMI measurements

EMI measurements are well established in the R&D cycle of many companies – starting from EMI precompliance measurements with close field probes to compliance tests in an own EMC test facility or at a test house providing services. Modern receiver architecture has done both, reduced measurement uncertainties and shortened test time by far. On top of that, an analyzer with fully digital IF can also perform vector signal analysis for functional tests of widespread RF interfaces in your devices such as Bluetooth, ZigBee, WLAN etc.

Agilent Technologies has introduced a very consistent hybrid (superheterodyne + FFT-based) receiver architecture for its EMC capable set of analyzers, ranging from entry-level priced precompliance analyzer through fully CISPR 16 compliant receiver for conformance tests. In this module we will present how efficiently typical EMI measurements can be done with these instruments. And we will demonstrate how to benefit from breadths of available applications for other daily measurement challenges.

Referent: Thomas Lange, Agilent Technologies

Abstract

Does EMC make sense in research & development?"

The statistics of electronic failures shows that nearly 40% of all faults are due to insufficient EMC measures. This short seminar "Does EMC make sense in research & development?" shows what you can do to reduce (EMC) interference, unexpected failures and shorten the development time. It identifies the necessary measuring & test equipment and the expected investment costs. Target only do as much EMC as required and pass easily in the EMC laboratory at the end of the development. In addition EMC Tuning helps to comply the EMC directives and reduce the manufacturing costs.

Referent: Peter Wüthrich, Emitec AG

Abstract

Solutions for EMI Diagnostic during the Development of Embedded Systems

The Mega-Trend towards mobility and wireless connectivity makes electromagnetic emission tests become a major concern and design target for more and more engineers. Testing products with Real-Time spectrum analyzers and Mixed Domain Oscilloscopes during the development helps to qualify modern electronic devices on their radio interface but also regarding their emissions. Unique trigger capabilities and multi domain displays make it easy to measure and understand desired or undesired radio phenomena. Even intermittent and hopping signal are intuitively measured in time, modulation and spectrum domain.

Referent: Joern Hoepfner, Tektronix GmbH