

Elektrotechnik-Elektronik-Informationstechnik

EEI KOLLOQUIUM

Networking the World – The Way to Global Wireless Solutions

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Donnerstag, der 04.12.2014, 17⁴⁵ Uhr
Cauerstr. 9, Raum 4.20

Diskussionsleitung: Prof. Dr.-Ing. R. Weigel

As mobile broadband technologies evolve, support of 2G, 3G, 4G LTE and Wi-Fi technologies as well as of navigation (GNSS) in the same device is required to guarantee best possible data and voice services and to provide great user experience no matter where users are and which services they demand. Coexistence and simultaneous operation of multiple different wireless access technologies is a key challenge of the wireless industry. Today's typical use of Smartphones is certainly creating data revenue – on the flip side, however, the resulting huge capacity demand is causing big headaches to network operators. Available non-congested spectrum is a rare resource and new frequency bands as well as aggregation of spectrum are in the focus of standardization. This presentation will, after a broad introduction, demonstrate requirements for today and tomorrow, and highlight architectural breakthroughs to enable low cost high performance solutions.