

On the Edge of Mobile Evolution

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Abstract

Magister Solutions Ltd. is Finnish based research and development partner in the field of information and communication technology. Our mission is to utilize our expertise to offer our customers R&D that has true applications in mobile products, procedures, and services. In the presentation those issues will be reflected through various case studies related to latest (3GPP) standardization trends in wireless cellular technologies, such as:

- Dual Cell (DC) High Speed Downlink Packet Access (HSDPA): Discontinuous Data Transmission (DDTx), Single Frequency Network (SFN) or Multi Flow.
- Switched antenna transmit diversity for High Speed Uplink Packet Access (HSUPA).
- Self-Organizing Networks (SON) concept for Long Term Evolution (LTE) networks, detection of sleeping cells.
- Coverage optimization for Minimization of Drive Tests (MDT) in LTE networks.
- Performance benchmarking between 3G HSDPA and next generation LTE system.
- Carrier Extension for HSUPA: Standardized dual carrier (5+5 Mhz) operation for HSUP.

Come and see what is happening on the edge of mobile evolution.

Index Terms: Mobile technologies, HSDPA, LTE.