



# 3G Technology

## 7.9.2010, Helsinki

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Kieli	Opetuskieli on suomi, kurssimateriaali on englanninkielinen.

### O H J E L M A

#### Tiistai 7.9.

08.30 – 09.00 Aamukahvi

- 09.00 –
- 3G NETWORK - Overview**
    - Cellular system generations
    - 3GPP 3G+ releases and features
    - Network evolution ( 3G, 4G )
    - 3GPP 3G vs. other cellular systems
  - 3G NETWORK ARCHITECTURE**
    - Architecture of the 3GPP 3G network
    - Architecture of the 3G UTRAN radio network
    - Network interfaces
    - Transmission principles between network elements

11.30 – 12.15 Lounas

- 12.15 –
- 3G CORE NETWORKS**
    - 3G changes to GSM/GPRS core networks
    - 3G changes to network security
    - 3G QoS principles
    - Operation of the CS Video Call service
  - 3G RADIO INTERFACE**
    - Principles of operation in the WCDMA radio interface
    - WCDMA radio resource management principles
    - WCDMA packet scheduling mechanisms
    - WCDMA CS/PS mobility procedures

14.15 – 14.30 Kahvi

- 14.30 –
- 2G/3G INTEROPERABILITY**
    - Interoperability principles between 2G and 3G networks
  - HSPA INTRODUCTION**
    - Data transmission principle in HSDPA
    - Network changes in HSDPA
    - Data transmission principle in HSUPA
    - Network changes in HSUPA

16.30 Kurssipäivä päättyy