



# Mobile WiMAX Technology

5.5.2010, Helsinki

Aika	5.5.2010
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Kieli	Opetuskieli on suomi, kurssimateriaali on englanninkielinen.

## O H J E L M A

### Keskiviikko 5.5.

08.30 – 09.00 Aamukahvi

- 09.00 –
- MOBILE WIMAX OVERVIEW**
    - Technology and market drivers for WiMAX
    - Differences between Fixed and Mobile WiMAX
    - WiMAX concepts
    - Standardization principles of WiMAX technology
    - WiMAX concepts
  - MOBILE WIMAX AIR INTERFACE**
    - WiMAX frequency bands
    - OFDM technology principles in Mobile WiMAX
    - Protocols in the Mobile WiMAX air interface protocol stack
    - User data transmission principles in the Mobile WiMAX air interface
    - Advanced antenna system principles in WiMAX
      - MISO, SIMO, MIMO and beamforming

12.00 – 12.45 Lounas

- 12.45 –
- MOBILE WIMAX NETWORK**
    - WiMAX network architecture options
    - Functions of WiMAX network elements
    - WiMAX security features
    - End-to-end data transfer principles in WiMAX
    - Fixed transmission requirements for WiMAX

14.30 – 14.45 Kahvi

- 14.45 –
- MOBILE WIMAX OPERATION**
    - How mobile devices join a Mobile WiMAX network
    - WiMAX roaming principles
    - WiMAX bandwidth allocation and QoS mechanisms
    - WiMAX handover mechanisms

16.00 Kurssin päätös