



# Mobile WiMAX Technology

22.3.2010, Helsinki

Aika	22.3.2011
Paikka	Finnet-liitto ry, Sinebrychoffinkatu 11, Helsinki
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Kouluttaja	Jussi Laakso, Upknowledge Oy
Kieli	Opetuskieli on suomi, kurssimateriaali on englanninkielinen.

## OHJELMA

### Tiistai 22.3.

08.30 – 09.00	Aamukahvi
09.00 –	<b>MOBILE WIMAX OVERVIEW</b> <ul style="list-style-type: none"><li>- Technology and market drivers for WiMAX</li><li>- Differences between Fixed and Mobile WiMAX</li><li>- WiMAX concepts</li><li>- Standardization principles of WiMAX technology</li><li>- WiMAX concepts</li></ul> <b>MOBILE WIMAX AIR INTERFACE</b> <ul style="list-style-type: none"><li>- WiMAX frequency bands</li><li>- OFDM technology principles in Mobile WiMAX</li><li>- Protocols in the Mobile WiMAX air interface protocol stack</li><li>- User data transmission principles in the Mobile WiMAX air interface</li><li>- Advanced antenna system principles in WiMAX<ul style="list-style-type: none"><li>-- MISO, SIMO, MIMO and beamforming</li></ul></li></ul>
12.00 – 12.45	Lounas
12.45 –	<b>MOBILE WIMAX NETWORK</b> <ul style="list-style-type: none"><li>- WiMAX network architecture options</li><li>- Functions of WiMAX network elements</li><li>- WiMAX security features</li><li>- End-to-end data transfer principles in WiMAX</li><li>- Fixed transmission requirements for WiMAX</li></ul>
14.30 – 14.45	Kahvi
14.45 –	<b>MOBILE WIMAX OPERATION</b> <ul style="list-style-type: none"><li>- How mobile devices join a Mobile WiMAX network</li><li>- WiMAX roaming principles</li><li>- WiMAX bandwidth allocation and QoS mechanisms</li><li>- WiMAX handover mechanisms</li></ul>
16.00	Kurssin päätös