

# WiMAX TECHNICAL SEMINAR

## Evolution<sup>TM</sup> WiMAX DM256 Workshops

### DESCRIPTION

A unique four-day seminar in IEEE 802.16-2004 (WiMAX) network technology, covering the PHY and MAC layers for both sub and base stations.

### WHO SHOULD ATTEND?

Hardware and software engineers planning to design WiMAX equipment based on Wavesat's technology.

### COURSE PRE-REQUISITE

Attendees should have digital, hardware or software design experience.

### SEMINAR CONTENT

#### DAY 1

##### IEEE 802.16-2004

Standards overview  
What is OFDM?  
Market and applications overview  
Wavesat solutions and roadmap

##### IEEE 802.16-2004 Implementation

Base Station, MAC, PHY, RF  
Sub Station, MAC, PHY, RF

#### DAY 2

##### Understanding Wavesat PHY: DM256

Architecture  
Registers  
Configuration  
Workshop

##### Understanding Wavesat MAC Architecture for BS and SS

Software MAC versus hardware MAC  
BS architecture  
SS architecture  
Workshop

#### DAY 3

##### Software Development Tools Installation

Timesys tool suite  
Installation and compilation  
Modifying the scripts  
Workshop

##### Implementation of Hardware MAC Netlist in FPGA

Netlist integration into Xilinx Spartan 3  
How to add features to the MC236 netlist  
RF Interface

##### DM256 Reference Kit Hardware Architecture

#### DAY 4

##### Measurement tools: VSA, ESG, Channel Simulator

Simulation of OFDM signal: E signal generator  
Analysis of an OFDM signal: vector signal analyser  
SUI models and channel simulator

##### Workshops

DM256 configuration and test  
MC236 / DM256 testing using the DM256 Reference Kit  
Software change using the DM256 Reference Kit  
Frame simulation and measurement using the VSA and ESG

### Date

July 25-29 2005, in Montreal, Canada

For more information about the seminar or to check for availability, price or to reserve a place, please contact your direct contact at Codico or [ondrej.gavura@codico.com](mailto:ondrej.gavura@codico.com)