

WiMAX TECHNICAL SEMINAR

EvolutionTM 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

October 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