WiMAX TECHNICAL TRAINING

Evolutive™ WiMAX DM256 Workshops

DESCRIPTION

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

"The best way to deploy an 802.16d/e solution successfully is to understand the whole picture and not just the buildup. End users seeking to develop WiMAX for their organizations can greatly improve their planning, configuring, deployment, and maintenance components by attending this four-day training sessions and workshops."
Greg Phillips, CEO, AirTegrity Wireless

WHO SHOULD ATTEND?

This training is ideally designed for hardware and software engineers planning to develop WiMAX equipment based on Wavesat's DM256 but is also suited for technical people wanting an in-depth coverage of IEEE 802.16-2004 network technology, benefits, operation, planning and deployment. Wavesat's WiMAX Technical Training is given by Wavesat's application engineering staff and includes a series of hands-on workshops using Wavesat's Development Platform including the DM256 configuration and testing.

COURSE PRE-REQUISITE

Attendees should have digital, hardware or software design experience, preferably in modem technology

"We are taking WiMAX from concept to deployment for our customers and partners. Through these hands-on and highly technical training courses, our partners and customers can effectively cut through the hype and grasp the fine points and details of the technology and standard. These sessions are equally valuable to Manufacturers, Operators, Universities and Regulators. "
Vijay Dube, Wavesat's VP Marketing and Business Development.

CODICO®

Mühlgasse 86-88 • A-2380 Perchtoldsdorf • Austria
Tel: +43 1 86 305 - 0 • Fax: +43 1 86 305 - 98
e-mail: office@codico.com • www.codico.com

Wavesat
Chips for a new wireless world™

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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

Dates

Wavesat's WiMAX Technical Training will be held on a quarterly basis.
The next training is scheduled for April 3-6 2006 in Montreal, Canada.

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e-mail: office@codico.com • www.codico.com

For more information about the training, please contact support@wavesat.com

To check availability, price or to reserve a place, please contact sales@wavesat.com

Wavesat
Chips for a new wireless world™

Wavesat Inc.
1375 Trans-Canada Highway
Suite 300
Dorval, Quebec H9P 2W8
Canada

Tel: (514) 684-0200
Fax: (514) 684-0288

www.wavesat.com
sales@wavesat.com