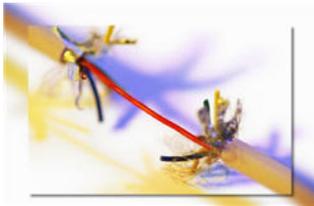


# Wireless Access



We examine the basic WLAN principles. We discuss and compare the most standards on the market. Furthermore we discuss offered services and limitations. Then we take a closer look upon the network planning process. Finally we examine ongoing and future developments.

## WLAN - Insight

### OBJECTIVES

- Understanding WLAN..
- fundamentals
- from user perspective
- as a competitive solution for wireless applications and services

### TARGET GROUP

The Platform day is intended for everyone who wants to know how WLAN technology can be used to improve the accessibility to Internet without wire connections.

### PRECONDITION

No preknowledge needed - this is a course for non-technicians

## WLAN

### OBJECTIVES

- Understanding WLAN..
- functionalities
- hardware selection according to wanted services and location
- deployment for good efficiency and productivity
- typical pitfalls and how to avoid those in WLAN deployments

### TARGET GROUP

The Standard day is intended for everyone who works with..

- radio network design
- system maintenance
- system designers
- operators
- consulting agencies

### PRECONDITION

In order to fully benefit from the Standard course, it is recommended that participants have a basic knowledge of mobile communications systems and basic data communication knowledge

## WLAN - Insight

### Platform - 1/2 day

#### Content

- ✘ **The benefits of WLAN**
- Why wireless?
- Who may use it?
- Offered services
- Where to deploy WLAN
- ✘ **A non-technical description of the technical stuff**
- ✘ **Standards**
- ✘ **Mobility and interaction with other systems**
- ✘ **Practical deployment**
- ✘ **The future**

#### Products

- WLAN-1: WLAN Insight (1/2 day)
- WLAN-2: WLAN (1 day)

#### Product Combinations

- WLAN-12: WM-1+2 (1 1/2 days)

## WLAN

### Standard - 1day

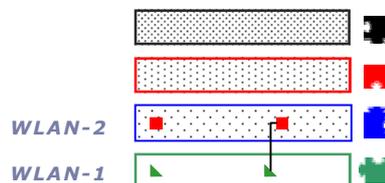
#### Content

- ✘ **Why WLAN?**
- ✘ **Basic principles**
- Layers (LLC, MAC and PHY)
- Air interface
- ✘ **Standards**
- The IEEE 802.11 family
- Competing technologies
- Ongoing and future development
- ✘ **Network configurations**
- Ad hoc
- Infrastructure
- System example - IEEE 802.11g

#### ✘ Services and limitations

- Quality of service
- Security - authentication and privacy
- Frequency
- Mobility
- Power management
- ✘ **Network planning basics**
- Planning process
- Coverage
- Capacity
- Throughput
- Interference
- Security
- Roaming
- Planning tools
- Expansion

Related Course: WiMAX & Services, WiMAX



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