

Wireless Access



WLAN

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

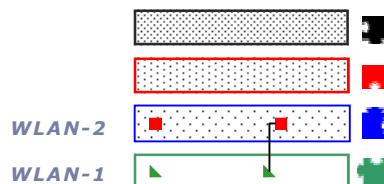
Content

- ✘ **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



WLAN-12



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