

# Data Communication



## Internet Protocol Analysis

Internet protocols cover not just TCP/IP but also different Applications protocols like HTTP, FTP, telnet, RTP etc. Other protocols like DHCP, DNS, ICMP and ARP are necessary for Internet functionality. A better knowledge about the protocols and how they work not only in theory but also practically is essential to configure a network that shall work properly.

### Internet Protocol Analysis

#### OBJECTIVES

- Understanding Internet protocols by..
- study traffic cases
  - signaling analyze
  - network analyze
  - security analyze

#### TARGET GROUP

People working with data communication in and want to have "hands on" experience. The course is primary for those who want to get a deeper understanding of protocols and IP based traffic.

#### PRECONDITION

Fundamental knowledge about TCP, UDP and IP.

#### TARGET AREAS

- network performance
- network design
- network security

### Standard - 1 day

#### Content day1

##### Content

##### ✕ Protocols Overview

- HTTP, SMTP, POP3, FTP
- TCP/UDP
- IP
- Ethernet

##### ✕ Traffic cases

- Applications
- Transport Protocols
- IP routing
- Ethernet, ARP

##### ✕ Traffic Analyze

- Applications
- Transport protocols
- IP routing
- Ethernet ARP

##### ✕ Protocol Analyzer

- Protocols
- Filters
- Configuration

##### ✕ Internet Security

- R

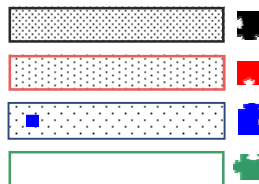
*Related Course: Applied Data Communication*

### Product

#### IPA-1: Internet Protocol Analysis



IPA-1



"Data Communications concerns the transmission

of digital messages to devices external to the message source. It is the aim of any communications system to provide the highest possible transmission rate at the lowest possible power and with the least possible noise" *Christopher E Strangio*



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