

IPv6 - Delta to IPv4

In April 2011, the Asia Pacific Network Information Centre has announced, that it has released the last IPv4 address block of its stock. At the same time, the worldwide demand for IP addresses is increasing, due to the exponential requirement for fixed addresses for electronic equipment. The issue addressing can only be solved by the replacement of IPv4 with IPv6. Advantages and disadvantages of IPv6 are topic of this course, as well as basics of IPv6 and its applications. Basically, the difference between IPv6 / IPv4 will be discussed, thus, at least basic knowledge of IPv4 is a prerequisite.

Target Group / Requirements

Technical staff with the requirement of IPv6 in their work

Course Content

Introduction IPv6

- reasons for IPv6
- overview functionalities
- overview protocol structure
- IPv6 within TCP/IP protocol stack

IPv6 Protocol structure

- header structure & parameters
- extension headers
- IP Control Message Protocol in v6

Addressing in IPv6

- address formate und adress space
- uni-, multi- and anycast addresses
- prefixes and address identifiers
- address resolution and neighbour discovery
- auto configuration

Routing in IPv6

- routing tables
- RIP, OSPF, ISIS, BGP4 overview

Higher/Application Layer

- TCP/UDP
- host configuration via DHCP in IPv6
- IPv6 DNS
- IPv6 client-server architecture
- SLP, FTP and HTTP

Mobile IPv6

- idea of mobile IP
- implementation in IPv6
- binding and registration

Course Duration:

2 days

Course Number:

ND1342

Requirements:

Basics of IPv4

Integration and Migration IPv4/IPv6

- dual stack
- tunneling
- translation
- integration of IPv6 in IPv4
- migration scenario

Certification

Certificates are given to all participants at the end of the course about the successful completion.

Course Registration:

Please contact us via

- phone: +49 89 1894354-0
- email: training@tfk.de or
- via our website www.tfk.de/training

You will receive a confirmation of your registration. We can also advise you concerning the best combination of course contents.

For clients with special requirements the optimal training concept can be customized. Modules from our training portfolio can be combined to meet your company-specific needs.