

## IPv6 Basics - End-User Workshop

Even that IPv6 is meanwhile almost 20 years old it was not that much implemented in the enterprise. But now most telephony systems support IPv6 and all modern operating systems prefer by default IPv6 over IPv4. It is not only the huge address space of IPv6 and the different notation of the addresses, several concepts and functionalities are totally different from what we know from IPv4. The IPv6 Workshop was developed to transfer the necessary knowledge to be able to configure a telephony system to integrate in an IPv6 network.

### Target Group

Technical staff from

- | Enterprise networks responsible for network integration, operation and maintenance.
- | Infrastructure and terminal equipment suppliers.
- | Software companies and measurement suppliers responsible for development, production, quality monitoring, service and documentation.

### Methods

ILL / RLL

If you want to participate remotely, please note the following technical requirements.

- | Equipment to participate in a video conference e.g. headset
- | Two PCs or one PC with dual screens. One will be for the web session and the other is for documentation access.

Further information will be provided prior to the start of the course.

### Key Features

The course covers all the important facts and features around IPv6. Starting with the motivation for IPv6 and the incredibly large address space topics such as address notation, address types are covered as well as the structure of IPv6 and the new header format including extension headers. Fantastic features such as the new Stateless Address Autoconfiguration (SLAAC) and how IPv6 can configure a unique address for global communication without the aid of DHCP are explained in detail, while DHCPv6 and the role of DNS in IPv6 are also covered. Finally, techniques for communication between IPv6 and IPv4 networks such as tunneling and translation are presented.

- | Why IPv6?
  - | IPv6 address space
  - | IPv6 address types (unicast, multicast, anycast)
  - | IPv6 header, extension header, extension header
  - | ICMPv6
  - | Neighbour discovery protocol
  - | Stateless Address Autoconfiguration (SLAAC)
  - | Network renumbering
  - | IPv6 routing protocols
  - | DHCPv6
  - | IPv6 and DNS
  - | Name resolution with mDNS and LLMNR
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- | Security with IPv6
- | Transition technologies
- | Double stack
- | Tunneling techniques
- | Translation techniques
- | Planning for IPv6

## Events

Dates on request

### Duration

2 Days

### Certificate

TOP Certification

## Contact Person



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