TK711: IPv6 Fundamentals

Prerequisite

Participants should have knowledge on IP networks.

As a prerequisite, it's recommended to attend following courses:

TK710: IP Network Fundamentals

Target groups

Personnel who are working on IP networks

Duration

3.0 Days

Course Content

1. IPv4 summary

- 1.1 IPv4 address classes
- 1.2 IPv4 header format
- 1.3 IPv4 issues

2. IPv6 Introduction

- 2.1 IPv6 Overview
- 2.2 Why IPv6?
- 2.3 Features of IPv6
- 2.4 Shortening IPv6 Addresses
- 2.5 IPv6 Prefix

3. IPv6 address basics

- 3.1 IPv6 address types

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3.1.1 Global unicast

3.1.2 Link-local unicast

3.1.3 Site-local unicast

3.1.4 Multicast

3.1.5 Anycast

3.2 IPv6 Summarization

4. IPv6 Protocol basics

4.1 IPv6 Header format

4.2 IPv6 Security mechanisms

4.3 IPv6 Routing

5. Transition mechanisms

5.1 Dual Stack

5.2 Tunneling

5.3 Translation

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