XTRAN FOR SERVICE ENGINEERS – TRANSPORT Profile

Course description

- **Target Audience**

  XTran Service Engineers who are responsible for the configuration, daily maintenance and troubleshooting of XTran networks in the TRANSPORT sector.

- **Course Prerequisites**

  Basic knowledge of telecommunications (IP and WAN technologies) and electronics.

- **Course Objectives**

  After the training, the students should be able to:
  - position XTran and MPLS-TP technology;
  - setup a basic XTran network
  - setup a basic set of tunnels and Ethernet-services
  - demonstrate TXCare
  - install and replace the HW components of an XTran network
  - use the XTran Management System (TXCare) monitoring functions to indicate and solve alarms
  - use the TXCare to set up tunnels and services for Ethernet & E1/T1 applications
  - use the TXCare to set up basic routing functionality
  - use the OAM-features of TXCare to perform measurements
  - install TXCare and perform upgrades
  - perform the TXCare backup procedures

- **Exercises**

  Hands-on training is included.

- **Duration**

  5 days

Contents

The course "XTran for Service Engineers – Getting Started" is part of this curriculum.

- **XTran for Service Engineers – Getting Started**

  For more detailed information: see the description of this course.
  - Introduction into MPLS-TP & XTran
  - XTran Essential Components
  - XTran Getting Started
  - Tunnels & Services
  - TXCare

- **XTran for Service Engineers – In-Depth**

  - **MPLS-TP Technology**

    In this module we expand on the underlying principles of MPLS and MPLS-TP and its implementation in XTran.

  - **TXCare**

    We will explain more TXCare features, like the upgrade process, the Remote Client and various maintenance topics.

  - **XTran Ethernet Interface Modules**

    In this chapter we present an overview of all XTran Ethernet interface modules.

    The students will install/replace, configure applications and (re)connect peripheral equipment on different LAN and WAN modules.

    We discuss and implement the basic routing functionality of the 9-L3A-L.

    We will explain and use advanced Ethernet features as PoE, E-Tree. Additionally we discuss QoS options in XTran.

  - **XTran Circuit Emulation Interface Modules**

    In this chapter we present an overview of all XTran CES interface modules.

    The students will install/replace, configure applications and (re)connect peripheral equipment on the 4-E1-L IFM.

  - **XTran OAM**

    We discuss the OAM-features of XTran: performance measurements, logging options and some troubleshooting exercises.

  - **XTran Troubleshooting**

    We discuss some tips and tricks for troubleshooting in XTran networks.