XTRAN FOR SERVICE ENGINEERS

Course description

- **Target Audience**

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

- **Course Prerequisites**

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

- **Course Objectives**

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

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

  o **MPLS-TP Technology**

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

  o **TXCare**

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

  o **XTran Interface Modules**

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

  The students will install/replace, configure different applications and (re)connect peripheral equipment on the following modules : 4-GC-LW, 4-GO-LW, 1-10G-LW & 4-E1T1-L.

  Several security-related functions are treated.

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

  o **XTran OAM**

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

  o **XTran Troubleshooting**

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