

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:

- position XTran and MPLS-TP technology;
- o setup a basic XTran network
- o setup a basic set of tunnels & Ethernet-services
- o 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 & services for all applications
- use the OAM-features of TXCare to perform measurements
- o 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.

- o Introduction into MPLS-TP & XTran
- o XTran Essential Components
- XTran Getting Started
- o Tunnels & Services
- TXCare

XTran for Service Engineers – In-Depth

MPLS-TP Technology

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

TXCare

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

XTran Interface Modules

In this chapter we discuss the different interface modules of XTran: 4-GC-LW, 4-E1T1-L, 4-DSL-L, 2-C-37.94, 7-SERIAL, 4-2/4WEM and 1-10G-LW.

The students will install/replace the interface cards, configure different applications and (re)connect the peripheral equipment.

O XTran OAM

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

XTran SYNCE

We explain the options that XTran/TXCare offer for synchronization over the XTran network (using SYNCE).

o XTran Troubleshooting

We discuss some tips & tricks for troubleshooting in XTran networks