XTRAN FOR NETWORK DESIGNERS

Course description

- ### Target Audience

  This course is only intended for partners of OTN Systems. The target groups are proposal and project managers who need to design (i.e. plan) 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 describe the functionality of XTran and more specifically the application of its interface modules;
  o position XTran & MPLS-TP technology;
  o know and use the main advantages of XTran to develop business in specific market segments.
  o design an XTran-network, starting from the requirements and resulting in a Bill of Materials.

  For the design of "IP-over-XTran" networks, we do refer to the advanced course "IP Design in XTran networks".

- ### Exercises

  Hands-on training is NOT included.
  A demo of an XTran network is included.
  Exercises to make BoMs (Bill of Materials) are included.
  Case studies of proposals and projects are discussed.

- ### Duration

  2 days

Contents

The course "XTran for (Sales) Managers" is part of this curriculum.

- ### XTran for (Sales) Managers

  For more detailed information: see the description of this course.

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

- ### XTran for Network Designers

  o **Design of an XTran-network**

  In this chapter we will explain the workflow to design an XTran-network on the physical layer. Based on customer requirements, a design (hardware & topology) will be proposed.

  o **SyncE**

  We will first discuss the purpose of SyncE and then how such a requirement can be implemented in an XTran-network.

  o **Avoid Single Point of Failures in your design**
  o **Priority – Delay – Bandwidth**

  We will discuss the different design options for these parameters and how these parameters may influence your design.

  o **XTran Dimensioning**

- ### Case Studies