

Introduction to XTran – Course Description

Target Audience

- Technical profiles who require a high-level understanding of XTran's architecture and components.
- Non-technical profiles who need a high-level overview of XTran's purpose, capabilities, and value within operational networks.

Course Prerequisites

No prior knowledge is required.

Course Objectives

By the end of this one-day course, participants will be able to:

- Understand the MPLS-TP technology and positioning of XTran in Operational Technology (OT) networks.
- Understand the benefits of establishing dedicated connections for applications using XTran.
- Identify the key components of XTran nodes and understand their functions.
- Recognize the role of TXCare, XTran's network management system, in various stages of the network's lifecycle.
- Obtain a high-level overview of XTran's capabilities.
- Recognize how these capabilities are applied in real-world scenarios.

Exercises

This course does not include hands-on labs. Demonstrations are used during the training to illustrate key concepts and workflows.

Duration

1 day

Content

The content is personalized to the audience, with more or less technical detail depending on the participants' background and expectations.

- Introduction to **MPLS-TP** as the purpose-built transport technology for OT networks, and presentation of **XTran** – developed by Belden – as the optimal solution.
- Overview of the different **types of connections** that can be provisioned in XTran via tunnels and services, and how resilience is ensured through the different protection mechanisms.
- Step-by-step introduction to the **XTran hardware**, identifying the individual components and their roles.
- Presentation of **TXCare**, XTran's Network Management System, from its position in the overall network to its core functionalities such as configuration and network monitoring.
- Brief overview of XTran's capabilities, features, and available add-ons.
- Real-world use cases: examples that demonstrate how XTran is deployed in operational networks.