SDX 6000 OLT

3 days *virtual* or *classroom* training

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Our SDX 6000 Series of software-defined optical line terminals (OLTs) consists of open and disaggregated access devices that support a broad range of PON standards, including 10G Combo PON, XGS-PON, GPON, and 10G-EPON. These devices are built using modern design principles and apply lessons learned from data center networks. This approach is an architectural shift from previous networks that have historically relied on closed, monolithic systems managed by vendor-specific management systems. This evolution enables operators to vastly lower their costs to build, operate, innovate, and grow their networks.

Objective

This course is designed for those students who will be designing, implementing, and supporting solutions using the SDX 6000 Series of enterprise-class, fully managed Optical Line Terminals (OLTs). This course will include interactive lectures as well as lab exercises presented through our virtual lab environment. Integrated lab exercises are designed to reinforce the class content with installation, configuration, and troubleshooting procedures. After completion of the course, the student should be able to install and maintain the ADTRAN SDX 6000. To enroll, go to www.adtranuniversity.com.

Benefits & Audience

- Benefits: To achieve self-sufficiency at installation, configuration and maintenance of the SDX 6000 OLT solution
- Certificate of Attendance
- Class size: 12 students maximum
- Target Audience: End Users, System Engineers, Network Engineers, Value Added Resellers and Distributors

Prerequisites

SDX 6000 Overview (Self-paced)– students can self-enroll at **www.adtranuniversity.com**

SDX 6000 OLT

Agenda

Theory/Lecture

- SDX OLT and ONT Overview / CLI: Console and Management Provisioning
  - SDX OLTs and ONTs
  - Optics
  - CLI Modes and Console Access
  - Management Configuration
  - CLI Commands, Tips, Hints and Shortcuts
- PON Basics
  - PON Introduction and Construct
  - EVC Sample Flows
  - ONU Activation Process
  - Setting ONU Registration-ID
- SDX OLT Onboarding and Alarm Suppression
  - Profile-Vectors and Profiles Review
  - MCP Object Naming
  - Onboarding - CDA Method
  - Onboarding – Orchestrate View Method
  - Alarm Suppression and Profiles
- Software Upgrades and Other Jobs
  - OLT Software Upgrade Job
  - ONU Software Upgrade Job
  - Other MCP Jobs
- Provisioning Services and Traffic Flow
  - Data Service Provisioning
  - Data Service Overview
  - Naming Conventions
  - Channel Interfaces
  - Troubleshooting Traffic Flow
  - Video and Voice Provisioning
  - HQoS Architecture Review
- Building a Service Profile Vector
  - Profile Vector Basics
  - Constructing a Data Service Profile Vector
- Mosaic CP Auto Provisioning
  - ONU Auto-Activation
  - Bundle Builder Profile
  - Interface Builder Profile
  - Group and Conditional Profiles
  - Auto Provisioning Walk-through

Practice/Lab

- Students will be using Amazon Workspaces (AWS) for all lab exercises.

- Console Access (CLI) – Setting OLT System Defaults
- Provisioning Management
- Mosaic CP Onboarding
- OLT Software Upgrade
- ONU SW Upgrade
- Data Services Provisioning
- DUD and Auto Provisioning

SDX 6000 OLT

Contact

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Ordering Information

Part Number	Description
1600CSYS6025E	Per Enrollment (Student)
1600CSYS6025C	Per Dedicated course