1FINITY T310 Turn-up and Maintenance

Course Contents

The 1FINITY T310 Turn-up and Maintenance course describes T310 hardware, turn-up provisioning, PMs, and basic maintenance activities, including:

- System Description
- Installation
- Turn-up Using CLI
- Performance Measurements
- Maintenance

Who Should Attend

The T310 Turn-up and Maintenance course is designed for those seeking information about the turn-up and maintenance of T100 network elements using the CLI (Command Line Interface). The course shows examples of the CLI commands used to turn-up a typical node in a typical network using step-by-step turn-up procedures. Basic scheduled and unscheduled maintenance is also addressed to show how to access and analyze PMs (Performance Measurements) and alarms.

Course Outline

- System Description
  - T310 Overview
  - T310 Configuration used in Course
  - T310 Management Interfaces
  - T310 Management Connectivity – Stand-Alone
  - T310 Management Connectivity – Daisy-Chained
  - T310 Base Unit
  - Network PIU
  - SFP+ and CFP2-AC0
  - Fan units
  - Power Terminal Adapter

- Installation
  - Adjust Mounting Brackets
  - Install Mounting Brackets in Rack
  - Verify Bracket Spacing
  - Tighten all Bolts/Screws
  - Remove Power Terminal Adapter Cover
  - Install Power Terminal Adapter
  - Install Blade in Rack Brackets
  - Secure Blade to Rack Through Fiber Restraint Gate
  - Connect Power Cables
  - Replace Power Terminal Adapter Cover
  - Install Fan Units
  - Install PIU and Optics
- Turn-up Using CLI
  - T310 Auto-provisioning
  - CLI fundamentals
  - Terminal Emulator
  - Logging on
  - Enter Configuration Mode
  - Enable Fans
  - Set System Name
  - Provision LCN
    - Define SFP for LCN1
    - Define LCN1 as Ethernet and Set Its Speed
    - Define LCN1's IP Address/Subnet Mask
    - Provision a Static Route for LCN1
  - Provision NTP
    - Provision an NTP Server for Time/Date
    - Provision a Redundant NTP Server
    - Show NTP Servers
  - Enable Temporary Licenses
  - Show License Status
  - Show Provisioned Users
  - Provision a User
  - Delete a User
  - Configuration Provisioned in this Lesson
  - Auto-provisioning
  - Enable Base Unit
  - Enable Network PIU
  - Enable the CFP2 on E1 Port in Slot 1
  - Provision E1 Port Optical Channel
  - Provision E1 Port OTU
  - Provision E1 Port ODU

  - Verify OCH, OTU, and ODU
  - Enable the SFP+ on C1 Port in Slot 0
  - Enable an Ethernet Client Port
  - Provision Low Order ODU for Ethernet Client Port
- Performance Measurements
  - PM bins
  - Initialize PMs
  - Equipment-based PMs
  - Interface-based PMs
- Maintenance
  - T310 LEDs and Controls
  - Alarms Summary
  - Show Alarms List
  - Backing up to an FTP server
  - Restoring from an FTP server