# NETSMART 1500 Management System Carrier Ethernet Provisioning

## Ordering Information

**Course Code:** NS1500-CEP  
**Course Duration:** 4 Days  
**Ordering Numbers:**  
- In-House: TRIH-NS1500CEP  
- Suitcase: TRSC-NS1500CEP*  
- MSP Suitcase: TRSE-NS1500CEP*  
* For suitcase pricing, contact your Fujitsu Sales Representative or email our Training Coordinator at knowledge.delivery@fnc.fujitsu.com.

## Prerequisites

- SONET Tutorial  
- DWDM Tutorial  
- Ethernet Tutorial

## Course Contents

**Overview**  
- NETSMART 1500 Management System  
- Network Overview  
- Ethernet Services Provisioning  
- Ethernet Over SONET Provisioning  
- Carrier Ethernet  
- Ethernet Services - EPL, EVPL, EPLAN, EVPLAN, EP Tree, and EVP Tree  
- EVC - UNI, INNI, and ENNI  
- C-Ports and S-Ports  
- LIFs and PORTMODE  
- Service Combinations on FLASHWAVE 9500, FLASHWAVE CDS, and FLASHWAVE 4100 platforms  
- Scheduling and Shaping on FLASHWAVE 9500, FLASHWAVE CDS, and FLASHWAVE 4100 platforms  
- Bandwidth Profiles  
- Policing and Shaping  
- Quality of Service  
- Service OAM  
- SOAM Service Domains, MEGs, MEPs, and MIPs  
- G.8031 Protection

**System Components**  
- Shelf Units  
- Line Units  
- Fan Units  
- SFPs and XFPs

**QoS Templates**  
- Policing and Shaping  
- Ingress CoS  
- Ingress Bandwidth  
- Classful Policing  
- Manage QoS Template

**Unprotected Services**  
- Provisioning and Managing Unprotected Services  
- SOAM Fault Management  
- Adding a MEG  
- Adding a MEP  
- SOAM Management

**G.8031 Protection Domains**  
- Provisioning and Managing G.8031 Protection Domains  
- PQoS Templates  
- VLAN Tagging  
- Near End Syncs With Far End  
- Working and Protect Routes

**Adding a Service To a Protection Domain**  
- Provisioning and Managing Services On a Protection Domain  
- Creating and Managing LIFs  
- PQoS Templates  
- Creating and Activating EVC/OVC

**Ethernet Tunnels**  
- Provisioning and Managing Ethernet Tunnels  
- Point-and-Click Ethernet Tunnel Creation  
- Displaying Ethernet Tunnels: Graphical, Tabular, and Topology Views

**Services Across Ethernet Tunnels**  
- Unprotected Ethernet Services  
- Point-and-Click EVC/OVC Creation  
- Displaying Tunnels  
- Selection Routes  
- Activation Ethernet Service

**CWDM in Mobile Backhaul Networks for FLASHWAVE 7120 NEs**  
- Cell Site Connectivity  
- Provisioning Ethernet Services

**FOSPORT Protection On a FLASHWAVE 4100 ES NEs**  
- Provisioning and Managing FOSPORT Protection

## Course Description

This course provides an overview of Carrier Ethernet, with in-depth provisioning examples and practice of typical services deployed on one of the following platforms:  
- FLASHWAVE 9500 Packet Optical Networking Platform (ONP) Release 6.1.2  
- FLASHWAVE CDS Micro Packet Optical Networking Platform (ONP) Release 6.1  
- FLASHWAVE 4100 ES Micro Packet Optical Networking Platform (ONP) Release 9.1

## Who Should Attend

The course benefits all personnel responsible for provisioning Ethernet services on the FLASHWAVE equipment listed in the course description, who wish to gain a general understanding of provisioning Carrier Ethernet using the NETSMART 1500 Management System.

## What You Will Learn

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