



The Fiber Service Platform (FSP) is a family of innovative products that provide comprehensive Optical+Ethernet networking solutions for access, metro core and regional networks. ADVA Optical networking is focused on the needs of enterprise and service provider customers deploying data, storage, voice and video applications.

Objective & Level

A training course that covers the **ADVA FSP 3000R7** system with respect to installation and commissioning. Provisioning of equipment will be provided by trainer.

Level: Introductory

Please, note: we also offer an e-Learning module *Smart Hands* to get to know the equipment.

Benefits & Audience

- To achieve self-sufficiency at installation and commissioning of the FSP 3000R7 system
- Field engineer – on site technical staff
- Hands-on focused learning course
- Small courses, 8 attendants maximum

Agenda

THEORY

- Safety first: to protect you and the equipment (ESD & Fiber Optics Cleaning)
- Identifying equipment and modules
- AC/DC Power Supplies
- Necessary Paperwork for my installation
- Preparation for remote access via IP

PRACTICE

- Installing Shelves
- Power and Earth Grounding
- Installing System Modules
- Interconnecting Shelves
- Powering Up/Down
- Connecting Optical Fibers
- Commissioning the Shelves
- Optical Network Leveling

Pre-requisites

A laptop with USB-port. A terminal program (e.g. PuTTY) for local access. Basic knowledge of DWDM required.

Contact

Training: training@adva.com

<p>DAY 1 (9 a.m -5 p.m)</p> <p>Topics covered</p>	<ul style="list-style-type: none"> ○ Safety first: to protect you <i>and</i> the equipment <ul style="list-style-type: none"> ○ Inspection first ○ ESD & Fiber Optics Cleaning ○ Power and Earth Grounding ○ Necessary Paperwork for my installation <ul style="list-style-type: none"> ○ What kind of documents exist? ○ Powering Up/Down <ul style="list-style-type: none"> ○ There is no On/Off button ○ Identifying equipment and modules <ul style="list-style-type: none"> ○ Naming rules for Shelves and Modules ○ AC/DC Power Supplies <ul style="list-style-type: none"> ○ Can I use both simultaneously? ○ Preparation for local access via IP <ul style="list-style-type: none"> ○ Mini-USB to USB – a driver is required (provided in training) ○ Serial cable 9-D-Sub: null modem cable (female/female) ○ The Installation Plan <ul style="list-style-type: none"> ○ An excel list or a drawing? Both should help ○ Installing Shelves in a rack ○ Interconnecting Shelves with optical fibers <ul style="list-style-type: none"> ○ Where to set the Shelf ID? ○ Single mode or multimode fibers to interconnect? ○ Don't forget to remove the 'brain from a main'
<p>DAY 2 (9 a.m -5 p.m)</p> <p>Topics covered</p>	<ul style="list-style-type: none"> ○ Commissioning your Shelves ○ IP addresses and more ○ Preparation for remote access via IP (for the NOC team) <ul style="list-style-type: none"> ○ 'Yes, I have a terminal emulation program like <i>PuTTY</i> on my laptop' ○ Populating your Shelves - Installing Modules like ... <ul style="list-style-type: none"> ○ Management Modules ○ Active Channel Cards ○ Passive Filters ○ Optical Amplifiers ○ Dispersion Compensation Modules ○ Protection Modules and more ... ○ Understanding the Network Design (Signal Flow diagram, Fiber type, Distances in the Network) ○ Connecting Optical Fibers <ul style="list-style-type: none"> ○ Provisioning modules (trainer) ○ Follow the Light ○ Don't burn the optical receiver – measure first ○ Where to place attenuators? ○ Optical Network Leveling <ul style="list-style-type: none"> ○ How to use an Optical Spectrum Analyzer (OSA) ○ Where do I find further information? <ul style="list-style-type: none"> ○ The ADVA set of documentation