



Advanced Ethernet Modular Training with FSP 150CC Platform

Max 4 days technical training



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 is focused on the needs of enterprise and service provider customers deploying data, storage, voice and video applications.

Course Description & Level

Advanced modular training on selected features of the FSP 150CC Platform.

Level: Advanced

Benefits & Audience

- Advanced knowledge of selected features of the FSP 150CC Platform like *Connectivity Fault Management Y.1731, Ethernet Protection, ConnectGuard, Mobile Synchronization and PTP, Pseudo-Wire Emulation, Tunneling and Routing.*
- Certificate of attendance; no exam available
- Small group, 8 attendants maximum

Agenda

Theory and Practice

Max 4 days

See the next pages for a list of topics to select from. See also the hardware supporting selected features.

9am – 5pm

Pre-requisites

Having attended the FSP 150 CC Introductory class upfront.

Contact

Training: training@adva.com



Advanced Ethernet Modular Training with FSP 150CC Platform

Max 4 days technical training

Note:

Please highlight below training content, this defines the duration of your training. **A maximum of 4 days can be combined per week.**

The list below includes the hardware supporting the topic.

- Connectivity Fault Management Y.1731 **(1 day) (supported by all Ethernet boxes)**
 - CFM Terminology & Setup
 - ESA - EtherJack Service Assurance with Y.1731
 - Troubleshooting the FSP150CC Platform

- Ethernet Protection **(1 day) all Pro Variants and XG210C**
 - 1+1 Protection
 - Dual Active Receive
 - LAG - Link Aggregation Group (LACP)
 - Ethernet Linear Protection G.8031 (*requires CFM upfront*)
 - ERP - Ethernet Ring Protection G.8032 with Y.1731 (*requires CFM upfront*)
 - LAG Load Balancing-Hashing Key

- ConnectGuard **(2 days)** – see details below **(all Pro‘C’ Variants and XG210C)**
 - Connect Guard™ for Ethernet – MACSec (*1/2 day*)
 - Connect Guard™ encryption on L3 Flow-points (*1/2 day*)
 - MultiPoint Encryption on L2 Flow-points (*1/2 day*) (*XG210C only*)
 - Ensemble Crypto Management (*1/2 day*)

- Mobile Synchronization and PTP **(1 day) (all Sync Variants: e.g. GO102Pro (S), GE114Pro (S) might be mixed with selected OSA devices (e.g. 5410/5420) requires PTP knowledge)**
 - Synchronization Introduction
 - Synchronous Ethernet
 - PTP & Telecom Profiles and SyncJack Features

- Pseudo-Wire Emulation **(1 day) (GE206V and EG-X)**
 - SyncE
 - Circuit Emulations Services (CES)
 - Transparent Services over Packet Network (TSoP)
 - E1/T1 Services
 - STM-1/STM-4 or OC-1/OC-4 Services

- Tunneling **(1 day) (all Pro Variants)**
 - VxLAN
 - EoMPLS
 - EoMPLSoGRE
 - Layer 2 Protocol Tunneling



Advanced Ethernet Modular Training with FSP 150CC Platform

Max 4 days technical training

- Routing Features (**2 days**) (**all Pro Variants**)
 - L3 Virtual Routing Functionality
 - BFD
 - eBGP support for IPv4
 - iBGP support for IPv4
 - OSPF support for IPv4
 - IPv6 static routing
 - Elephant flow
 - MPLS (only XG100Pro Variants)
 - OSPF (only XG100Pro Variants)