



Our FSP 150-XG400 Series is the ultimate tool for scaling edge networks. For the first time, fixed and mobile operators can deploy a MEF 3.0-certified 100Gbit/s demarcation device that enables a seamless expansion of their access networks. This breakthrough technology provides the improved distribution of precise synchronization needed for 5G applications. Our FSP 150-XG400 Series is also the only solution in the industry that verifies the performance of high-bitrate services with line-rate 100Gbit/s pre-activation testing. These compact multi-port demarcation devices can be effectively deployed at major business and multi-tenant sites as well as macro cells, with more powerful aggregation nodes consolidating traffic from many users.

### Objective & Level

This training course explains the FSP 150 XG400 family (XG480, XG404, XG418), each of the product's components, features and submodules. Configuration and troubleshooting exercises are essential elements of the training to assure that the attendants gain a comprehensive understanding of the device's operation.

#### Level: Introductory

*Please, note: the training will be provided using GoToTraining application or other tool – we will arrange a short test of the tool upfront the training – you will get invited for both – test and training session.*

*For the practical exercise's trainer will hand over keyboard and mouse to one student at a time for e.g. a configuration exercise.*

*Please note: recording of the remote training sessions is not permitted.*

### Audience & Benefits

- To achieve self-sufficiency at installation, configuration, maintenance and troubleshooting of the FSP 150-XG400 family
- To become an ADVA certified expert (if applied for)
- Small group, 8 attendants maximum

Agenda	THEORY	PRACTICE
	<ul style="list-style-type: none"> <li>• System overview</li> <li>• Product Architecture</li> <li>• DCN and Routing management</li> <li>• ADVA Licensing</li> <li>• ADVA Software and Database management</li> <li>• Traffic Management - Ethernet Services</li> <li>• Connectivity Fault Management</li> <li>• Y.1731</li> <li>• Ethernet Protection (LAG and ERP)</li> <li>• Synchronous Ethernet &amp; PTP</li> </ul>	<ul style="list-style-type: none"> <li>• Using ADVA AOS CLI and Web GUI</li> <li>• In-band and out of band DCN management</li> <li>• Database management</li> <li>• License management</li> <li>• Configure P2P/MP services and setting up monitoring systems</li> <li>• Configure Y.1731 to monitor circuits</li> <li>• Configure LAG to protect traffic</li> <li>• Configure ERP to protect traffic.</li> <li>• Test PTP – IEEE 1588</li> </ul>



OPERATE & MAINTAIN  
FSP 150 XG400 Family  
3 days *remote* technical training, Rel. 19.1.1

**Pre-Requisites**

The attendees should have basic knowledge about MEF (Metro Ethernet Forum), Ethernet (classification, V-LAN manipulation, policing, scheduling, shaping), Synchronization and TCP/IP.

**Contact**

Training: [training@adva.com](mailto:training@adva.com)



<p><b>Day 1</b>            9am – 5pm            incl. breaks and lunch break            12am-1pm  <b>Theory &amp; Labs</b></p>	<ul style="list-style-type: none"> <li>• <b>Course Overview</b></li> <li>• <b>Product Introduction and Overview</b></li> <li>• <b>Product Architecture</b></li> <li>• <b>Web GUI overview and CLI introduction</b></li> <li>• <b>DCN management</b></li> <li>• <b>System Management</b></li> </ul>
<p><b>Lab Exercises</b></p>	<ul style="list-style-type: none"> <li>• CLI Familiarization</li> <li>• Web GUI Familiarization</li> <li>• Configure Out of band DCN management</li> <li>• Configure In band DCN with management bridging</li> <li>• Account authentication</li> <li>• License management – node locked</li> <li>• Database management</li> </ul>
<p><b>Day 2</b>            9am – 5pm            incl. breaks and lunch break            12am-1pm  <b>Theory &amp; Labs</b></p>	<ul style="list-style-type: none"> <li>• <b>Fault Management</b></li> <li>• <b>Port and Flow Point management</b></li> <li>• <b>Traffic management - Ethernet Services</b></li> <li>• <b>CFM OAM</b></li> </ul>
<p><b>Lab Exercises</b></p>	<ul style="list-style-type: none"> <li>• Fault management</li> <li>• Configure and verify Point to Point flow</li> <li>• Configure and verify Multi Point flow</li> <li>• Configure and verify Multi Class of Service flow</li> <li>• Configure and verify CFM OAM</li> </ul>
<p><b>Day 3</b>            9am – 5pm            incl. breaks and lunch break            12am-1pm  <b>Theory &amp; Labs</b></p>	<ul style="list-style-type: none"> <li>• <b>Service monitoring with Y.1731</b></li> <li>• <b>LAG and ERP protection</b></li> <li>• <b>Synchronization - Synchronous Ethernet &amp; PTP IEEE 1588</b></li> </ul>
<p><b>Lab Exercises</b></p>	<ul style="list-style-type: none"> <li>• Configure and verify Y.1731 Delay and Loss measurements</li> <li>• Configure and verify active/standby and load sharing LAG</li> <li>• Configure and verify ERP ring to protect service</li> <li>• Configure and verify SYNC-E and PTP T-BC</li> </ul>