

Advanced OSA 5401-5405 Training

2 days remote technical training



The OSA 5401 is an SFP-based PTP grandmaster, boundary and slave clock designed for deployment deep in the radio access network, enabling you to upgrade legacy systems with IEEE 1588v2 PTP and Synchronous Ethernet functionality.

The **OSA 5405** is a PTP grandmaster and GNSS receiver with a revolutionary dual GNSS antenna to deliver accurate small cell synchronization without the need for a clear sky view. Two variants for indoor and outdoor installations.

Objective and Level

This training course introduces OSA5405/5401 with extended features, applications, operation by using CLI. Students will be introduced to provision GNSS, PTP, NTP and SyncE, as well as SyncJack.

This class is applicable to different industries (Broadcasting, Power and Enterprise).

Level: Advanced

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 exercises trainer will hand over keyboard and mouse to one student at a time, for e.g. a configuration exercise. For the handover the student needs to have the GoToTraining Client installed on his computer.

Note: Recording the remote training session is not permitted.

Note: We also recommend our 1 day training on 'Using SyncDirector with Ensemble Controller'. For installation and administration of ENC software, we offer a separate full Ensemble Controller training.

Audience and Benefits

- The class is aimed for synchronization experienced users to achieve advanced knowledge of OSA 5401 and OSA 5405
- Certificate of attendance, no exam
- Small courses, 8 attendants maximum

Agenda	THEORY	PRACTICE
	 Product introduction Product management and maintenance GNSS introduction NTP introduction SynE configuration Supported PTP profile introduction SyncJack introduction 	 DCN practice Product configuration backup/restoration. Product upgrade. Provision product as an NTP server Provision SyncE Provision product as GM/BC/Slave for supported profiles. Provision SyncJack



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Pre-requisites

Engineer or technician having a telecommunication background and synchronization knowledge.

Contact

Training: training@adva.com



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Day 1 9am – 4pm Lunch Break 12am – 1pm	Advanced Setup of OSA 5401/05	
Theory	 The concept of SyncE, PTP and NTP Overview of OSA 5401 and OSA 5405 Product management and maintenance IP address Configuration backup and restoration Software upgrade GNSS introduction NTP server introduction SyncE introduction 	
Lab Exercises	 Advanced Setup of the OSA 5401 and OSA5405 Product management DCN Setup (IP Settings) Name, time and user configuration Local user and remote authentication Product maintenance Configuration backup and restoration Software upgrade Provision GNSS Provision OSA5405/5401 as an NTP server. Provision OSA5405/5401 with SyncE capability on port. 	
Day 2 9am – 4pm Lunch Break 12am – 1pm	Delivery of Synchronization via Packet Networks	
Theory	 PTP profile introduction L3 profile L2 profile SyncJack™ (Maintaining and monitoring the performance of synchronization services) Short Introduction to SyncDirector options for spoofing and jamming 	
Lab Exercises	 Provision OSA5405/5401 as GM/BC/SLAVE on different profiles. Provision SyncProbe. 	