

Advanced OSA 5430-5440 Training

remote, 2 days technical training



The OSA 5430 and OSA 5440 are modular, high-performance IEEE 1588v2 PTP core grandmasters, NTP servers and SSUs. Both are equipped with 10Gbit/s as well as 1Gbit/s interfaces. Their ultimate scalability, with a carrier-class fully redundant design, predestinies them to work as core devices of synchronization networks.

Objective and Level

This training course introduces the OSA 5430 and OSA5440 with their features, using GUI and CLI for provisioning. SyncE, PTP and NTP will be presented in more details. Devices specific function as ePRTC and different protection types will be explained. SyncJack™, our tool synchronization signals quality check, will be shown and used during practical exercises.

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 5430 and OSA 5440
- Certificate of attendance, no exam
- Small courses, 8 attendants maximum

Agenda	THEORY	PRACTICE
	 SyncE, PTP and NTP System overview and differences between OSA 5430 and OSA 5440 Redundancy Principle on 5430/40 Sync Delivery and Sync Assurance applications (PTP, NTP & SyncJack™) 	 Working on a setup system and its components Implementing DCN Setting up PTP, NTP clock Using GUI & CLI command line Database Backup & Restore Software upgrade SyncJack™ configuration

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:	Advanced Setup of OSA 5430/40	
12am – 1pm Theory	 The concept of SyncE, PTP and NTP Overview of the OSA 5430 and OSA 5440 Hardware overview Management protection types 	
Lab Exercises	 Advanced Setup of the OSA 5430 and OSA5440 Using local management port RS232 and DCN Ethernet port Navigating with WebGUI DCN Setup (IP settings)	
Day 2 9am – 4pm Lunch Break: 12am – 1pm	Delivery of Synchronization via Packet Networks	
Theory	 Time & Sync clock configuration (GNSS) PTP & NTP configuration ePRTC SyncJack™ (Maintaining and monitoring the performance of synchronization services) 	
Lab Exercises	 Setup of the time & sync clock SyncE test with usage of SyncJack™ CLCK and BITS outputs protection test ToD and PPS outputs protection test PTP & NTP port configuration GM, different profiles test with usage of SyncJack™ protection 	