



5G Standalone Networks & Sandvine's Maestro NEF

COURSE OVERVIEW

In this lab based course, the student will gain the necessary theoretical and practical understanding required to configure and operate subscriber mapping in 5G standalone networks using Sandvine's Maestro NEF products.

Modality	Hands-on Labs?	Intended Audience / Roles	Duration (Instructor-Led)	Prerequisites
Onsite Exclusive (Instructor-Led)	Yes	<ul style="list-style-type: none"> Field Engineer Support Engineer Sales Engineer 	Two Days	<ul style="list-style-type: none"> ANI Essentials
Self-Paced eLearning (video-based)				

Course Content

5G Introduction

- Introduction to 5G and the 5G usage scenarios (eMBB, URLLC, mMTC)
- 5G Key performance parameters
- Overview of 5G New Radio, frequency bands, MIMO and beamforming
- Understanding 5G deployment options
- 5G Non Standalone Architecture (5G NSA) and overview of how subscriber mapping is performed
- 5G Standalone Architecture (5G SA)
- 5G Core Network Functions and their roles
- Sandvine 5G Core Network Products
- 5G Identifiers
- Understanding Control Plane procedures (Registration, Connection and Mobility Management)

Maestro NEF and NEF Load Balancer

- Introduction to Sandvine's NEF Products and deployment options
- Maestro NEF and NEF load balancer cluster configuration
- Lab exercise: Perform initial configuration of the NEF systems including clustering configuration

Understanding Service Based Interface Messages

- Understand the messaging sent between NEF and other 5G core network functions in order to map subscribers in a 5G SA deployment
- Lab exercise: Configure and confirm NEF to NRF connectivity

Maestro Policy Engine Configuration

- Configuring Maestro Policy Engine to map subscribers
- Lab exercise: Configure the subscriber mapping policy

Maestro NEF - Service Based Interface (SBI) Configuration

- Configuring the NEF to process SBI messages to extract information used for subscriber mapping
- Lab exercise: Configure the policy bundle on the Maestro NEF and verify subscriber mapping configuration. Perform end to end operational checks on each Sandvine system

Also Consider

- [ANI Essentials](#) (Prerequisite for this course)
- [Installing & Configuring ANI](#)
- [Subscriber Mapping with ANI](#)

If you have any questions about Sandvine's Education Services or courses, contact learning@sandvine.

ABOUT SANDVINE

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