5G Standalone Networks & Sandvine's Maestro NEF

PRODUCT CODES

Onsite Instructor-Led: 300-00406
Self-Paced eLearning: 320-00017

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) **Self-Paced eLearning (video-based)**	Yes	• Field Engineer • Support Engineer • Sales Engineer	Two Days	• ANI Essentials

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

Sandvine's cloud-based Application and Network Intelligence portfolio helps customers deliver high quality, optimized experiences to consumers and enterprises. Customers use our solutions to analyze, optimize, and monetize application experiences using contextual machine learning-based insights and real-time actions. Market-leading classification of more than 95% of traffic across mobile and fixed networks by user, application, device, and location creates uniquely rich, real-time data that significantly enhances interactions between users and applications and drives revenues. For more information visit **http://www.sandvine.com** or follow Sandvine on Twitter **@Sandvine**.

SANDVINE

USA
5800 Granite Parkway
Suite 170
Plano, TX 75024
USA

EUROPE
Svärdfiskgatan 4
432 40 Varberg,
Halland
Sweden
T. +46 340.48 38 00

CANADA
410 Albert Street,
Suite 201, Waterloo,
Ontario N2L 3V3,
Canada
T. +1 519.880.2600

ASIA
RMZ Ecoworld,
Building-1, Ground Floor,
East Wing Devarabeesanahalli,
Bellandur, Outer Ring Road,
Bangalore 560103, India
T. +91 80677.43333