Subscriber Mapping with ANI

PRODUCT CODES

Onsite Instructor-Led: 300-00403
Self-Paced eLearning: 320-00015

COURSE OVERVIEW

In this lab-based course, you will gain a comprehensive and practical understanding of how Subscriber Mapping can be performed in an ANI deployment on Maestro Policy Engine. Subscriber Mapping is a pre-requisite for any of the Sandvine use cases requiring subscriber awareness. The course will cover general subscriber mapping concepts and network deployments where the mapping information is obtained from RADIUS, GTPc (v1 and v2), DHCP (v4 and v6). The course also includes how subscriber mapping can be performed by sending JSON UDP directly to the Maestro Policy Engine. You will learn how to configure and use the Maestro Policy Engine REST interface to provision, update and delete subscribers and their IP sessions. This course is required for all Use Case Deployment Engineers.

Modality	Hands-on Labs?	Intended Audience / Roles	Duration (Instructor-Led)	Prerequisites
Self-Paced eLearning: video-based Onsite Exclusive (Instructor-Led)	Yes	• Use Case Deployment Engineer • Field Engineer	Two Days	• ANI Essentials

Course Content

Subscriber Mapping - General

- Subscriber Mapping overview
- User Plane Controller configuration.
- Understanding User Plane Controller host filters
- Monitoring Subscriber Mapping in Elements and the Maestro Policy Engine CLI
- Lookup subscriber IP sessions and attributes
- Viewing Subscriber Mapping Stats in Elements

Subscriber Mapping – RADIUS

- Understanding RADIUS deployment modes
- Configuring Subscriber Mapping with RADIUS as a mapping source
- Adding custom RADIUS dictionaries
- Understand RADIUS scope SandScript
- Learn how to monitor the RADIUS subsystem and the subscriber mapping performance

Subscriber Mapping – REST

- Learn how to update the subscriber and session dictionary
- Learn how to provision, update and delete subscribers and their attributes
- Perform Subscriber to IP mapping using the REST API
- Learn how to lookup subscribers and their attributes including how to perform bulk lookups

Subscriber Mapping – GTPc

- Understand how to configure and monitor the GTPc subsystem
- Understand the GTPc deployment modes
- Understand GTPc v1 and v2 messaging and how it can be used for subscriber mapping
- Understand the various GTPc scopes used in SandScript
- Learn how to configure the Subscriber Mapping with GTPc v1 and v2 as a mapping source

- Learn how to monitor the GTPc sub-system and the subscriber mapping performance

Subscriber Mapping – DHCP

- Understand how to configure and monitor the DHCP subsystem
- Understand DHCP v4 and v6 messaging and how it can be used for subscriber mapping
- Understand DHCP Options and the DHCP dictionary
- Understand the various DHCP scopes used in SandScript
- Learn how to configure the Subscriber Mapping with DHCP v4 and v6 as a mapping source
- Learn how to monitor the GTPc sub-system and the subscriber mapping performance

Subscriber Mapping – JSON UDP

- Understand how to configure and monitor the Text-Input subsystem for JSON UDP based mapping deployments
- Learn how to configure the Subscriber Mapping with JSON UDP as a mapping source
- Learn how to monitor the Text Input sub-system and the subscriber mapping performance for JSON UDP

Also Consider

- ANI Essentials (Prerequisite for this course)
- Deep Insights Reporting
- Installing & Configuring ANI
- Troubleshooting ANI
- 5G Standalone Networks Maestro NEF

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