



# Policy Enforcement for ANI

## COURSE OVERVIEW

In this lab-based course, you will gain the necessary theoretical and practical understanding of configuring Policy Enforcement over the Gx interface with a PCRF, including usage monitoring. The course provides an overview of the Diameter protocol and explains how Gx messaging is performed between the Maestro Policy Engine and the PCRF. You will also learn how to create rulesets in ActiveLogic to perform data plane actions based on the information provisioned by the PCRF to Maestro. The lab portion of the course will further cement the concepts presented in the lessons and provides the practical ability to design, configure, verify and monitor a Policy Enforcement solution. 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	<ul style="list-style-type: none"> <li>Use Case Deployment Engineer</li> <li>Field Engineer</li> </ul>	Two Days	<ul style="list-style-type: none"> <li><a href="#">ANI Essentials</a></li> </ul>

## Course Content

### Policy Enforcement - Introduction

- Policy Enforcement Product Overview
- 3GPP architecture and ANI
- Sandvine Use Cases and Policy Enforcement

### Diameter Overview and Configuration

- Configuration of Diameter for Policy Enforcement
- Understanding Diameter messaging and key AVPs
- Understand how the Diameter configuration controls the AVPs sent to the PCRF
- Learn how to monitor the Diameter sub-system and the Diameter performance.
- Lab exercise: Configuring Diameter connectivity to a PCRF

### Understanding Gx Messaging

- Understand the different types of information that the PCRF sends Maestro for policy enforcement
- Understand the function of the different Gx message types

- Understand the Gx message flow sequence
- Understand the function of PCC Rules and Event Triggers

### Deploying Policy Enforcement

- Understand how to configure the Policy Enforcement Product
- Controlling session initiation and PCRF selection
- Controlling AVPs sent to the PCRF
- Defining the PCC rules and base rules defined in the system

### Rulesets based on Policy Enforcement

- Configuring the session context schema to send Gx state to ActiveLogic
- Creating a ruleset based on Gx state
- Lab Exercise: Deploy a Policy Enforcement solution and learn how to test and monitor a solution

### Policy Enforcement with Usage Monitoring

- Understand how usage monitoring is performed over the Gx interface
- Understand how to configure the Policy

- Enforcement feature to support usage monitoring
- Understand how to configure ActiveLogic counters for usage reporting for session level and PCC rule level Monitoring Keys
- Lab Exercise: Deploy a Policy Enforcement solution with usage monitoring

#### Also Consider

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

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