



Application Monitoring (Sd) for ANI

COURSE OVERVIEW

In this lab-based course, the student will gain the necessary theoretical and practical understanding of ANI's Application Monitoring feature in order to deploy use cases utilising Application Monitoring and Control over the Sd interface with a PCRF. The course provides an overview of the Diameter protocol and explains how Sd messaging is performed between the Maestro Policy Engine acting as a TDF 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 an Application Monitoring solution.

Modality	Hands-on Labs?	Intended Audience / Roles	Duration (Instructor-Led)	Prerequisites
Onsite Exclusive (Instructor-Led)	Yes	<ul style="list-style-type: none"> Use Case Deployment Engineer Field Engineer 	Two Days	<ul style="list-style-type: none"> ANI Essentials

Course Content

Application Monitoring and Control - Introduction

- Application Monitoring and Control Overview
- 3GPP architecture and ANI
- Maestro Policy Engine acting as a TDF
- Sandvine Use Cases and Application Monitoring

Diameter Overview and Configuration

- Configuration of Diameter for Application Monitoring
- Diameter messaging and key AVPs
- Controlling Diameter base AVPs sent to the PCRF
- Monitoring the Diameter sub-system and the Diameter performance
- Lab exercise: Configuring Diameter connectivity to a PCRF

Understanding Sd Messaging

- Understand the different types of information that the PCRF sends Maestro for Application Monitoring
- Understand the function of the different Sd message types
- Understand the Sd message flow sequence

- Understand the function of ADC Rules and Event Triggers

Deploying Application Monitoring

- Application Monitoring Product Configuration
- Subscriber Mapping for Application Monitoring
- Defining the ADC rules and ADC Rule Base Names
- Lab Exercise: Subscriber Mapping based on Application Monitoring

Understanding Session Context Events

- Configuring the User Plane Controller package
- Information provided for Application Monitoring

Rulesets based on Application Monitoring

- Configuring the session context schema to send Sd state to ActiveLogic
- Creating a ruleset based on Sd state
- Lab Exercise: Deploy an Application Monitoring solution and learn how to test and monitor a solution

Also Consider

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

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