Online Charging for ANI

In this lab based course, the student will gain the necessary theoretical and practical understanding of ANI's Online Charging feature in order to deploy use cases utilizing Online Charging over the Gy interface with an OCS. The course provides an overview of the Diameter protocol and explains how Gy messaging is performed between the Maestro Policy Engine and the OCS. You will learn how to configure Online Charging. And create rulesets in ActiveLogic to perform data plane actions based on the information sent by the OCS to the Maestro Policy Engine. 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 Online Charging solution.

COURSE OVERVIEW

Sandvine's Online Charging for ANI course is designed to provide the knowledge and skills related to the deployment of the Online Charging feature in an ANI deployment enabling of integration of ANI with an OCS.

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

Course Content

Online Charging - Introduction
• Online Charging Product Overview
• 3GPP architecture and ANI

Diameter Overview and Configuration
• Configuration of Diameter for Online Charging
• Understanding Diameter messaging and key AVPs
• Understand how the Diameter configuration controls the AVPs sent to the OCS
• Learn how to monitor the Diameter sub-system and the Diameter performance.
• Lab exercise: Configuring Diameter connectivity to a OCS

Understanding Gy Messaging
• Understand the different types of information that the OCS sends Maestro for Online Charging
• Understand the function of the different Gy message types
• Understand the Gy message flow sequence
• Understand how quota is requested, granted, reported.
• Understand how usage is enforced when quota is exhausted.

Deploying Online Charging
• How to configure subscriber mapping for Online Charging
• Understand how to configure the Online Charging Product
• Controlling session initiation and OCS selection
• Controlling AVPs sent to the OCS
• Understand the parameters which controls how usage is counted and reported

Rulesets based on Online Charging
• Configuring the session context schema to send Gy state to ActiveLogic.
• Create a ruleset to perform counting for different rating groups and service identifiers based on the subscriber profile or application types
• Performing enforcement actions based on the Gy state for different services.
• Lab Exercise: Deploy an Online Charging solution and learn how to test and monitor a solution

Also Consider:

- ANI Essentials (Prerequisite for this course)
- Advanced SandScript for Maestro Policy Engine
- Advanced Shaping for ANI
- Installing & Configuring ANI
- Troubleshooting 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**.

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