

Oracle Comms User Data Repository OAM Ed 2

Oracle Communications

DURATION

3 Days

MODULES

13 Lectures

COURSE CODE

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Course Overview

The Oracle Communications User Data Repository course provides operations, administration, and maintenance personnel who have responsibilities related to an installed User Data Repository product with skills they need to monitor the system and keep it healthy on a day-to-day basis.

What You Will Learn

Integrate: Plan User Data Repository Functions for Your Business

- Course Purpose
- Course Topics
- Course Objectives
- Course Logistics
- Oracle University Reporting
- Introduction to Integrate
- Objectives
- Oracle Communications User Data Repository
- Enhanced Subscriber Profile Repository (ESPR)
- User Data Repository Data
- Process Flow Through ESPR
- How Do Subscriber Records Get In?
- Use Cases
- Maintaining UDR Communications Performance
- Plan Operations Support System Networking
- Plan Network Connections to PCRF Client Services
- Access and Management Network
- Plan Access Network Performance Considerations
- Putting It All Together
- Summary
- Quiz

- Practice

Integrate - Plan for Oracle Communications User Data Repository Product

- Objectives
- UDR System Components
- Multi-level System of Management
- Oracle's System Management Product
- NOAMP Servers
- SOAM Servers
- Message Processor (MP) Servers
- Maintain Reliability
- High Availability Through Groups
- Enhanced Availability through Geo-redundancy
- Geo-redundant System Architecture
- Systems Communications
- NOAMP Replication
- Monitor NOAMP Server Communications
- SOAM Server Communications
- UDR Diameter Communications to PCRF
- Com Agent Communications Between MP and NOAMP
- MP Communications in a Geo-redundant System
- Operations Support System Communications
- Alternative Platform Deployments
- Network Function Virtualization (NFV)
- Cloud Deployment
- Using Cloud Architecture to Manage Resources
- Accessing Resources within a Cloud
- Final Network Summary
- Summary
- Quiz
- Practice 2

Configure: Use Multi-level User Interfaces

- Objectives
- Introduction to Configure
- Oracle Help Center
- Using Help Manuals
- NOAMP & SOAM Graphic User Interface Log In
- Components of the GUI
- GUI - Items of Special Interest
- Common Main Menu Options
- On Line Help
- Navigate the NOAMP GUI
- SOAM GUI Diameter Folders
- Navigate the SOAM Diameter Folder

- Summary
- Quiz
- Practice 3

Configure- Monitor and Manage System Components

- Objectives
- Analyze and Change System Components
- System Component Hierarchy
- Analyze System Components
- Gather Component Information
- Scenario: Example UDR System Configuration
- Configuration Reports
- Configure Communications Among Components
- How Do I Use Interfaces to Networks?
- Interfaces Across Intranetwork and Internetworks
- Configure Communications Agent (Com Agent)
- Analyze VLANs and Bonds
- Configure DSCP
- Access and Management Devices
- Domain Name System Configuration
- Configure SNMP Method 1
- Configure SNMP Method 2
- Summary
- Quiz
- Practice

Configure - Monitor and Manage Diameter Peers

- Objectives
- How Do Diameter Peers Work?
- What Is Required to Set Up a Diameter Connection?
- What Must be Provisioned for a Connection Request?
- How Do I View Performance of an Existing Connection?
- How Do I View Diameter Authentication Information?
- How Do I Prepare to Add New Peers?
- Enable and Test Diameter Connections
- Summary
- Quiz
- Practice

Provision the Database

- Objectives
- User Data Repository Database Access Concepts
- Operations Tasks
- Customer Provisioning

- Create Access for an CP Client
- Subscribing Client Permissions
- Manage Database Behavior
- Control the Behavior of the Database Back End
- Control Auto Enrollment
- Auto Enrollment Blacklists
- Manage Data Entities
- Introduction to Building Data Entities
- Entering Data Entities
- Monitor and Manage User Data Repository
- Monitor CP and Diameter Clients
- Monitor and Manage the CP Interface
- Subscriber Query
- Connections
- Command Log
- Subscribing Client Status
- Manage Import and Export
- Export Schedule – Subscriber Data
- Import Status
- Export Schedule and Status
- Command Log Export Status
- Management Database
- Quota Reset Scheduler Status
- Database Auditor
- Measurements Related to CP
- Key Performance Indicators Related to CP
- Summary
- Quiz
- Practice

System Administration

- Objectives
- Select Appropriate General Options
- Controlling User Permissions
- Create a User with Controlled Access
- 1. Select Group Permissions
- 2. Create a User in a Group
- 3. Change a User's Password
- Example: Creating a Controlled User Account
- 1. Example: Select Group Permissions
- 2. Example: Create User the Selected Group
- 3. Example: The User Has Limited Access
- Other Administrative Controls
- Authorize IP Addresses
- Manage Certificates

- Manage Server Access
- Import and Export Server Configurations
- Data Export: Current System Server Configuration
- Diameter Configuration Export/Import
- Summary
- Quiz
- Practice

Monitor – Component Performance

- Objectives
- Introduction to Monitor
- Monitor NOAMP and SOAM
- Gather Information about System Components
- Monitor Network Elements Report
- Monitor Network Elements
- Monitor and Manage Server Reports
- Monitor and Manage: Servers
- Monitor and Manage High Availability Health
- Roles
- Maximum Allowed HA Role
- Monitoring Connections
- Monitor Communications Agent (ComAgent)
- Monitor ComAgent Connection Status
- Monitor Com Agent from the NOAMP
- Gather Information on ComAgent Configuration
- ComAgent Connection Status from NOAMP
- ComAgent Connection Status from SOAM
- Monitor Diameter Connections
- Monitor Diameter Connections from the SOAM
- Monitor Diameter Configuration – Local Nodes
- Monitor Diameter Configuration – Peer Nodes
- Monitor Diameter Configuration – Connections
- Monitor Diameter Connection Maintenance
- Monitor Diameter Capacity
- Monitor Diameter Connection Capacity
- Customer Provisioning Reports and Measurements
- Monitor CP Provisioning Connections
- Diameter-Related Alarm 3002
- Monitor with Measurements
- Isolate Performance Issues with Measurements
- Measurements
- SOAM Measurements
- Summary
- Quiz
- Practice

Monitor Components- Alarms

- Objectives
- View Alarms
- Alarms Banner
- View Active Alarms
- How Alarms and Events Are Structured
- Report a Specific Alarm
- View a Specific Alarm in Online Help
- Alarm Categories
- The Historical Alarms Operation
- Historical Alarms
- Alarm and Event Flows
- Summary
- Quiz
- Practice

Monitor- System

- Objectives
- Monitor Key System Processes
- Monitor and Manage: Database
- Monitor and Manage: Database Management Functions
- Monitor and Manage: Database
- Monitor and Manage: Database Report
- Monitor and Manage: Processes
- Monitor: Processes
- Key Performance Indicators
- Identify Key Performance Inhibitors
- Key Performance Indicators
- Capturing KPIs
- Distribute KPI Reports
- Security Log
- Measurements- Monitor
- Measurements – Overview
- Measurements- Report Groups
- Measurements
- Measurements- Example: OAM Alarms Report
- System Monitoring Measurements
- Summary
- Quiz
- Practice

Corrective Maintenance - Systems Management

- Objectives
- Introduction to Corrective Maintenance

- Monitor and Manage: Servers
- Configuration Database Backup
- Control Active Servers with Max HA Roles
- Monitor and Manage: High Availability
- Monitor ComCol HA
- Backups
- Platform
- Backup Platform
- Configuration and Status Backup
- Configuring Configuration and Status Backup
- Summary
- Quiz
- Practice

Corrective Maintenance - Remediation

- Objectives
- Troubleshooting Assistance
- Online Help Center
- Platform Management
- Platform Documentation
- Prepare to Use My Oracle Support
- Use My Oracle Support
- Monitor Service Requests in MOS
- Tasks Recommended by Customer Services
- Best Practice Procedures
- Consistent and Complete Access
- Service Request Information – Issue Descriptions
- Service Request Information – Supporting Data
- System Health Checks
- Save System Logs
- System Check
- Accessing Platform Command-Line Interface
- Key Troubleshooting Procedures
- Troubleshooting Process
- Troubleshooting ComAgent Issues
- ComAgent Troubleshooting Scenario
- Troubleshooting Signaling Traffic
- Diameter Troubleshooting Scenario
- EXG Alarm Troubleshooting Scenario
- Summary
- Quiz
- Practice
- Course Summary

What Is New in Release 12.2?

- Objectives
- Features to Be Covered in This Lesson
- Feature Group: Pools that Span Multiple UDR Instances
- Pools Spanning Multiple UDRs
- Pool Spanning Menu
- Pool Network Tables
- Measurements for Pool Spanning
- Provisioning Records for Pool Spanning
- Feature: User Credentials for Authentication
- Using the Credentials Feature
- Authentication Headers: Example
- Configuring the Credentials Feature
- Feature: GUI Support to Create and Update Subscriber and Pool Data
- Use the ESPR Database from GUI Feature
- Create New Subscriber Records
- Update Existing Records
- Feature: Delay PNR Notification after Profile Update
- Use the Push Notification Delay Feature
- Implementing PNR Delay
- Summary
- Quiz
- Practice
- Course Summary
- Final Questions?
- End of Course Evaluation