

Oracle Session Delivery Management Cloud

Built on Oracle's next-generation cloud infrastructure, Oracle Session Delivery Management Cloud (OSDMC) helps customers minimize operational costs in a more agile, reliable, and secure way. Designed with flexible and intuitive framework which enables dashboard and KPI customization, monitoring integration, and remote software upgrade, the network management and monitoring SaaS solution provides a single pane of glass view across the Oracle Communications Session Delivery product portfolio.

Overview

Oracle Session Delivery Management Cloud provides a cloud native service framework upon which various applications are supported for the management and monitoring of Oracle Communications network functions. Current and future Oracle Communications Session Delivery products and versions are supported by default. OSDMC eliminates the need to install, provision, upgrade and apply security fixes for the management system.

The feature-rich SaaS solution includes fault, configuration, accounting, performance, and security (FCAPS) management, and provides an insightful and unified view across the Oracle Communications Session Delivery products portfolio.

Designed with a flexible and intuitive framework, OSDMC helps customers to customize their dashboards and KPI views according to specific business needs or job roles. Through integration with monitoring solutions such as Oracle Communications Operations Monitor (OCOM) and Oracle Enterprise Operations Monitor (EOM), OSDMC provides users with the ability to view call data using a ladder diagram, as well as additional monitoring KPIs which can be displayed in customized dashboards. With work order framework, OSDMC simplifies and automates the network functions upgrade.

OSDMC is an important step towards a future-proof solution capable of addressing enterprises and service providers' network operations management requirements across their increasingly complex networks. OSDMC helps customers in their evolution from on-premises towards cloud transformation, in a more cost effective and agile way.

Network operations challenges

Cloud delivery model will change the way software applications are used. Organizations are faced with the complexities of managing multiple environments from traditional on-premises systems, to private, public and hybrid cloud deployment models.

Key business benefits

- Runs on Oracle Cloud: The most secure cloud in the industry
- Provides a single pane of glass view across the Oracle Communications Session Delivery product portfolio
- Reduces network access complexity by enabling universal access to all the network functions
- Simplifies network functions upgrade using automated work order framework
- Offers an intuitive framework for creating customized KPIs and dashboard views
- Provides an aggregate view of essential monitoring KPIs
- Enhances call monitoring and troubleshooting using a centralized view of call details
- Streamlines operations and eliminates the need to maintain the management system
- Provides FCAPS management
- Helps customers minimize operational cost and resources
- Manages small to large deployments

Moreover, network operations management brings its own set of complex and time-consuming challenges for service providers and enterprises, namely:

- Multiple user interfaces across different applications
- Configuration change management and audits
- Lengthy software upgrade cycles
- Diverse and disjoint data sources
- Changing resource requirements
- Long recovery times impacting Quality of experience (QoE) and committing to Service-level agreements (SLAs)
- Timely detecting and responding to network anomalies
- Insufficient levels of automation to minimize human interaction and maximize efficiency and agility

To help address these challenges, operations management software needs to keep up with the rapidly evolving technology stack, with automated security, real-time monitoring, intuitive dashboard and the right set of tools for preemptive actions resulting in improved Quality of Experience (QoE) and Service Level Agreements (SLAs).

Why OSDMC?

Oracle Session Delivery Management Cloud is a SaaS solution built on the [industry's most secure Cloud](#), for both service providers and enterprises. OSDMC is built from the ground-up with security, flexibility and a cloud native infrastructure, optimized for cloud-based deployments. It is capable of managing Oracle Communications Session Delivery products deployed on appliances or virtual machines at customers' premises. OSDMC helps customers to focus on innovation without having to worry about complex, time-consuming and error prone operations management processes.

When it comes to Cloud, experience matters!

The Cloud Native Computing Foundation (CNCF) is an open source software foundation dedicated to making cloud native computing universal and sustainable. Oracle is a platinum member of the CNCF to ensure that its vision of an open, cloud native and standards approach is well aligned. With a rich heritage in telecommunications, Oracle Communications has a deep understanding of service reliability. Developing applications in this space has placed an emphasis on creating foundational platform services whereby applications could be built consistently to these expectations. Oracle has a keen awareness of the operational aspects and challenges of these applications as its customers move to SaaS-based cloud delivery in the telecoms industry.

OSDMC leverages Oracle's next-generation cloud infrastructure

Oracle Cloud Infrastructure is built for innovation. This includes industry-leading scalability and availability, integrated governance and control, and reliability backed by end-to-end SLAs. Oracle's cloud mission extends to supporting emerging technologies such as AI, machine learning (ML), the Internet of Things (IoT), blockchain, and human interfaces. Oracle is the only provider that delivers IaaS, PaaS, and SaaS services as part of its second-generation cloud offering.

Key features

- Dashboard designer
- Portlet designer
- Flexible data visualization
- Monitoring integration
- Monitoring manager
- Work order manager
- Configuration manager
- Device manager
- Security manager
- Fault manager

Oracle Cloud Infrastructure (OCI) is the foundational layer for Oracle Communications SaaS applications, providing a robust, scalable, secure, highly available and cost-effective cloud platform.

OSDMC is capable of managing Oracle Communications network functions such as Session Border Controllers (SBC) deployed on appliances or virtual machines at customers' premises.

OSDMC features set

OSDMC supports various applications for the management and monitoring of Oracle Communications network functions, as outlined in the table below.

Table 1. List of applications and key features supported by OSDMC

| APPLICATIONS | DESCRIPTION | KEY FEATURES |
|-------------------------------|--|--|
| Dashboard Manager | Dashboard manager provides an insightful and unified view of key performance indicators and statistics to simplify, network operations management. Utilizing dashboard designer and portlet designer, customers can create and customize their views and KPIs according to specific business needs or job roles. | <ul style="list-style-type: none"> • Dashboard designer • Portlet designer • Flexible data visualization • Customized KPIs • Historical data view • Interactive charts |
| Monitoring Integration | Through interaction with OCOM and EOM, OSDMC collects key monitoring data metrics from one or more Mediation Engines (MEs) and displays specific monitoring KPIs in an aggregate view. | <ul style="list-style-type: none"> • Essential monitoring KPIs • Multiple MEs support |
| Monitoring Manager | Monitoring manager takes monitoring integration one step further by providing users with the ability to view call ladder diagram and call data for recent and/or historical calls. | <ul style="list-style-type: none"> • Recent calls table • Calls filter capability • Call ladder diagram |
| Configuration Manager | Configuration manager enables element configuration and provisioning for Oracle Communications Session Delivery products. | <ul style="list-style-type: none"> • Online configuration • Offline configuration • Configuration templates • Backup & restore |
| Device Manager | Device manager applies administration of individual session delivery infrastructure devices or device groups to simplify the management of small to very large networks of session delivery infrastructure products. Device groups can be organized hierarchically according to the needs of the organization. | <ul style="list-style-type: none"> • Device access control • Device grouping • Site location support • Software image repository • Boot loader image repository |
| Work Order Manager | Work Order Manager provides users with the ability of doing remote software upgrades for Oracle Communications Session Delivery products through an automated framework with minimal steps for scheduling, device selection and other configurations, and an easy way to monitor the progress. | <ul style="list-style-type: none"> • Automated framework • Granular control and monitoring • Scheduling capabilities |
| Security Manager | Security manager enables the definition and control of access rights for individual users and user groups, plus an audit log for all changes. Security settings are configurable for users, user groups, and groups of devices. | <ul style="list-style-type: none"> • IAM authentication support • Service authorization • Role based access control |
| Fault Manager | Through fault manager, Oracle Session Delivery Management Cloud enables real-time monitoring of operational status using alarms and faults. | <ul style="list-style-type: none"> • Event manager • Alarm manager • Alert configuration |

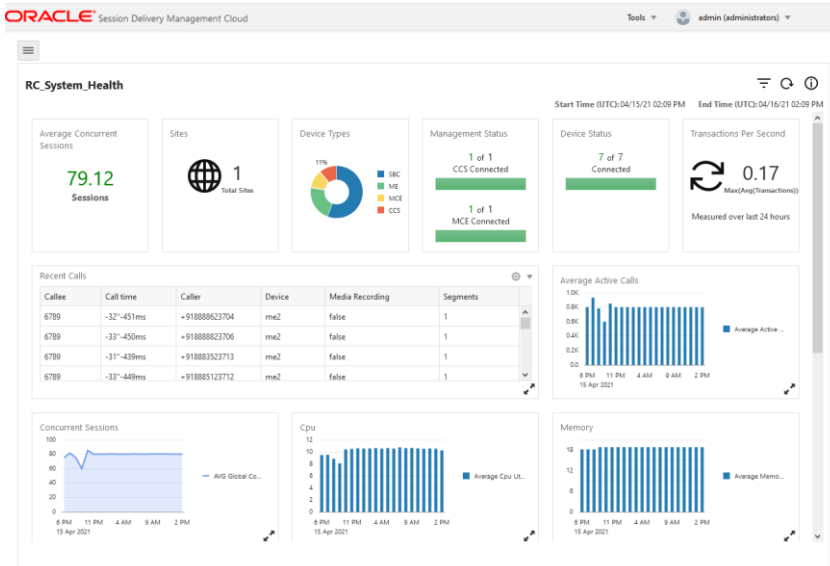


Figure 3. OSDMC dashboard example

It's time to reimagine network management

OSDMC is a platform for innovation and continuous value addition, helping customers in their evolution from on-premises towards cloud network transformation.

With remote software upgrade, monitoring integration, and dashboard customization, OSDMC provides a single pane of glass view across Oracle Session Delivery product portfolio.

OSDMC is an important step towards a future-proof SaaS-based solution capable of addressing enterprises and service providers' end-to-end operations management requirements across their increasingly complex networks, with less cost, and with more simplicity and increased agility.

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