

# Oracle Communications Policy Management



Oracle Communications Policy Management products and solutions give communication service providers the tools necessary to quickly and easily deploy complex network policies, supporting wireless, fixed, cable and IoT/M2M networks, and covering a broad range of use cases, including network optimization and security, QoS and bandwidth control, personalized service tiers, flexible multi-device and –user data plans, streaming video and content delivery, fixed-mobile convergence, Internet of Things, VoLTE and VoIP, API exposure and service delivery, analytics, and convergent charging.

## KEY FEATURES

- Available as VNF on KVM, OVM, VMware, or as Engineered System
- Full suite of VoLTE-enabling features
- Session-stateful geo-redundancy
- Integrated policy analytics suite
- Intuitive, flexible policy design environment for fast time-to-market
- Real-time charging integration
- Integrated SPR for advanced shared quota and flexible data plan services
- API exposure and security for 3rd party content partner management
- Highly interoperable and scalable
- Field-proven and highly reliable with over 60 worldwide deployments

## KEY BENEFITS

- Enables reliable VoLTE deployments
- Flexible deployment options, both virtualized and physical
- Standards-based, yet customizable interfaces and policy creation
- Fast time-to-deployment
- Five 9s availability with high levels of redundancy, reliability, and scalability

## Overview

Communication Service Providers have an ever-increasing need to exert more sophisticated control over their network resources. In addition to optimizing the network for speed, efficiency, security, and cost, there are new challenges in capturing, maintaining, and growing subscriber revenue. Smart phones and other “smart” devices, coupled with the availability of data bandwidth through LTE, have led to massive increases in data consumption, and subscribers now have direct relationships with 3rd party content providers in addition to their traditional CSP. Subscribers have come to expect more sophistication and granularity in the personalization of their services from both content and service providers. Deployments of Voice over LTE are accelerating, bringing a more stringent set of resiliency requirements to the policy network. The proliferation of IoT devices promises to test the scaling limits of the network, and the desire to better integrate charging with policy places new demands on policy systems.

The secret weapon for harnessing and capitalizing the full capabilities of the network lies in a robust and sophisticated policy management system; one which provides flexibility, scalability, resiliency, visibility, and speed.

## Product Description

Oracle Communications Policy Management provides the flexible and resilient network policy system needed to meet the demanding requirements of today’s communication service providers. It is the market-leading independent policy management system, providing standards-based, yet customizable interfaces and multi-vendor interoperability with a wide range of third party network functions. Its GUI-driven, customizable natural language policy creation wizard provides an intuitive and flexible environment for easy and efficient creation of complex network policies. Its high scalability and resiliency provide a dependable backbone for the largest and most demanding 3G/LTE, VoLTE, VoIP, fixed, and cable networks.

## ORACLE COMMUNICATIONS SOLUTIONS

Oracle Communications products and solutions enable service providers to both manage and monetize the explosive growth in data traffic and multimedia applications. Oracle Communications offers products and solutions corollary to Policy Management to further extend service providers' ability to control network resources using intelligent network policy control and routing:

- Oracle Communications User Data Repository (OCUDR)
- Oracle Communications Analytics (OCA)
- Oracle Communications Convergent Charging and Policy (CC&P)
- Oracle Communications Billing and Revenue Management (OCBRM)
- Oracle Communications Network Policy as a Service (NPaaS)
- Oracle Communications Services Gatekeeper (OCSG)
- Oracle Communications Diameter Signaling Router (OCDSR)

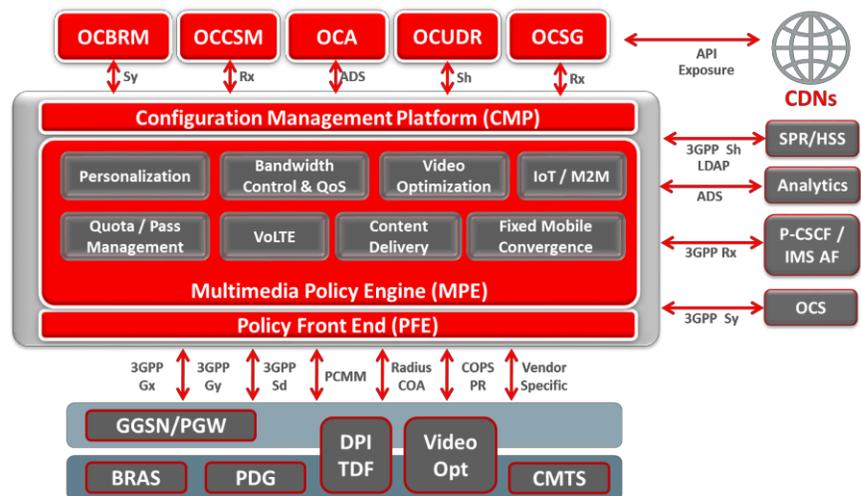


Figure 1. Oracle Communications Policy Management Eco-system

The core components of Oracle Communications Policy Management consist of:

- Policy Front End (PFE) serves as the entry point to the PCRF for other network elements and provides topology hiding, stateful dynamic load balancing, session correlation, and subscriber binding to individual MPEs under the PFE's control.
- Multimedia Policy Engine (MPE) is the core policy engine which provides a highly scalable, low latency policy evaluation engine that can be deployed in a centralized or distributed architecture based on transaction rates and/or network signaling / configuration requirements.
- Configuration Management Platform (CMP) provides the platform for configuring, deploying and managing the MPEs and PFEs, as well as providing policy creation environment where policy rules are created and deployed. It also serves as the central point for alarm and KPI collection for the system.

Oracle Communications Policy Management supports the following control interfaces:

- Diameter Gx for interconnection to wireless and fixed enforcement points.
- Diameter Gy for interconnection to elements supporting Gy quota reporting.
- Diameter Sd for interconnection to DPIs and TDFs.
- PCMM for interconnection to CMTS enforcement points in cable networks.
- Radius COA and COPS-PR for fixed and wireline enforcement points.

Oracle Communications Policy Management supports these application interfaces:

- Diameter Sy for interconnection to Oracle BRM and 3<sup>rd</sup> party OCS.
- Diameter Rx for interconnection to Oracle CSM and 3<sup>rd</sup> party P-CSCF and IMS AFs.
- Oracle Analytics Data Stream (ADS) feeding Oracle or 3<sup>rd</sup> party analytics engines.
- Diameter Sh and LDAP for interconnection to Oracle UDR and 3<sup>rd</sup> party SPRs/HSSs.
- API exposure to 3<sup>rd</sup> party Content Delivery Networks via Oracle Services Gatekeeper.

## Summary

Oracle Communications Policy Management enables service providers to meet network challenges with a highly reliable, scalable, and flexible network policy management system with support for a broad range of advanced use cases, robust standards support, and a high degree of interoperability in multi-vendor and multi-access networks.

For more information, contact your Oracle Communications representative today



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