

Oracle Communications Offline Mediation Controller

As networks, services, and commercial models expand, incomplete, delayed, or inconsistent usage data can create billing uncertainty, slow issue resolution, and add operational effort across revenue, finance, customer care, and technical teams. Oracle Communications Offline Mediation Controller (OCOMC) helps providers establish trusted, controlled usage-data flows for charging, billing, revenue management, and operations—supporting accurate monetization today while allowing the environment to evolve at a pace that fits the business.

OCOMC within Oracle Cloud Scale Monetization

Oracle Communications Offline Mediation Controller is the usage-data mediation component of Oracle Cloud Scale Monetization. It collects, validates, normalizes, enriches, corrects, correlates, aggregates, and distributes usage data for downstream charging, billing, revenue management, and operational processes—alongside the solution’s converged charging, billing and revenue management, and service-control capabilities. OCOMC can be deployed independently or introduced with BRM and ECE as providers modernize their monetization environment.

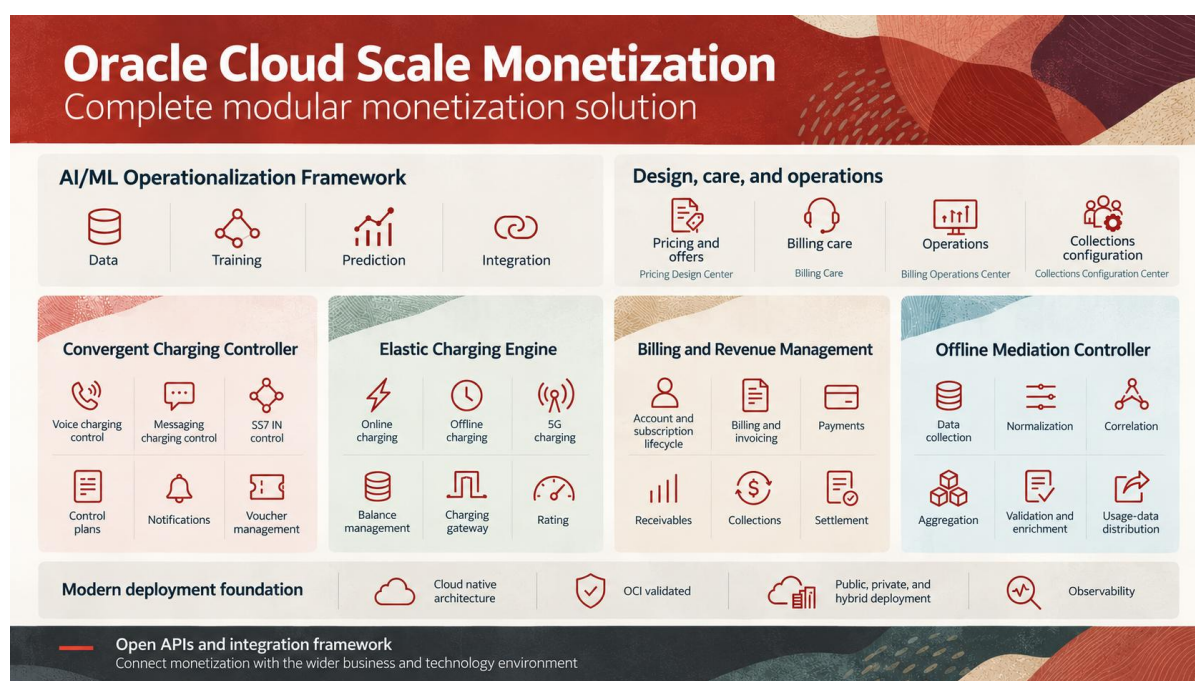


Figure 1. Oracle Communications Offline Mediation Controller within Oracle Cloud Scale Monetization.

Build a stronger foundation for trusted revenue operations

- **Protect revenue and customer trust.** Collect, validate, normalize, enrich, and control usage data before it reaches downstream processes, helping teams investigate and resolve usage-related exceptions with greater traceability.
- **Support new services without disrupting established operations.** Process usage across 5G and hybrid 4G/LTE/IMS/5G environments while continuing to support established network and service domains.

- **Modernize in practical stages.** Deploy OCOMC independently, alongside existing mediation, charging, and billing systems, or with other Oracle Cloud Scale Monetization products—without making a single replacement programme a prerequisite.

Turn usage data into trusted monetization input

Every monetization process depends on the quality and availability of its usage data. When records are fragmented across network and application domains, downstream teams can spend time reconciling exceptions, tracing records, and resolving uncertainty before charging, billing, reporting, or customer activities can proceed.

OCOMC provides a controlled mediation layer for collecting, validating, normalizing, enriching, correcting, and distributing usage data. It converts records from supported source formats into data that downstream systems can use, while retaining the controls needed to understand what was received, how it was processed, and where it was sent.

By separating usage-data processing from individual downstream applications, OCOMC helps providers make controlled usage data available to the processes that require it without replicating mediation logic across the estate. This provides trusted input for charging, billing, revenue management, revenue assurance activities, operations, and adjacent business processes.

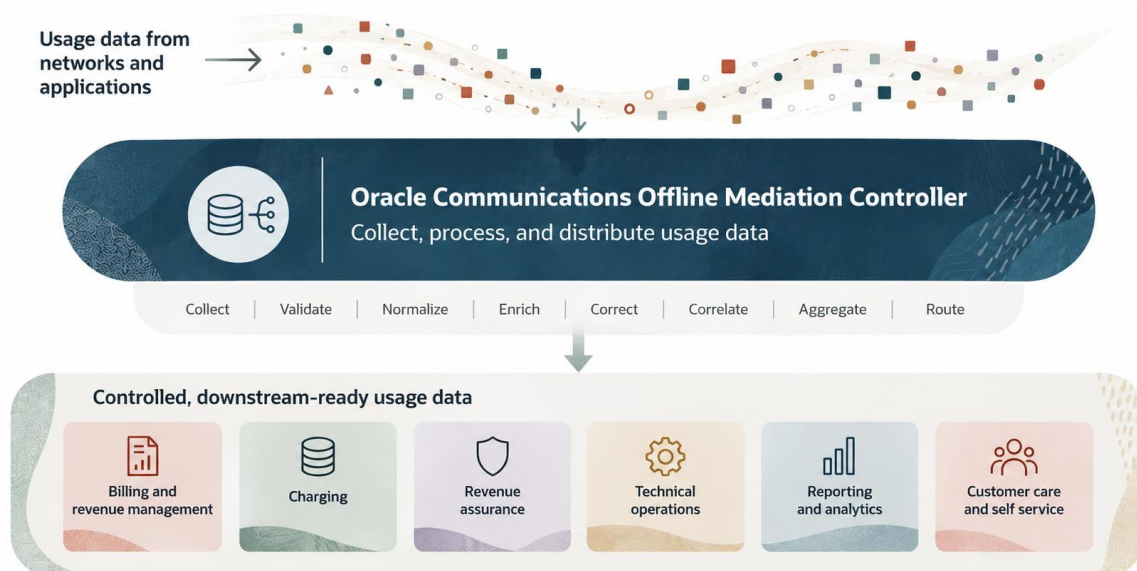


Figure 2. OCOMC converts network and application usage events into downstream-ready formats.

Support multigeneration networks and evolving services

Service providers rarely modernize every network domain, service, or monetization component at the same time. OCOMC is designed for wireless and wireline network types, including 5G and hybrid 4G/LTE/IMS/5G environments. Its supported technology cartridge bundles include IMS using Diameter and Packet Core using GTP' and RADIUS.

This makes it practical to continue processing established service usage while introducing new network capabilities and commercial models. OCOMC can also collect and process supported non-network and digital application usage sources, helping providers bring relevant usage data into controlled downstream flows as services expand.

The objective is practical evolution: preserve the operational value of established environments while introducing new mediation flows where they are needed. OCOMC does not require a forced, single-step replacement of existing mediation or monetization systems.

Apply controlled mediation and usage-data processing

OCOMC uses a cartridge-based architecture to configure and chain mediation flows. These flows can collect and parse incoming data; validate, normalize, and enrich records; correct exceptions; correlate records from multiple

sources; aggregate data for long-running sessions; and route and distribute output to appropriate downstream systems.

The product includes:

- Collection cartridges for collecting and normalizing data.
- Aggregation processor cartridges for correlation and aggregation.
- Enhancement processor cartridges for sequencing, tagging, filtering, validation, duplicate removal, and record analysis.
- Distribution cartridges for downstream delivery.

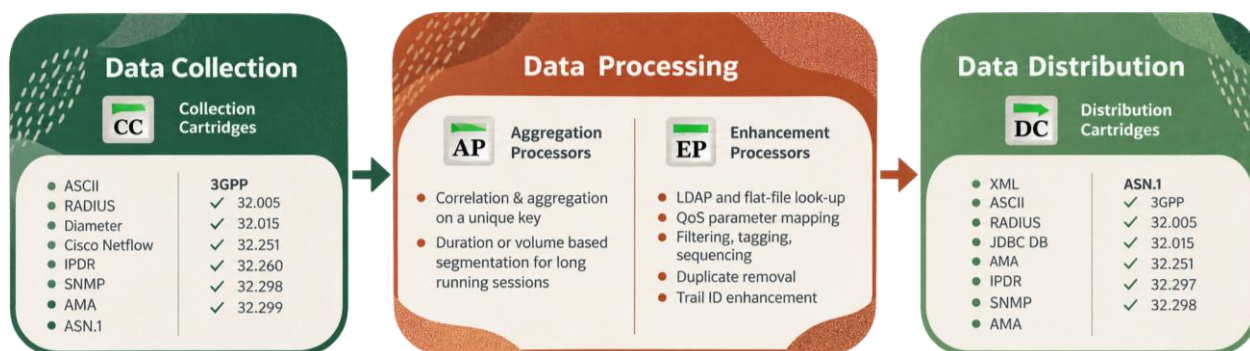


Figure 3. Supported formats, protocols, and functions of OCOMC.

Prebuilt rule files can be used as supplied or adapted to deployment requirements. Rules can be configured in the user interface or edited in text form without requiring a rebuild for each change. A cartridge development kit is available when additional functionality is required.

OCOMC provides graphical configuration for end-to-end mediation chains and rule-driven processing. Built-in routing supports multicast, round-robin, directed, and modulus distribution modes, so teams can direct processed data according to the needs of receiving systems. This supports a collect-once, distribute-many approach across supported sources, formats, and protocols.

Connect charging, billing, revenue management, and operations

OCOMC can provide controlled usage-data input to Oracle Communications Billing and Revenue Management (BRM), Oracle Communications Elastic Charging Engine (ECE), and other established charging, billing, revenue-management, operational, and enterprise systems. It is designed to interoperate with third-party billing and charging solutions, allowing providers to introduce or expand mediation without making a broader platform replacement a prerequisite.

For providers using BRM, OCOMC can provide the usage-data foundation for billing and revenue-management processes, including operational evidence to investigate and resolve usage-related exceptions. For providers using ECE, OCOMC can support offline usage-data processing as part of a wider converged charging environment.

This modular approach supports coexistence in fragmented monetization estates. A provider can begin with OCOMC to strengthen usage-data control for a priority domain, connect it to existing downstream systems, and progressively consolidate or modernize components as business, network, and operational needs change.

Improve operational control, traceability, and availability

Usage data becomes most visible when something goes wrong. OCOMC includes mediation-assurance capabilities, including alarms that can be triggered when records or record counts are not collected within a configured period through the mediation chain. These controls help operations teams identify interruptions or anomalies in processing.

A record editor enables authorized users to correct attribute values and reprocess corrected records. It provides a full audit trail and can lock fields, supporting controlled exception handling. Centralized administration and management, role-based access control, and SSL support for mediation-process communications provide further operational and deployment controls.

The product's user interface supports both design-time configuration and operational workflows, including editor and log access. REST APIs expose key product and operational actions, including node-state changes, configuration import, log retrieval, and user-role management. Together, these capabilities help revenue operations, revenue assurance, finance, customer care, and technical operations access traceable usage-processing information when they need to investigate, reconcile, or support a process.

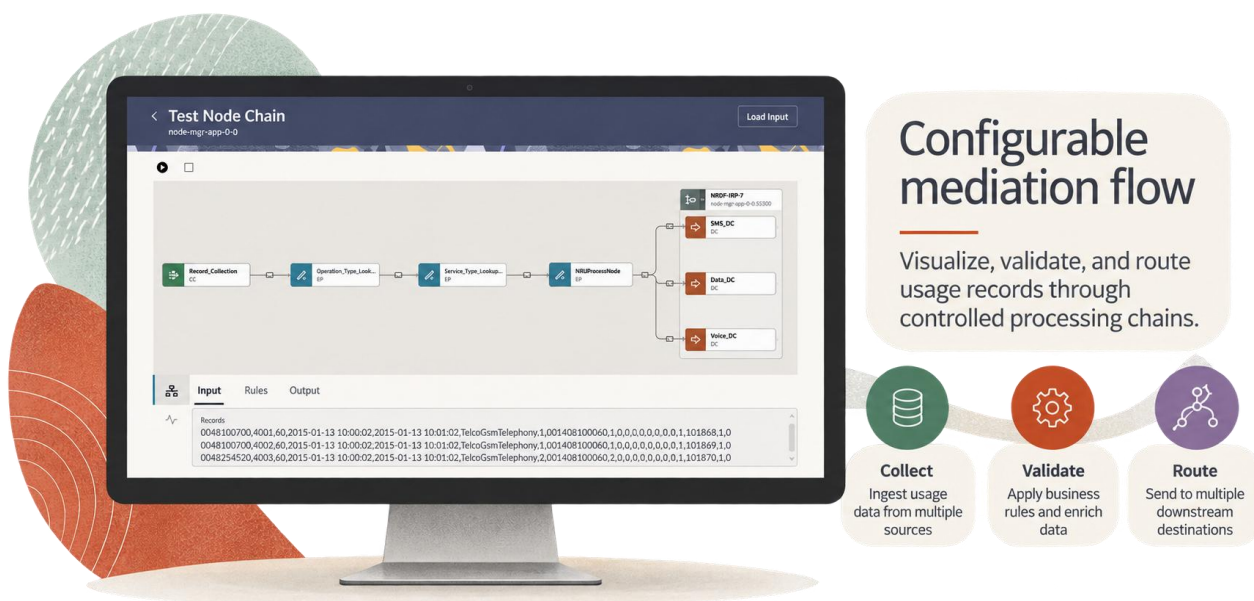


Figure 4. OCOMCs graphical user interface provides ease of configuration.

Deploy and evolve at a pace that fits the business

OCOMC can be deployed as a non-containerized application or using its cloud-native deployment option: a Kubernetes-orchestrated, containerized multi-service architecture. The cloud-native option supports Kubernetes StatefulSets, optional horizontal pod autoscaling based on CPU or memory, Helm charts, observability and logging integration, and CI/CD tooling. Deployment can use public or private cloud infrastructure, subject to the requirements of the provider's environment.

The deployment model is a choice, not a modernization mandate. Providers can use OCOMC independently in an established environment, add it alongside existing systems, or deploy it with other Oracle Cloud Scale Monetization products. This allows teams to progress through coexistence, targeted modernization, and consolidation without treating every domain as a single conversion project.

Part of Oracle Cloud Scale Monetization

Oracle Cloud Scale Monetization is a complete, modular monetization solution for communications providers. It brings together converged charging, billing and revenue management, usage-data mediation, and service control to support the revenue lifecycle across networks, services, and business models.

Within the solution, OCOMC provides usage-data mediation and control. BRM provides billing and revenue-management capabilities, ECE provides converged charging, and Oracle Communications Convergent Charging Controller provides service-control capabilities for established voice and messaging environments. These products can be introduced independently or together and expanded as requirements change.

Trusted charging, billing, usage, and revenue data can provide authoritative operational evidence for future, governed intelligence. Autonomous Revenue Management is an operating-model direction toward connected,



intelligent, and continuously improving revenue operations; it is not an OCOMC or Oracle Cloud Scale Monetization product. People, policies, and authoritative systems retain control as providers evolve their operating model.

Summary

Oracle Communications Offline Mediation Controller provides controlled usage-data mediation for communications and digital service providers. It collects, validates, normalizes, enriches, corrects, correlates, aggregates, routes, and distributes supported usage records, with the traceability and operational controls needed to support downstream charging, billing, revenue management, and operational processes. As a modular component of Oracle Cloud Scale Monetization, OCOMC supports independent deployment, coexistence with established systems, and progressive modernization across multigeneration environments.

Learn more

Learn more about Oracle Cloud Scale Monetization at www.oracle.com/cloud-scale-monetization

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