Oracle® Communications Offline Mediation Controller

Licensing Information User Manual Release 6.0 **E64554-01**

June 2015



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Introduction

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Licensing Information

Product	Subproduct	Licensing Description
Oracle Communications Offline Mediation Controller	Oracle Communications Offline Mediation Controller	Oracle Communications Offline Mediation Controller provides a flexible and scalable architecture for the collection, aggregation, enhancement, and distribution of network data. It can accommodate multiple collection requirements and distribute the data to billing systems.
		Oracle Communications Offline Mediation Controller consists of several components that work together to process network data. These components are built using the cartridge framework. There are three major types of cartridges or nodes in Oracle Communications Offline Mediation Controller:
		Collection Cartridge (CC)
		 Processor Cartridges: Enhancement Processor (EP) Cartridge and Aggregation Processor (AP) Cartridge
		Distribution Cartridge (DC)
		A Collection Cartridge (CC) is the entry point for data coming into the Offline Mediation Controller system. A CC is responsible for converting this data to a common format (NAR – Network Accounting Record) for use within the system.
		A Processor Cartridge (EP and AP) performs some additional functionality on the data in the NAR, such as combining the values of one or more fields into a single field, or adding/removing fields or records based on a particular value or condition.
		A Distribution Cartridge (DC) is responsible for converting the data in NAR format into some output format, such as a file or database, for use by other applications like Oracle Communications Billing and Revenue Management (BRM) pipeline batch application. Oracle Communications Offline Mediation Controller provides an OOB DC that writes an output file in ASCII, ASN.1, or XML formats.
		Cartridge Development Kit (CDK):
		 Used to create new cartridges and consists of NPL Reference Guide and CDK Developer's Guide
		Customer can also create a custom rule file for an existing Cartridge Kit cartridge
		Included:
		Oracle Communications Offline Mediation Controller includes Elastic Charging Engine Cartridge Bundle to handle normalized usage record files from the network, process and send them to Elastic Charging Engine (ECE) for offline charging.
		Oracle Communications Offline Mediation Controller includes Suspense Management Cartridge Bundle which contains NAR Collection Cartridge, Suspense Distribution Cartridge, Recycle Collection Cartridge and Recycle Processor Cartridge to manage error/suspended records. For this bundle to work it requires licensing of Oracle Communications Suspense Manager.
		Prerequisites:
		Oracle Communications Offline Mediation Controller requires licensing of Directory Services Plus OR Identity and Access Management Suite Plus for Oracle Applications.
Oracle Communications Offline Mediation Controller	Oracle Communications Offline Mediation Controller Cartridge –	The Oracle Communications Offline Mediation Controller Cartridge – IMS CGF Bundle is intended to provide all the basic functionality required to collect event records from the IMS core network and create billable CDRs.

Product	Subproduct	Licensing Description
Cartridges: Bundles	IMS CGF Bundle	The Oracle Communications Offline Mediation Controller Cartridge – IMS CGF Bundle includes:
Buildies		IMS CGF Diameter Collection Cartridge
		IMS CGF Diameter Parser EP Cartridge
		IMS CGF Session Sequencing EP Cartridge
		IMS CGF AVP Mapper EP Cartridge
		IMS CGF Session Aggregation AP Cartridge
		IMS CGF ASN.1 Distribution Cartridge
		Prerequisites:
		Requires either a full use license of Oracle Communications Offline Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management.
	Oracle Communications Offline Mediation	The Oracle Communications Offline Mediation Controller Cartridge – Packet CGF Bundle is required for all new installations of Oracle Communications Offline Mediation Controller to support a GPRS or UMTS packet core network (GGSN and SGSN).
	Controller Cartridge – Packet CGF Bundle	The Oracle Communications Offline Mediation Controller Cartridge – Packet CGF Bundle provides the functionality required to support collection and distribution of billing records according to the 3GPP 32.015 specification for the Charging Gateway Function.
		The Oracle Communications Offline Mediation Controller Cartridge – Packet CGF Bundle includes:
		The following Collection, Processing, and Distribution Cartridges for Packet CGF:
		GGSN/SGSN 3GPP 32.015/32.251 GTP/GTP' Collection Cartridge
		 Session Sequencing Enhancement Processor Cartridge (performs duplicate record removal and re-sequencing of CDRs that arrive out of sequence)
		 Duplicate Check Cartridge (performs duplicate record check and removal)
		Oracle Communications Offline Mediation Controller Cartridge - 3GPP 32.015/32.251/32.298 ASN.1 Distribution
		 Oracle Communications Offline Mediation Controller Cartridge for Nortel GSN 3GPP Collection
		Prerequisites:
		Requires either a full use license of Oracle Communications Offline Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management.
	Oracle Communications Offline Mediation Controller Cartridge –	The Oracle Communications Offline Mediation Controller Cartridge – RADIUS Bundle is intended to provide all the basic functionality required for collecting RADIUS event records from the radius server and creating billable CDRs. The Oracle Communications Offline Mediation Controller Cartridge –
	RADIUS Bundle	RADIUS Bundle includes:
		Oracle Communications Offline Mediation Controller

Product	Subproduct	Licensing Description
		Cartridge for RADIUS Collection
		Oracle Communications Offline Mediation Controller Cartridge - RADIUS Session Aggregation
		ASCII File Distribution Cartridge
		Prerequisites:
		Requires either a full use license of Oracle Communications Offline Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management.
	Oracle Communications Offline Mediation Controller	The Oracle Communications Offline Mediation Controller Cartridge – Voice Bundle is required for all new installations of Oracle Communications Offline Mediation Controller to support a GSM circuit voice core network (MSC).
	Cartridge – Voice Bundle	The Oracle Communications Offline Mediation Controller Cartridge – Voice Bundle is intended to provide all the basic functionality required to support collection and distribution of MSC billing records.
		The Oracle Communications Offline Mediation Controller Cartridge – Voice Bundle includes:
		Nortel MSC Collection Cartridge
		 One Distribution Cartridge for the MSC (see the Distribution Cartridge section for available cartridges)
		Prerequisites:
		Requires either a full use license of Oracle Communications Offline Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management.
	Oracle Communications Offline Mediation	The Oracle Communications Offline Mediation Controller Cartridge for Nortel MCS 5200 to CS2000 AMA Bundle is required for the creation and configuration of the cartridge chains that comprise the functionality of the MCS/AS 5200 Solution cartridge pack.
	Controller Cartridge for Nortel MCS 5200 to	The three possible cartridges in this solution:
	CS2000 AMA Bundle	 Map Nortel MCS 5200 call data records (CDRs) to Nortel Networks Communication Server 2000 (CS 2000) CDRs prior to being output by a CS 2000 distribution cartridge (DC).
		 Support the enhancement and distribution of CS 2000 SN09 AMA DNS records.
		Collect MCS 5200 data and distributes the MCS 5200 IPDR data.
		The Oracle Communications Offline Mediation Controller Cartridge for Nortel MCS 5200 to CS2000 AMA Bundle includes:
		MCS 5200 Collection Cartridge
		Nortel CS2000 AMA DNS Collection Cartridge
		MCS 5200 Session Aggregation AP Cartridge
		MCS 5200 to Nortel CS2K AMA EP Cartridge
		Nortel CS2000 AMA DNS Distribution Cartridge
		MCS 5200 Distribution Cartridge

Product	Subproduct	Licensing Description
		Prerequisites:
		Requires either a full use license of Oracle Communications Offline Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management.
Oracle Communications Offline Mediation Controller Cartridges: Collection	Oracle Communications Offline Mediation Controller Cartridge – NetFlow Collection	The Oracle Communications Offline Mediation Controller Cartridge – NetFlow Collection collects raw NetFlow per-flow records. It supports NetFlow versions 1, 5, and 7. The Oracle Communications Offline Mediation Controller Cartridge – NetFlow Collection also transforms massive amounts of raw data into usable usage information (e.g., track web traffic volumes to and from hosted web servers). Prerequisites:
		Requires either a full use license of Oracle Communications Offline Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management.
	Oracle Communications Offline Mediation	The Oracle Communications Offline Mediation Controller Cartridge – SNMP Collection is a component of the SNMP Data Collection Framework that gathers data from SNMP-enabled devices.
	Controller Cartridge – SNMP Collection	The Oracle Communications Offline Mediation Controller Cartridge – SNMP Collection gathers a set of statistics at user-defined intervals, adds some basic and configuration data (such as timestamp and collection rate), and passes it on to the next node in the chain.
		Prerequisites:
		Requires either a full use license of Oracle Communications Offline Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management.
	Oracle Communications	The Oracle Communications Offline Mediation Controller Cartridge – Syslog Collection collects syslog files from multiple devices.
	Offline Mediation Controller Cartridge –	Prerequisites:
	Syslog Collection	Requires either a full use license of Oracle Communications Offline Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management.
	Oracle Communications Offline Mediation Controller Cartridge for Microsoft IPTV	The Oracle Communications Offline Mediation Controller Cartridge for Microsoft IPTV Collection collects billing event records from one or more Microsoft IPTV platforms over SOAP/XML. Prerequisites: Requires either a full use license of Oracle Communications Offline
	Collection	Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management.

Product	Subproduct	Licensing Description
	Oracle Communications Offline Mediation Controller Cartridge for	The Oracle Communications Offline Mediation Controller Cartridge for Nortel DMS OM Collection provides functionality to gather files containing operational metrics (OM) records from various telecom switches using file transfer protocol (FTP). Prerequisites:
	Nortel DMS OM Collection	Requires either a full use license of Oracle Communications Offline
	Collection	Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management.
	Oracle Communications Offline Mediation	The Oracle Communications Offline Mediation Controller Cartridge for Nortel CS2000 Collection supports the collection of Nortel Networks CS 2000 SN06 AMADNS records.
	Controller Cartridge for Nortel CS2000 Collection	The Oracle Communications Offline Mediation Controller Cartridge for Nortel CS2000 Collection supports the following file transfer modes for Nortel Networks SuperNode Data Manager (SDM) and SuperNode Billing Application (SBA):
		Outbound File Transfer, where files are pushed to the Collection Cartridge
		 Inbound File Transfer, where files are pulled by FTP from the SBA directly, or from an intermediate FTP server that is provisioned to retrieve the records from the SBA
		Prerequisites:
		Requires either a full use license of Oracle Communications Offline Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management.
	Oracle Communications Offline Mediation	The Oracle Communications Offline Mediation Controller Cartridge for Nortel DMS 100 MMP (Multi Market Platform) Collection provides functionality to gather records from various telecom switches.
	Controller Cartridge for	Prerequisites:
	Nortel DMS 100 MMP Collection	Requires either a full use license of Oracle Communications Offline Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management.
	Oracle Communications Offline Mediation Controller Cartridge for Nortel DMS SMDR	The Oracle Communications Offline Mediation Controller Cartridge for Nortel DMS SMDR Collection provides the ability to collect SMDR records from DMS-100 switches according to the specification DMS100 Family North American DMS-100 Station Message Detail Recording Reference Guide, DMSCCM12 Standard 19.03 October 2000.
	Collection	The Oracle Communications Offline Mediation Controller Cartridge for Nortel DMS SMDR Collection also filters, enhances, and distributes SMDR records to multiple destinations, including a Billing Center and an Oracle database.
		Prerequisites:
		Requires either a full use license of Oracle Communications Offline Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue

Product	Subproduct	Licensing Description
		Management.
	Oracle Communications Offline Mediation	The Oracle Communications Offline Mediation Controller Cartridge for Nortel MCS 5200 Collection enables the collection of Nortel MCS 5200 v3.0 data.
	Controller Cartridge for Nortel MCS 5200 Collection	The Oracle Communications Offline Mediation Controller Cartridge for Nortel MCS 5200 Collection receives and processes accounting records from the MCS 5200 device in the form of IPDR data files, and outputs the data in Network Accounting Record (NAR) format.
		Prerequisites:
		Requires either a full use license of Oracle Communications Offline Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management.
	Oracle Communications Offline Mediation	The Oracle Communications Offline Mediation Controller Cartridge for Nortel MSC Collection supports the Nortel MSC, including NSS 13, 15, 16, 17, 18 releases and planned support for future releases.
	Controller Cartridge for Nortel MSC Collection	Collection from the MSC is supported with two interfaces, FTP and OpenFTP (Real Time Billing). OpenFTP enables Hot Billing, with CDRs collected immediately from the MSC and forwarded to the billing system.
		Prerequisites:
		Requires either a full use license of Oracle Communications Offline Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management.
		If the Oracle Communications Offline Mediation Controller Cartridge for Nortel MSC Collection is purchased, an Oracle Communications Offline Mediation Controller Cartridge for Nortel MSC Distribution must be purchased as well.
Oracle Communications Offline Mediation	Oracle Communications Offline Mediation	The Oracle Communications Offline Mediation Controller Cartridge – Flexible Routing support CDRs for pre-paid subscribers, inbound roamers, and outbound roamers to be separated from the regular post-paid subscriber CDR stream.
Controller Cartridges: Enhancement	Controller Cartridge – Flexible Routing	The Oracle Communications Offline Mediation Controller Cartridge – Flexible Routing simplifies the detection of the type of CDR to enable routing to the correct destination. Numerous routing algorithms are supported, including:
		 Pre-paid subscribers can be identified by the Charging Characteristics field or APN
		Inbound roamers can be detected by the MCC and MNC contained in the IMSI
		 Outbound roamers can be detected by the SGSN IP address
		 Routing on APN NI, APN OI, Mobile Country Code (MCC), GGSN IP, SGSN IP Address List and volume = 0 bytes
		By configuring the required information in the Offline Mediation Controller GUI, the Oracle Communications Offline Mediation Controller Cartridge – Flexible Routing becomes simple and straightforward to implement and maintain; there is no need for an operator to work within a rigid structure where the information is hard coded implemented in a complicated fashion.

Product	Subproduct	Licensing Description
		Prerequisites:
		Requires either a full use license of Oracle Communications Offline Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management.
	Oracle Communications Offline Mediation Controller Cartridge – Record Filtering	The Oracle Communications Offline Mediation Controller Cartridge – Record Filtering helps automatically filter out (delete) records according to multiple selection criteria. Filtering is enabled with GUI check boxes or lists for the following criteria: • CDR Type: G-CDR, S-CDR, M-CDR, S-SMO-CDR, S-SMT-CDR • List of APNs • List of SMS-Cs The Oracle Communications Offline Mediation Controller Cartridge – Record Filtering also suppresses certain optional fields in the CDR if they are not required for billing; suppression of each field is configurable in the GUI. GUI-based configuration ensures it is easy to define and modify the filtering criteria, with no custom code or complicated configuration required. Prerequisites: Requires either a full use license of Oracle Communications Offline Mediation Controller or a restricted use license of Oracle
		Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management.
Oracle Communications Offline Mediation	Oracle Communications Offline Mediation	The Oracle Communications Offline Mediation Controller Cartridge – NetFlow Aggregation Processor helps to create one record persession, per-hour.
Controller Cartridges:	Controller Cartridge – NetFlow Aggregation	The Oracle Communications Offline Mediation Controller Cartridge – NetFlow Aggregation Processor correlates session records based on:
Aggregation	Processor	Source and destination IP address
		Source and destination port
		IP protocol type
		Day of year and hour
		The NetFlow Aggregation Processor Cartridge also aggregates usage into total bytes and total packets.
		Prerequisites:
		Requires either a full use license of Oracle Communications Offline Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management.
	Oracle Communications Offline Mediation Controller Cartridge – Partial CDR Completion	The Oracle Communications Offline Mediation Controller Cartridge – Partial CDR Completion provides the Nortel SGSN to create partial records for an ongoing PDP session. It will drop some fields from the second partial onwards on the assumption that these fields never change. The QoS fields are exceptions, as the QoS field may show up in subsequent partial CDRs due to a change in their values. Some billing systems require all fields to be present. The Oracle Communications Offline Mediation Controller Cartridge –

Partial CDR. Completion tracks the required fields in the first partial and adds them into subsequent partials, including the addition of a new CoS field value if applicable. Prerequisites: Requires either a full use license of Oracle Communications Offline Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller Cartridge—Session CDR Aggregation The Oracle Communications Offline Mediation Controller Cartridge—Session CDR Aggregation The Oracle Communications Offline Mediation Controller Cartridge—Session CDR Aggregation provides the SGSN and GGSN to generate numerous partial records for a given subscriber session (PPD context), Implementing partial records for a given subscriber session (PPD context), Implementing partial records generation on the GGSN and SGSN helps of partial the GGSN or SGSN should go down Prafit a records in PCPD context). Implementing partial records generation on the GGSN and SGSN helps of partial the GGSN or SGSN should go down Prafit a records also enable final systems to monitor on-going sessions. The Oracle Communications Offline Mediation Controller Cartridge—Session CDR Aggregation correlates CDRs on a per-session basis, and for a single session it will output a single G-CDR and one (or more) S-CDRs (nore S-CDR for each SGSN used during the session). Prof CCDRs, the AP sums the duration of the session and the G-CDR, the will output a single G-CDR and one (or more) S-CDRs (nore S-CDRs). SSN used during the session. Prorquisites: Requires either a full use license of Oracle Communications Offline Mediation Controller Cartridge—Session CDR Record Grouping groups GGSN, SGSN, and GGSN and G	Product	Subproduct	Licensing Description
Requires either a full use license of Oracle Communications Offline Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller Cartridge — Session CDR Aggregation or Provides the SGSN and GGSN to generate numerous partial records for a given subscriber session CDR Aggregation or SGSN helps operators reduce the reposure to loss of billing records if the GGSN or SGSN should go down Partial records on a given subscriber session (PDP context), implementing partial record for a given subscriber session (PDP context), implementing partial records for a given subscriber session (PDP context), implementing partial records on sos of billing records if the GGSN or SGSN should go down Partial records also enable fraud systems to monitor on-going sessions. The Oracle Communications Offline Mediation Controller Cartridge – Session CDR Aggregation correlates CDRS on an ex-session basis, and for a single session! Will output a single G-CDR and one for more S-CDRS for the SCSN used through the session. For G-CDRs, the AP sums the duration of the session of the G-CDR. Likewise for S-CDRs, the AP sums the duration and concatenates the List Of Traffic Volumes and the SGSN address in the G-CDR. Likewise for S-CDRs, the AP sums the duration and concatenates the List Of Traffic Volumes for each SGSN used during the session. Prerequisites: Requires either a full use license of Oracle Communications Offline Mediation Controller Cartridge – Session CDR Record Grouping groups GSSN, SGSN, and concatenates the List Of Traffic Volumes for each SGSN and decrease of Oracle Communications Offline Mediation Controller Cartridge – Session CDR Record Grouping groups GSSN, SGSN, and concatenates the List Off Traffic Volumes for each SGSN and the session are placed to generate the selection of Oracle Communications Offline Mediation Controller Cartridge – Session CDR Record Grouping groups GSSN, SGSN, and concatenates the List Offine Mediation Controller Cartridge – Session CDR Record Grouping also en			and adds them into subsequent partials, including the addition of a
Mediation Controller or a restricted use license of Oracle Communications of Hine Mediation Controller, Restricted use license of Oracle Communications Offline Mediation Controller Comes with the licenses of Oracle Communications Advanced Billing and Revenue Management. The Oracle Communications Offline Mediation Controller Cartridge — Session CDR Aggregation provides the SGSN and GGSN to generate numerous partial records for a given subscriber session (PDP context). Implementing partial record generation on the GGSN and SGSN helps operators reduce their exposure to loss of billing records if the GGSN to SGSN should go down. Partial records also enable fraud systems to monitor on-going sessions. The Oracle Communications Offline Mediation Controller Cartridge — Session CDR Aggregation correlates CDRs on a per-session basis, and for a single second single G-CDR and one (or more) S-CDRs (one S-CDR for each SGSN used during the session). For G-CDRs, the AP sums the duration of the session and concatenates the List Of Traffic Volumes and the SGSN Address in the G-CDR. Likewise for S-CDRs, the AP sums the duration of concatenates the List Of Traffic Volumes for each SGSN used during the session. Prerequisites: Requires either a full use license of Oracle Communications Offline Mediation Controller Cartridge — Session CDR Record Grouping groups GGSN, SGSN, and Openwae WAP records on a per-session basis. All CDRs for a session are placed close together in the CDR stream sent downwards. The Oracle Communications Offline Mediation Controller Cartridge — Session CDR Record Grouping groups GGSN, SGSN, and Openwae WAP records on a per-session basis. All CDRs for a session are placed close together in the CDR attended to the little properties of the GCDR attended to the SCSN and Controller Cartridge — Session CDR Record Grouping also enables the identification of inbound roamer S-CDRs based on the operator's Mobile Country Code (MCC) and Mobile Network Code (MNC). The MCC and MNC are derived from the IMS! (Internationa			Prerequisites:
Communications Offline Mediation Controller Cartridge – Session CDR Aggregation Aggregation Session CDR Sessi			Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue
The Oracle Communications Offline Mediation Controller Cartridge – Session CDR Record Grouping Oracle Communications Offline Mediation Controller Cartridge – Session CDR Record Grouping Grouping Oracle Communications Offline Mediation Controller Cartridge – Session CDR Record Grouping also enables the tidentification of inbound roamer and the CDR sche Mobile Country Code (McC) and Mobile Network Code (McC). The MCC and MNC are derived from the IMSI (International Mobile Custors) of Oracle Communications Offline Mediation Controller Cartridge – Session CDR Record Grouping Oracle O		Communications Offline Mediation Controller Cartridge – Session CDR	Session CDR Aggregation provides the SGSN and GGSN to generate numerous partial records for a given subscriber session (PDP context). Implementing partial record generation on the GGSN and SGSN helps operators reduce their exposure to loss of billing records if the GGSN or SGSN should go down. Partial records also
Requires either a full use license of Oracle Communications Offline Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Offline Mediation Controller Cartridge – Session CDR Record Grouping groups GGSN, SGSN, and Openwave WAP records on a per-session basis. All CDRs for a session are placed close together in the CDR stream sent downstream. The Oracle Communications Offline Mediation Controller Cartridge – Session CDR Record Grouping groups GGSN, SGSN, and Openwave WAP records on a per-session basis. All CDRs for a session are placed close together in the CDR stream sent downstream. The Oracle Communications Offline Mediation Controller Cartridge – Session CDR Record Grouping also enables the identification of inbound roamer S-CDRs based on the operator's Mobile Country Code (MCC) and Mobile Network Code (MNC). The MCC and MNC are derived from the IMSI (International Mobile Subscriber Identity) attribute in S-CDR; if the MCC and MNC do not match the operator's, the S-CDR is marked as an inbound roamer and the CDR can be routed to a different destination. Prerequisites: Requires either a full use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Offline Mediation Controller Cartridge – Near Real Time Xfer Distribution provides distribution in near real time using a Nortel Networks proprietary protocol. Prerequisites: **Prerequisites** **Prerequ		7.33°33°10°1	Session CDR Aggregation correlates CDRs on a per-session basis, and for a single session it will output a single G-CDR and one (or more) S-CDRs (one S-CDR for each SGSN used during the session). For G-CDRs, the AP sums the duration of the session and concatenates the List Of Traffic Volumes and the SGSN Address in the G-CDR. Likewise for S-CDRs, the AP sums the duration and concatenates the List Of Traffic Volumes for each SGSN used during
Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller Centroller comes with the license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management. The Oracle Communications Offline Mediation Controller Cartridge – Session CDR Record Grouping groups GGSN, SGSN, and Openwave WAP records on a per-session basis. All CDRs for a session are placed close together in the CDR stream sent downstream. The Oracle Communications Offline Mediation Controller Cartridge – Session CDR Record Grouping also enables the identification of inbound roamer S-CDRs based on the operator's Mobile Country Code (MCC) and Mobile Network Code (MNC). The MCC and MNC are derived from the IMSI (International Mobile Subscriber Identity) attribute in S-CDR; if the MCC and MNC do not match the operator's, the S-CDR is marked as an inbound roamer and the CDR can be routed to a different destination. Prerequisites: Requires either a full use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management. Oracle Communications Offline Mediation Controller Cartridge — The Oracle Communications Offline Mediation Controller Cartridge — Near Real Time Xfer Distribution provides distribution in near real time using a Nortel Networks proprietary protocol. Prerequisites:			Prerequisites:
Communications Offline Mediation Controller Cartridge – Session CDR Record Grouping Session CDR Record Grouping also enables the identification of inbound roamer S-CDRs based on the operator's Mobile Country Code (MCC) and Mobile Network Code (MNC). The MCC and MNC are derived from the IMSI (International Mobile Subscriber Identity) attribute in S-CDR; if the MCC and MNC do not match the operator's, the S-CDR is marked as an inbound roamer and the CDR can be routed to a different destination. Prerequisites: Requires either a full use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller cartridge — Near Real Time Xfer Distribution provides distribution in near real time using a Nortel Networks proprietary protocol. Prerequisites:			Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue
Grouping The Oracle Communications Offline Mediation Controller Cartridge – Session CDR Record Grouping also enables the identification of inbound roamer S-CDRs based on the operator's Mobile Country Code (MCC) and Mobile Network Code (MNC). The MCC and MNC are derived from the IMSI (International Mobile Subscriber Identity) attribute in S-CDR; if the MCC and MNC do not match the operator's, the S-CDR is marked as an inbound roamer and the CDR can be routed to a different destination. Prerequisites: Requires either a full use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management. Oracle Communications Offline Mediation Controller Cartridge — The Oracle Communications Offline Mediation Controller Cartridge — Near Real Time Xfer Distribution provides distribution in near real time using a Nortel Networks proprietary protocol. Prerequisites:		Communications Offline Mediation Controller Cartridge –	Session CDR Record Grouping groups GGSN, SGSN, and Openwave WAP records on a per-session basis. All CDRs for a session are placed close together in the CDR stream sent
Requires either a full use license of Oracle Communications Offline Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management. Oracle Communications Offline Mediation Communications Offline Mediation Communications Offline Mediation Controller The Oracle Communications Offline Mediation Controller Cartridge – Near Real Time Xfer Distribution provides distribution in near real time using a Nortel Networks proprietary protocol. Prerequisites:		0000.0 02	Session CDR Record Grouping also enables the identification of inbound roamer S-CDRs based on the operator's Mobile Country Code (MCC) and Mobile Network Code (MNC). The MCC and MNC are derived from the IMSI (International Mobile Subscriber Identity) attribute in S-CDR; if the MCC and MNC do not match the operator's, the S-CDR is marked as an inbound roamer and the CDR can be
Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management. Oracle Communications Offline Mediation Communications Offline Mediation Communications Offline Mediation Controller Cartridge – Near Real Time Xfer Distribution provides distribution in near real time using a Nortel Networks proprietary protocol. Prerequisites:			Prerequisites:
Communications Offline Mediation Controller Communications Offline Mediation Controller Controller Communications Offline Mediation Controller Con			Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue
Solutions Stationed	Communications Offline Mediation	Communications Offline Mediation	Near Real Time Xfer Distribution provides distribution in near real time using a Nortel Networks proprietary protocol.
		_	·

Product	Subproduct	Licensing Description
Distribution	Distribution	Controller. (Full use license – this requirement is not met through Offline Mediation Controller licenses bundled with other products.)
	Oracle Communications Offline Mediation	The Oracle Communications Offline Mediation Controller Cartridge – XML Distribution distributes files in Extensible Markup Language (XML) format.
	Controller Cartridge –	Prerequisites:
	XML Distribution	Requires full use license of Oracle Communications Offline Mediation Controller. (Full use license – this requirement is not met through Offline Mediation Controller licenses bundled with other products.)
	Oracle Communications Offline Mediation	The Oracle Communications Offline Mediation Controller Cartridge for Nortel CS 2000 AMA DNS Distribution supports the distribution of Nortel CS 2000 SN09 AMADNS records.
	Controller Cartridge for	Prerequisites:
	Nortel CS2000 AMA DNS Distribution	Requires full use license of Oracle Communications Offline Mediation Controller. (Full use license – this requirement is not met through Offline Mediation Controller licenses bundled with other products.)
	Oracle Communications Offline Mediation	The Oracle Communications Offline Mediation Controller Cartridge for Nortel MCS 5200 IPDR Distribution supports the distribution of MCS 5200 IPDR records.
	Controller Cartridge for	Prerequisites:
	Nortel MCS 5200 IPDR Distribution	Requires full use license of Oracle Communications Offline Mediation Controller. (Full use license – this requirement is not met through Offline Mediation Controller licenses bundled with other products.)
	Oracle Communications Offline Mediation	The Oracle Communications Offline Mediation Controller Cartridge for Nortel MSC AMA DIRP Distribution distributes AMA DIRP-encoded CDRs.
	Controller Cartridge for	Prerequisites:
	Nortel MSC AMA DIRP Distribution	Requires full use license of Oracle Communications Offline Mediation Controller. (Full use license – this requirement is not met through Offline Mediation Controller licenses bundled with other products.)
	Oracle Communications Offline Mediation	The Oracle Communications Offline Mediation Controller Cartridge for Nortel MSC ASCII Distribution distributes records in ASCII file format. Prerequisites:
	Controller Cartridge for	Requires full use license of Oracle Communications Offline Mediation
	Nortel MSC ASCII Distribution	Controller. (Full use license – this requirement is not met through Offline Mediation Controller licenses bundled with other products.)
	Oracle Communications Offline Mediation	The Oracle Communications Offline Mediation Controller Cartridge for Nortel MSC ASN.1 Distribution distributes ASN.1-encoded CDRs according to 3GPP 32.005.
	Controller Cartridge for	Prerequisites:
	Nortel MSC ASN.1 Distribution	Requires full use license of Oracle Communications Offline Mediation Controller. (Full use license – this requirement is not met through Offline Mediation Controller licenses bundled with other products.)
	Oracle Communications Offline Mediation Controller Cartridge for Nortel MSC Database	The Oracle Communications Offline Mediation Controller Cartridge for Nortel MSC Database Distribution provides database storage and reporting solution for the Nortel MSC. CDRs are stored in a database, which can then be queried using a reporting tool. Administrators can search for specific CDRs based on CDR type, time of call, originating/called number, or any attribute in the CDR to analyze, verify, and resolve customer problems.

Product	Subproduct	Licensing Description
	Distribution	The solution provides:
		 A pre-integrated Collection Cartridge and the JDBC Database Distribution Cartridge for the Nortel MSC, including simultaneous distribution of AMA records to a billing system and database.
		 An Oracle Database schema that defines the database tables and stored procedures for managing data partitioning and deletion of aged records; Oracle Database must be purchased separately.
		Prerequisites:
		Requires full use license of Oracle Communications Offline Mediation Controller. (Full use license – this requirement is not met through Offline Mediation Controller licenses bundled with other products.)
Oracle Communications Offline Mediation	Oracle Communications Offline Mediation	The Oracle Communications Offline Mediation Controller Cartridge Kit – IPDRv2 Distribution supports the distribution of Internet Protocol Detail Record (IPDR) v2.0 formatted files.
Controller Cartridge Kits	Controller Cartridge Kit – IPDRv2 Distribution	The Oracle Communications Offline Mediation Controller Cartridge Kit – IPDRv2 Distribution leverages the functionality provided in Oracle Communications Offline Mediation Controller to extend the data modeling of mediation results, as described in the Developer Guide.
		Prerequisites:
		Requires full use license of Oracle Communications Offline Mediation Controller. (Full use license – this requirement is not met through Offline Mediation Controller licenses bundled with other products.)
	Oracle Communications Offline Mediation Controller Cartridge Kit	The Oracle Communications Offline Mediation Controller Cartridge Kit – RADIUS Distribution distributes RADIUS packets via UDP. The distribution of standards-based RADIUS attributes and Vendor Specific Attributes (VSAs) are supported.
	- RADIUS Distribution	The Oracle Communications Offline Mediation Controller Cartridge Kit – RADIUS Distribution leverages the functionality provided in Oracle Communications Offline Mediation Controller to extend the data modeling of mediation results, as described in the Developer Guide.
		Prerequisites:
		Requires full use license of Oracle Communications Offline Mediation Controller. (Full use license – this requirement is not met through Offline Mediation Controller licenses bundled with other products.)
	Oracle Communications Offline Mediation	The Oracle Communications Offline Mediation Controller Cartridge Kit – AMA File Collection supports the collection of Nortel AMA file records.
	Controller Cartridge Kit – AMA File Collection	The Oracle Communications Offline Mediation Controller Cartridge Kit – AMA File Collection leverages the functionality provided in Oracle Communications Offline Mediation Controller to extend the data modeling of mediation results, as described in the Developer Guide.
		Prerequisites:
		Requires either a full use license of Oracle Communications Offline Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management.
	Oracle Communications Offline Mediation	The Oracle Communications Offline Mediation Controller Cartridge Kit – AMA File Distribution supports the distribution of Nortel AMA file records.
	Controller Cartridge Kit	The Oracle Communications Offline Mediation Controller Cartridge Kit

Product	Subproduct	Licensing Description
	- AMA File Distribution	 AMA File Distribution leverages the functionality provided in Oracle Communications Offline Mediation Controller to extend the data modeling of mediation results, as described in the Developer Guide.
		Prerequisites:
		Requires full use license of Oracle Communications Offline Mediation Controller. (Full use license – this requirement is not met through Offline Mediation Controller licenses bundled with other products.)
	Oracle Communications Offline Mediation	The Oracle Communications Offline Mediation Controller Cartridge Kit – AMADNS Distribution supports the distribution of Nortel AMADNS records.
	Controller Cartridge Kit – AMADNS Distribution	The Oracle Communications Offline Mediation Controller Cartridge Kit – AMADNS Distribution leverages the functionality provided in Oracle Communications Offline Mediation Controller to extend the data modeling of mediation results, as described in the Developer Guide.
		Prerequisites:
		Requires full use license of Oracle Communications Offline Mediation Controller. (Full use license – this requirement is not met through Offline Mediation Controller licenses bundled with other products.)
	Oracle Communications Offline Mediation	The Oracle Communications Offline Mediation Controller Cartridge Kit – ASCII Delimited Distribution is responsible for distributing ASCII files to a downstream application or BSS/OSS.
	Controller Cartridge Kit – ASCII Delimited Distribution	The Oracle Communications Offline Mediation Controller Cartridge Kit – ASCII Delimited Distribution leverages the functionality provided in Oracle Communications Offline Mediation Controller to extend the data modeling of mediation results, as described in the Developer Guide.
		Prerequisites:
		Requires full use license of Oracle Communications Offline Mediation Controller. (Full use license – this requirement is not met through Offline Mediation Controller licenses bundled with other products.)
	Oracle Communications Offline Mediation	The Oracle Communications Offline Mediation Controller Cartridge Kit – ASN.1 File Collection supports in the collection of an ASN.1 encoded file
	Controller Cartridge Kit – ASN.1 File Collection	The Oracle Communications Offline Mediation Controller Cartridge Kit – ASN.1 File Collection leverages the functionality provided in Oracle Communications Offline Mediation Controller to extend the data modeling of mediation results, as described in the Developer Guide.
		Prerequisites:
		Requires either a full use license of Oracle Communications Offline Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management.
	Oracle Communications Offline Mediation Controller Cartridge Kit – Flexible ASCII Collection	The Oracle Communications Offline Mediation Controller Cartridge Kit – Flexible ASCII Collection supports the collection of records with a broad range of ASCII file formats. It is backward compatible with the file formats supported by the ASCII Collection Cartridge.
		The Oracle Communications Offline Mediation Controller Cartridge Kit – Flexible ASCII Collection also includes support for configurable field delimiters and new file types, such as files containing multi-line records, and files containing other types of header and/or trailer records.
		The Oracle Communications Offline Mediation Controller Cartridge Kit – Flexible ASCII Collection leverages the functionality provided in

Product	Subproduct	Licensing Description
		Oracle Communications Offline Mediation Controller to extend the data modeling of mediation results, as described in the Developer Guide.
		Prerequisites:
		Requires either a full use license of Oracle Communications Offline Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management.
	Oracle Communications Offline Mediation	The Oracle Communications Offline Mediation Controller Cartridge Kit – IPDR Collection supports the collection of Internet Protocol Detail Record (IPDR) v1.0 and v2.0 formatted files.
	Controller Cartridge Kit – IPDR Collection	The Oracle Communications Offline Mediation Controller Cartridge Kit – IPDR Collection leverages the functionality provided in Oracle Communications Offline Mediation Controller to extend the data modeling of mediation results, as described in the Developer Guide.
		Prerequisites:
		Requires either a full use license of Oracle Communications Offline Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management.
	Oracle Communications Offline Mediation	The Oracle Communications Offline Mediation Controller Cartridge Kit – JDBC Database Distribution is used to route DMS-MSC data (GCDRs and GHOT records) into the Oracle database.
	Controller Cartridge Kit – JDBC Database Distribution	The Oracle Communications Offline Mediation Controller Cartridge Kit – JDBC Database Distribution is part of the optional Database Storage and Reporting solution. See the setup guide for the procedures necessary to configure this solution.
		The Oracle Communications Offline Mediation Controller Cartridge Kit – JDBC Database Distribution leverages the functionality provided in Oracle Communications Offline Mediation Controller to extend the data modeling of mediation results, as described in the Developer Guide.
		Prerequisites:
		Requires full use license of Oracle Communications Offline Mediation Controller and Oracle Database Standard Edition. (Full use license – this requirement is not met through OMC licenses bundled with other products.)
	Oracle Communications Offline Mediation Controller Cartridge Kit – Network Acct Record Collection	The Oracle Communications Offline Mediation Controller Cartridge Kit – Network Acct Record Collection supports the collection of NARs generated by Offline Mediation Controller.
-		The Oracle Communications Offline Mediation Controller Cartridge Kit – Network Acct Record Collection leverages the functionality provided in Oracle Communications Offline Mediation Controller to extend the data modeling of mediation results, as described in the Developer Guide.
		Prerequisites:
		Requires either a full use license of Oracle Communications Offline Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management.

Product	Subproduct	Licensing Description
	Oracle Communications Offline Mediation Controller Cartridge Kit – Network Acct Record Distribution	The Oracle Communications Offline Mediation Controller Cartridge Kit – Network Acct Record Distribution supports the distribution of NARs generated by Offline Mediation Controller.
		The Oracle Communications Offline Mediation Controller Cartridge Kit – Network Acct Record Distribution leverages the functionality provided in Oracle Communications Offline Mediation Controller to extend the data modeling of mediation results, as described in the Developer Guide.
		Prerequisites:
		Requires either a full use license of Oracle Communications Offline Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management.
	Oracle Communications Offline Mediation Controller Cartridge Kit	The Oracle Communications Offline Mediation Controller Cartridge Kit – Programmable Aggregation Processor enables the formation of a single record from multiple records and provides pre-defined operations such as summation, maximum attribute value calculation, appending lists, string concatenation, etc.
	ProgrammableAggregation Processor	The Oracle Communications Offline Mediation Controller Cartridge Kit – Programmable Aggregation Processor leverages the functionality provided in Oracle Communications Offline Mediation Controller to extend the data modeling of mediation results, as described in the Developer Guide.
		Prerequisites:
		Requires either a full use license of Oracle Communications Offline Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management.
	Oracle Communications Offline Mediation Controller Cartridge Kit – Real-Time ASCII File Collection	The Oracle Communications Offline Mediation Controller Cartridge Kit – Real-Time ASCII File Collection supports the collection of Real-time ASCII files containing a record definition header, a record delimiter with a linefeed value, and a field delimiter with a comma value.
		The Oracle Communications Offline Mediation Controller Cartridge Kit – Real-Time ASCII File Collection leverages the functionality provided in Oracle Communications Offline Mediation Controller to extend the data modeling of mediation results, as described in the Developer Guide.
		Prerequisites:
		Requires either a full use license of Oracle Communications Offline Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management.
	Oracle Communications Offline Mediation	The Oracle Communications Offline Mediation Controller Cartridge Kit Record Enhancement LDAP EP enhances incoming NARs with data from a LDAP file.
	Controller Cartridge Kit - Record Enhancement LDAP EP	The Oracle Communications Offline Mediation Controller Cartridge Kit – Record Enhancement LDAP EP leverages the functionality provided in Oracle Communications Offline Mediation Controller to extend the data modeling of mediation results, as described in the Developer Guide.
		Prerequisites:

Product	Subproduct	Licensing Description
		 Requires either a full use license of Oracle Communications Offline Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management. Directory Services Plus OR Identity and Access Management Suite Plus for Oracle Applications
	Oracle Communications Offline Mediation Controller Cartridge Kit – Record Enhancement Local File EP	The Oracle Communications Offline Mediation Controller Cartridge Kit – Record Enhancement Local File EP enhances incoming NARs with data from a local file. The Oracle Communications Offline Mediation Controller Cartridge Kit – Record Enhancement Local File EP leverages the functionality provided in Oracle Communications Offline Mediation Controller to extend the data modeling of mediation results, as described in the Developer Guide.
		Prerequisites:
		Requires either a full use license of Oracle Communications Offline Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management.
	Oracle Communications Offline Mediation Controller Cartridge Kit – Record Enhancement Remote File EP	The Oracle Communications Offline Mediation Controller Cartridge Kit Record Enhancement Remote File EP enhances the incoming NARs with data from an external file.
		The Oracle Communications Offline Mediation Controller Cartridge Kit – Record Enhancement Remote File EP leverages the functionality provided in Oracle Communications Offline Mediation Controller to extend the data modeling of mediation results, as described in the Developer Guide.
		Prerequisites:
		Requires either a full use license of Oracle Communications Offline Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management.
	Oracle Communications Offline Mediation Controller Cartridge Kit – Record Processing EP	The Oracle Communications Offline Mediation Controller Cartridge Kit — Record Processing EP enhances incoming NARs with the user- defined rules set in the NPL file.
		The Oracle Communications Offline Mediation Controller Cartridge Kit — Record Processing EP leverages the functionality provided in Oracle Communications Offline Mediation Controller to extend the data modeling of mediation results, as described in the Developer Guide.
		Prerequisites:
		Requires either a full use license of Oracle Communications Offline Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management.
	Oracle Communications	The Oracle Communications Offline Mediation Controller Cartridge Kit – Sequencing EP allows for the detection, alarming, and logging of duplicate records. The EP also sequences records belonging to a

Product	Subproduct	Licensing Description
	Offline Mediation Controller Cartridge Kit – Sequencing EP	single session. The Oracle Communications Offline Mediation Controller Cartridge Kit – Sequencing EP leverages the functionality provided in Oracle Communications Offline Mediation Controller to extend the data modeling of mediation results, as described in the Developer Guide. Prerequisites: Requires either a full use license of Oracle Communications Offline Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management.
	Oracle Communications Offline Mediation Controller Cartridge Kit – XML Distribution	The Oracle Communications Offline Mediation Controller Cartridge Kit – XML Distribution distributes files in Extensible Markup Language (XML) format. The Oracle Communications Offline Mediation Controller Cartridge Kit – XML Distribution leverages the functionality provided in Oracle Communications Offline Mediation Controller to extend the data modeling of mediation results, as described in the Developer Guide. Prerequisites: Requires full use license of Oracle Communications Offline Mediation Controller (Full use license – this requirement is not met through Offline Mediation Controller licenses bundled with other products).
Oracle Communications Offline Mediation Controller Utilities	Oracle Communications Offline Mediation Controller Utility – Record Editor	The Oracle Communications Offline Mediation Controller – Record Editor allows customer to edit Network Accounting Records (NARs) and submit them to the node chain to be processed and distributed to downstream applications. Prerequisites: Requires either a full use license of Oracle Communications Offline Mediation Controller or a restricted use license of Oracle Communications Offline Mediation Controller. Restricted use license of Oracle Communications Offline Mediation Controller comes with the license of Oracle Communications Advanced Billing and Revenue Management.

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Commercial software products or components distributed in Oracle Communications Offline Mediation Controller are identified in the following table along with the applicable licensing information.

Provider	Component(s)	Functionality	Licensing Information
3SP Ltd.	J2SSH Maverick version 1.6.5	Application server	See http://www.sshtools.co.uk/en/j2ssh-maverick/#licensing .
Adventnet	SNMP API version 4.0 Service Pack 7	SNMP	See http://www.adventnet.com/products/snmp/license.html .
OSS Nokalva	OSS ASN.1 tools for Java version 6.0	Builds	See http://www.oss.com/company/copyright.html.

Open Source Software

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Provider	Component(s)	Functionality	Licensing Information
Apache Software Foundation	Commons-Net version 3.3 Xerces version 2.11.0 Xalan version 2.7.21 axis.jar, commons-discvoery.jar, jaxrpc.jar, log4j-1.2.8.jar, log4j-properties, packaged inside j2ssh	FTP-HTTP XML parser Application server Logging XML developer kit Builds	Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 . For a copy of the license, see ApacheLicense , Version 2.0.

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