

**Oracle® Communications  
Network Charging and Control**

Licensing Information User Manual

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|--------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Oracle Communications Online Charging Controller | Oracle Communications Online Charging Controller – All Products      | <p>For any deployment of Oracle Communications Online Charging Controller, the customer first has to purchase one of the following core options:</p> <ul style="list-style-type: none"> <li>• Oracle Communications Online Charging Controller for Mobile Services</li> <li>• Oracle Communications Online Charging Controller for Internet of Things</li> </ul> <p>Both of the core options have the same pre-requisites. Each core option is restricted to particular services.</p> <p><b>Prerequisites:</b></p> <ul style="list-style-type: none"> <li>• Oracle Communications Control Plan Editor</li> <li>• Oracle Database Enterprise Edition, Oracle Database Standard Edition, Standard Edition One or Standard Edition 2 for the Service Logic Controllers and Voucher and Wallet Servers.</li> <li>• Oracle Database Enterprise Edition for the Service Management System</li> <li>• Oracle Database EE Option: Partitioning for the Service Management System</li> <li>• Oracle Database EE Option: Real Application Clusters One Node if a Highly Available (HA) deployment of the Service Management System is required</li> <li>• Oracle Database EE Option: Real Application Clusters if RAC clustering is required for the Service Management System</li> </ul> |
|                                                  | Oracle Communications Online Charging Controller for Mobile Services | <p>Oracle Communications Online Charging Controller for use for voice, messaging and data services, including online rating and charging, prepaid balance management and providing value-added services.</p> <p>Includes Text based self-care, allowing subscribers to submit self-care requests via SMS, USSD, SIP, or any other text based self-care channel.</p> <p>Use of Oracle Communications Network Connectivity Agents to control Voice based sessions, using protocols such as CAP, INAP, SIP, ISUP, IS-41 and IS-826</p> <p>Use of Oracle Communications Network Connectivity Agents to control Text Message based sessions, using protocols such as MAP, CAP, SIP, IS-41, SMPP, UCP, and SMTP.</p> <p>Use of Oracle Communications Network Connectivity Agents to control Data sessions, using protocols such as DIAMETER, RADIUS, and CAP</p> <p>Allows use of Oracle Communications Network Connectivity Agents for SOAP based interactions, with Oracle Communications Network Charging and Control acting as either a client or a server.</p> <p><b>Prerequisites:</b></p> <p>See Oracle Communications Online Charging Controller – All Products.</p>                                                                                                          |
|                                                  | Oracle Communications Online Charging                                | <p>Oracle Communications Online Charging Controller for use for messaging and data services for connected devices. Includes online rating and charging, balance management and value-added services.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

| Product | Subproduct                                                    | Licensing Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | Controller for Internet of Things                             | <p>Includes Text based device management, allowing devices to submit requests via SMS, USSD, SIP, or any other text based channel.</p> <p>Allows use of Oracle Communications Network Connectivity Agents to control Text Message based sessions, using protocols such as MAP, CAP, SIP, IS-41, SMPP, UCP, and SMTP.</p> <p>Includes use of Oracle Communications Network Connectivity Agents to control Data sessions, using protocols such as DIAMETER, RADIUS, and CAP</p> <p>Allows use of Oracle Communications Network Connectivity Agents for SOAP based interactions, with Oracle Communications Network Charging and Control acting as either a client or a server.</p> <p><b>Restrictions:</b></p> <p>Excludes use of Oracle Communications Online Charging Controller for control or charging of any voice services via any Network Connectivity Agent.</p> <p><b>Prerequisites:</b></p> <p>See Oracle Communications Online Charging Controller – All Products.</p> |
|         | Option: Oracle Communications Recharge and Voucher Management | <p>Management and redemption of vouchers, including definition and use of voucher types for voucher-less recharging.</p> <p><b>Prerequisites:</b></p> <p>One of the following core options must be purchased in order to license Oracle Communications Recharge and Voucher Management:</p> <ul style="list-style-type: none"> <li>• Oracle Communications Online Charging Controller for Mobile Services</li> <li>• Oracle Communications Online Charging Controller for Internet of Things</li> </ul> <p>If Automatic Voucher Deletion functionality is to be used on the Service Management Server the following Database option is required:</p> <ul style="list-style-type: none"> <li>• Oracle Database EE Option: Partitioning</li> </ul> <p>Also see Oracle Communications Online Charging Controller – All Products for core option requirements.</p>                                                                                                                  |
|         | Option: Oracle Communications Promotion Management            | <p>Definition and management of Promotions for subscribers provisioned on the Oracle Communications Network Charging and Control deployment. Includes event and tracker promotions with liability controls, subscriber base segmentation and targeting, black and white lists, and promotion notifications</p> <p><b>Prerequisites:</b></p> <p>One of the following core options must be purchased in order to license Oracle Communications Promotion Manager</p> <ul style="list-style-type: none"> <li>• Oracle Communications Online Charging Controller for Mobile Services</li> <li>• Oracle Communications Online Charging Controller for Internet of Things</li> </ul> <p>Also see Oracle Communications Online Charging Controller – All Products for core option requirements.</p>                                                                                                                                                                                    |
|         | Option: Oracle Communications                                 | <p>Includes Text based device management, allowing devices to submit requests via SMS, USSD, SIP, or any other text based channel.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

| Product                                       | Subproduct                                                   | Licensing Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                               | Subscriber Self-Care                                         | <p><b>Prerequisites and Inclusions:</b></p> <p>Also see Oracle Communications Online Charging Controller – All Products.</p> <p><b>Note:</b></p> <p>This functionality is included with Oracle Communications Online Charging Controller core options and does not need to be licensed separately when that product is licensed.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Oracle Communications Messaging Manager       | Oracle Communications Messaging Manager – All Products       | <p>IN-based messaging applications (e.g., prepaid messaging, First Delivery Attempt SMS, anti-spam).</p> <p>For any deployment of Oracle Communications Messaging Manager, the customer first has to purchase one of the following core options:</p> <ul style="list-style-type: none"> <li>• Oracle Communications Messaging Manager</li> <li>• Oracle Communications Express Delivery Routing</li> </ul> <p>All the core options have the same inclusions and pre-requisites.</p> <p><b>Prerequisites:</b></p> <ul style="list-style-type: none"> <li>• Oracle Database Standard Edition, Standard Edition One or Standard Edition 2 for each Service Logic Controller deployed.</li> <li>• Oracle Database Enterprise Edition for the Service Management System</li> <li>• Oracle Database EE Option: Partitioning for the Service Management System</li> <li>• Oracle Database EE Option: Real Application Clusters if RAC clustering is required for the Service Management System</li> </ul> <p>Additionally, the following licenses must also be purchased:</p> <ul style="list-style-type: none"> <li>• Oracle Communications Control Plan Editor</li> <li>• Oracle Communications Messaging Control Agents</li> </ul> |
|                                               | Oracle Communications Messaging Manager                      | <p>Originating, Terminating and ASP messaging, Home Routing, Protocol Conversion, Anti-Fraud, Personal Message exchange,</p> <p><b>Prerequisites:</b></p> <p>See Oracle Communications Messaging Manager – All Products</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                               | Oracle Communications Express Delivery Routing               | <p>Delivery of SMS notifications to the subscriber's mobile device via the MSC, and allowing fall back to a SMSC for store and retry if the message cannot be delivered.</p> <p><b>Prerequisites:</b></p> <p>See Oracle Communications Messaging Manager – All Products.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Oracle Communications Number Services Manager | Oracle Communications Number Services Manager – All Products | <p>IN-based number routing applications (e.g., Number Portability, Least Cost Routing, VPN).</p> <p>For any deployment of Oracle Communications Number Services Manager, the customer first has to purchase one of the following core options:</p> <ul style="list-style-type: none"> <li>• Oracle Communications Advanced Control Services Gateway</li> <li>• Oracle Communications Number Portability for Charging</li> </ul> <p>All the core options have the same inclusions and pre-requisites. Each is restricted to particular services.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

| Product                                    | Subproduct                                                      | Licensing Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                            |                                                                 | <p><b>Prerequisites:</b></p> <ul style="list-style-type: none"> <li>• Oracle Database Standard Edition, Standard Edition One or Standard Edition 2 for each Service Logic Controller deployed.</li> <li>• Oracle Database Enterprise Edition for the Service Management System</li> <li>• Oracle Database EE Option: Partitioning for the Service Management System</li> <li>• Oracle Database EE Option: Real Application Clusters if RAC clustering is required for the Service Management System</li> </ul> <p>Additionally, the following licenses must also be purchased:</p> <ul style="list-style-type: none"> <li>• Oracle Communications Control Plan Editor</li> <li>• Oracle Communications Voice Control Agents if Voice based services are to be offered</li> <li>• Oracle Communications Messaging Control Agents if Message based services are to be offered.</li> </ul> |
|                                            | Oracle Communications Advanced Control Services Gateway         | <p>Terminating and originating number routing services, such as Freephone, Premium Line, Least Cost Routing and Virtual Private Network services.</p> <p><b>Prerequisites:</b></p> <p>See Oracle Communications Number Services Manager – All Products</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                            | Oracle Communications Number Portability for Charging           | <p>Number Portability services for fixed and mobile devices, including ENUM database and lookup.</p> <p><b>Prerequisites:</b></p> <p>See Oracle Communications Number Services Manager – All Products</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Oracle Communications Control Plan Editor  | Oracle Communications Control Plan Editor                       | <p>Graphical configuration of Session and Event service logic for all Oracle Communications Network Charging and Control based services.</p> <p><b>Prerequisites:</b></p> <p>One of the following core options must be purchased in order to license Oracle Communications Control Plan Editor:</p> <ul style="list-style-type: none"> <li>• Oracle Communications Online Charging Controller for Mobile Services</li> <li>• Oracle Communications Online Charging Controller for Internet of Things</li> <li>• Oracle Communications Messaging Manager</li> <li>• Oracle Communications Express Delivery Routing</li> <li>• Oracle Communications Advanced Control Services Gateway</li> <li>• Oracle Communications Number Portability for Charging</li> </ul>                                                                                                                        |
| Oracle Communications Network Connectivity | Oracle Communications Network Connectivity Agents – All Options | <p><b>Prerequisites:</b></p> <p>These agents can be purchased with any of the products of the following two applications:</p> <p><b>Oracle Communications Messaging Manager</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| Product | Subproduct                                     | Licensing Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Agents  |                                                | <ul style="list-style-type: none"> <li>• Oracle Communications Messaging Manager</li> <li>• Oracle Communications Express Delivery Routing</li> </ul> <b>Oracle Communications Number Services Manager</b> <ul style="list-style-type: none"> <li>• Oracle Communications Advanced Control Services Gateway</li> <li>• Oracle Communications Number Portability for Charging</li> </ul> <b>Note:</b><br>Oracle Communications Network Connectivity Agent licenses are included with the Oracle Communications Online Charging Controller core options as defined in the description of each core option. Oracle Communications Online Charging Controller for Internet of Things does not include Oracle Communications Voice Control Agents. |
|         | Oracle Communications Voice Control Agents     | Use of Oracle Communications Network Connectivity Agents to control Voice based sessions, using protocols such as CAP, INAP, SIP, ISUP, IS-41 and IS-826<br><br><b>Prerequisites:</b><br>See Oracle Communications Network Connectivity Agents – All Options                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|         | Oracle Communications Messaging Control Agents | Use of Oracle Communications Network Connectivity Agents to control Message based sessions, using protocols such as MAP, CAP, SIP, IS-41, SMPP, UCP, and SMTP.<br><br><b>Prerequisites:</b><br>See Oracle Communications Network Connectivity Agents – All Option                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|         | Oracle Communications Data Control Agents      | Use of Oracle Communications Network Connectivity Agents to control Data sessions, using protocols such as DIAMETER, RADIUS, and CAP<br><br><b>Prerequisites:</b><br>See Oracle Communications Network Connectivity Agents – All Options                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|         | Oracle Communications Open Service Development | Use of Oracle Communications Network Connectivity Agents for SOAP based interactions, with Oracle Communications Network Charging and Control acting as either a client or a server.<br><br><b>Prerequisites:</b><br>See Oracle Communications Network Connectivity Agents – All Options                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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Required notices for open source or other separately licensed software products or components distributed in Oracle Communications Network Charging and Control are identified in the following table along with the applicable licensing information. Additional notices and/or licenses may be found in the included documentation or readme files of the individual third party software.

| Provider                       | Component(s)               | Functionality                      | Licensing Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| Provider                              | Component(s)      | Functionality          | Licensing Information                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------|-------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                       |                   | libraries              | <a href="#">for Unicode License</a> .                                                                                                                                                                                                                                                                                                                                            |
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Apache License

Version 2.0, January 2004

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