

# **Oracle® Communications Unified Inventory Management**

Licensing Information User Manual

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## Introduction

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## Licensing Information

Product	Subproduct	Licensing Description
Oracle Communications Unified Inventory Management – Core Platform	All	<p>Each Oracle Communications Unified Inventory Management – Resource Management module or Oracle Communications Unified Inventory Management – Service Management module includes the ability and rights to use the core Oracle Communications Unified Inventory Management platform functionality. This includes the tracking of parties, business interactions, engineering work orders, lifecycles and non-geographic locations, via the browser-based GUI and the APIs.</p> <p><b>Included Products:</b></p> <p>Oracle WebLogic Server Enterprise Edition license for exclusive use with Oracle Communications Unified Inventory Management.</p> <p>Oracle Coherence Enterprise Edition license for exclusive use with Oracle Communications Unified Inventory Management.</p> <p><b>Prerequisites:</b></p> <ul style="list-style-type: none"> <li>• Oracle Database Enterprise Edition</li> <li>• Oracle Communications Design Studio</li> </ul> <p>The allowable usage of the platform is governed by the licensed modules based upon the type and quantity of managed objects. At least one Resource Management or Service Management application must be licensed to deploy the core platform for Oracle Communications Unified Inventory Management. These applications of Oracle Communications Unified Inventory Management are listed in this table.</p>
Oracle Communications Unified Inventory Management – Resource Management	Oracle Communications Geographic Address Management	<p>Oracle Communications Geographic Address Management models specific addresses relating to locations where service is delivered or where network equipment may reside. These may include Street Address, lot addresses or other nomenclature. This application leverages the Oracle Communications Unified Inventory Management core functionality as outlined above.</p> <p><b>Included Products:</b></p> <p>A license of Oracle Communications Geographic Address Management includes a restricted-use license to Oracle WebLogic Server Enterprise Edition.</p> <p><b>Prerequisites:</b></p> <ul style="list-style-type: none"> <li>• Oracle Database Enterprise Edition</li> <li>• Oracle Communications Design Studio</li> </ul> <p><b>Restrictions:</b></p> <p>Oracle Communications Geographic Address Management customers are licensed for the purpose of managing geographic addresses only. Any use outside of geographic address management requires the purchase of a different Oracle Communications Unified Inventory Management license.</p> <p>A license to Oracle Communications Geographic Address Management includes a license to WebLogic Server Enterprise Edition (WLS EE). WLS EE is restricted solely to run the Oracle Communications Geographic Address Management graphical user interface applications and web services as provided by Oracle utilizing exclusively the following WLS EE components: Application Development Framework, WebLogic Management Framework, the HTTP Server subcomponents of Web Tier, and the Application Development Framework subcomponent of TopLink.</p>
	Oracle Communications Device Management	<p>Oracle Communications Device Management enables the management of physical inventory. It also enables the management of customer, access or network devices, as seen from a logical perspective.</p>

Product	Subproduct	Licensing Description
		<p>Switches, routers, servers, shelves, chassis, cable modems, set top boxes, PCs, access points, and other such objects may all be modeled and tracked as Physical Devices, Hardware (Equipment), and/or Logical Devices.</p> <p>This module allows such items to be modeled as complex objects and enables functions and concepts such as assignment/consumption, activation, capacity management, equipment hierarchy, equipment compatibility, equipment assemblies, and topology.</p> <p>Device Management functionality includes:</p> <ul style="list-style-type: none"> <li>• Representing devices in textual, tree and graphical view, including the use of custom graphic images</li> <li>• Browsing and searching for devices and related and associated objects</li> <li>• Drag and drop moving of objects</li> <li>• Tracking characteristics and detail about devices</li> <li>• Management and consumption of devices, interfaces, ports, connectors and capacity</li> </ul> <p><b>Included Products:</b></p> <p>A License of Oracle Communications Device Management includes a restricted-use license to Oracle WebLogic Server Enterprise Edition.</p> <p><b>Prerequisites:</b></p> <ul style="list-style-type: none"> <li>• Oracle Database Enterprise Edition</li> <li>• Oracle Communications Design Studio</li> </ul> <p><b>Restrictions:</b></p> <p>Oracle Communications Device Management customers are licensed for the purpose of managing devices only. Any use outside of device management requires the purchase of a different Oracle Communications Unified Inventory Management license.</p> <p>This application leverages the Oracle Communications Unified Inventory Management core functionality as outlined above.</p> <p>A license to Oracle Communications Device Management includes a license to WebLogic Server Enterprise Edition (WLS EE). WLS EE is restricted solely to run the Oracle Communications Device Management graphical user interface applications and web services as provided by Oracle utilizing exclusively the following WLS EE components: Application Development Framework, WebLogic Management Framework, the HTTP Server subcomponents of Web Tier, and the Application Development Framework subcomponent of TopLink.</p>
	Oracle Communications Connectivity Management	<p>Oracle Communications Connectivity Management allows the management of physical links between devices, such as copper pairs, optical fibers, coaxial cables or radio links, and of logical links such as circuits, trails, facilities, channels and cross-connects.</p> <p>Connectivity Management also addresses:</p> <ul style="list-style-type: none"> <li>• Modeling of connectors and various types of connection</li> <li>• Tracking custom characteristics and detail about connections</li> <li>• Application of connection rules</li> <li>• Support for assignable capacity</li> <li>• Maintaining hierarchal relationships through enablement's (assignments)</li> </ul>

Product	Subproduct	Licensing Description
		<ul style="list-style-type: none"> <li>Path Analysis for Pipes to perform complex and effective analysis of the potential routes between two locations or devices based on required capacity. Results are presented based on least number of hops.</li> <li>Grooming, rehomeing, and insert &amp; delete node functionality for channelized connectivity</li> </ul> <p><b>Included Products:</b></p> <p>A license of Oracle Communications Connectivity Management includes a restricted-use license to Oracle WebLogic Server Enterprise Edition.</p> <p><b>Prerequisites:</b></p> <ul style="list-style-type: none"> <li>Oracle Database Enterprise Edition</li> <li>Oracle Communications Design Studio</li> </ul> <p>For Connectivity Management to function in a meaningful way, data on connection end points (Devices) must be populated using the following module:</p> <ul style="list-style-type: none"> <li>Oracle Communications Device Management</li> </ul> <p>To use UIM channelized connectivity entities to model TDM technologies (SDH, SONET, &amp; T/E/J-Carrier), Network Locations on the connectivity end points require property location addresses using the following module:</p> <ul style="list-style-type: none"> <li>Oracle Communications Geographic Address Management</li> </ul> <p><b>Restrictions:</b></p> <p>Oracle Communications Connectivity Management customers are licensed for the purpose of managing connections only. Any use outside of connection management requires the purchase of a different Oracle Communications Unified Inventory Management license.</p> <p>This application leverages the Oracle Communications Unified Inventory Management core functionality as outlined above.</p> <p>A license to Oracle Communications Connectivity Management includes a license to WebLogic Server Enterprise Edition (WLS EE). WLS EE is restricted solely to run the Oracle Communications Connectivity Management graphical user interface applications and web services as provided by Oracle utilizing exclusively the following WLS EE components: Application Development Framework, WebLogic Management Framework, the HTTP Server subcomponents of Web Tier, and the Application Development Framework subcomponent of TopLink.</p>



Product	Subproduct	Licensing Description
	Oracle Communications Telephone Number Management	<p>Telephone Numbers can be defined, created and managed and rules can be created to apply number classification, such as for lucky or vanity numbers.</p> <ul style="list-style-type: none"> <li>• Number transition through life cycles</li> <li>• Assignment to services, subscribers/resellers/MVNOs (Parties), devices</li> <li>• Number masks and patterns</li> </ul> <p><b>Included Products:</b></p> <p>A license of Oracle Communications Telephone Number Management includes a restricted-use license to Oracle WebLogic Server Enterprise Edition.</p> <p><b>Prerequisites:</b></p> <ul style="list-style-type: none"> <li>• Oracle Database Enterprise Edition</li> <li>• Oracle Communications Design Studio</li> </ul> <p><b>Restrictions:</b></p> <p>Oracle Communications Telephone Number Management customers are licensed for the purpose of managing telephone numbers only. Any use outside of telephone number management requires the purchase of a different Oracle Communications Unified Inventory Management license.</p> <p>This application leverages the Oracle Communications Unified Inventory Management core functionality as outlined above.</p> <p>A license to Oracle Communications Telephone Number Management includes a license to WebLogic Server Enterprise Edition (WLS EE). WLS EE is restricted solely to run the Oracle Communications Telephone Number Management graphical user interface applications and web services as provided by Oracle utilizing exclusively the following WLS EE components: Application Development Framework, WebLogic Management Framework, the HTTP Server subcomponents of Web Tier, and the Application Development Framework subcomponent of TopLink.</p>
	Oracle Communications Logical Device Account Management	<p>Account types, such as email, IMS, voicemail, VoIP, etc. can be documented and managed against logical devices representing servers or other devices.</p> <ul style="list-style-type: none"> <li>• Capacity of the device can be monitored and managed</li> <li>• Associated to subscribers (Parties)</li> <li>• Created/removed in bulk</li> </ul> <p><b>Included Products:</b></p> <p>A license of Oracle Communications Logical Device Account Management includes a restricted-use license to Oracle WebLogic Server Enterprise Edition.</p> <p><b>Prerequisites:</b></p> <ul style="list-style-type: none"> <li>• Oracle Database Enterprise Edition</li> <li>• Oracle Communications Design Studio</li> </ul> <p>For account management to function in a meaningful way the following areas must exist and be populated:</p> <ul style="list-style-type: none"> <li>• Oracle Communications Device Management</li> </ul> <p><b>Restrictions:</b></p> <p>Oracle Communications Logical Device Account Management customers are licensed for the purpose of managing logical account devices only. Any use outside of logical device account management requires the purchase of a different Oracle Communications Unified Inventory Management license.</p>

Product	Subproduct	Licensing Description
		<p>This application leverages the Oracle Communications Unified Inventory Management core functionality as outlined above.</p> <p>A license to Oracle Communications Logical Device Account Management includes a license to WebLogic Server Enterprise Edition (WLS EE). WLS EE is restricted solely to run the Oracle Communications Logical Device Account Management graphical user interface applications and web services as provided by Oracle utilizing exclusively the following WLS EE components: Application Development Framework, WebLogic Management Framework, the HTTP Server subcomponents of Web Tier, and the Application Development Framework subcomponent of TopLink.</p>
	Oracle Communications Universal Resource Management	<p>Oracle Communications Universal Resource Management provides for the generic management of resources that need to be tracked but not with the richness of structure or function provided by Oracle Communications Device Management.</p> <p><b>Included Products:</b></p> <p>A license of Oracle Communications Universal Resource Management includes a restricted-use license to Oracle WebLogic Server Enterprise Edition.</p> <p><b>Prerequisites:</b></p> <ul style="list-style-type: none"> <li>• Oracle Database Enterprise Edition</li> <li>• Oracle Communications Design Studio</li> </ul> <p><b>Restrictions:</b></p> <p>Oracle Communications Universal Resource Management customers are licensed for the purpose of managing any type of resource only. Any use outside of resource management requires the purchase of a different Oracle Communications Unified Inventory Management license.</p> <p>This application leverages the Oracle Communications Unified Inventory Management core functionality as outlined above.</p> <p>A license to Oracle Communications Universal Resource Management includes a license to WebLogic Server Enterprise Edition (WLS EE). WLS EE is restricted solely to run the Oracle Communications Universal Resource Management graphical user interface applications and web services as provided by Oracle utilizing exclusively the following WLS EE components: Application Development Framework, WebLogic Management Framework, the HTTP Server subcomponents of Web Tier, and the Application Development Framework subcomponent of TopLink.</p>
	Oracle Communications IP Address Management	<p>Oracle Communications IP Address Management provides management of IPv4 and IPv6 addresses, including creating IP network addresses, partitioning &amp; joining subnets, creating host IP addresses, reserving &amp; assigning IP addresses.</p> <p><b>Included Products:</b></p> <p>A license of Oracle Communications IP Address Management includes a restricted-use license to Oracle WebLogic Server Enterprise Edition.</p> <p><b>Prerequisites:</b></p> <ul style="list-style-type: none"> <li>• Oracle Database Enterprise Edition</li> <li>• Oracle Communications Design Studio</li> </ul> <p><b>Restrictions:</b></p> <p>Oracle Communications IP Address Management customers are licensed for the purpose of managing IP addresses only. Any use outside of IP address management requires the purchase of a different Oracle Communications Unified Inventory Management license.</p> <p>This application leverages the Oracle Communications Unified Inventory Management core functionality as outlined above.</p>

Product	Subproduct	Licensing Description
		<p>Restricted use: A license to Oracle Communications IP Address Management includes a license to WebLogic Server Enterprise Edition (WLS EE). WLS EE is restricted solely to run and manage the Oracle Communications IP Address Management application (including access via graphical user interface application and web services) as provided by Oracle utilizing exclusively the following WLS EE components: Core WebLogic application server, Oracle TopLink &amp; Application Development Framework (includes MapViewer), Oracle JDeveloper, Oracle Security Developer Tools, Java SE, the WebLogic Management Framework &amp; HTTP Server subcomponents of Web Tier, Oracle Enterprise Manager Fusion Middleware Control and Clustering support.</p>
	Oracle Communications Media Stream Management	<p>Oracle Communications Media Stream Management enables the modeling and management of media streams. Media Stream specifications are used to model content such as audio and video media delivered over cable, satellite, radio, or streaming IP; characteristics can be used to supplement the default data elements. Behaviors can be associated with media streams by using rulesets and extension points.</p> <p><b>Included Products:</b></p> <p>A license of Oracle Communications Media Stream Management includes a restricted-use license to Oracle WebLogic Server Enterprise Edition.</p> <p><b>Prerequisites:</b></p> <ul style="list-style-type: none"> <li>• Oracle Database Enterprise Edition</li> <li>• Oracle Communications Design Studio</li> </ul> <p><b>Restrictions:</b></p> <p>Oracle Communications Media Stream Management customers are licensed for the purpose of managing media streams only. Any use outside of media stream management requires the purchase of a different Oracle Communications Unified Inventory Management license.</p> <p>This application leverages the Oracle Communications Unified Inventory Management core functionality as outlined above.</p> <p>Restricted use: A license to Oracle Communications Media Stream Management includes a license to WebLogic Server Enterprise Edition (WLS EE). WLS EE is restricted solely to run and manage the Oracle Communications Media Stream Management application (including access via graphical user interface application and web services) as provided by Oracle utilizing exclusively the following WLS EE components: Core WebLogic application server, Oracle TopLink &amp; Application Development Framework (includes MapViewer), Oracle JDeveloper, Oracle Security Developer Tools, Java SE, the WebLogic Management Framework &amp; HTTP Server subcomponents of Web Tier, Oracle Enterprise Manager Fusion Middleware Control and Clustering support.</p>
	Oracle Communications Network Service Orchestration	<p>Oracle Communications Network Service Orchestration enables the lifecycle management of Network Services and Virtual Network Functions (VNFs) running on a virtualized network infrastructure. It includes the ability to allocate resources to those Network Services and VNFs.</p> <p><b>Included Products:</b></p> <p>A license of Oracle Communications Network Service Orchestration includes a restricted-use license to Oracle WebLogic Server Enterprise Edition.</p> <p><b>Prerequisites:</b></p> <p>Oracle Database Enterprise Edition</p> <p>Oracle Communications Design Studio</p> <p><b>Restrictions:</b></p>

Product	Subproduct	Licensing Description
		<p>Oracle Communications Network Service Orchestration customers are licensed for the purpose of lifecycle management of Network Services and Network Functions running on a virtualized network infrastructure only. Any use outside of this requires the purchase of a different Oracle Communications Unified Inventory Management license.</p> <p>This application leverages the Oracle Communications Unified Inventory Management core functionality as outlined above.</p> <p>A license to Oracle Communications Network Service Orchestration includes a license to WebLogic Server Enterprise Edition (WLS EE). WLS EE is restricted solely to run the Oracle Communications Network Service Orchestration graphical user interface applications and web services as provided by Oracle utilizing exclusively the following WLS EE components: Application Development Framework, WebLogic Management Framework, the HTTP Server subcomponents of Web Tier, and the Application Development Framework subcomponent of TopLink.</p>
Oracle Communications Unified Inventory Management – Service Management	Oracle Communications Service Configuration Management for Mobile	<p>Oracle Communications Service Configuration Management for Mobile enables the management of simple or complex services provided any mobile wireless network such as GSM/UMTS, LTE, CDMA, PHS, or mobile WiMAX.</p> <p>This module provides the ability to define and manage service configurations, including the structure and relationships of one service to another, the relationship between services and products, and the allocation of resources to services.</p> <p><b>Included Products:</b></p> <p>A license of Oracle Communications Service Configuration Management for Mobile includes a restricted-use license to Oracle WebLogic Server Enterprise Edition.</p> <p><b>Prerequisites:</b></p> <ul style="list-style-type: none"> <li>• Oracle Database Enterprise Edition</li> <li>• Oracle Communications Design Studio</li> </ul> <p><b>Restrictions:</b></p> <p>Oracle Communications Service Configuration Management for Mobile customers are licensed for the purpose of managing service configuration data for mobile services only. Any use outside of mobile service configuration management such as fixed wireless service for broadband requires the purchase of a different Oracle Communications Unified Inventory Management license.</p> <p>This application leverages the Oracle Communications Unified Inventory Management core functionality as outlined above.</p> <p>A license to Oracle Communications Service Configuration Management for Mobile includes a license to WebLogic Server Enterprise Edition (WLS EE). WLS EE is restricted solely to run the Oracle Communications Service Configuration Management for Mobile graphical user interface applications and web services as provided by Oracle utilizing exclusively the following WLS EE components: Application Development Framework, WebLogic Management Framework, the HTTP Server subcomponents of Web Tier, and the Application Development Framework subcomponent of TopLink.</p>
	Oracle Communications Service Configuration Management for Wireline	<p>Oracle Communications Service Configuration Management for Wireline enables the management of fixed-location or nomadic services provided via any wired or fixed wireless network.</p> <p>This module provides the ability to define and manage service configurations, including the structure and relationships of one service to another, the relationship between services and products, and the allocation of resources to services</p> <p><b>Included Products:</b></p>

Product	Subproduct	Licensing Description
		<p>A license of Oracle Communications Service Configuration Management for Wireline includes a restricted-use license to Oracle WebLogic Server Enterprise Edition.</p> <p><b>Prerequisites:</b></p> <ul style="list-style-type: none"> <li>• Oracle Database Enterprise Edition</li> <li>• Oracle Communications Design Studio</li> </ul> <p><b>Restrictions:</b></p> <p>Oracle Communications Service Configuration Management for Wireline customers are licensed for the purpose of managing service configuration data for wireline services only. Any use outside of wireline service configuration management requires the purchase of a different Oracle Communications Unified Inventory Management license.</p> <p>This application leverages the Oracle Communications Unified Inventory Management core functionality as outlined above.</p> <p>A license to Oracle Communications Service Configuration Management for Wireline includes a license to WebLogic Server Enterprise Edition (WLS EE). WLS EE is restricted solely to run the Oracle Communications Service Configuration Management for Wireline graphical user interface applications and web services as provided by Oracle utilizing exclusively the following WLS EE components: Application Development Framework, WebLogic Management Framework, the HTTP Server subcomponents of Web Tier, and the Application Development Framework subcomponent of TopLink.</p>
Oracle Communications Unified Inventory Management Deployment Options	Oracle Communications Unified Inventory Management Deployment Options	<p>Oracle Communications Unified Inventory Management Cloud Native Option enables new and existing customers to deploy Oracle Communications Unified Inventory Management in a containerized cloud native environment on public or private cloud infrastructure, leveraging cloud native technologies such as Docker, Kubernetes, Helm, etc.</p> <p><b>Prerequisites:</b> Oracle Communications Unified Inventory Management – Core Platform</p> <p><b>Restrictions:</b> This module is only available with Oracle Communications Unified Inventory Management 7.5.0 or above.</p>
Oracle Communications Unified Inventory Management – Topology Deployment Options	Oracle Communications Unified Topology for Inventory and Automation	<p>Oracle Communications Unified Topology for Inventory and Automation provides a mechanism to visualize a comprehensive graphical perspective of physical, logical, virtual or customer inventory. Topology graphs consist of nodes that are interconnected by edges. There can be few or many nodes that represent network inventory instances and their attributes.</p> <p>This module allows topology graphs of various degrees of complexity to be represented and manipulated graphically, using configurable icons.</p> <ul style="list-style-type: none"> <li>• Nodes can represent known or unknown objects (locations, devices, etc.)</li> <li>• Edges indicate specific connectivity or reachability between nodes</li> <li>• Layout tools allow nodes to be arranged on the canvas</li> <li>• Networks can be multi-layered on the canvas</li> <li>• Nodes can also be displayed geographically on a map</li> <li>• Nodes and edges can be filtered using search and zoom features</li> <li>• Relationships between networks may be represented, and layered networks may be navigated using sub-networks</li> </ul> <p>This module allows a live feed of fault and performance data from network assurance systems to be overlaid on the topology graph.</p> <p><b>Included Products:</b></p>

Product	Subproduct	Licensing Description
		<p>A license of Oracle Communications Unified Topology for Inventory and Automation includes a restricted-use license to Oracle Java Standard Edition.</p> <p><b>Prerequisites:</b></p> <ul style="list-style-type: none"> <li>Oracle Database Enterprise Edition (this includes the Property Graph feature of Oracle Database and Oracle Graph Server (PGX))</li> </ul> <p>For Unified Topology for Inventory and Automation to function in a meaningful way there is not a requirement for additional modules, but its use is usually contemporaneous with:</p> <ul style="list-style-type: none"> <li>Oracle Communications Device Management</li> <li>Oracle Communications Connectivity Management</li> <li>Oracle Communications Geographic Address Management</li> </ul> <p><b>Restrictions:</b></p> <p>Oracle Communications Unified Topology for Inventory and Automation customers are licensed for the purpose of designing, modeling and visualizing topology graphs only. Any use outside of topology graph design, modeling and visualization requires the purchase of a different Oracle Communications Unified Inventory Management license.</p> <p>This application leverages the Oracle Communications Unified Inventory Management core functionality as outlined above.</p> <p>Oracle Access Manager Enterprise Edition is included for use with Oracle Communications Unified Inventory Management as a common authentication platform across UIM components as well as to integrate to an Identity Provider. Use of Oracle Access Manager Enterprise Edition is solely restricted to use with Oracle Communications Unified Inventory Management and may not be used or deployed for other purpose</p>
	Oracle Communications Unified Topology for Inventory and Automation Large Devices (CORE/Transport/EDGE)	<p><b>Oracle Communications Large Devices (CORE/Transport/EDGE) Are Defined As:</b></p> <p>A core network is a telecommunication network's core part, which offers numerous services to the customers who are interconnected by the access network. Its key function is to direct telephone calls over the public-switched telephone network.</p> <p>In general, this term signifies the highly functional communication facilities that interconnect primary nodes. The core network delivers routes to exchange information among various sub-networks. When it comes to enterprise networks that serve a single organization, the term backbone is often used instead of core network, whereas when used with service providers the term core network is prominent.</p> <p>This term is also known as network core or backbone network.</p> <p>An edge device is any piece of hardware that controls data flow at the boundary between two networks. Edge devices fulfill a variety of roles, depending on what type of device they are, but they essentially serve as network entry -- or exit -- points. Some common functions of edge devices are the transmission, routing, processing, monitoring, filtering, translation and storage of data passing between networks. Edge devices are used by enterprises and service providers.</p> <p>One of the most common types of edge devices is an edge router. Usually deployed to connect a campus network to the internet or a WAN, edge routers chiefly function as gateways between networks. A similar type of edge device, known as a routing switch, can also be used for this purpose, although routing switches typically offer less-comprehensive features than full-fledged routers.</p> <p>Firewalls can also be classified as edge devices, as they sit on the periphery of one network and filter data moving between internal and external networks.</p>

Product	Subproduct	Licensing Description
		<p>Transport layer Devices irrespective of layer 1/2/3</p> <p><b>Prerequisites:</b></p> <p>Oracle Communications Unified Topology for Inventory and Automation</p>
	Oracle Communications Unified Topology for Inventory and Automation Small Devices (CPE/RAN/NID)	<p><b>Oracle Communications Large Devices (CPE/RAN/NID) Are Defined As:</b></p> <p>In telecommunications, a customer-premises equipment or customer-provided equipment (CPE) is any terminal and associated equipment located at a subscriber's premises and connected with a carrier's telecommunication circuit at the demarcation point ("demarc"). The demarc is a point established in a building or complex to separate customer equipment from the equipment located in either the distribution infrastructure or central office of the communications service provider.</p> <p>CPE generally refers to devices such as telephones, routers, network switches, residential gateways (RG), set-top boxes, fixed mobile convergence products, home networking adapters and Internet access gateways that enable consumers to access providers' communication services and distribute them in a residence or enterprise with a local area network (LAN).</p> <p>A radio access network (RAN) is a major component of a wireless telecommunications system that connects individual devices to other parts of a network through a radio link. The RAN links user equipment, such as a cellphone, computer or any remotely controlled machine, over a fiber or wireless backhaul connection. That link goes to the core network, which manages subscriber information, location and more.</p> <p>The RAN, which is sometimes also called the access network, is the radio element of the cellular network. A cellular network is made up of land areas called cells. A cell is served by at least one radio transceiver, although the standard is typically three for cell sites.</p> <p>A RAN is made up of three essential elements:</p> <ol style="list-style-type: none"> <li>1. Antennas convert electrical signals into radio waves.</li> <li>2. Radios transform digital information into signals that can be sent wirelessly and ensure that transmissions are in the correct frequency bands with the right power levels.</li> <li>3. Baseband units (BBUs) provide a set of signal processing functions that make wireless communication possible. Traditional baseband uses custom electronics combined with multiple lines of code to enable wireless communication, typically using the licensed radio spectrum. BBU processing detects errors, secures the wireless signal and ensures that wireless resources are used effectively.</li> </ol> <p>In telecommunications, a network interface device (NID; also known by several other names) is a device that serves as the demarcation point between the carrier's local loop and the customer's premises wiring. Outdoor telephone NIDs also provide the subscriber with access to the station wiring and serve as a convenient test point for verification of loop integrity and of the subscribers inside wiring</p> <p><b>Prerequisites:</b></p> <p>Oracle Communications Unified Topology for Inventory and Automation.</p>
	Oracle Communications Unified Topology for Inventory and Automation IOT Devices	<p>IOT (Internet of Things) Devices are defined as simple input Devices operated by humans, or remotely managed or fully automated Devices collecting information or responding to commands issues from centralized control points. IOT Devices include but are not limited to smart mobiles, smart fire alarms, smart door locks, smart bicycles, medical sensors, fitness trackers, and smart security systems</p> <p><b>Prerequisites:</b></p> <p>Oracle Communications Unified Topology for Inventory and Automation</p>

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Product	Subproduct	Licensing Description
	(Endpoint Devices)	



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		and trees as JSON. Basic data binding (mapping) functionality that allows for reading JSON content into Java Objects (POJOs) and JSON Trees (JsonNode), as well as writing Java Objects and trees as JSON	
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