EXECUTIVE OVERVIEW

The communications industry and the internet are in the midst of a revolutionary transformation. Propelled by the unparalleled power, flexibility, and cost efficiency of Internet Protocol (IP) technologies and standards, communications service providers are racing to deploy new and innovative consumer and business services. Oracle Communications Presence is a comprehensive presence and XML Document Management (XDM) server that allows service providers to rapidly offer innovative new services by aggregating, managing, and exposing presence information from multiple networks and endpoints for enhanced multimedia services.

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ENABLING REAL-TIME COMMUNICATION AND COLLABORATION OF WEB AND TELECOM SERVICES

FEATURES

• Carrier-grade, SIMPLE, and OMA-based platform for presence, XDM, and presence Web services
• Integrated Oracle Database technologies for high performance, high availability, and scalability
• Highly-available and reliable deployment architecture with geographical redundancy and clustering
• Oracle Communicator PC softphone client for presence, instant messaging, and voice and video calling

BENEFITS

• Rapidly develop and deploy real-time, revenue-enhancing services using presence.
• Lower total cost of ownership through use of a standards-based, cost-effective infrastructure.
• Maximize services development using presence information via Web services.
**Product Overview**

Oracle Communications Presence is a comprehensive Java Platform, Enterprise Edition/SIMPLE/OMA–based presence and XDM server that allows communications service providers to offer innovative new services by aggregating, managing, and exposing information such as presence, availability, and group lists to other Web and telecom applications from diverse and disparate networks and devices.

Oracle Communications Presence compiles presence information based on a request-and-response data collection process with actions such as publication, notification, and subscription. In conjunction with the various processes, there are a number of clearly defined roles:

- **Presence user agent (PUA).** The PUA is a device or endpoint that provides presence information. Instant messaging applications or mobile devices are common examples of PUAs.

- **Presence network agent (PNA).** The PNA is a system that acts on behalf of a user to provide presence information for the user. A network registration database and a location server that publishes presence information are examples of PNAs.

- **Presentity.** A user entity that provides presence information to the presence server is defined as the presentity. It can be composed of multiple PUAs.

- **Watcher.** The watcher requests presence or watcher information from the presence server. Two types of watchers include the fetcher and subscriber.

The combination of availability data from multiple sources, standards-based processes, and well-defined roles provide the ability to create highly interactive applications that combine Web and telecommunications capabilities.
Oracle Communications Presence delivers a powerful set of enabling features that empower service providers to create and deliver uniquely innovative and differentiating services in both Web and NGN environments. It consists of a presence server, XDM server, presence Web services, and Oracle Communicator.

**Presence Server**

The presence server component of Oracle Communications Presence is based on the IETF SIMPLE and OMA Presence SIMPLE v1.0 standards, and manages the collection and controlled dissemination of the presence information over the network. Based on a carrier-grade, highly scalable, and high-performance architecture, the presence server aggregates PNA and PUA information to capture state changes of any device or client on the network and supports various presence-enabled activities, including publishing, privacy filtering, watcher filtering, and notifications. It also supports industry standard presence event packages and event notification frameworks.

**XDM Server**

Oracle Communications Presence includes a robust XDM server component that supports XML Configuration Access Protocol and is OMA XDM v1.0 compliant. It supports the presence server by providing storage for end-user configuration documents, which control the presence function for individual users. The XDM server is integrated with Oracle Database for high performance, high reliability, availability, and scalability, and can be deployed on common, off-the-shelf hardware.

The key capabilities delivered by the XDM server include presence XDM and shared XDM; it is extensible to support any XCAP application usage.
Presence Web Services
To facilitate the development of presence-enabled Web and IMS applications, Oracle Communications Presence provides developers with a Web services interface based on the Parlay X 2.1 Web services standard. Both presence and instant messaging are supported through the APIs.

Oracle Communicator
Oracle Communications Presence includes Oracle Communicator—a Windows-based softphone client supporting widely adopted standards, including SIP and SIMPLE. Oracle Communicator features include voice and video call management, peer-to-peer instant messaging, inbound and outbound Public Switched Telephone Network (or PSTN) calls, voice messaging record/send, and rebrandable and customizable interfaces.

Oracle Communicator includes leading audio (Internet Low Bit Rate Codec, G.711, G729, Adaptive Multi-Rate) and video (H.261, H.263) coding and decoding technologies—providing adjustable rate, error correction, and video quality enhancements.

Figure 3: Oracle Communicator user interface
Efficient contact management requires coordinating both corporate and individual information. Oracle Communicator provides support for Lightweight Directory Access Protocol–server compatibility for corporate directory lookup, XDM server integration for presence policy management and configuration, personalized ringtones, call history lists, and contact list management.

Comprehensive Industry Standards Support and Leadership
Oracle is committed to supporting a comprehensive set of internet, Java, and telecom industry standards. It is driving the Java community standard for converged Java EE–SIP application servers and SIMPLE for presence. The industry standards and platforms supported by Oracle Communications Presence are listed below.
Oracle Communications Service Delivery

Oracle Communications Service Delivery is a product family composed of applications and software-based delivery platform products for communications service providers to increase revenue via out-of-the-box applications and decrease time to market associated with deploying third-party services and implementing traditional network control capabilities onto a lower cost, standards-based IT software platform.

Contact Us

For more information about Oracle Communications Presence, please visit oracle.com or call +1.800.ORACLE1 to speak to an Oracle representative.