Oracle Communications Converged Application Server is the industry’s most widely used, fastest and most powerful converged Java EE-SIP-IMS application server, delivering a carrier-grade, open, standards-based development and deployment platform for next-generation communications applications. As the telecom application server component of Oracle’s industry leading Service Delivery Platform (SDP) product family, it is proven to dramatically lower the cost and time of developing and deploying carrier-grade, converged Web-telecom applications for mobile, broadband, fixed and all-IP next-generation networks based on IP Multimedia Subsystem (IMS) and 4G networks such as Long Term Evolution (LTE), and Worldwide Interoperability for Microwave Access (WiMAX).

Migration to Unified Converged Application Platforms
With the explosive proliferation of IP-enabled mobile and fixed devices capable of offering Web, telecom and entertainment services, such as 3G/4G-enabled smartphones, TVs, home appliances, gaming consoles, and automobiles, among others, operators of mobile, broadband and fixed networks are faced with the operational and business challenges of delivering innovative IP-based communication services with maximum profitability. In order to achieve this goal, customers are increasingly migrating away from expensive, closed, proprietary and application-specific legacy platforms, and towards low-cost, open, standards-based unified converged application platforms, which dramatically lowers the time and cost of adding new features and extensions to existing IP-based communication services. With this approach, customers are able to develop and deploy applications on a single, unified platform, and re-use those applications across multiple networks, whether it’s the Web-domain, mobile, broadband or fixed networks.

Maximizing Profitability with Converged Services
Most legacy IP Centrex and VoIP applications, as well as some IMS applications, are built on proprietary, telecom-specific platforms which lack natively integrated Web/SOA capabilities. As a result, many customers are challenged with long lead times, and the associated high costs, of developing and deploying carrier-grade converged Web-Telecom applications. By providing an open, standards-based converged application platform with natively integrated SIP/IMS with Web/SAO capabilities, Oracle Communications Converged Application Server has helped customers worldwide reduce the cost and time of developing and deploying carrier-grade, converged applications by over 70%. This has enabled customers to maximize profitability from existing services, as well as realize new revenue from innovative converged Web-Telecom applications.
Carrier-Grade, Open, Standards-based Converged Application Platform

Oracle Communications Converged Application Server is a carrier-grade, open, standards-based converged Web-telecom application platform based on the SIP Servlet, Java EE, Web Services, and IMS standards, and is the telecom application server component of Oracle’s industry-leading SDP product family. It is designed for a wide-range of IP-based, communication-enabled applications, such as VoIP, multimedia conferencing, SIP/IMS-based call control and messaging services.

Converged Web-Telecom Application Container

At the core of Oracle Communications Converged Application Server is the industry’s most advanced SIP Servlet container, natively integrated with the industry’s most powerful Java EE containers for HTTP Servlet, EJB and SOA Web Services. This integrated container architecture allows developers to very rapidly, and cost-effectively develop and deploy innovative, converged Web-telecom applications, without having to incur additional time and cost overhead. Customers can easily integrate Web and enterprise applications with SIP/IMS-based communication and collaboration capabilities such as VoIP, presence, location, multimedia conferencing, and click-to-dial, among many others.

Accelerate Multimedia Converged Application Development

Converged Web-Telecom applications involve the delivery or sharing of one or more types of media, whether it is voice/audio, video, images or other types of data, which requires converged applications to interact with media servers. Oracle Communications Converged Application Server simplifies the development of rich-media converged applications by supporting the Media Server Control API (JSR 309) natively in the SIP Servlet container. It reduces the time and complexity required of developers to integrate with 3rd party media servers, resulting in reduced costs and faster time-to-market for innovative multimedia converged applications.
Unmatched High Availability and Reliability

Oracle Communications Converged Application Server helps customers to minimize the risk of service outages and performance degradations by providing the industry’s only converged application platform to support geographically redundant deployment configurations, with support for asynchronous session management. Customers can deploy converged IP-based applications into their networks with unmatched high availability, and reliability, by having the application session state automatically distributed across multiple regional data centers in real time. This eliminates the risk of service outages from single points of failure, which can be caused by unforeseen natural disasters or equipment failures.

Extreme Performance and Predictable Latency

Converged applications deployed in telecom networks require real-time session set-up and application data access with minimal latency, because these factors have a direct impact on the quality of the end-user’s experience. High performance and low latency are key attributes of communications applications developed and deployed on Oracle Communications Converged Application Server. It takes full advantage of the real-time Java Virtual Machine (JVM) in Oracle JRockit Real Time, and optimization of the converged application container for extremely high throughput.

Comprehensive Standards and Platforms Support

Oracle Communications Converged Application Server supports a comprehensive set of Web and telecom industry standards and platforms.

- Internet/Web Standards: SIP Servlet (JSR 289), Java EE 5, Java SE 6, Web Services, SIP, Diameter, Media Server Control (JSR 309)
- Telecom Standards: 3GPP IMS (Release 7)
- Operating Systems: Solaris (SPARC), HP-UX (Itanium), Linux (Red Hat, Oracle)
- Java Virtual Machines: Oracle JRockit, Oracle Java Hotspot VM, HP JVM

Contact Us

For more information about Oracle Communications Converged Application Server and other Oracle Communications Service Delivery products, please visit oracle.com or call +1.800.ORACLE1 to speak to an Oracle representative.