Oracle Communications Mobile Synchronization Server provides synchronization services for business users, acting as a gateway synchronizing their Oracle Communications Unified Communications Suite accounts with their mobile phone. The gateway supports synchronization of contacts, calendar events and tasks between SyncML enabled mobile phones and the back-end server.

Mobile devices and communication

With the proliferation of connected devices, organizations' communication needs are changing as are the ways people interact with each other. Mobile devices have become the device of choice for users to communicate. While use of Smartphones such as those based on Android and Apple iOS are on the rise, there is still a growing need to provide communication services on features phones, given price sensitivity and user preferences.

Oracle Communications Mobile Synchronization Server Overview

Oracle Communications Mobile Synchronization Server is a complete implementation of OMA DS and enables users to keep their calendar and contact data in sync on a wide variety of mobile devices including Windows Mobile, Palm OS, and Pocket PC devices.

OMA DS focuses on mobile data synchronization and provides a standard protocol for synchronizing Personal Information Manager (PIM) content, such as email, calendar, contacts, tasks, and notes between mobile devices and a server. OMA DS defines the protocol for synchronization, and uses standard data types (MIME types) such as vCard and iCalendar for data exchange. The use of standard data types enables vendor-independent synchronization.

All major device manufacturers are supporters of the OMA, and hundreds of devices on the market are shipping with built-in support for OMA DS.

Oracle Communications Mobile Synchronization Server provides a complete implementation of the OMA DS protocols, including full OMA DS 1.1.2 and 1.2 compatibility, and incorporates support for calendar, contacts and tasks data types.

Scalable, Reliable, Highly Available

The architecture of the Oracle Communications Mobile Synchronization Server gateway is based entirely on open industry standards and is designed to operate a highly scalable, fault-tolerant environment tightly integrated with the existing infrastructure. The gateway includes support for automatic failover and load-balancing, providing near-linear scalability. This architecture has been proven in carrier-grade deployments.

Secure

Oracle Communications Mobile Synchronization Server supports MD5 for encrypted authentication and all traffic flowing through the public Internet is encrypted with SSL (HTTPS), ensuring user data is at no time exposed to prying eyes. For security reasons, the
gateway does not duplicate the user's data to a local database, but only meta data required during the synchronization process.

**Client Support**

While a large percentage of mobile devices are shipping with built-in clients, not all manufacturers have committed to SyncML support. Oracle offers a complete and homogenized end-to-end solution by providing support for the most important device platforms that are not shipping with a built-in SyncML Client: Palm OS and Microsoft Windows Mobile.

Palm OS - Oracle offers a SyncML client for the Palm OS based PDAs and Smartphones, enabling synchronization of contacts, calendar and tasks through the Oracle Communications Mobile Synchronization Server.


**Client Provisioning**

Oracle Communications Mobile Synchronization Server gateway provides a mechanism for configuring the native SyncML client on a target device. If the supported device requires the Oracle Communications Mobile Synchronization Server Client, the appropriate software is also installed over-the-air.

This process ensures that the device configures correctly, reducing manual configuration errors and the related support overhead. The result is a fast and convenient experience for the device user.

**Integration with Oracle Communications Unified Communications Suite**

Oracle Communications Mobile Synchronization Server gateway uses LDAP to authenticate users according to their credentials with Oracle Communications Unified Communications Suite. Calendar items and tasks are synchronized by way of the WCAP adapter, and synchronization of contacts is performed through LDAP. Enhanced security is provided by the usage of the Web Calendar Access Protocol Secure (WCAPS) and Lightweight Directory Access Protocol Secure (LDAPS) protocols.

Oracle Communications Mobile Synchronization is a scalable solution that enables users to synchronize calendar, task, and contact data from Oracle Communications Unified Communications Suite servers to virtually any SyncML-capable client and device.

**Platforms and Requirements**

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<th>Operating Systems and Platforms</th>
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<tr>
<td>- Oracle Solaris 10</td>
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<td>- Red Hat Enterprise Linux 4 (32- and 64-bit version)</td>
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<td>- Oracle Communications Calendar Server 6.3</td>
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<table>
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<tr>
<th>Supported Phones</th>
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<td>- Please see complete list in Release Notes</td>
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Contact Us
For more information about Oracle Communications Mobile Synchronization Server, visit oracle.com or call +1.800.ORACLE1 to speak to an Oracle representative.

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