New Features

SAP Mobile Platform 2.3 SP04

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New Platform Features

This release introduces SAP® Mobile Platform, which incorporates both the Sybase® Unwired Platform and Syclo Agentry development environments. SAP Mobile Platform version 2.3 SP04 includes new features that support development and management of the system.

Several product names have also changed in this release. See *Rebranding* on page 3.

Note: See *Supported Hardware and Software* for the list of devices, operating systems, APIs, and tools that SAP Mobile Platform currently supports.

Object API Development

New or changed features for Object API development.

Background Synchronization
In 2.3 SP04, iOS RBS applications can take advantage of the Apple background refresh feature to synchronize to the SAP Mobile Server in the background, and keep the client database up to date with any server-side data changes that might occur while the user is not using the application.

Documented in: *Developer Guide: <Device Platform> Object API Applications* (iOS):

• *Background Refresh*
• *Performing Background Synchronization*

Index APIs
In 2.3 SP04, you can dynamically create, find, and drop an index for an MBO table on the device database, which increases performance compared to modifying the data model in SAP Mobile WorkSpace to perform these tasks.

Documented in: *Developer Guide: <Device Platform> Object API Applications* (Android, iOS, BlackBerry, and Windows):

• *Index APIs*

iOS Object API Application Support for iOS7 Devices
iOS OAPI applications built with SAP Mobile SDK version 2.3 SP04 work on iOS7 devices. The *Tutorial: iOS Object API Application Development* and Recipe Sample application have been updated accordingly.

iOS Object API Application Support for 64-bit Architectures
iOS OAPI applications built with SAP Mobile SDK version 2.3 SP04 supports 64-bit architectures. The *Tutorial: iOS Object API Application Development* has been updated accordingly.

Android Object API Supports Importing a certificate from a System Store
In 2.3 SP04, you can import a certificate binary large object (BLOB), which is a digitally signed copy of the public X.509 certificate, from either a file or from X509Certificate/ PrivateKey retrieved from system credential storage using the Android KeyChain API .

Documented in: *Developer Guide: <Device Platform> Object API Applications* (Android):

- *Importing a Certificate into the Data Vault*

Mobile Business Objects

New or changed features for MBO development.

Web Service Connection Profile Enhancement
In 2.3 SP04, define the operations to be included as part of the Web service connection profile, by selecting only required operations, structures, and lists. Simple types are always selected and cannot be unselected.

Documented in:*SAP Mobile WorkSpace - Mobile Business Object Development*:

- *Creating a Web Service Connection Profile*

Administration

New or changed features for administration.

Relay Server Installation and Configuration Instructions for Apache on Linux Hosts
In 2.3 SP04, there are new installation and configuration instructions for Relay Server on Apache HTTP Server RedHat Enterprise and SUSE Enterprise.

Documented in: *Installing a Relay Server* in *Landscape Design and Integration*.

Application Customization Resource Bundles
In 2.3 SP04, a customization resource bundle can be either a JAR or ZIP file.

Documented in: *Application Customization Resource Bundles* in *SAP Control Center for SAP Mobile Platform*.

Load Balancer Configuration
In 2.3 SP04, the SAP Mobile Server Administrator can configure a farm of relay servers, including values for the load balancer that is in front of the Relay Server farm, in SAP Control Center.

Documented in: *Setting Relay Server General Properties* in *SAP Control Center for SAP Mobile Platform*.

Cipher Management
In 2.3 SP04, the SAP Mobile Server Administrator can enable or disable individual ciphers supported in the security characteristic/security profile.

Documented in:

*   *Managing Ciphers for SSL Encryption* in *SAP Control Center for SAP Mobile Platform*
*   *Set Enabled Ciphers* in *Developer Guide: SAP Mobile Server Runtime*

Security Profile Security Characteristic Support Changes
In 2.3 SP04, security profiles no longer support strong, strong_mutual, domestic, or domestic_mutual security characteristics. Instead use "default" or "default_mutual".

Documented in:

*   *Creating an SSL Security Profile in SAP Control Center* in *SAP Control Center for SAP Mobile Platform*
*   *Enabling and Configuring Administration Encryption for SAP Mobile Server* in *Security*

Enforcing OData Application Registration
In 2.3 SP04, the SAP Mobile Server Administrator can require OData applications to register with the SAP Mobile Server cluster.

Documented in: *Enforcing OData Application Registration* in *SAP Control Center for SAP Mobile Platform*.

Rebranding

Sybase Unwired Platform and the Syclo Agentry development platform have been integrated, and the product rebranded to SAP Mobile Platform. Changes have been made to the user interface, and product documentation.

See the key for new product names introduced in version SAP Mobile Platform 2.3.

Table 1. Product Name Change Key

Original Name	Rebranded Name	Comments
Sybase	SAP	In some cases, Sybase continues to appear as a file, directory, or API name.
Sybase Unwired Platform Unwired Platform	SAP Mobile Platform	In some cases, Sybase Unwired Platform continues to appear in file, directory, or API.
Unwired Server	SAP Mobile Server	In some cases, Unwired Server continues to appear in a lower-level directory.
Sybase Unwired WorkSpace Unwired WorkSpace	SAP Mobile WorkSpace	
Sybase Control Center	SAP Control Center	
Sybase Hosted Relay Service	SAP Hosted Relay Service	
Sybase Hosted Relay Server	SAP Hosted Relay Server	
Sybase Mobile SDK	SAP Mobile SDK	
Sybase Unwired Platform Run-time	SAP Mobile Platform Runtime	

Documentation Changes

In Fundamentals, see Documentation Roadmap to learn more about product documentation for developers and administrators.

Note: Check the Product Documentation Web site regularly for updates: *http://sybooks.sybase.com/sybooks/sybooks.xhtml?id=1289&c=firsttab&a=0&p=categories*, then navigate to the most current version.

Documentation Change Reference
Reference for changes made throughout the documentation, sometimes over the span of several releases:

• **Installation Path Variable** – the shorter installation path variable continues to be implemented:

- *SMP_HOME* – represents the SAP Mobile SDK installation directory.
  - The default installation directory is: `C:\SAP\MobilePlatform.`
  - In earlier versions, this was represented as: *SUP_HOME* or `<UnwiredPlatform_InstallDir>\UnwiredPlatform\.`
- *SCC_HOME* – represents the SAP Mobile Platform Runtime installation directory.
  - The default installation directory is: `C:\SAP\SCC-`*XX.*
  - In earlier versions, this was represented as: `<UnwiredPlatform_InstallDir>\SCC-XX\.`
- **Hybrid App and Hybrid Web Container Name Changes –** several name changes have been made to SAP Mobile Platform to reflect the change from a workflow emphasis, to Hybrid Apps and Hybrid Web Container. These name changes can be seen in the Designer user interface, and the product documentation. See the key for new product names introduced in version SAP Mobile Platform 2.2.

Table 2. Hybrid App and Hybrid Web Container Name Change Key

Original Name	New Name	Comments
Workflow Workflow application	Hybrid App	
Mobile Workflow package Workflow package	Hybrid App package	
Mobile Workflow Designer Mobile Workflow Forms Editor	Hybrid App Designer, or Designer	
Mobile Workflow form	Hybrid App form	
Mobile Workflow Forms Editor Design palette	Hybrid App Designer palette	
Close Workflow	Close	Menuitem type
Submit Workflow	Submit	Menuitem type
Mobile Workflow Container	Hybrid Web Container	
Sybase Messaging Client	Hybrid Web Container	

Documentation Changes

SAP Mobile Platform