



New Features

Sybase Unwired Platform 2.0

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New Features

Sybase® Unwired Platform covers the end-to-end aspects of mobilizing an application—providing standards-based access to data sources, offering consistent and reusable object-oriented frameworks across heterogenous device platforms, supporting end-to-end security, and managing deployment, devices, users, and applications. Sybase Unwired Platform includes several important new features described here.

Installation and Upgrade

You can upgrade from an existing Sybase® Unwired Platform version 1.5.5 installation to version 2.0.

Note: If you have upgraded a developer installation from Unwired Platform version 1.2 in steps to version 1.5.5, be sure that you have manually migrated your Unwired WorkSpace projects before you upgrade to version 2.0. See *Sybase Unwired Platform Installation Guide*, "Migrating Unwired WorkSpace Projects from Version 1.2" topic.

Documented in:

- *Sybase Unwired Platform Installation Guide* – search for:
 - *Upgrading to Sybase Unwired Platform 2.0*
 - *Migrating Sybase Unwired Platform Artifacts*
 - *Migrating Unwired WorkSpace Projects from Version 1.2*

In-place Upgrade

Upgrade to Unwired Platform version 2.0 by running the installer where version 1.5.5 is installed, overwriting that installation.

It is no longer necessary to uninstall the previous version of Unwired Platform before upgrading, or to install the upgrade version in a different location. After performing a full system backup of the host where version 1.5.5 is installed, simply run the installer for version 2.0 on that system.

Documented in:

- *Sybase Unwired Platform Installation Guide* – search for:
 - *Upgrading to Sybase Unwired Platform 2.0*

Silent Installation and Uninstallation

If you know the exact settings you want to specify during installation or uninstallation, you can automate the process.

The Unwired Platform installer and uninstaller can now be run silently from a .bat file, which reads your settings from a text file.

Documented in:

- *Sybase Unwired Platform Installation Guide* – search for:
 - *Scripting Silent Installation or Uninstallation*

Afaria

Afaria is now separately licensed. Afaria is no longer part of the Unwired Platform installation. However, you can still purchase Afaria with a separate license and use it as part of your extended mobility environment to deploy device applications and enhance device security.

Device Application Designer

Device Application Designer is no longer part of the Unwired Platform installation. For native device application development, see the Developer Guides.

Documented in:

- *Developer Guide for iOS*
- *Developer Guide for BlackBerry*
- *Developer Guide for Windows and Windows Mobile*

Mobile Workflow

The Mobile Workflow application is now based on a Hybrid Web container architecture. This enables new functionality as described below.

- Designer-based user interface that is customizable using HTML, JavaScript and CSS Web technologies.
 - The ability to customize user interface using CSS.
 - Access to exit points for coding platform-neutral Business logic in JavaScript.
 - Cross platform support provides consistency across most mobile platforms, including Apple iOS, Blackberry, and Windows Mobile.
 - jQuery Mobile framework support, providing the sophisticated jQuery look and feel by default.
 - Compatibility with third-party user interfaces and charting libraries.

- Attachment support (view and download).
- Single Sign-on support, which includes X.509 certificate support and token support for SAP®.
- On device cache, which allows the results of an Online Request to be cached for a specified amount of time. This cache is secured and persisted so if you shut down the Workflow container and start it back up again, the cache is maintained. If a subsequent Online Request is executed that contains the exact same inputs (and you are within the specified time interval), the cached results are returned instead of making another request to the server.

Documented in:

- ***Developer Guide for Mobile Workflow Packages*** – search for:
 - *Hybrid Web Container Overview*
 - *Mobile Workflow Package Customization*
 - *Installing Credentials and Testing on Simulators and Devices*
- ***Sybase Control Center online help*** – search for:
 - *Selecting a Security Configuration for a Package*
 - *Deploying a Mobile Workflow Package*

Supported Platforms

Mobile Workflow applications are now supported on the BlackBerry platform.

For the latest information on supported platforms for Mobile Workflow, see the *Sybase Unwired Platform Installation Guide*, the Mobile Devices topic.

Single Sign-On for SAP

Single sign-on (SSO) allows both certificate (X.509) and SSO logon ticket (SSO2) authentication for mobile applications that contain mobile business objects (MBOs) bound to an SAP® system.

Both replication- and message-based mobile clients can use SSO with:

- **SAP data source support** –
 - SAP Java Connector (JCo) connections
 - SAP function modules exposed as Web services
- **Single sign-on credential support** –
 - X.509 certificates – at runtime, the mobile client selects the certificate signed by a trusted CA, which is authenticated by the SAP EIS.
 - SAP single sign-on (SSO2) tokens – at runtime, the client enters a user name/password combination that maps to a user name/password in the SAP EIS. A token is obtained from the configured SAP server using the client supplied user name/password and is

forwarded to other SAP servers configured in the endpoints to authenticate the client, instead of using client supplied user name/password credentials.

- **Client support** –
 - iOS message-based clients, and Windows Mobile, and BlackBerry replication-based clients
 - Mobile Workflow applications

Documented in:

- ***System Administration*** – search for:
 - *Single Sign-on for SAP*
- ***Sybase Unwired WorkSpace online help*** – search for:
 - *Implementing SSO for SAP*

Simplified Relay Server Integration

Instead of having to set up a Relay Server-enabled environment by manually editing multiple configuration files and running batch scripts to update the configuration, you can now use Sybase Control Center to configure and manage necessary Relay Server Outbound Enablers (RSOEs).

Because of the way Relay Servers and RSOEs are now configured, existing configurations must be migrated to use the correct file format. Configuration files are automatically upgraded with the installer; however you can perform the upgrade manually if required.

Note: The installation of Relay Server has not changed: an archive file must be extracted to install required binaries for your platform type. This platform release bundles Relay Server 11.0.1 binaries.

Documented in:

- ***Sybase Unwired Platform Installation Guide*** – search for:
 - *Upgrading and Migrating Relay Server Components*
- **Documented in *System Administration*** – search for:
 - *Relay Server Clusters*
 - *Relay Server Configuration Files*
- ***Sybase Control Center online help*** – search for:
 - *Relay Server*
 - *Relay Server Outbound Enabler*

Changes by Component

Further changes or enhancements have been made to multiple components of this product.

Unwired Server

Beyond the new features described at the start of this document, Unwired Server runtime has undergone further enhancements.

- **Partition by Requester and Device Identity** – partitions mobile business object (MBO) data by a requester's identity (user id plus device id). This option ensures that data loaded into the Unwired Server cache (CDB) using an On demand cache policy is accessible only by that requestor.

Documented in:

- *Unwired Workspace online help* – search for:
 - *Setting the Data Partitioning by User and Device Identity Property*

Sybase Control Center

Beyond the new features described at the start of this document, Sybase Control Center has undergone further enhancements.

- **Mobile Workflow packages now allow X.509 certificate for context variables** – If a Mobile Workflow package uses context variables, administrators can now view the properties for X.509 certificates used. They can also upload a new production-ready certificate to replace the development one used if this is required.

Documented in:

- *Sybase Control Center online help* – search for:
 - *Configuring Context Variables*
- **Mobile Workflow packages are now versioned** – In Sybase Control Center you can now use an update option to upgrade and version packages as the administrator deploys them. The update option keeps previous versions of the package on Unwired Server. This additional option now allows administrators to keep multiple versions of the same Mobile Workflow package available on the server and assigned to different device users as required.

Documented in:

- *Sybase Control Center online help* – search for:
 - *Deploying a Mobile Workflow Package*

Unwired WorkSpace

Beyond the new features described at the start of this document, Unwired WorkSpace has undergone further enhancements.

- **Mobile Business Object Code Generation** –
 - For native application development, message-based synchronization is available only for the iOS platform; other platforms default to the replication- based synchronization transport.
 - Removal of the code generation option for backward compatibility of generated MBO code.
 - Removal of Java SE code generation/client platform support.

Documented in:

- *Sybase Unwired WorkSpace - Mobile Business Object Development* – search for:
 - *Generating Object API Code*

APIs

Describes new or changed features for client, server, and administration APIs.

New APIs

The following are new methods.

Table 1. New APIs in Administration API: SUPCluster class

New method
New methods for retrieving and setting cluster properties: <ul style="list-style-type: none"> • <code>getClusterProperties()</code> • <code>setClusterProperties(ClusterPropertiesVO clusterPropertiesVO)</code>

Table 2. New APIs in Administration API: SUPMobileWorkflow class

New method
New methods for management of mobile workflow packages: <ul style="list-style-type: none"> • The <code>updateMobileWorkflowContextVariables</code> method specifies credentials for mobile workflow packages which do not support certificate-based authentication. • The <code>replaceMobileWorkflowCertificate()</code> method sets or modifies the certificate password context variable for a workflow package.

Table 3. New Properties in Administration API

New properties
A new property for Web service endpoints: <code>certificateAlias</code> .
New properties for DOE-C endpoints: <code>endpoint-security-profile</code> , <code>techuser-certificate-alias</code> , and <code>Doe-extract-window</code> .
New properties for replication synchronization server configuration: <code>sup.sync.e2ee_type</code> , <code>sup.sync.e2ee_private_key</code> , <code>sup.sync.e2ee_private_key_password</code>
New <code>PACKAGE_LOGGING</code> option for the <code>exportPackage</code> method in the SUP Domain interface.

Documented in:

- *Developer Guide for Unwired Server Management API* – search for:
 - *Retrieval and Setting of Cluster Properties*
 - *Update of Context Variables*
 - *Replace Mobile Workflow Certificate*
 - *EIS Data Source Connection Properties Reference*
 - *ReplicationSyncServer*
 - *Package Export*

Table 4. New APIs in Client Object API

New method, class or property	Platform
<p>New classes for Single Sign-On support:</p> <ul style="list-style-type: none"> • The <code>CertificateStore</code> class wraps a platform-specific key/certificate store class, or file directory. • The <code>LoginCertificate</code> class wraps platform-specific X.509 distinguished name and signed certificate. • The <code>ConnectionProfile</code> class includes the certificate attribute used for Unwired Server synchronization. • The <code>DataVault</code> class provides secure persistent storage on the device for certificates. <p>Depending on the client platform, the namespace or class prefix is used to make the class name unique.</p>	Windows, Windows Mobile, BlackBerry, and iOS

- *Developer Guide for iOS* – search for:

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- *Single Sign-On With X.509 Certificate Related Object API*
- *Developer Guide for BlackBerry* – search for:
 - *Single Sign-On With X.509 Certificate Related Object API*
- *Developer Guide for Windows and Windows Mobile* – search for:
 - *Single Sign-On With X.509 Certificate Related Object API*

Table 5. New APIs in Server API

New method, class or property	Platform
Unwired WorkSpace uses a new property, <code>isCompatible</code> to check if the version of the client is compatible with Unwired Server.	Windows, Windows Mobile

- *Troubleshooting* – search for:
 - *Version Mismatch Detection*

Documentation Set Changes

Describes changes to the documentation set.

Installation Guide has been reorganized

The *Installation Guide* has been reorganized and streamlined:

- Separate instructions for Enterprise Edition and Enterprise Developer Edition are no longer necessary.
- A smaller number of installation scenarios now covers the same customer installation requirements.
- Installation prerequisites are integrated into installation steps, to ensure that the prerequisites are not skipped.

System Administration enhancements

The *System Administration* guide has been enhanced:

- New subjects appear at the chapter level to make them more visible and accessible.
- Additional performance tuning content is provided. Information and recommendations are given for the synchronization type used in production environments.
- Deployment planning and component deployment now appear at the start of the guide to help administrators access actionable content more quickly.

Document name changes

Several documents have been renamed to better reflect their contents.

Original Document Title	New Document Title
<i>Sybase Unwired WorkSpace - Device Application Development</i>	<i>Sybase Unwired WorkSpace - Mobile Workflow Package Development</i>
<i>Developer Reference for BlackBerry</i>	<i>Developer Guide for BlackBerry</i>
<i>Developer Reference for iPhone</i>	<i>Developer Guide for iOS</i>
<i>Developer Reference for Windows and Windows Mobile</i>	<i>Developer Guide for Windows and Windows Mobile</i>
<i>Developer Reference for Mobile Workflow Packages</i>	<i>Developer Guide for Mobile Workflow Packages</i>
<i>Reference: Administration APIs</i>	<i>Developer Guide for Unwired Server Management API</i>
<i>Reference: Custom Development for Unwired Server</i>	<i>Developer Guide for Unwired Server</i>

Tutorial name changes

Several tutorials have been renamed.

Original Document Title	New Document Title
<i>Tutorial: iPhone Application Development using Custom Development</i>	<i>Tutorial: iOS Application Development</i>
<i>Tutorial: BlackBerry Application Development using Custom Development</i>	<i>Tutorial: BlackBerry Application Development</i>
<i>Tutorial: Windows Mobile Application Development using Custom Development</i>	<i>Tutorial: Windows Mobile Application Development</i>

White papers and projects moved to a new site

White papers, projects, and other collateral have moved from the Use tab on the Sybase Unwired Platform Web site, to the SAP Developer Network Web site: <http://www.sdn.sap.com/irj/sdn/mobile>. Click on Sybase Unwired Platform, and navigate to one of the information categories.

The SDN provides many resources for the development community. Check the site regularly for new and updated white papers, projects, and other resources.

Samples and tutorials moved to a new site

Samples and tutorials have also moved from the Use tab on the Sybase Unwired Platform Web site, to the SAP Developer Network Web site: <http://www.sdn.sap.com/irj/sdn/mobile>. Click on Sybase Unwired Platform, and navigate to the samples or tutorial category.

Documentation Set Changes

Check the site regularly for new and updated samples and tutorials.

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