



**New Features**

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# **Sybase Unwired Platform 1.5.2**

DOCUMENT ID: DC01203-01-0152-01

LAST REVISED: July 2010

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# Contents

- New Features .....1
  - New Installation Features .....1
  - New Unwired Server Features .....2
  - New Sybase Control Center Features .....3
  - New Unwired WorkSpace Features .....5
  - New Device Application Development Features .....8
  - New API Features .....9
  - New Documentation Features .....11
    - Documentation Road Map for Unwired Platform .....12
- Index .....17



# New Features

Describes new features available for Sybase® Unwired Platform. Sybase Unwired Platform provides an integrated solution for mobilizing your enterprise applications to multiple device platforms using the same infrastructure and development investment.

Unwired Platform covers end-to-end aspects of mobilizing an application—providing standards-based access to data sources, building heterogeneous device applications with reusable object-oriented frameworks, supporting end-to-end security, and managing deployment, devices, users, and applications.

## New Installation Features

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Describes new Sybase Unwired Platform installation, configuration, and setup features.

### ***New Licensing Option***

Sybase Unwired Platform uses SySAM licensing for the Deployment, Personal Developer, and Enterprise Developer editions. From the installer, choose either an unserved license (local file) or a served license provided through a SySAM license server.

You can also choose the Evaluation version, which requires no license, but expires after a period of time.

Documented in:

- *Installation Guide*
- *SySAM Installation Guide*

### ***Install Data Tier on a Separate Host***

You can now use the installer to install the data tier on a different host machine than the rest of Sybase Unwired Platform. You must install the data tier before installing the rest of Sybase Unwired Platform.

Documented in:

- *Installation Guide*

### ***New Platform Support***

Sybase Unwired Platform changed its support for device types, platforms, and operating systems.

Documented in:

- *Installation Guide*

## New Unwired Server Features

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Describes new Unwired Server features, including several platform-level features.

### *Extended clustering options*

You can now use clusters for both Unwired Servers (to support load balancing) and consolidated databases (to support failover) in your highly available (HA) production environments. Together, server and database clusters allow you to scale your system strategically over time.

Documented in:

- *System Administration > Systems Design*

### *Production environment system security enhancements*

- Scaling of security configuration to multiple levels (domains, packages), rather than using a single security implementation for all of Unwired Platform.
- Simplified secure port configuration from Sybase Control Center.
- Introduction of multiple default administration roles, so administration privileges can be assessed dynamically based on role type.

Documented in:

- *System Administration > Security Administration*
- *Sybase Control Center Online Help > Configure > Sybase Control Center for Unwired Platform > Server Configuration*
- *Sybase Control Center Online Help > Configure > Sybase Control Center for Unwired Platform > Security*

### *Expanded connection support*

New connection types have been added:

- DOE-C – Connector for Gateway 1.1 to SAP NetWeaver® Mobile 7.10
- REST – Connector for RESTful services, XML over HTTP(S)

Documented in:

- *Sybase Control Center Online Help > Configure > Sybase Control Center for Unwired Platform > Connections*

### *Message-based synchronization model*

A message-based synchronization model is now available, in addition to the current replication-based synchronization model.

The message-based synchronization model provides background transmission from client to Unwired Server to submit operations, and from Unwired Server to client to push the latest changes on the server.

Characteristics include:

- Asynchronous.
- Always available.
- Changes are sent automatically.
- Supported on Microsoft® Windows®, Windows Mobile®, and Apple® iPhone® device platforms.

Documented in:

- *Fundamentals for Sybase Unwired Platform*
- *Sybase Unwired WorkSpace – Device Application Development*
- *Developer Reference for Mobile Workflow Packages*
- *Sybase Control Center Online Help > Configure > Sybase Control Center for Unwired Platform > Workflows*

### ***Data refresh enhancements***

Data refreshes from the EIS to the Server have been enhanced:

- Addition of cache groups
- Simplified cache refresh policies
- Data change notification interface changes

### ***Synchronization enhancements***

Synchronization, from Unwired Server to device clients, has been enhanced:

- Additional synchronization policies
- Addition of synchronization groups

Documented in:

- *System Administration > Enterprise Mobility*
- *Sybase Unwired WorkSpace – Mobile Business Object Development*

## **New Sybase Control Center Features**

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Describes new Sybase Control Center for Sybase Unwired Platform features.

### ***Redesign of Unwired Platform Administration Console***

Unwired Platform has migrated to a new version of Sybase Control Center, and the interface has been extensively redesigned and enhanced.

- The administration console displays as a perspective once the cluster has been registered and the administrator has authenticated with it.
- The administration navigation structure provides an integrated cluster view, which shows cluster-wide actions in a common hierarchy and makes server-specific operations available on individual server nodes. In addition, the administration perspective has been refactored to support multitenancy features.
- Domains provide support for multiple tenants in one or more registered clusters. Domains give organizations a logical partitioning of their environment, providing increased flexibility and granularity of control.
- Security configurations allow you to configure security providers. This lets you assign security configurations to domains and packages, which allows you to scale security needs differently across your organization.
- Server configuration includes additional properties that support messaging-based and replication-based synchronization properties, security policies for encryption, and performance tuning.
- Multiple package types are visually differentiated on the tree according to new and existing application models (replication, messaging, and mobile workflow). You can configure, deploy, and manage each type of package.
- An integrated administration perspective allows administrators to manage users and devices from a single administration view.
- Simplified cache refresh policy setting allows administrators to more easily configure when cache updates occur.
- System monitoring allows administrators to routinely assess system health via KPI evaluation and usage reporting.
- Extended logging support now includes the ability to review server logs, domain logs, client logs and device logs.

Documented in:

- *Sybase Control Center Online Help > Get Started > About Sybase Control Center for Unwired Platform*
- *Sybase Control Center Online Help > Get Started > Getting Started with Unwired Platform Administration*
- *Sybase Control Center Online Help > Configure > Configuring Unwired Platform*
- *Sybase Control Center Online Help > Manage > Managing Unwired Platform*
- *Sybase Control Center Online Help > Monitor > Monitoring Unwired Platform*

### **Limitations to Sybase Control Center Features**

Sybase Control Center is a standard management framework used by multiple products, including Sybase Unwired Platform. As a result, certain standard functions that appear in the user interface cannot be used to administer Unwired Platform.

For more information, see *Sybase Control Center Online Help > Get Started > About Sybase Control Center for Unwired Platform > Sybase Control Center Functionality Not Applicable to Unwired Platform*.



## New Unwired WorkSpace Features

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Describes the Sybase Unwired WorkSpace development environment features for mobile business object development. Device application development features are described separately.

### *Basic and advanced user profiles*

You can select features (wizards, properties, or WorkSpace Navigator items) from either a basic or advanced user profile.

Documented in: *Sybase Unwired WorkSpace – Mobile Business Object Development > Develop > Developing a Mobile Business Object > Before Creating Mobile Business Objects > Switching Between Developer Profiles*

### *Local business objects*

A local business object is not bound to a data source and runs only on the client device. This feature can be used to persist application specific configuration information locally across application restarts, call object queries, and perform other local functions. It is not used to synchronize with Unwired Server.

Documented in: *Sybase Unwired WorkSpace – Mobile Business Object Development > Develop > Developing a Mobile Business Object > Creating Mobile Business Objects > Creating a Local Business Object*

### *Multiple mobile business objects*

Multiple MBO caches can be generated and filled from a single enterprise information system (EIS) operation. This simplifies and improves performance over previous versions that required multiple calls to EIS (Web Service or SAP® JCo) operations to fill the consolidated database.

Documented in: *Sybase Unwired WorkSpace – Mobile Business Object Development > Develop > Developing a Mobile Business Object > Creating Mobile Business Objects > Creating Multiple Mobile Business Objects From a Single Operation*

### *Complex data structure support*

Structures define complex object types (data structures), for example, a table input to a SAP JCo operation or a Web Service operation with nested input elements. JDBC based MBOs do not support structures at this time.

Documented in: *Sybase Unwired WorkSpace – Mobile Business Object Development > Develop > Working with Mobile Business Objects > Mobile Business Object Data Properties > Datatype Support*

### ***Enhanced synchronization and load parameter support***

The distinct separation of synchronization and load parameters allows finer control over the refresh/fill process of the CDB versus the synchronization activity of the device clients.

Documented in: *Sybase Unwired WorkSpace – Mobile Business Object Development > Develop > Working with Mobile Business Objects > Mobile Business Object Mobility Properties*

### ***Expanded data source connection support***

Unwired WorkSpace supports connections to REST services.

Documented in: *Sybase Unwired WorkSpace – Mobile Business Object Development > Develop > Developing a Mobile Business Object > Binding Mobile Business Objects to Data Sources > Binding a REST Web Service Data Source to a Mobile Business Object*

### ***Expanded result checker support***

Unwired WorkSpace supports custom result checkers for SAP and, beginning with this release, Web service data sources.

Documented in: *Sybase Unwired WorkSpace – Mobile Business Object Development > Develop > Developing a Mobile Business Object > Binding Mobile Business Objects to Data Sources > Adding a Result Checker*

### ***Relationship enhancements***

Bidirectional/unidirectional and many-to-one relationships are now supported.

Documented in: *Sybase Unwired WorkSpace – Mobile Business Object Development*

### ***Personalization key enhancements***

Personalization keys are now strongly typed and allow for scalar, structure, and multi-value types. Key storage can be defined either on the device, server, or for the session.

Documented in: *Sybase Unwired WorkSpace – Mobile Business Object Development > Develop > Working with Mobile Business Objects > Mobile Business Object Data Properties > Creating Relationships Between Mobile Business Objects*

### ***Object Query support***

You can define arbitrary Object Queries in the Mobile Application model using SQL syntax to retrieve MBO instances or arbitrary result sets from the device client persistence. Unwired WorkSpace also generates Object Queries for composite primary keys instead of single attribute finders.

Documented in: *Sybase Unwired WorkSpace – Mobile Business Object Development > Develop > Working with Mobile Business Objects > Mobile Business Object Mobility Properties > Object Queries*

### *Cache groups and synchronization groups*

- Cache groups – allows the grouping of MBOs by cache refresh needs and supports definition of multiple cache policies.
- Synchronization groups – defines synchronization requirements for all MBOs within a given synchronization group.

Documented in: *Sybase Unwired WorkSpace – Mobile Business Object Development > Develop > Working with Mobile Business Objects > Mobile Business Object Mobility Properties*

### *Deployment wizard enhancements*

- The Deployment Wizard allows you to directly include custom result set filters and result checkers during the deployment process of MBO packages to Unwired Server. This was a manual step in earlier versions.
- You can now map design-time Web service connection profiles to server-side Web service connections when deploying Web service MBOs.

Documented in: *Sybase Unwired WorkSpace – Mobile Business Object Development > Develop > Packaging and Deploying Mobile Business Objects*

### *Code generation wizard enhancements*

The code generation wizard includes enhanced platform support for Objective-C (iPhone).

Documented in: *Sybase Unwired WorkSpace – Device Application Development > Develop > Develop a Device Application > Generating Object API Code*

### *Removed from Unwired WorkSpace*

This section describes features that have been removed or significantly altered since the previous release:

- **File MBOs** – File MBOs, used to upload and download files, are no longer supported.
- **@OP replacement** – Earlier versions of Unwired WorkSpace used `@OP["<parameter>"="<value>"]` to pass parameters. Beginning with this version, use the `:<parameter>` syntax for passing parameters.

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**Note:** `:<parameter>` does not support assigning default value.

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- **Cache update policies** – Policies that determine how MBO operation results are applied to the CDB have changed in number and behavior.

Documented in: *Sybase Unwired WorkSpace – Mobile Business Object Development*

- **Visual Studio** – does not support Unwired WorkSpace (MBO development) in this release.
- **Synchronization** – the filter checkbox is removed. Synchronization is configured through synchronization parameters and synchronization groups.

## New Device Application Development Features

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Describes new device application development features.

### *iPhone and iPod touch Added as New Device Types*

Apple iPhone and iPod touch® are added as new device types for Unwired Platform. You can generate Objective-C code for Apple devices, then use the iPhone client Object API and the Xcode IDE to complete application development.

Documented in:

- *Sybase Unwired WorkSpace – Device Application Development*
- *Developer Reference for iPhone*

### *Device Application Designer*

New Device Application Designer features:

- Widget events – allow application designers to specify custom events on screens and screen controls during design time.
- Cell table – allows each cell in the table to contain data from multiple columns, as well as allowing different styles to be applied to each cell of the table.
- Complex parameter support – when dragging and dropping a mobile business object (MBO) with an operation that has a complex parameter (the parameter points to another MBO), relationships are generated automatically if the complex parameter is of *structureI[]* type, where *structureI* is the Structure MBO name.
- Style sets – have their own look and feel and are used to design mobile applications that look good on multiple device platforms. You can create new user, platform, and device styles.
- Object query support – when a control is associated with an MBO that contains an object query, you can apply the object query to the data shown in the control. An object query action can be added to any action-enabled control, which allows the user to change the values of a query dynamically by assigning controls, literals, variables, and so on to the object query parameters.
- Settings screens – are default screens provided by Unwired Platform that consist of some of the most commonly used settings screens for device applications.
- PIM application support – personal information management (PIM) application integration is now supported on the Windows Mobile device platform.
- Custom action – create a user-coded action for RIM® BlackBerry® and Windows Mobile devices.
- Navigation bar control – add a navigation bar to the screen or tab panel. Each tab panel can have its own navigation bar. You can choose whether or not to show a "back" button on the navigation bar.

- Toolbar control – add toolbar items to the toolbar container so the actions you use frequently are readily accessible and easily identifiable on the device screen.
- Background image support – add a background image to the screen display or tab panel, which allows for branding.
- Logging settings screen – allows you to configure the amount of client log you want to see on the client, by setting debug levels to Off, Fatal, Error, Warning, Information, and Debug.
- BlackBerry JDE plugin integration – allows you to debug the application in the BlackBerry project in the Eclipse environment.

Documented in Sybase Unwired WorkSpace – Device Application Development online help.

### ***Mobile Workflow Forms Editor***

Sybase Mobile Workflow applications enable the creation or modification of mobile business objects on multiple device platforms without requiring custom device development. Mobile Workflow Forms Editor allows you to create the forms that can be assigned to the devices that have the Sybase Mobile Workflow application installed through Sybase Control Center.

You can generate a mobile workflow form that works on these device platforms:

- iPhone and iPod Touch
- Windows Mobile
- Nokia Symbian

See the *Sybase Unwired Platform Installation Guide* for supported version levels.

The Mobile Workflow Application uses the message-based synchronization model.

Documented in:

- *Sybase Unwired WorkSpace – Device Application Development*
- *Tutorial: Mobile Workflow Package Development*
- *Developer Reference for Mobile Workflow Packages*
- *Sybase Control Center Online Help > Configure > Sybase Control Center for Unwired Platform > Workflows*

## **New API Features**

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Describes new API features for client and server.

### ***New Client Object APIs***

Client Object APIs are generated business object classes that represent the mobile business object model built and designed in the Unwired WorkSpace development environment. Use the APIs to synchronize and retrieve data and invoke mobile business object operations.

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**Note:** See *Guidelines and Limitations on Migrating Unwired WorkSpace Projects, Mobile Business Objects, and Mobile Applications* in the *Sybase Unwired Platform Installation Guide* for a list of the differences in use of the APIs between versions 1.2 and 1.5.2.

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Documented in:

- *Developer Reference for BlackBerry*
- *Developer Reference for iPhone*
- *Developer Reference for Windows and Windows Mobile*

### ***New Device Framework APIs***

Device Framework APIs include UI as well as non-UI components that allow you to customize the device user interface built with Device Application Designer. The Device Framework APIs also provide methods to influence the screen flow or data binding.

Documented in:

- *Developer Reference for BlackBerry*
- *Developer Reference for Windows and Windows Mobile*

### ***New Unwired Server APIs***

- **Administration APIs:** Sybase Unwired Platform includes a Java API that opens the administration and configuration of Sybase Unwired Platform to Java client applications you create. By building a custom client with the administration client API, you can build a custom application to support Sybase Unwired Platform administration features and functionality within an existing IT management infrastructure.
- **Unwired Server APIs:** Sybase Unwired Platform includes several interfaces that open specific features and functionality of Unwired Server for custom development. By implementing customized functionality, Unwired Server can better suit your business requirements.

New Unwired Server API features:

- **Result set filter** – filter data by using a custom Java class to manipulate the rows or columns of data returned from a read operation for a mobile business object (MBO). You can write a filter to add, delete, or change columns or to add and delete rows.
- **Result checker** – use the custom Java class to implement custom error checking for EIS-specific business objects. For example, use an EIS-specific plug-in module to parse a return from the EIS invocation to generate logs and log the return to the server for administrators to take action.
- **Data change notifications (DCNs)** – use an HTTP interface to immediately propagate enterprise information system (EIS) changes to Unwired Server, rather than use the built-in cache refresh mechanism configured by the Unwired Server administrator.

Documented in:

- *Reference: Administration APIs*

- *Reference: Custom Development for Unwired Server*

## New Documentation Features

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Describes new documentation features.

### *New documentation design*

A new architecture makes documents easier to locate.

Sybase Unwired Platform documentation includes these new titles:

- *Fundamentals*
- *System Administration*
- *Troubleshooting*
- *Getting started tutorials*
- *Developer references*

See the *Documentation Road Map* for a description of new titles.

### *Sybase Unwired WorkSpace development online help*

The Sybase Unwired WorkSpace online help has been split into two components that reflect mobile business object (MBO) development, and device application or mobile workflow development:

- *Sybase Unwired WorkSpace – Mobile Business Object Development*
- *Sybase Unwired WorkSpace – Device Application Development*

### *Sybase Control Center for Sybase Unwired Platform online help*

The system administration topics have been moved to a new *System Administration* guide. The remaining topics describe the Sybase Control Center for Sybase Unwired Platform features.

### *Getting started tutorials*

The *Getting Started Tutorial - Eclipse Edition* has been split into two documents:

- *Tutorial: Mobile Business Object Development*
- *Tutorial: BlackBerry Application Development using Device Application Designer*

See the *Documentation Road Map* for a description of new titles.

### *Developer reference guides*

Sybase Unwired Platform documentation includes new developer references for custom coding or automating device clients, system administration, and Unwired Server processing.

- New titles for custom coding device applications:

- *Developer Reference for BlackBerry*
- *Developer Reference for iPhone*
- *Developer Reference for Windows and Windows Mobile*
- *Developer Reference for Mobile Workflow Packages*
- New title for custom coding and automating system administration: *Reference: Administration APIs*.
- New title for custom coding device applications and automating Unwired Server processing: *Reference: Custom Development for Unwired Server*.

See the *Documentation Road Map* for descriptions. Javadocs are also available in the installation directory.

### *PDF version of documents available*

All documents are now also available in PDF and HTML formats.

## **Documentation Road Map for Unwired Platform**

Learn more about Sybase® Unwired Platform documentation.

**Table 1. Unwired Platform documentation**

Document	Description
<i>Sybase Unwired Platform Installation Guide</i>	<p>Describes how to install or upgrade Sybase Unwired Platform. Check the <i>Sybase Unwired Platform Release Bulletin</i> for additional information and corrections.</p> <p>Audience: IT installation team, training team, system administrators involved in planning, and any user installing the system.</p> <p>Use: during the planning and installation phase.</p>
<i>Sybase Unwired Platform Release Bulletin</i>	<p>Provides information about known issues, and updates. The document is updated periodically.</p> <p>Audience: IT installation team, training team, system administrators involved in planning, and any user who needs up-to-date information.</p> <p>Use: during the planning and installation phase, and throughout the product life cycle.</p>
<i>New Features</i>	<p>Describes new or updated features.</p> <p>Audience: all users.</p> <p>Use: any time to learn what is available.</p>



Document	Description
<i>Fundamentals</i>	<p>Describes basic mobility concepts and how Sybase Unwired Platform enables you design mobility solutions.</p> <p>Audience: all users.</p> <p>Use: during the planning and installation phase, or any time for reference.</p>
<i>System Administration</i>	<p>Describes how to plan, configure, manage, and monitor Sybase Unwired Platform. Use with the <i>Sybase Control Center for Sybase Unwired Platform</i> online documentation.</p> <p>Audience: installation team, test team, system administrators responsible for managing and monitoring Sybase Unwired Platform, and for provisioning device clients.</p> <p>Use: during the installation phase, implementation phase, and for ongoing operation, maintenance, and administration of Sybase Unwired Platform.</p>
<i>Sybase Control Center for Sybase Unwired Platform</i>	<p>Describes how to use the Sybase Control Center administration console to configure, manage and monitor Sybase Unwired Platform. The online documentation is available when you launch the console (<b>Start &gt; Sybase &gt; Sybase Control Center</b>, and select the question mark symbol in the top right quadrant of the screen).</p> <p>Audience: system administrators responsible for managing and monitoring Sybase Unwired Platform, and system administrators responsible for provisioning device clients.</p> <p>Use: for ongoing operation, administration, and maintenance of the system.</p>
<i>Troubleshooting</i>	<p>Provides information for troubleshooting, solving, or reporting problems.</p> <p>Audience: IT staff responsible for keeping Sybase Unwired Platform running, developers, and system administrators.</p> <p>Use: during installation and implementation, development and deployment, and ongoing maintenance.</p>

Document	Description
Getting started tutorials	<p>Tutorials for trying out basic development functionality.</p> <p>Audience: new developers, or any interested user.</p> <p>Use: after installation.</p> <ul style="list-style-type: none"> <li>Learn mobile business object (MBO) basics, and create a mobile device application: <ul style="list-style-type: none"> <li><i>Tutorial: Mobile Business Object Development</i></li> <li><i>Tutorial: BlackBerry Application Development using Device Application Designer</i></li> <li><i>Tutorial: Windows Mobile Device Application Development using Device Application Designer</i></li> </ul> </li> <li>Create native mobile device applications: <ul style="list-style-type: none"> <li><i>Tutorial: BlackBerry Application Development using Custom Development</i></li> <li><i>Tutorial: iPhone Application Development using Custom Development</i></li> <li><i>Tutorial: Windows Mobile Application Development using Custom Development</i></li> </ul> </li> <li>Create a mobile workflow package: <ul style="list-style-type: none"> <li><i>Tutorial: Mobile Workflow Package Development</i></li> </ul> </li> </ul>
<i>Sybase Unwired WorkSpace – Mobile Business Object Development</i>	<p>Online help for developing MBOs.</p> <p>Audience: new and experienced developers.</p> <p>Use: after system installation.</p>
<i>Sybase Unwired WorkSpace – Device Application Development</i>	<p>Online help for developing device applications.</p> <p>Audience: new and experienced developers.</p> <p>Use: after system installation.</p>

Document	Description
Developer references for device application customization	<p>Information for client-side custom coding using the client object APIs.</p> <p>Audience: experienced developers.</p> <p>Use: to custom code client-side applications.</p> <ul style="list-style-type: none"> <li>• <i>Developer Reference for BlackBerry</i></li> <li>• <i>Developer Reference for iPhone</i></li> <li>• <i>Developer Reference for Mobile Workflow Packages</i></li> <li>• <i>Developer Reference for Windows and Windows Mobile</i></li> </ul>
Developer reference for Unwired Server side customization – <i>Reference: Custom Development for Unwired Server</i>	<p>Information for custom coding using server APIs.</p> <p>Audience: experienced developers.</p> <p>Use: to customize and automate server-side implementations for device applications, and administration, such as data handling.</p> <p>Dependencies: Use with <i>Fundamentals</i> and <i>Sybase Unwired WorkSpace – Mobile Business Object Development</i>.</p>
Developer reference for system administration customization – <i>Reference: Administration APIs</i>	<p>Information for custom coding using administration APIs.</p> <p>Audience: experienced developers.</p> <p>Use: to customize and automate administration at a coding level.</p> <p>Dependencies: Use with <i>Fundamentals</i> and <i>System Administration</i>.</p>



# Index

@OP replaced by name:value pairs 5

## A

administration console 3

advanced user profile 5

APIs

administration 9

client object 9

custom coding for Unwired Server 9

device framework 9

application models 3

## B

basic user profile 5

## C

cache groups 5

clusters 2, 3

complex data structure support 5

connections 5

## D

data refresh 2

data tier 1

deploy user-defined classes 5

Device Application Designer

background image 8

cell table 8

complex parameters 8

custom action (user-coded) 8

default setting screens 8

navigation bar 8

object queries 8

personal information management (PIM) 8

style sets 8

device management 3

device types

custom coding for 9

iPhone 8

mobile workflow devices 8

documentation

developer reference guides 11

Fundamentals 11

getting started tutorials 11

Javadocs 11

PDF and HTML formats 11

Sybase Control Center online help 11

Sybase Unwired WorkSpace online help 11

System Administration 11

Troubleshooting 11

documentation roadmap

document descriptions 12

## F

file MBO removed 5

## I

installation 1

iPhone device type 8

## L

licensing 1

local MBOs 5

## M

map Web service connections 5

message-based synchronization 2, 8

mobile workflow device types 8

Mobile Workflow Forms Editor

business process logic 8

message-based synchronization 8

mobile workflow devices 8

mobile workflow packages 8

mobile workflows 8

mobile workflow packages 8

monitoring 3

multiple MBOs 5

## N

- new features
  - APIs 9
  - documentation 11
  - installation 1
  - overview 1
  - Sybase Control Center 3
  - Unwired Server 2
  - Unwired WorkSpace device application development 8
  - Unwired WorkSpace MBO development 5

## O

- object queries 5

## P

- parameter support 5
- personalization keys 5

## R

- relationships 5
- result checkers 5

## S

- security 2
- security providers 3
- SOAP connection 2
- Sybase Control Center
  - administration API 9
  - application models 3
  - clusters 3
  - device management 3
  - monitoring 3
  - redesigned administration console 3
  - security providers 3
  - synchronization models 3
  - user management 3
- synchronization 2, 8

- synchronization groups 5
- synchronization models 3
- SySAM licensing 1

## U

- Unwired Server
  - clustering 2
  - data refresh 2
  - message-based synchronization 2
  - production security 2
  - SOAP connection 2
  - synchronization 2
- Unwired WorkSpace
  - @OP replaced 5
  - cache groups 5
  - complex data structure support 5
  - connections 5
  - custom coding for Unwired Server 9
  - deployment 5
  - Device Application Designer 8
  - device application development 8
  - file MBO removed 5
  - iPhone device type 8
  - local MBOs 5
  - MBO development 5
  - Mobile Workflow Forms Editor 8
  - multiple MBOs 5
  - object queries 5
  - parameter support 5
  - personalization keys 5
  - relationships 5
  - result checkers 5
  - synchronization groups 5
  - user profiles (basic and advanced) 5
  - Web service connections 5
- user management 3
- user profiles (basic and advanced) 5

## W

- Web service connections 5