



Supported Hardware and Software

Sybase Unwired Platform 2.1

ESD #3

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Sybase Mobile SDK Requirements

Operating systems, disk space, supported mobile devices, mobile application development environments, and virtual machine support for Sybase® Mobile SDK.

Mobile SDK System Requirements

Each Sybase Mobile SDK host must meet the requirements for operating system and available disk space.

Table 1. Host Operating System

Operating System	Service Pack	CPU
Microsoft Windows XP; Professional	SP2, SP3	32-bit only
Microsoft Windows Vista; Business, Enterprise, or Ultimate	SP2	32- and 64-bit
Microsoft Windows 7; Professional, Enterprise, or Ultimate	SP1	32- and 64-bit

Note: Windows 64-bit systems are supported using WoW64.

Disk Space

Disk space required for Sybase Mobile SDK: 1.4GB.

Supported Platforms and Development Environments

When developing a mobile application, check which device platforms and operating systems are supported, and use the supported application development environments.

Object API Applications – Supported Versions

You can build native Object API applications on these platforms using the supported native application development environments.

Apple iOS Versions for Object API

Review the supported application development environments, operating systems, and hardware, and review the tested devices.

Supported Application Development Environments

- Mac OS X 10.7 (Lion)
- Xcode 4.3.3
- iOS SDK 5.1

Supported Operating Systems

- Apple iOS 6.1.x (supported in Apple's Backward Compatibility mode)
- Apple iOS 6.0 (supported in Apple's Backward Compatibility mode)
- Apple iOS 5.1.1
- Apple iOS 5.1
- Apple iOS 5.0
- Apple iOS 4.3

Tested Devices

Unless otherwise noted, all devices are supported. These devices have been tested by Sybase:

- iPhone 5 on Apple iOS 6.0
- iPhone 4s on Apple iOS 6.1
- iPhone 4 on Apple iOS 5.1
- iPad Mini on Apple iOS 6.1
- iPad Mini on Apple iOS 6.0
- iPad with Retina Display and A6X chip on Apple iOS 6.0
- iPad with Retina Display and A5X chip on Apple iOS 6.0
- iPad 2 on Apple iOS 4.3
- iPad on Apple iOS 4.3

Supported Hardware

The recommended minimum hardware are:

- iPhone 3GS
- iPad
- iPod 3rd generation

Please refer to Apple's documentation regarding additional restrictions on iOS versions and hardware.

Google Android Versions for Object API

Review these supported application development environments and operating systems.

Supported Application Development Environments

- Android SDK Tools, Revision 18
<http://developer.android.com/sdk/index.html>
- ADT 18.0.0
<http://developer.android.com/sdk/eclipse-adt.html>

Supported Operating Systems

- Android 3.2
- Android 3.1
- Android 3.0.0
- Android 2.3.5
- Android 2.3.3
- Android 2.3.2
- Android 2.2.1
- Android 2.2

Tested Devices

Unless otherwise noted, all devices are supported. These devices have been tested by Sybase.

- Motorola XOOM on Android 3.0.0
- Samsung Galaxy S2 GT-I9100G on Android 2.3.5
- HTC Desire on Android 2.3.3
- HTC Desire HD on Android 2.3.3
- HTC Desire HD on Android 2.3.2
- Samsung Epic Galaxy S SPH-D700 on Android 2.2.1
- Samsung Galaxy S GT-I9000T on Android 2.2.1
- Samsung Galaxy Tab SCH-I800 on Android 2.2

Microsoft Windows Mobile Versions for Object API

Review these supported application development environments, operating systems, and hardware.

Supported Application Development Environments

- Visual Studio 2008
- Microsoft .NET Compact Framework 3.5

Supported Operating Systems

- Windows Mobile 6.5 Professional
- Windows Mobile 6.5 Standard
- Windows Mobile 6.1 Professional
- Windows Mobile 6.1 Standard
- Windows Mobile 6.0 Professional
- Windows Mobile 6.0 Standard

Tested Devices

Unless otherwise noted, all devices are supported. These devices have been tested by Sybase.

- HTC HD2 on Windows Mobile 6.5 Professional
- HTC Snap S521 on Windows Mobile 6.5 Standard
- HTC Tilt II on Windows Mobile 6.5 Professional
- HTC 8900 on Windows Mobile 6.1 Professional
- HTC Tilt on Windows Mobile 6.0 Professional
- Palm Treo on Windows Mobile 6.0 Professional

Supported Hardware

The recommended minimum hardware is 256MB RAM with a CPU clock speed greater than 500MHz.

Microsoft Windows Versions for Object API

Review these supported application development environments, operating systems, and hardware.

Supported Application Development Environments

- Visual Studio 2008
- Microsoft .NET Framework 3.5

Supported Operating Systems

- Windows XP; Professional Edition, SP2 or SP3 (32-bit only)
- Windows Vista; Business, Enterprise, and Ultimate Editions, SP2 (32- and 64-bit)
- Windows 7; Professional, Enterprise, and Ultimate Editions, SP1 (32- and 64-bit)

Tested Devices

Unless otherwise noted, all devices are supported.

Supported Hardware

The Unwired Platform clients must run using WoW64 on any 64-bit Windows operating system. The 64-bit native client libraries are not provided.

RIM BlackBerry Versions for Object API

Review these supported application development environments, operating systems, and hardware.

Supported Application Development Environments

BlackBerry is not a supported platform for custom development of DOE-based Object API applications, unless otherwise stated.

- BlackBerry Java Plug-in for Eclipse v1.5
- BlackBerry Java Development Environment (JDE) v7.0, 7.1
- BlackBerry Java Development Environment (JDE) v6.0
- BlackBerry Java Development Environment (JDE) v5.0

Supported Operating Systems

- BlackBerry OS 7.1.x
- BlackBerry OS 7.0.x
- BlackBerry OS 6.0.x
- BlackBerry OS 5.0.x

Tested Devices

Unless otherwise noted, all devices are supported. These devices have been tested by Sybase.

- BlackBerry Torch 9810 bundle 998 (v7.1.0.284) on OS 7.1.x.
- BlackBerry Torch 9810 (v7.0.0.540, Platform 5.0.0.694) on OS 7.0.x.
- BlackBerry Torch 9800 Bundle 2647(v6.0.0.600, Platform 6.6.0.223) on OS 6.0.x.
- BlackBerry Torch 9700 (v5.0.0.979) on OS 5.0.x.

Note: BlackBerry Torch 9700 on OS 6.0.x is **not** supported due to a known BlackBerry bug.

Supported Hardware

The recommended minimum hardware is 256MB RAM with a CPU clock speed greater than 500MHz. Some 5.0 devices do not meet these minimums.

Devices are required to be paired with a BES and have the BlackBerry MDS transport enabled to allow connection with the Unwired Platform Runtime and to receive push notifications.

OData SDK Applications – Supported Versions

You can build native OData SDK applications on these platforms using the supported native application development environments.

Apple iOS Versions for OData SDK

Review the supported application development environments, operating systems, and hardware, and review the tested devices.

Supported Application Development Environments

- Mac OS X 10.7 (Lion)
- Xcode 4.3.1 and 4.2.1
- iOS SDK 5.1

Supported Operating Systems

- Apple iOS 6.1.x
- Apple iOS 6.0
- Apple iOS 5.1.1
- Apple iOS 5.1
- Apple iOS 5.0
- Apple iOS 4.3

Tested Devices

Unless otherwise noted, all devices are supported. These devices have been tested by Sybase:

- iPhone 5 on Apple iOS 6.0
- iPhone 4S on Apple iOS 5.0
- iPhone 4 on Apple iOS 5.1
- iPhone 3GS on Apple iOS 6.1
- iPhone 3GS on Apple iOS 6.0
- iPhone 3GS on Apple iOS 5.1.1
- iPhone 3G on Apple iOS 4.3
- iPad Mini on Apple iOS 6.0
- iPad with Retina Display and A6X chip on Apple iOS 6.0
- iPad 2 on Apple iOS 6.0
- iPad 2 on Apple iOS 5.1

Supported Hardware

The recommended minimum hardware are:

- iPhone 3GS
- iPad 2

Please refer to Apple's documentation regarding additional restrictions on iOS versions and hardware.

Google Android Versions for OData SDK

Review these supported application development environments and operating systems.

Supported Application Development Environments

- Android SDK Tools, Revision 18
<http://developer.android.com/sdk/index.html>
- ADT 18.0.0
<http://developer.android.com/sdk/eclipse-adt.html>

Supported Operating Systems

- Android 3.2
- Android 3.1
- Android 3.0
- Android 2.3.6
- Android 2.3.3
- Android 2.2

Tested Devices

Unless otherwise noted, all devices are supported. These devices have been tested by Sybase.

- Samsung Galaxy Tab on Android 3.2
- Samsung Galaxy Y on Android 2.3.6
- Samsung Galaxy S on Android 2.2

RIM BlackBerry Versions for OData SDK

Review these supported application development environments, operating systems, and hardware.

Supported Application Development Environments

- BlackBerry Java Plug-in for Eclipse v1.5
- BlackBerry Java Development Environment (JDE) v7.0, 7.1
- BlackBerry Java Development Environment (JDE) v6.0
- BlackBerry Java Development Environment (JDE) v5.0

Supported Operating Systems

- BlackBerry OS 7.1.x
- BlackBerry OS 7.0.x
- BlackBerry OS 6.0.x
- BlackBerry OS 5.0.x

Tested Devices

Unless otherwise noted, all devices are supported. These devices have been tested by Sybase.

- BlackBerry Bold 9900 (OS 7.0-7.0.0.261) on BlackBerry OS 7.0.x
- BlackBerry Torch 9800 (v6.0.0.246) on BlackBerry OS 6.0.x
- BlackBerry Torch 9700 (v5.0.0.680) on BlackBerry OS 5.0.x

Supported Hardware

The recommended minimum hardware is 256MB RAM with a CPU clock speed greater than 500MHz. Some 5.0 devices do not meet these minimums.

Devices are required to be paired with a BES and have the BlackBerry MDS transport enabled to allow connection with the Unwired Platform Runtime and to receive push notifications.

HTML5/JS Hybrid Apps – Supported Versions

You can build Hybrid Web Container applications on these platforms using the supported native application development environments.

Note: Custom development using native IDEs is supported for only Android and iOS. For the Android and iOS platforms, the Hybrid Web Container application is available in the form of a template project with static libraries for easy extensibility and branding.

Apple iOS Versions for HTML5/JS Hybrid Apps

Review the supported application development environments, operating systems, and hardware, and review the tested devices.

Supported Application Development Environments

- Mac OS X 10.7 (Lion)
- Xcode 4.3
- Xcode 4.3.1
- Xcode 4.3.2
- Xcode 4.5—for SUP 2.1 ESD #3 Patch 02 (SUP 2.1 SP03 PL02) only
- Xcode 4.5.1—for SUP 2.1 ESD #3 Patch 02 (SUP 2.1 SP03 PL02) only
- iOS SDK 5.1
- iOS SDK 6.0—for SUP 2.1 ESD #3 Patch 02 (SUP 2.1 SP03 PL02) only

Supported Operating Systems

- Apple iOS 6.1.x—for SUP 2.1 ESD #3 Patch 02 (SUP 2.1 SP03 PL02) only
- Apple iOS 6.0—for SUP 2.1 ESD #3 Patch 02 (SUP 2.1 SP03 PL02) only
- Apple iOS 5.1.1
- Apple iOS 5.1

- Apple iOS 5.0
- Apple iOS 4.3.5
- Apple iOS 4.3.2
- Apple iOS 4.3

Tested Devices

Unless otherwise noted, all devices are supported. These devices have been tested by Sybase:

- iPhone 5 on Apple iOS 6.0—for SUP 2.1 ESD #3 Patch 02 (SUP 2.1 SP03 PL02) only
- iPhone 4S on Apple iOS 6.1.1—for SUP 2.1 ESD #3 Patch 02 (SUP 2.1 SP03 PL02)
- iPhone 4S on Apple iOS 6.1—for SUP 2.1 ESD #3 Patch 02 (SUP 2.1 SP03 PL02)
- iPhone 4S on Apple iOS 5.1
- iPhone 4 on Apple iOS 6.0—for SUP 2.1 ESD #3 Patch 02 (SUP 2.1 SP03 PL02) only
- iPhone 4 on Apple iOS 4.3.5
- iPad Mini on Apple iOS 6.0—for SUP 2.1 ESD #3 Patch 02 (SUP 2.1 SP03 PL02) only
- iPad with Retina Display and A6X chip on Apple iOS 6.0—for SUP 2.1 ESD #3 Patch 02 (SUP 2.1 SP03 PL02) only
- iPad with Retina Display and A5X chip on Apple iOS 6.1—for SUP 2.1 ESD #3 Patch 02 (SUP 2.1 SP03 PL02) only
- iPad with Retina Display and A5X chip on Apple iOS 6.0—for SUP 2.1 ESD #3 Patch 02 (SUP 2.1 SP03 PL02) only
- iPad with Retina Display and A5X chip on Apple iOS 5.1
- iPad 2 on Apple iOS 6.0—for SUP 2.1 ESD #3 Patch 02 (SUP 2.1 SP03 PL02) only
- iPad 2 on Apple iOS 5.1
- iPad 2 on Apple iOS 4.3
- iPad on Apple iOS 4.3.2
- iPad on Apple iOS 4.3.5
- iPod on Apple iOS 5.0

Supported Hardware

The recommended minimum hardware are:

- iPhone 3GS
- iPad
- iPod 3rd generation

Please refer to Apple's documentation regarding additional restrictions on iOS versions and hardware.

Google Android Versions for HTML5/JS Hybrid Apps

Review these supported application development environments and operating systems.

Supported Application Development Environments

- Android SDK Tools, Revision 18
<http://developer.android.com/sdk/index.html>
- ADT 18.0.0
<http://developer.android.com/sdk/eclipse-adt.html>

Supported Operating Systems

- Android 3.2
- Android 3.1
- Android 3.0.0
- Android 2.3.5
- Android 2.3.3
- Android 2.3.2
- Android 2.2.1
- Android 2.2

Tested Devices

Unless otherwise noted, all devices are supported. These devices have been tested by Sybase.

- Motorola XOOM on Android 3.0.0
- HTC Desire HD A9191 on Android 2.3.5
- Samsung Galaxy Tab GT-P1000 on Android 2.3.5
- HTC Desire on Android 2.3.3
- HTC Desire HD on Android 2.3.2
- Samsung Epic Galaxy S SPH-D700 on Android 2.2.1
- Samsung Galaxy S GT-I9000T on Android 2.2.1
- Samsung Galaxy Tab SCH-I800 on Android 2.2

Microsoft Windows Mobile Versions for HTML5/JS Hybrid Apps

Review these supported application development environments, operating systems, and hardware.

Supported Application Development Environments

Custom development using native IDEs is only supported for iOS and Android.

Supported Operating Systems

- Windows Mobile 6.5 Professional

- Windows Mobile 6.1 Professional
- Windows Mobile 6.0 Professional

Tested Devices

Unless otherwise noted, all devices are supported. These devices have been tested by Sybase.

- HTC Tilt II on Windows Mobile 6.5 Professional
- HTC 8900 on Windows Mobile 6.1 Professional
- Dopod P660 (OS 5.2.1944 , Platform 18547.0.7.3) on Windows Mobile 6.0 Professional
- HTC Tilt on Windows Mobile 6.0 Professional
- Palm Treo on Windows Mobile 6.0 Professional

Supported Hardware

The recommended minimum hardware is 256MB RAM with a CPU clock speed greater than 500MHz.

RIM BlackBerry Versions for HTML5/JS Hybrid Apps

Review these supported application development environments, operating systems, and hardware.

Supported Application Development Environments

Custom development using native IDEs is only supported for iOS and Android.

Supported Operating Systems

- BlackBerry OS 7.1.x
- BlackBerry OS 7.0.x
- BlackBerry OS 6.0.x
- BlackBerry OS 5.0.x

Tested Devices

Unless otherwise noted, all devices are supported. These devices have been tested by Sybase.

- BlackBerry Curve 9360 OS 7.0 (7.0 Bundle 1680 (V7.0.0.353, Platform 8.0.0.388)) AT&T on BlackBerry OS 7.0.x
- BlackBerry Torch 9810 Bundle 998 (v7.1.0.284) AT&T on BlackBerry OS 7.1.x
- BlackBerry Torch 9810 (v7.0.0.540, Platform 5.0.0.694) AT&T on BlackBerry OS 7.0.x
- BlackBerry Torch 9810 (v7.0.0.583, Platform 5.0.0.736) AT&T on BlackBerry OS 7.0.x
- BlackBerry Bold 9780 Bundle 863 (v6.0.0.285, Platform 6.5.0.54) T-Mobile on BlackBerry OS 6.0.x
- BlackBerry Torch 9810 Bundle 2647 (v6.0.0.600, Platform 6.6.0.223) on BlackBerry OS 6.0.x
- BlackBerry Torch 9700 (v5.0.0.979) on BlackBerry OS 5.0.x

Warning! BlackBerry Torch 9700 on OS 6.0.x is **not** supported due to a known BlackBerry bug.

Supported Hardware

The recommended minimum hardware is 256MB RAM with a CPU clock speed greater than 500MHz. Some 5.0 devices do not meet these minimums.

Devices are required to be paired with a BES and have the BlackBerry MDS transport enabled to allow connection with the Unwired Platform Runtime and to receive push notifications.

Unwired Platform Runtime Requirements

Host systems must be provisioned to meet Unwired Platform runtime requirements before installing Unwired Platform runtime components. Some components require the installation of third-party software.

JDK Version

All Unwired Platform Java components require JDK Version 6 Update 31. The JDK is provided with the installation.

Unwired Server Requirements

Each Unwired Server host must meet the following requirements for operating system, hardware, and available disk space.

Note: Sybase Unwired Platform Enterprise Server edition can be installed only on 64-bit operating systems. The Personal Development Server and Enterprise Development Server editions can be installed on either 32-bit or 64-bit operating systems.

Table 2. Host Operating System

Operating System	Service Pack
Microsoft Windows XP; Professional (32-bit only)	SP2, SP3
Microsoft Windows Vista; Business, Enterprise, or Ultimate	SP2
Microsoft Windows 7; Professional, Enterprise, or Ultimate	SP1
Microsoft Windows Server 2003; Standard or Enterprise	SP2
Microsoft Windows Server 2008; Standard or Enterprise	SP2
Microsoft Windows Server 2008 R2; Standard or Enterprise	SP1

Table 3. Hardware (minimum)

CPU	RAM
Intel Core 2 Duo processor running at 2GHz or higher, or equivalent AMD processor	4GB

Table 4. Disk Space (minimum)

Component	Required Space
Unwired Server	1200MB

Data Tier Requirements

Each data tier host must meet the following requirements for operating system, hardware, and available disk space.

Note: Sybase Unwired Platform Enterprise Server edition can be installed only on 64-bit operating systems. The Personal Development Server and Enterprise Development Server editions can be installed on either 32-bit or 64-bit operating systems.

Table 5. Host Operating System

Operating System	Service Pack
Microsoft Windows XP; Professional (32-bit only)	SP2, SP3
Microsoft Windows Vista; Business, Enterprise, or Ultimate	SP2
Microsoft Windows 7; Professional, Enterprise, or Ultimate	SP1
Microsoft Windows Server 2003; Standard or Enterprise	SP2
Microsoft Windows Server 2008; Standard or Enterprise	SP2
Microsoft Windows Server 2008 R2; Standard or Enterprise	SP1

Table 6. Hardware (minimum)

CPU	RAM
Intel Core 2 Duo processor running at 2GHz or higher, or equivalent AMD processor	4GB

Table 7. Disk Space (minimum)

Component	Required Space
Data tier servers	720MB
Note: The required space increases as users, applications, and user data are added.	

System Landscape Directory Requirements

The System Landscape Directory (SLD) host must meet the following requirements. Sybase Unwired Platform is a third-party system that must be registered with the SLD.

- SAP® NetWeaver 7.0 (2004s) SP7 or higher

Relay Server Requirements

Each Relay Server host must meet the following requirements for operating system, hardware, and available disk space.

Table 8. Version Required for Sybase Unwired Platform

Relay Server Version	Support
Relay Server 12.0.1	Binaries and documentation included on Unwired Platform Runtime installation media
Sybase Hosted Relay Service 12.0.1	Supported only for development and test environments

Note: Sybase Hosted Relay Service requires no local system resources.

Table 9. Host Operating System

Operating System	Service Pack
Microsoft Windows Server 2003	SP2
Microsoft Windows Server 2008	SP2
Microsoft Windows Server 2008 R2	SP1

Operating System	Service Pack
Red Hat Enterprise Linux 5 <ul style="list-style-type: none"> • 32-bit Kernel 2.6.18-8.el5 • 64-bit Kernel 2.6.18-92.1.1.el5 	

Table 10. Web Server Platform

Web Server	Version
Microsoft Internet Information Services (IIS) on Microsoft Windows	6.0, 7.0, 7.5 (32- and 64-bit)
Apache HTTP Server on RedHat Enterprise Linux 5	2.2.8 (32-bit), 2.2.15 (32- and 64-bit)

Table 11. Hardware (minimum)

CPU	RAM
1 or more CPUs, 2GHz or higher	2GB

Table 12. Disk Space (minimum)

Component	Required Space
Relay Server 12.0.1	10MB

Sybase Control Center Requirements

Each host used as a Sybase Control Center client must have the required third-party applications installed. Sybase Control Center is supported on Windows only.

Table 13. Sybase Control Center

Software	Version
Adobe Flash Player	10.1 or later, 11.x

Unwired Platform Runtime Requirements

Software	Version
Internet Explorer	<ul style="list-style-type: none">• 6.0 (32-bit only)• 7.0 (32-bit only)• 8.0 (32- and 64-bit)• 9.0 (32- and 64-bit)

If Adobe Flash Player is not installed when you connect to a Sybase Control Center server, you may see a message with a link to "Get Flash."

If an outdated version of Adobe Flash Player is installed, you may see a blank page in the browser.

Sybase Unwired Platform 2.1 installation media includes an installer for Adobe Flash Player in the top-level `3rdParty` folder.

Supported Afaria Versions

Each Afaria® server host must meet the requirements for operating system, hardware, and available disk space. See the Afaria documentation for system requirements.

Sybase Unwired Platform supports Afaria Server 6.6, Hot Fix 5.

BlackBerry Enterprise Server Requirements

Each RIM BlackBerry Enterprise Server (BES) must meet the requirements for operating system, hardware, and available disk space. See the RIM BES documentation for system requirements.

Supported BES Versions

Sybase Unwired Platform supports the following BES versions.

- BlackBerry Enterprise Server v5.0
- BlackBerry Enterprise Server v4.1

Network Communication and Push Notifications

Devices are required to be paired with a BES and have the BlackBerry MDS transport enabled to allow connection with the Unwired Platform Runtime and to receive push notifications.

Certified LDAP Servers

These LDAP servers are certified for use with Sybase Unwired Platform.

- Microsoft Windows Server 2008 R2 Active Directory
- OpenDS 2.2 Update 1

Supported Enterprise Information Systems (EIS) and Databases

Unwired Platform supports connections to several types of EIS and databases, which serve as the back end for mobile applications.

SAP Applications

- SAP® Java Connector (SAP JCo) 3.0.7
- SAP NetWeaver Gateway 2.0 (with Native OData SDK applications only)
- SAP Data Orchestration Engine (with Mobile Gateway 1.1 SP06)

Web Services

- WS-I Basic Profile 1.1
- RESTful services, XML over HTTP(S)

Java Database Connectivity (JDBC)

- SQL Anywhere® 11.x, 12.x
- Adaptive Server® Enterprise 12.5.x, 15.x
- Microsoft SQL Server 2005, 2008
- Oracle 10g, 11g
- IBM DB2 UDB 9.1

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