SYBASE®

An **SAP** Company

Supported Hardware and Software

Sybase Unwired Platform 2.1
ESD #2

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Sybase Mobile SDK Requirements

Use the Sybase® Mobile SDK with these operating systems, supported mobile devices, and mobile application development environments.

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.

Table 2. Disk Space

Component	Required Space
Sybase Mobile SDK (including Unwired WorkSpace, Eclipse, and JDK)	1.4GB

Supported Mobile Device Platforms

The mobile application type determines which mobile device platforms and versions are supported.

Object API Applications

You can build native Object API applications for these supported operating systems, mobile device platforms, and versions.

Android

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

Apple iOS

- Apple iOS 4.3
- Apple iOS 5.0
- Apple iOS 5.1
- Apple iOS 6.0

Minimum hardware: iPhone 3GS

RIM BlackBerry

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

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

Recommended minimum hardware: 256MB RAM, CPU clock speed greater than 500MHz. Some 5.0 devices do not meet these minimums.

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

Microsoft Windows

- 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)

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

Windows Mobile Family

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

Recommended minimum hardware: 256MB RAM, CPU clock speed greater than 500MHz.

See also
- *Object API Application Development Environments* on page 5

OData SDK Applications

You can develop native OData SDK applications for these supported mobile device platforms and versions.

Android

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

Apple iOS

- Apple iOS 4.3
- Apple iOS 5.0
- Apple iOS 5.1
- Apple iOS 6.0

Minimum hardware: iPhone 3GS

RIM BlackBerry

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

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.

Recommended minimum hardware: 256MB RAM, CPU clock speed greater than 500MHz. Some 5.0 devices do not meet these minimums.

See also
- *OData Application Development Environments* on page 6

HTML5/JS Hybrid Apps

You can develop HTML5/JS Hybrid apps (Mobile Workflow applications) for these supported mobile device platforms and versions.

The Sybase HTML5/JS Hybrid Container application is available on only Windows Mobile Professional, Apple iOS, BlackBerry and Android platforms. For iOS platforms, the Hybrid Web Container application is available in the form of a template project with static libraries for easy extensibility and branding.

Android

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

Apple iOS

- Apple iOS 4.3
- Apple iOS 5.0
- Apple iOS 5.1

Minimum hardware: iPhone 3GS

RIM BlackBerry

- BlackBerry OS 5.0.x
- BlackBerry OS 6.0.x

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.

Recommended minimum hardware: 256MB RAM, CPU clock speed greater than 500MHz. Some 5.0 devices do not meet these minimums.

Windows Mobile

- Windows Mobile 6.0 Professional
- Windows Mobile 6.1 Professional

- Windows Mobile 6.5 Professional

Recommended minimum hardware: 256MB RAM, CPU clock speed greater than 500MHz.

Object API Application Development Environments

Sybase Unwired Platform supports these development environments for native Object API applications.

Android

- Android SDK Tools, Revision 16
  http://developer.android.com/sdk/index.html
- ADT 16.0.1
  http://developer.android.com/sdk/eclipse-adt.html

Apple iOS

- Mac OS X 10.6.8 (Snow Leopard) or 10.7 (Lion), with Xcode 4.2 and iOS SDK 5.0

RIM BlackBerry

- BlackBerry Java Plug-in for Eclipse v1.3
- BlackBerry Java Development Environment (JDE) v5.0 or v6.0

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

Windows Mobile

- Visual Studio 2008, Microsoft .NET Compact Framework 3.5

Windows

- Visual Studio 2008, Microsoft .NET Framework 3.5

See also
-

OData Application Development Environments

Sybase Unwired Platform supports these development environments for native OData SDK applications.

Android

- Android SDK Tools, Revision 16
  http://developer.android.com/sdk/index.html
- ADT 16.0.1
  http://developer.android.com/sdk/eclipse-adt.html

Apple iOS

- Mac OS X 10.6.8 (Snow Leopard) or 10.7 (Lion), with Xcode 4.2 and iOS SDK 5.0

RIM BlackBerry

- BlackBerry Java Plug-in for Eclipse v1.3
- BlackBerry Java Development Environment (JDE) v5.0, v6.0, and v7.1

See also
- *OData SDK Applications* on page 3

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 26. 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 3. 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 4. Hardware (minimum)

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

Table 5. Disk Space (minimum)

Component	Required Space
Unwired Server	1700MB

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 6. 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 7. Hardware (minimum)

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

Table 8. Disk Space (minimum)

Component	Required Space
Data tier servers	720MB

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

Relay Server Requirements

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

Table 9. 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 10. Host Operating System

Operating System	Service Pack
Microsoft Windows Server 2003	SP2
Microsoft Windows Server 2008	SP2
Microsoft Windows Server 2008 R2	SP1
Red Hat Enterprise Linux 5 • 32-bit Kernel 2.6.18-8.el5 • 64-bit Kernel 2.6.18-92.1.1.el5	

Table 11. 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 12. Hardware (minimum)

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

Table 13. 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 14. Sybase Control Center

Software	Version
Adobe Flash Player	9.0.124+ or 10.x (recommended)
Internet Explorer	6.0 or later

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 installation media includes an installer for Adobe Flash Player in the top-level 3rdParty folder.

Note: On Microsoft Windows 64-bit operating systems, you must use the 32-bit version of Internet Explorer.

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

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.

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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