Supported Hardware and Software

Sybase Unwired Platform 2.1
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>
<thead>
<tr>
<th>Operating System</th>
<th>Service Pack</th>
<th>CPU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microsoft Windows XP; Professional</td>
<td>SP2, SP3</td>
<td>32-bit only</td>
</tr>
<tr>
<td>Microsoft Windows Vista; Business, Enterprise, or Ultimate</td>
<td>SP2</td>
<td>32- and 64-bit</td>
</tr>
<tr>
<td>Microsoft Windows 7; Professional, Enterprise, or Ultimate</td>
<td>SP1</td>
<td>32- and 64-bit</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Component</th>
<th>Required Space</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sybase Mobile SDK (including Unwired WorkSpace, Eclipse, and JDK)</td>
<td>1.4GB</td>
</tr>
</tbody>
</table>

Supported Mobile Device Platforms

The mobile application type determines which mobile device platforms and versions are supported.
Native Object API Applications

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

**Apple iOS**
- iPhone 3GS/4 iOS 4.2, 4.3, and 5.0
- iPod touch 3rd/4th gen iOS 4.2, 4.3, and 5.0
- iPad iOS 4.2, 4.3, and 5.0
- iPad 2 iOS 4.3 and 5.0

**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.

**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**
- *Native Object API Application Development Environments* on page 4
**OData SDK Applications**

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

*Android*
- Android 3.0
- Android 2.3.3
- Android 2.2

*Apple iOS*
- iPhone 3GS/4 iOS 4.2, 4.3, and 5.0
- iPod touch 3rd/4th gen iOS 4.2, 4.3, and 5.0
- iPad iOS 4.2, 4.3, and 5.0
- iPad 2 iOS 4.3 and 5.0

*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.

**See also**
- *OData Application Development Environments* on page 5

**HTML5/JS Hybrid Apps**

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

*Android*
- Android 3.0
- Android 2.3.3
- Android 2.2

*Apple iOS*
- iPhone 3GS/4 iOS 4.2, 4.3, and 5.0
Sybase Mobile SDK Requirements

- iPod touch 3rd/4th gen iOS 4.2, 4.3, and 5.0
- iPad iOS 4.2, 4.3, and 5.0
- iPad 2 iOS 4.3 and 5.0

**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.

# Native Object API Application Development Environments

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

**Apple iOS**
- Mac OS X 10.6 (Snow Leopard), with Xcode 4.0.2 and iOS SDK 4.3

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

**Windows Mobile**
- Visual Studio 2008, Microsoft .NET Compact Framework 3.5

**Windows**
- Visual Studio 2008, Microsoft .NET Framework 3.5

**See also**
- Native Object API Applications on page 2


**OData Application Development Environments**

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

**Android**

- Android SDK Tools, Revision 12 (*android-sdk_r12-windows.zip*)
  
- Android SDK Platform-tools, Revision 5 (included with Android SDK Tools)
- SDK Platform API for specific Android version

**Apple iOS**

- Mac OS X 10.6 (Snow Leopard), with Xcode 4.0.2 and iOS SDK 4.3

**RIM BlackBerry**

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

**See also**

- *OData SDK Applications* on page 3

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**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.

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

<table>
<thead>
<tr>
<th>Operating System</th>
<th>Service Pack</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microsoft Windows XP; Professional (32-bit only)</td>
<td>SP2, SP3</td>
</tr>
<tr>
<td>Microsoft Windows Vista; Business, Enterprise, or Ultimate</td>
<td>SP2</td>
</tr>
<tr>
<td>Microsoft Windows 7; Professional, Enterprise, or Ultimate</td>
<td>SP1</td>
</tr>
<tr>
<td>Microsoft Windows Server 2003; Standard or Enterprise</td>
<td>SP2</td>
</tr>
<tr>
<td>Microsoft Windows Server 2008; Standard or Enterprise</td>
<td>SP2</td>
</tr>
<tr>
<td>Microsoft Windows Server 2008 R2; Standard or Enterprise</td>
<td>SP1</td>
</tr>
</tbody>
</table>

Table 4. Hardware (minimum)

<table>
<thead>
<tr>
<th>CPU</th>
<th>RAM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel Core 2 Duo processor running at 2GHz or higher, or equivalent AMD processor</td>
<td>4GB</td>
</tr>
</tbody>
</table>

Table 5. Disk Space (minimum)

<table>
<thead>
<tr>
<th>Component</th>
<th>Required Space</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unwired Server</td>
<td>1700MB</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Operating System</th>
<th>Service Pack</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microsoft Windows XP; Professional (32-bit only)</td>
<td>SP2, SP3</td>
</tr>
<tr>
<td>Microsoft Windows Vista; Business, Enterprise, or Ultimate</td>
<td>SP2</td>
</tr>
<tr>
<td>Microsoft Windows 7; Professional, Enterprise, or Ultimate</td>
<td>SP1</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Relay Server Version</th>
<th>Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relay Server 12.0.1</td>
<td>Binaries and documentation included on Unwired Platform Runtime installation media</td>
</tr>
<tr>
<td>Sybase Hosted Relay Service 12.0.1</td>
<td>Supported only for development and test environments</td>
</tr>
</tbody>
</table>

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

Table 10. Host Operating System

<table>
<thead>
<tr>
<th>Operating System</th>
<th>Service Pack</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microsoft Windows Server 2003</td>
<td>SP2</td>
</tr>
<tr>
<td>Microsoft Windows Server 2008</td>
<td>SP2</td>
</tr>
<tr>
<td>Microsoft Windows Server 2008 R2</td>
<td>SP1</td>
</tr>
</tbody>
</table>
### Operating System

<table>
<thead>
<tr>
<th>Red Hat Enterprise Linux 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>• 32-bit Kernel 2.6.18-8.el5</td>
</tr>
<tr>
<td>• 64-bit Kernel 2.6.18-92.1.1.el5</td>
</tr>
</tbody>
</table>

### Table 11. Web Server Platform

<table>
<thead>
<tr>
<th>Web Server</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microsoft Internet Information Services (IIS) on Microsoft Windows</td>
<td>6.0, 7.0, 7.5 (32- and 64-bit)</td>
</tr>
<tr>
<td>Apache HTTP Server on Linux</td>
<td>2.2.8 (32-bit), 2.2.15 (32- and 64-bit)</td>
</tr>
</tbody>
</table>

### Table 12. Hardware (minimum)

<table>
<thead>
<tr>
<th>CPU</th>
<th>RAM</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 or more CPUs, 2GHz or higher</td>
<td>2GB</td>
</tr>
</tbody>
</table>

### Table 13. Disk Space (minimum)

<table>
<thead>
<tr>
<th>Component</th>
<th>Required Space</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relay Server 12.0.1</td>
<td>10MB</td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>Software</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adobe Flash Player</td>
<td>9.0.124+ or 10.x (recommended)</td>
</tr>
<tr>
<td>Internet Explorer</td>
<td>6.0 or later</td>
</tr>
</tbody>
</table>

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.

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**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.

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**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.x
Using OData SDK mobile applications can also interact with consumption model structures exposed from SAP NetWeaver Gateway 2.0 through OData. OData SDK is only supported with SAP NetWeaver Gateway 2.0.

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
- Oracle 10g, 11g
- IBM DB2 UDB 9.1
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