

# Release Bulletin PocketBuilder™ 2.5

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## 1. Accessing current release bulletin information

A more recent version of this release bulletin might be available on the Web. To check for critical product or document information added after the release of the product CD, use the Sybase® Technical Library Product Manuals Web site.

### ❖ Accessing release bulletins at the Technical Library Product Manuals Web site

- 1 Go to Product Manuals at <http://www.sybase.com/support/manuals/>.
- 2 Follow the links to the appropriate Sybase product.
- 3 Select the Release Bulletins link.
- 4 Select the Sybase product version from the Release Bulletins list.
- 5 From the list of individual documents, select the link to the release bulletin for your platform. You can either download the PDF version or browse the document online.

## 2. Product summary

Sybase PocketBuilder™ is a smart-client application development tool for Windows CE platforms, including their more recent Windows Mobile enhancements. PocketBuilder enables developers to build handheld applications in an object-centric, graphical, desktop environment, and then deploy them to a supported device or emulator.

### Supported design-time platforms

PocketBuilder version 2.5 (Build 1123) is compatible with the following desktop platform and operating system configurations:

- Microsoft Windows 2003
- Microsoft Windows XP
- Microsoft Windows 2000 with Service Pack 2 or later
- Windows Vista 32 and Windows Vista 64

For Windows 2000, you must include the Microsoft file *gdipplus.dll* in your system path to run the PocketBuilder design-time user interface. (This file is installed automatically with later versions of Windows.) The Microsoft GDI+ module can be downloaded from the Microsoft Downloads Web site. The GDI+ subsystem implements the enhanced graphics capabilities required for the new PocketBuilder menu and toolbar styles.

	<p>You must have administrator status to install PocketBuilder on Windows Vista. You must also have administrator status the first time you run the evaluation version of PocketBuilder on a Vista machine. After that, you can run PocketBuilder as a regular user.</p>
Supported runtime platforms	<p>The principle runtime platforms for applications that you develop with PocketBuilder include Pocket PC 2002, Pocket PC 2003, and the Microsoft Windows Mobile platforms (WM 2003 SE, WM 5, and WM 6) running on Pocket PC or Smartphone devices. Support is also maintained for some of the “bare” Windows CE and Windows CE .NET Pocket PC devices. Device and emulator support is listed in “Device and emulator support” on page 4.</p>

## 2.1 Version contents

### 2.1.1 Software used for database connection

PocketBuilder 2.5 has been tested with SQL Anywhere® 10 and Adaptive Server® Anywhere 9. These are transaction-based, relational SQL databases for the desktop and for Windows CE platforms. Alternatively, you can use UltraLite® 9 or 10 for PocketBuilder database connections. UltraLite is a relational database expressly designed for small mobile and embedded devices.

The developer edition of SQL Anywhere 10.0.1 is part of the PocketBuilder 2.5 installation. UltraLite and MobiLink™ are components of SQL Anywhere 10 and can be installed with SQL Anywhere from the PocketBuilder setup program.

You should use the same version of SQL Anywhere, Adaptive Server Anywhere, or UltraLite on handheld devices and the desktop. If you install SQL Anywhere 10 to a device or emulator, make sure you select the International Components for Unicode (ICU) check box. If you already installed SQL Anywhere 10 to a device without selecting this check box, you must reinstall SQL Anywhere with the ICU setup selection before running an application that connects to a SQL Anywhere database.

SQL Anywhere 10 has a bigger “footprint” than Adaptive Server Anywhere 9. Some Pocket PC 2002 devices can freeze while running SQL Anywhere 10 applications. For applications using SQL Anywhere 10 databases, you should use Pocket PC 2003, Windows Mobile 5, or Windows Mobile 6 devices.

### 2.1.2 Software used for database synchronization

PocketBuilder is integrated with MobiLink software, which can be used for two-way database synchronization between a mobile remote database and a central consolidated database. You can install MobiLink from the SQL Anywhere installation program.

In PocketBuilder 2.5, you can use the MobiLink 9 or MobiLink 10 synchronization server. The MobiLink Synchronization for ASA wizard creates objects you can use to synchronize SQL Anywhere 10, ASA 9, or ASA 8 databases. You can use the UltraLite Synchronization wizard to create objects for synchronizing UltraLite 9 or UltraLite 10 databases.

## 2.2 Deployment and debugging support

### 2.2.1 Device and emulator support

PocketBuilder includes virtual machines (VMs) for deployment to Pocket PC and Smartphone devices and emulators with any of the following operating systems:

- arm for Pocket PC 2002 and 2003 ARM-based devices, and devices and emulators using Microsoft Windows Mobile 2003 SE, WM 5, or WM 6 operating systems.

Example devices include HP iPaq, Dell Axim, Toshiba e740, and Symbol PPT-8800.

- sparm for Smartphone 2003, and Smartphone devices and emulators using WM 2003 SE, WM 5, or WM 6 operating systems.

Example devices include Audiovox 5600, SPV C500, Motorola MPx, and QTEK 9100.

- Windows CE for “bare” Windows CE and Windows CE .NET devices

Example devices include HP Jornada and the Intermec 700 series bar code scanners. The Windows CE platform allows device manufacturers to choose or change the features they implement, so the level of support of Windows CE is not always well specified.

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#### **Dropped emulator support**

Support for the x86 emulators and the spx86 emulators has been dropped from the current release.

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The PocketBuilder VMs are included in CAB files and subdirectories of the PocketBuilder 2.5 WinCE directory.

You can download the following standalone emulators from the Microsoft Web site:

- version 1 at  
<http://www.microsoft.com/downloads/details.aspx?FamilyId=C62D54A5-183A-4A1E-A7E2-CC500ED1F19A&displaylang=en>
- version 2 at  
<http://www.microsoft.com/downloads/details.aspx?FamilyID=dd567053-f231-4a64-a648-fea5e7061303&DisplayLang=en>

Links to localized emulator images are available from these download sites. In addition, you might need to download the Virtual Machine Network Driver for your standalone emulator. You can download this driver from the Microsoft Web site at <http://www.microsoft.com/downloads/details.aspx?familyid=DC8332D6-565F-4A57-BE8C-1D4718D3AF65&displaylang=en>. Windows Vista users must install the Windows Mobile Device Center, available from links on the Microsoft Web site at <http://msdn2.microsoft.com/en-us/windowsmobile/bb264337.aspx>

If you installed Visual Studio 2005, you can use the Windows Mobile emulators that come with that product. You can also download the latest Windows Mobile SDK from a link on the Microsoft Web site at <http://msdn2.microsoft.com/en-us/windowsmobile/bb264337.aspx>

### 2.2.2 Debugging support

Debugging support for PocketBuilder applications is currently available for the desktop only.

## 3. Special installation instructions

The *Installation Guide* on the Getting Started CD and the Sybase Product Manuals Web site at <http://www.sybase.com/support/manuals/> describes how to install the software on the desktop, and on a handheld device or emulator.

## 4. Changed functionality in this version

The *New Features* book and the “What’s New in PocketBuilder” section of PocketBuilder Help describe new and modified features in PocketBuilder 2.5. You can open the Help file from the Windows Start menu by selecting Start>Programs>Sybase>PocketBuilder 2.5>Online Help.

The *New Features* book is available on the Sybase Product Manuals Web site at <http://sybooks.sybase.com/nav/base.do>. Select PocketBuilder from the list of products and click Go, then select PocketBuilder 2.5 and select this title.

## 5. Known problems

### 5.1 General issues

#### 5.1.1 Deleting a custom visual object associated with a tab control

If you insert a custom visual object on a tab control and subsequently delete the window containing the tab control, you must restart PocketBuilder before you can successfully delete the custom visual object. If you attempt to delete the custom visual object without restarting PocketBuilder, an error message indicates that the custom visual object or one of its descendants is open in another painter—even if no painters are open at the time. [CR 370801]

#### 5.1.2 DialingDirectory object functions

The UpdateEntry function currently works for a SIM directory only, not for a POOM directory. The AddEntry function is not currently implemented either for a SIM or a POOM directory. [CR 371011]

#### 5.1.3 Calling a recursive function can cause a stack overflow

The Windows CE platform does not have any built-in protection to manage memory during calls to functions that call themselves (recursive functions). Calls to deeply recursive functions can cause the operating system to crash due to stack overflow. [CR 322465]

### 5.1.4 Selecting functions in Profiling Class View tool

Selecting a function in the Profiling Class View tool when the function script exceeds approximately 1000 characters (Windows 2000) or 1800 characters (Windows XP) can cause PocketBuilder to crash. After viewing a function in the Profiling Class View tool, modifying or adding a comment to the same function in the Function painter and attempting to save the modified function can also cause PocketBuilder to crash. [CR 380153 and CR 380154]

### 5.1.5 Writing to a file with the SetProfileString function

You can write to a file with the SetProfileString function, but only if the file name you pass in the first function argument refers to a file that already exists and is a valid Unicode file. A valid Unicode file must have at least one character written to the file.

The following code sample uses regular file functions to create a valid Unicode file by adding a comment to the top of the file:

```
integer li_file
integer li_ret
li_file = FileOpen(gs_FileName, LineMode!, Write!, &
    LockWrite!, Replace!)
li_ret = FileWrite( li_file, "; my comment" )
FileClose(li_file)
```

The ProfileInt and ProfileString functions also require references to valid Unicode files. [CR 328631]

## 5.2 DataWindow wizard issues

### 5.2.1 Wizard error with Stored Procedure data source

During the creation of a DataWindow using the Stored Procedure data source, selecting the Manual Result Set option in the Select Stored Procedure wizard page produces a wizard page that is blank except for an unlabeled command button on the top left corner of the page. Clicking Next on this blank wizard page can cause the wizard to fail or PocketBuilder to crash. [CR 380430]

### 5.2.2 Wizard error with QuickSelect data source

Creating a new DataWindow using the Quick Select data source and a newly created ASA 9 or SQL Anywhere 10 database with a single non-system table causes the DataWindow creation wizard to fail. The error message indicates a syntax error or access violation. [CR 380151]

## 5.3 Certificate signing issues

### 5.3.1 Signing an application on Windows Vista

Although you can select a certificate to sign an application in the PocketBuilder Project painter, when you deploy the application from a Windows Vista machine, an error message displays in the Output window indicating that the application signing has failed. The Windows API does not return a reason for the signing failure. However, you can sign applications in this way from PocketBuilder projects that you deploy from Windows XP, Windows 2000, or Windows 2003 platforms. [CR 477282]

### 5.3.2 PocketBuilder sample certificates

Although you import PocketBuilder sample certificates to your personal certificate store using the PocketBuilder Certificate Manager, on some machines the imported certificates display on the “Other People” tab page rather than the “Personal” tab page of the Certificate Manager. [CR 475020]

## 5.4 Deployment and debugging issues

### 5.4.1 Smartphone CAB files require DLL for ODBC connections

Because Smartphone applications typically use UltraLite, the CAB files you generate from the Project painter for deploying applications to a Smartphone device or emulator do not include the *PKODB25.DLL* file required for ODBC database connections. If you use an ODBC connection to a SQL Anywhere database in an application, you must manually copy the *PKODB25.DLL* file, or use the Enhanced CAB Generation tool to create the CAB file.



If you create the CAB file with the Project painter, you can copy the *PKODB25.DLL* file from the PocketBuilder 2.5\WinCE\sparm directory to the Smartphone device where you deploy your application. If you use the Enhanced CAB Generation tool, you must select the Include PocketBuilder Support DLLs and the Include ODBC Driver DLLs check boxes on the PocketBuilder Options tab page.

UltraLite connections do not require the *PKODB25.DLL* file. The *PKULI025.DLL* file required for UltraLite connections is included automatically in the CAB files you generate from the Project painter. [CR 371146]

### 5.4.2 Restarting a debugging session

When you debug an application for the second time in the same PocketBuilder session, certain actions, such as changing a watch variable, can cause PocketBuilder to crash. You can avoid crashes by closing and restarting PocketBuilder before running the debugger a second time. [CR 325369]

## 6. Product compatibilities

### 6.1 SQL Anywhere

PocketBuilder 2.5 has been tested with Sybase SQL Anywhere 10.0.1; however, you can use Sybase SQL Anywhere Studio 8.0.2 Build 4229 or later for database and MobiLink integration support. UltraLite support is available only with version 9 or greater.

You should not install the SQL Anywhere server on a storage card unless you are certain that the device will not be turned off or the storage card removed while the executable is running. Also, connecting to a SQL Anywhere database that you copy to a supported emulator's storage card (rather than to its main memory) can produce an assertion failure due to the emulator's implementation of the `GetFileInformationByHandle` function.

## 6.2 ActiveSync software

Microsoft ActiveSync is required for transferring applications to your mobile device. You can download the latest ActiveSync version from a link on the Microsoft Web site at

<http://www.microsoft.com/windowsmobile/activesync/default.mspx>. If you are developing PocketBuilder applications on a Windows Vista machine, use the Windows Mobile Device Center instead of ActiveSync.

## 7. Documentation updates and clarifications

PocketBuilder documentation is available on the Sybase Product Manuals Web site at <http://sybooks.sybase.com/nav/base.do>.

In addition to this *Release Bulletin* and the *Installation Guide*, the PocketBuilder 2.5 book collection consists of core documentation (*New Features*, *Introduction to PocketBuilder*, *Users Guide*, and *Resource Guide*) and reference documentation (*Objects and Controls*, *PowerScript Reference*, *DataWindow Reference*, and *Connection Reference*). The *New Features* manual describes additions and modifications to PocketBuilder in the 2.5 release.

## 8. Migration information

If you open an existing PocketBuilder 2.0.x or 2.1 target in the PocketBuilder 2.5 IDE, PocketBuilder prompts you to migrate the application unless you previously selected the No Prompting check box in the Targets to be Migrated dialog box. If you selected this check box, the migration is performed automatically.

After migration, you can freely use an application in the PocketBuilder 2.5 environment that was built in an earlier version of PocketBuilder. However, it is recommended that you copy a target before you migrate it. Earlier versions of PocketBuilder can coexist with PocketBuilder 2.5 on the same machine.

### 8.1 Conversion of PowerBuilder applications

You can use the Import Pocket to CE wizard to convert an existing PowerBuilder 7, 8, 9, 10, 10.5, or 11 application to a PocketBuilder 2.5 application. For more information, see Appendix B in the PocketBuilder *Users Guide*.

## 9. Technical support

Each Sybase installation that has purchased a support contract has one or more designated people who are authorized to contact Sybase Technical Support. If you have any questions about this installation or if you need assistance during the installation process, ask the designated person to contact Sybase Technical Support or the Sybase subsidiary in your area.

## 10. Other sources of information

Use the Sybase Getting Started CD, the SyBooks CD, and the Sybase Product Manuals Web site to learn more about your product:

- The Getting Started CD contains release bulletins and installation guides in PDF format, and may also contain other documents or updated information not included on the SyBooks CD. It is included with your software. To read or print documents on the Getting Started CD, you need Adobe Acrobat Reader, which you can download at no charge from the Adobe Web site using a link provided on the CD.
- The SyBooks CD contains product manuals and is included with your software. The Eclipse-based SyBooks browser allows you to access the manuals in an easy-to-use, HTML-based format.

Some documentation may be provided in PDF format, which you can access through the PDF directory on the SyBooks CD. To read or print the PDF files, you need Adobe Acrobat Reader.

Refer to the *SyBooks Installation Guide* on the Getting Started CD, or the *README.txt* file on the SyBooks CD for instructions on installing and starting SyBooks.

- The Sybase Product Manuals Web site is an online version of the SyBooks CD that you can access using a standard Web browser. In addition to product manuals, you will find links to EBFs/Maintenance, Technical Documents, Case Management, Solved Cases, newsgroups, and the Sybase Developer Network.

To access the Sybase Product Manuals Web site, go to Product Manuals at <http://www.sybase.com/support/manuals/>.

- The PocketBuilder newsgroup is a forum where you can raise questions regarding PocketBuilder use and view questions, answers, and comments by other PocketBuilder users. The newsgroup is monitored by Team Sybase members. You can access the newsgroup from a link on the Windows Start menu after you install PocketBuilder on the desktop. The Web page that you open with the Start>Programs>Sybase>PocketBuilder 2.5>News Group menu item also has a link to a page describing how to configure a news reader for the Sybase news service.

## 10.1 Sybase certifications on the Web

Technical documentation at the Sybase Web site is updated frequently.

### ❖ Finding the latest information on product certifications

- 1 Point your Web browser to Technical Documents at <http://www.sybase.com/support/techdocs/>.
- 2 Click Certification Report.
- 3 In the Certification Report filter select a product, platform, and timeframe and then click Go.
- 4 Click a Certification Report title to display the report.

### ❖ Finding the latest information on component certifications

- 1 Point your Web browser to Availability and Certification Reports at <http://certification.sybase.com/>.
- 2 Either select the product family and product under Search by Base Product; or select the platform and product under Search by Platform.
- 3 Select Search to display the availability and certification report for the selection.

### ❖ Creating a personalized view of the Sybase Web site (including support pages)

Set up a MySybase profile. MySybase is a free service that allows you to create a personalized view of Sybase Web pages.

- 1 Point your Web browser to Technical Documents at <http://www.sybase.com/support/techdocs/>.
- 2 Click MySybase and create a MySybase profile.

## 10.2 Sybase EBFs and software maintenance

### ❖ Finding the latest information on EBFs and software maintenance

- 1 Point your Web browser to the Sybase Support Page at <http://www.sybase.com/support>.
- 2 Select EBFs/Maintenance. If prompted, enter your MySybase user name and password.
- 3 Select a product.
- 4 Specify a time frame and click Go. A list of EBF/Maintenance releases is displayed.

Padlock icons indicate that you do not have download authorization for certain EBF/Maintenance releases because you are not registered as a Technical Support Contact. If you have not registered, but have valid information provided by your Sybase representative or through your support contract, click Edit Roles to add the “Technical Support Contact” role to your MySybase profile.

- 5 Click the Info icon to display the EBF/Maintenance report, or click the product description to download the software.

