# Release Bulletin PocketBuilder™ 2.0.3

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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.
- 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<sup>TM</sup> is a smart-client application development tool for Windows CE platforms. It enables developers to build handheld applications in an object-centric, graphical, desktop environment, and then deploy them to a supported device or emulator.

PocketBuilder version 2.0.3 (Build 864) is compatible with the following desktop platform and operating system configurations:

- Microsoft Windows 2000 with Service Pack 2 or later
- Microsoft Windows XP

PocketBuilder 2.0.3 2. Product summary

The principle runtime platforms for applications that you develop with PocketBuilder are Windows Mobile 5.0 and Windows Mobile 2003 Second Edition (Windows Mobile 2003 SE)—on Pocket PC and Smartphone devices. Support is also maintained for the Windows CE 3.0 platform on Pocket PC devices. Device and emulator support is listed in "Device and emulator support" on page 4.

New features are described in "Changed functionality in this version" on page 7. For a high-level product summary, see *Introduction to PocketBuilder* for PocketBuilder 2.0.

#### 2.1 Version contents

#### 2.1.1 Software used for database connection

PocketBuilder 2.0.3 has been tested with SQL Anywhere Studio® 9.0.1 and 9.0.2. The SQL Anywhere Studio setup includes Adaptive Server® Anywhere (ASA), a transaction-based, relational SQL database for the desktop and for Windows CE platforms. It also includes UltraLite®, a relational database expressly designed for small mobile and embedded devices.

The developer edition of SQL Anywhere Studio 9 is part of the PocketBuilder 2.0 installation. You can download the SQL Anywhere Studio EBFs for Windows CE and Windows x86 (desktop) from the EBF download site at http://downloads.sybase.com/swd/summary.dohttp://downloads.sybase.com/swd/summary.do.

## 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 Studio installation program.

#### 2.1.3 Generic skins for the Window painter

The PocketBuilder 2.0.3 setup program installs two generic skin files that you can use in the Window painter to frame the windows you create at design time. The Generic\_Phone\_Skin.xml file lets you display windows in a generic Smartphone skin and the Generic\_PPC\_Skin.xml file lets you display windows in a generic Pocket PC skin. The setup program installs these files in the PocketBuilder Support\IDE\_Skins directory. You can select a skin on the General page of the Options dialog box that you open from the Window painter's Design>Options menu.

## 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 ARM- and XScale-based devices supporting either Microsoft Windows CE 2002 or the Windows Mobile 2003 SE operating system, and for Windows Mobile 5.0 emulators
  - Supported devices include HP iPaq, Dell Axim, Toshiba e740, and Symbol PPT-8800.
- x86 for the Microsoft Pocket PC 2002 and Pocket PC 2003 emulators
- sparm for Smartphone 2003
  - Supported devices include Audiovox 5600, SPV C500, and Motorola MPx.
- spx86.CAB for Microsoft Smartphone 2003 emulators
- Windows CE for "bare" Windows CE devices
   Supported devices include HP Jornada and the Intermec 700 series bar code scanners.
- Windows CE x86 for "bare" Windows CE emulators

You can download software development kits (SDKs) which include supported emulators from links on the Microsoft Mobile Developer Center at <a href="http://msdn.microsoft.com/mobility/downloads/sdks/default.aspx">http://msdn.microsoft.com/mobility/downloads/sdks/default.aspx</a>. You can also install the Windows Mobile 5.0 emulators with Microsoft Visual Studio 2005.

#### 2.2.2 Debugging support

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

# 3. Special installation instructions

## 3.1 Installing on the desktop

The PocketBuilder 2.0.3 setup program is packaged in a zip file that you can obtain from the Sybase Web site and save to your hard drive.

You must install PocketBuilder 2.0.3 on top of an existing installation of PocketBuilder 2.0, 2.0.1, or 2.0.2. For information on installing PocketBuilder 2.0, see the *Installation Guide* for PocketBuilder 2.0. Use the following procedure to install PocketBuilder 2.0.3:

#### ❖ Installing PocketBuilder 2.0.3 on the desktop

- 1 Go to the Sybase product download site at http://www.sybase.com/downloads
- 2 Click the EBFs/Maintenance link under the list of downloads.

If you are not logged in to MySybase, a login page will display. The login page includes a Sign Me Up button link to open a MySybase account if you do not already have one. In some cases you are required to click Yes in a Securities Alert dialog box to continue to the download page after you log in. The EBFs/Maintenance download page displays a list of Sybase product families.

- 3 Click PocketBuilder in the list of Sybase product families.
- 4 Click PocketBuilder 2.0.3 (864) EBF Release.
- 5 Select the I Agree check box and click Continue on the license agreement page.
- 6 Click the *PocketBuilder203\_864.ZIP* file in the File list.
- 7 Click Save in the File Download dialog box, then select a directory on your hard drive where you want to save the zip file and click Save.
- Extract the *PocketBuilder203\_864.ZIP* file to a temporary directory. The extracted files include the setup program file, *Setup.exe*.

- 9 Run the Setup.exe file.
- 10 Select Install and click Next.

The setup program installs (or reinstalls) PocketBuilder 2.0.3.

- 11 Click Finish.
- 12 (Optional) Delete all the files you extracted to the temporary directory in Step 8.

## 3.2 Installing on a device or emulator

If you do not install PocketBuilder directly to a Pocket PC or Smartphone device when you run the setup program, you can manually copy and run CAB files that are installed in the *PocketBuilder 2.0\WinCE* directory.

The setup program places the following CAB files in the *PocketBuilder* 2.0\WinCE directory, overwriting earlier versions of the CAB files if necessary:

- PocketBuilder.ARM.CAB for Pocket PC 2002 or 2003 devices or Windows Mobile 5.0 emulators for the Pocket PC
- PocketBuilder.X86.CAB for Pocket PC 2002 or 2003 emulators
- *SP\_PocketBuilder.ARM.CAB* for Smartphone Windows Mobile 2003 devices or Windows Mobile 5.0 emulators for the Smartphone
- SP\_PocketBuilder.X86.CAB for Smartphone Windows Mobile 2003 emulators
- BW\_PocketBuilder.ARM.CAB for WinCE 3.x and 4.x, and WinCE .NET devices
- BW\_PocketBuilder.X86.CAB for WinCE 3.x and 4.x, and WinCE .NET emulators

To manually install PocketBuilder 2.0.3 to a device or emulator, you must copy the appropriate CAB file to the device or emulator, then run the CAB file.

#### Using the Start menu

Instead of copying and running a setup-generated CAB file, you can use the Start menu item (Start>Programs>PocketBuilder 2.0>Setup PocketPC or Start>Programs>PocketBuilder 2.0>Setup Smartphone) for installing PocketBuilder to a Windows CE device or to a Windows Mobile 5.0 emulator.

# 4. Changed functionality in this version

## 4.1 Support for Windows Mobile 5.0 emulators

You can deploy applications that you build with PocketBuilder 2.0.3 to Windows Mobile 5.0 emulators. After you connect and "cradle" a Windows Mobile 5.0 emulator to the desktop through ActiveSync, you can deploy applications to the emulator directly from the Project painter or the Enhanced CAB Generation tool—in the same way as you would to a Pocket PC or Smartphone device. You do not use the Windows CE File Viewer to copy application files as you would for the x86 (Pocket PC 2002 and Windows Mobile 2003) emulators.

## 4.2 Support for UltraLite 9.0.2

In the version of UltraLite installed with SQL Anywhere Studio 9.0.2, the lowercase -s parameter is used to define a database schema for a new database, but earlier versions required an uppercase -s. Because PocketBuilder remains in step with the latest database versions, the Database painter utility for creating an UltraLite database automatically inserts the parameter -s in front of the database schema that you select before it creates the database. Although this works for UltraLite 9.0.2, if you do not want to install the 9.0.2 EBF, you must change this parameter to -s and run the database creation script from a command line.

Even without the 9.0.2 EBF, you can still use the Database painter UI to obtain the UltraLite database creation script. After you run the utility to create an UltraLite base and it fails, the script used by the utility displays in the Output view in PocketBuilder. You can copy this script, modify the -s parameter, and run the script from a command line.

## 4.3 Fixed issues in PocketBuilder 2.0.3

The current release of PocketBuilder resolves multiple issues discovered in earlier releases.

For information about fixed change requests (CRs) in this release, see the fix list HTML file contained in the *PK203\_864.ZIP* file you download from the PocketBuilder download site at http://downloads.sybase.com. The fix list HTML file is also available from the PocketBuilder download site as a separate file.

5. Known problems PocketBuilder 2.0.3

# 5. Known problems

#### 5.1 Emulator issues

#### 5.1.1 Default shutdown of Pocket PC or Smartphone emulators

By default, when you shut down an x86 (Pocket PC 2002 or Windows Mobile 2003) emulator, the emulator does not save its state. If you do not save the emulator state, you lose any files you exported to the emulator prior to the shutdown, including the PocketBuilder VM.

To avoid this, you must select Save Emulator State after you click the Emulator>Shut Down menu item. If you shut down the emulator without saving its state, you need to re-export the CAB file with the PocketBuilder VM to the Windows directory on the emulator, then run the CAB file again.

The Windows Mobile 5.0 emulators prompt you to save the emulator state when you exit the emulator.

#### 5.1.2 Default memory configuration on the supported Pocket PC emulators

If you run ASA applications on the Pocket PC 2002 emulator, you must change the default memory configuration. You can increase the memory available to the emulator by increasing the Memory value for the following registry key:

```
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows CE Tool\
Platform Manager\
{F384D888-F9AA-11D1-BB9E-00A0C9C9CCEE}\
{DE9660AC-85D3-4C63-A6AF-46A3B3B83737}\
{F384D894-F9AA-11D1-BB9E-00A0C9C9CCEE}\
{67C8D913-F0CF-486A-8CF0-CE7D116225E8}
```

There is a similar, but different, setting for the Pocket PC 2003 emulator. Sybase recommends that you increase this value from 16MB to 64MB.

PocketBuilder 2.0.3 5. Known problems

#### 5.2 PocketBuilder issues

#### 5.2.1 Enabling Manual Result Set with a 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 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]

#### 5.2.3 Creating a DataWindow with QuickSelect data source and a new database

Creating a new DataWindow using the Quick Select data source and a newly created ASA database causes the DataWindow creation wizard to fail. The error message indicates a syntax error or access violation. [CR 380151]

#### 5.2.4 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]

#### 5.2.5 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]

#### 5.2.6 Smartphone CAB files do not include 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 *PKODB20.DLL* file required for ODBC database connections. If you use an ODBC connection to an ASA database in an application, you must manually copy the *PKODB20.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 *PKODB20.DLL* file from the PocketBuilder 2.0\WinCE\sparm directory to the Smartphone device where you deploy your application, or from the PocketBuilder 2.0\WinCE\spx86 directory to a Smartphone emulator. If you use the Enhanced CAB Generation tool, you must select the Include PocketBuilder Support DLLs check box on the PocketBuilder Options tab page.

UltraLite connections do not require the *PKODB20.DLL* file. The *PKUL20.DLL* file required for UltraLite connections is included automatically in the CAB files you generate from the Project painter. [CR 371146]

#### 5.2.7 Calling a deeply 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]

#### 5.2.8 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]

#### 5.2.9 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 Studio

PocketBuilder 2.0.3 has been tested with Sybase SQL Anywhere Studio 9.0.1 and 9.0.2; 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.

## 6.2 ActiveSync software

Microsoft ActiveSync is required for transferring applications to your mobile device. ActiveSync 3.8 is available as a free download on the Microsoft Web site at http://www.microsoft.com/mobile/pocketpc/downloads/default.asp.

# 7. Documentation updates

## 7.1 PocketBuilder 2.0.3 collection

PocketBuilder documentation is available on the Sybase InfoCenter Web site at http://infocenter.sybase.com/help/index.jsp. Except for this Release Bulletin, none of the books in the PocketBuilder 2.0.3 collection has been updated from the previous release.

All books will be updated with the next major version of PocketBuilder.

#### 7.2 Online Help for PocketBuilder 2.0.3

Online Help has been updated for PocketBuilder 2.0.3. It is included in the download ZIP file.

# 8. Migration information

Migration of a Pocket PowerBuilder 1.x application occurs automatically when you open the application in PocketBuilder 2.0.3. No migration is required for PocketBuilder 2.0, 2.0.1, or 2.0.2 applications.

## 8.1 Conversion of PowerBuilder applications

You can use the Import Pocket to CE wizard to convert an existing PowerBuilder 7, 8, 9, or 10 application to a PocketBuilder 2.0.3 application. For more information, see Appendix B in the PocketBuilder *User's 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<sup>TM</sup> CD, and the Technical Library 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 is downloadable 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 technical information about your product in an easy-to-use format.

The Technical Library Product Manuals Web site is an HTML version of the SyBooks CD that you can access using a standard Web browser. In addition to product manuals, you will find links to the Technical Documents Web site (replacement for the Tech Info Library), the Solved Cases page, and Sybase newsgroups.

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

## 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 Select Products from the navigation bar on the left.
- 3 Select a product name from the product list and click Go.
- 4 Select the Certification Report filter, specify a time frame, and click Go.
- 5 Click a Certification Report title to display the report.

# 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.

- 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.