

# Release Bulletin PocketBuilder™ 2.1

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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 2.1 (Build 1019) 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

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### **Windows Vista**

You must have administrator status to install PocketBuilder on Windows Vista. Although the current release of PocketBuilder is not officially supported on Windows Vista, initial testing has not found any major incompatibilities.

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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 Windows XP and Windows 2003.) 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.

#### Supported runtime platforms

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.

## 2.1 Version contents

### 2.1.1 Software used for database connection

PocketBuilder 2.1 has been tested with Adaptive Server® Anywhere 9 and its more recent version, SQL Anywhere® 10. These are transaction-based, relational SQL databases for the desktop and for Windows CE platforms. Alternatively, you can use UltraLite®, a relational database expressly designed for small mobile and embedded devices, with your PocketBuilder applications.

The developer edition of SQL Anywhere Studio® 9 is part of the PocketBuilder 2.0 installation. It includes Adaptive Server Anywhere 9 and UltraLite 9, as well as MobiLink™ 9. Upgrade information is available from the Sybase iAnywhere Web site at [www.iAnywhere.com](http://www.iAnywhere.com).

PocketBuilder assumes SQL Anywhere Studio 9 as the default version for application database connections. If you upgrade to version 10, you must include the version driver information in your data source name files or DBParm connection strings.

You should use the same version of SQL Anywhere or Adaptive Server Anywhere 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 2.1, 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. However, the UltraLite Synchronization wizard has not been updated for 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.

**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 2.0 WinCE directory. The CAB files and subdirectories labeled “x86” and “spx86” are left behind from the PocketBuilder 2.0 installation and are no longer supported.

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>

You might also 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 Development 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

### 3.1 Installing on the desktop

The PocketBuilder 2.1 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 2.1 on top of an existing installation of PocketBuilder 2.0, 2.0.1, 2.0.2, 2.0.3, or 2.0.4. For information on installing PocketBuilder 2.0, see the *Installation Guide* for PocketBuilder 2.0. Use the following procedure to install PocketBuilder 2.1:

#### ❖ Installing PocketBuilder 2.1 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 2.1 (1019) Maintenance Release.
- 5 Select the I Agree check box and click Continue on the license agreement page.
- 6 Click the *PocketBuilder21\_1019.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.
- 8 Extract the *PocketBuilder21\_1019.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 2.1.

- 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\_Signed.ARM.CAB* for Windows Mobile 5 and 6 Pocket PC devices and emulators
- *PocketBuilder.ARM.CAB* for Pocket PC 2002 or 2003 devices or WM 2003 SE, WM 5, or WM 6 devices and emulators
- *SP\_PocketBuilder.ARM.CAB* for Smartphone 2003 devices or Smartphone devices or emulators using WM 2003 SE, WM 5, or WM 6 operating systems
- *BW\_PocketBuilder.ARM.CAB* for WinCE 3.x and 4.x, and WinCE .NET devices

Additional CAB files are left on your disk from earlier releases of PocketBuilder that are obsolete in the current release. The *PocketBuilder.X86.CAB* and *SP\_PocketBuilder.X86.CAB* files are not supported in PocketBuilder 2.1.

To manually install PocketBuilder 2.1 to a device or emulator, you must copy the appropriate CAB file to the device or emulator, then run the CAB file.

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### Using the Start menu

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

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For additional information about installing or removing PocketBuilder, see the *Installation Guide* for PocketBuilder 2.0 on the Sybase InfoCenter Web site at <http://infocenter.sybase.com/help/index.jsp>.

## 4. Changed functionality in this version

The “What’s New in PocketBuilder” section of PocketBuilder Help describes features added or modified in each release from PocketBuilder 2.0 to PocketBuilder 2.1. You can open the Help file from the Windows Start menu by selecting Start>Programs>Sybase>PocketBuilder 2.0>Online Help.

## 5. Known problems

### 5.1 General issues

#### 5.1.1 Menu items for formatting controls in the DataWindow painter

On Windows XP, Windows 2003, and Windows Vista machines, the Format>Align, Format>Border, Format>Size, and Format>Space cascading menu items are difficult to distinguish. You can see the cascading menu icons, but not the menu labels, by adding the following line to the [pb] section of the *PK.INI* file: `xPStyl1eTB = 0`. (This setting does not take effect until you restart PocketBuilder.) Otherwise, you might have to format DataWindow controls manually by dragging them or their borders.

On Windows 2000, the cascading menu item icons and labels display normally by default. [CR 470447]

#### 5.1.2 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]

#### 5.1.3 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]

### 5.1.4 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]

### 5.1.5 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]

### 5.1.6 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 database causes the DataWindow creation wizard to fail. The error message indicates a syntax error or access violation. [CR 380151]

## 5.3 Deployment and debugging issues

### 5.3.1 Registry keys for SQL Anywhere 10 differ on devices and desktop

The MobiLink Synchronization for ASA wizard lets you select the 8, 9, or 10 versions of SQL Anywhere Studio that you want to use for your database and synchronization connections. If you select version 10, the wizard-generated script that starts the synchronization uses the registry key on the desktop (“HKEY\_LOCAL\_MACHINE\Software\Sybase\SQL Anywhere\10.0”) to locate SQL Anywhere drivers and executable files. However, the registry key for SQL Anywhere 10 on a handheld device is “HKEY\_CURRENT\_USER\Software\Sybase\SQL Anywhere\10.0”.

Therefore, if you use the MobiLink Synchronization for ASA wizard to generate objects and script for MobiLink 10 synchronization, you must modify the script before you deploy the objects to a handheld device or emulator. The script you need to modify is in the `determine_asa_regpath` function of the user object generated by the wizard. [CR 472528]

### 5.3.2 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 *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 *PKODB920.DLL* or *PKODB1020* 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]

### 5.3.3 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 2.1 has been tested with Sybase SQL Anywhere Studio 9.0 and 10.0; 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. You can download the latest ActiveSync version from a link on the Microsoft Web site at

<http://www.microsoft.com/windowsmobile/activesync/default.msp>.

## 7. Documentation updates and clarifications

PocketBuilder documentation is available on the Sybase InfoCenter Web site at <http://infocenter.sybase.com/help/index.jsp>. The PocketBuilder 2.1 collection currently includes this Release Bulletin only, but you can check the Web site for planned updates to the core PocketBuilder documentation.

The following books have been updated in the compiled HTML Help for the current release: *Introduction to PocketBuilder*, *User's Guide*, and *Resource Guide*. Windows Help for the reference collection has also been updated. The reference collection includes the *Objects and Controls*, *PowerScript Reference*, *DataWindow Reference*, and *Connection Reference* books.

## 8. Migration information

An existing PocketBuilder 2.0.x application does not require migration for PocketBuilder 2.1. You can freely use a PocketBuilder 2.0 application in a 2.1 environment. However, a full build is recommended after you move an application to a different version of PocketBuilder.

### 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 2.1 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™ 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/>.

- 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 2.0>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 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.

- 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.