

SYBASE®

Installation Guide

PocketBuilder™

2.0

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About This Book

Audience	This book is for anyone installing PocketBuilder™.
How to use this book	Read this book before you run the setup program to install PocketBuilder. You can also install Sybase® Adaptive Server® Anywhere from the PocketBuilder setup program.
Related documents	<p>PocketBuilder documentation The PocketBuilder documentation set includes the following manuals:</p> <ul style="list-style-type: none">• <i>Introduction to PocketBuilder</i> - Provides an overview of the features of PocketBuilder and includes a tutorial that leads the new user through the basic process of creating and deploying a PocketBuilder application that includes database synchronization through MobiLink.• <i>User's Guide</i> - Provides an overview of the PocketBuilder development environment and explains in detail how to use the PocketBuilder user interface, which allows you to create and deploy applications to a supported Windows CE device or emulator. It describes basic techniques for building the objects in a PocketBuilder application, including windows, menus, DataWindow® objects, and user-defined objects.• <i>Resource Guide</i> - Presents advanced programming techniques and information about connecting to and synchronizing with a database. <p>The PocketBuilder reference set is made up of four manuals that are based on PowerBuilder® documentation:</p> <ul style="list-style-type: none">• <i>Connection Reference</i> - Describes the database parameters and preferences you use to connect to a database in PocketBuilder.• <i>DataWindow Reference</i> - Lists the DataWindow functions and properties and includes the syntax for accessing properties and data in DataWindow objects.

-
- *Objects and Controls* - Describes the system-defined objects and their default properties, functions, and events.
 - *PowerScript Reference* - Describes syntax and usage for the PowerScript® language including variables, expressions, statements, events, and functions.

SQL Anywhere® Studio documentation PocketBuilder is tightly integrated with Adaptive Server Anywhere (ASA), UltraLite®, and MobiLink, which are components of SQL Anywhere Studio. You can install these products from the PocketBuilder setup program. Documentation for SQL Anywhere Studio products is included in a separate collection on the PocketBuilder SyBooks™ CD and in online Help. For an introduction to these products, see Chapter 1 in the *Introduction to PocketBuilder*.

Windows CE documentation If you do not have a basic familiarity with Windows CE devices, you might want to consult a book that describes them. For information about developing applications for Microsoft Windows CE, see the Microsoft Windows CE documentation at <http://msdn.microsoft.com/library/default.asp?url=/library/en-us/wceintro/html/cestart.asp>. You can also find helpful information at the Pocket PC Developer Network Web site at <http://www.pocketpcdn.com>.

Sample applications

The PocketBuilder installation provides a Code Examples workspace with targets that illustrate many of the product's features. Commented text inside events of target objects helps explain the purpose of the sample code. The example workspace is installed in the Code Examples subdirectory under the main PocketBuilder directory.

More applications on the Web

You can find more sample PocketBuilder applications and techniques in the PocketBuilder project on the Sybase CodeXchange Web site at <http://pocketpb.codexchange.sybase.com/>. There is a link to this page on the Windows Start menu at Program Files>Sybase>PocketBuilder 2.0>Code Samples.

If you have not logged in to MySybase, you must log in to the Sybase Universal Login page to access CodeXchange. If you do not have a MySybase account, you can sign up. MySybase is a free service that provides a personalized portal into the Sybase Web site.

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/>.

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.

Sybase EBFs and software updates

❖ 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.

If you need help

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 cannot resolve a problem using the manuals or online help, please have the designated person contact Sybase Technical Support or the Sybase subsidiary in your area.

Installing PocketBuilder

About this book

This book explains how to install PocketBuilder 2.0 on Windows 2000 and Windows XP, and how to install the PocketBuilder VM on Windows CE platforms.

About PocketBuilder

PocketBuilder is a smart-client application development tool for the Windows CE platform. It enables developers to build handheld applications in an object-centric, graphical, desktop environment and deploy them to a supported Pocket PC device or emulator.

The PocketBuilder installation program installs the PocketBuilder development environment on your desktop computer. It can also install required files on a Pocket PC or Smartphone device connected to your desktop and create installation files for Pocket PC and Smartphone emulators.

Adaptive Server Anywhere

When you install PocketBuilder, you can also install Sybase Adaptive Server Anywhere (ASA), a fully featured relational database and data management tool, to your desktop and to a Windows CE device or emulator. The ASA installation is restricted to development use only. Deployed systems require a separate ASA license or the ASA Runtime Edition (see “ASA Runtime Edition” on page 2).

The ASA installation includes MobiLink, a session-based synchronization system that allows two-way synchronization between a main database and many remote databases, and the Sybase Central™ database management tool.

ASA supports MobiLink synchronization with ASA databases running on the operating systems listed in Table 1-2 on page 3, and on Novell NetWare Version 4.11, 4.2, or 5.x and several UNIX platforms, including Linux. ASA also supports MobiLink synchronization with Sybase Adaptive Server Enterprise, Oracle, IBM DB2 UDB, and Microsoft SQL Server databases running on multiple platforms.

ASA Runtime Edition	<p>PocketBuilder also includes the Adaptive Server Anywhere for Windows CE royalty-free runtime edition (the “ASA Runtime Edition”). The ASA Runtime Edition is a restricted-functionality version of the standalone version of Adaptive Server Anywhere. For example, the ASA Runtime Edition does not support stored procedures and triggers, transaction logs, or synchronization.</p> <p>The ASA Runtime Edition is installed in the <i>Support\ASA_CE_Runtime</i> directory in your PocketBuilder installation. For more information, including the list of Redistributable Components of the ASA Runtime Edition, see the <i>Read Me First</i> document in that directory.</p>
Getting Started and Technical Library CDs	<p>In addition to the PocketBuilder installation CD, the PocketBuilder software package includes the Sybase Getting Started CD and the Sybase Technical Library CD. For more information about these CDs, see “Other sources of information” on page vii.</p>

System and software requirements

This section provides system and software requirements for PocketBuilder and ASA. You will probably need to install both PocketBuilder and ASA, so you should consider their combined system requirements.

The disk space requirements provided are approximate. The actual disk space you need for each tool might vary depending on hard disk size, partitioning, and the features you choose to install. Additional temporary space is required on the hard disk during installation for uncompressing install files.

PocketBuilder system requirements

Table 1-1 shows system requirements for the PocketBuilder development and runtime environments.

Table 1-1: System requirements for PocketBuilder

System component	Development environment	Runtime environment
Operating system	Windows 2000 with Service Pack 2 or Windows XP	Pocket PC running Windows CE 3.0 or higher and Smartphone running Windows CE 4.2 or higher
CPU	Pentium class or equivalent running at 400 MHz (or greater) with SVGA monitor	ARM processor on a device such as the Motorola MPx200 Smartphone, the Hewlett-Packard iPaq, Dell Axim, or Toshiba e740 Pocket PC, or a Windows CE emulator
Minimum memory (program memory on the Pocket PC or Smartphone)	64MB (128MB recommended)	32MB in addition to memory required by other running programs
Minimum disk space (storage memory on the Pocket PC or Smartphone)	47MB (104MB for a full installation including code examples)	5.2MB for the PocketBuilder VM on a Pocket PC device; 2MB for the PocketBuilder VM on a Smartphone

Adaptive Server Anywhere system requirements

Table 1-2 shows system requirements for ASA. The CPU and memory shown for the development environment are required for SQL Anywhere® Studio administrative tools.

Table 1-2: System requirements for ASA

System component	Development environment	Runtime environment
Operating system	Windows 95, Windows 98, Windows Me, Windows NT with Service Pack 5 or later, Windows 2000, or Windows XP	Windows CE 3.0 or later
CPU	Pentium class or equivalent running at 166 MHz (or greater) with SVGA monitor	MIPS processor, ARM processor, x86 processor, or Windows CE emulator
Minimum memory (program memory on the Pocket PC or Smartphone)	48MB in addition to memory required by the operating system	32MB in addition to memory required by other running programs
Minimum disk space (storage memory on the Pocket PC or Smartphone)	41MB for ASA only, 113 MB for the default installation including MobiLink synchronization files, tools, and documentation	4.3MB

Required software

Microsoft ActiveSync Microsoft ActiveSync is required for communication between your desktop and mobile device. To install PocketBuilder and ASA directly to a Pocket PC device, install ActiveSync before running the PocketBuilder or ASA installation program.

ActiveSync is available with Windows CE devices and for download from the Microsoft Windows Mobile download site at <http://www.microsoft.com/mobile/pocketpc/downloads/default.asp>.

Optional software

Windows CE emulators PocketBuilder supports deployment to Pocket PC 2002 and 2003 emulators, and to Smartphone 2003 emulators. Several of these emulators are available in Software Development Kits on the Microsoft Web site at <http://msdn.microsoft.com/mobility/downloads/sdks>.

BioApi driver for fingerprint scanning applications If you plan to develop fingerprint scanning applications for hp IPAQ h5500 or h5550 Pocket PC devices, you must install the BIOAPI.DLL on the client devices.

For information about installing this DLL, see “Installing a DLL for the HPBiometricScanner object” on page 15.

Pre-installation tasks

Before you install PocketBuilder, you need to perform the following tasks:

- Read the *Release Bulletin* for the latest information on the products that you are installing. The *Release Bulletin* is available on the Getting Started CD.

Release bulletins are also available at Sybase Technical Documents at <http://www.sybase.com/support/techdocs/>. The *Release Bulletin* at this site sometimes contains more recent information than the bulletin on the Getting Started CD.

A *readme.txt* file for Adaptive Server Anywhere is available in the \ASAnywhere9 directory on the CD. A *readme.txt* file for Adaptive Server Anywhere for Windows CE is available in the \ASAnywhere9\anywhere\ce directory on the CD.

- Make sure the drive where you intend to install PocketBuilder is not compressed. If compression is enabled on the installation drive, the setup program fails.
- Make sure you have a TEMP environment variable that points to an existing directory location with at least 300MB free space. The setup programs write files to this directory during the installation and free the space after the installation is complete.
- If you installed a beta release of PocketBuilder, uninstall it.

Installing PocketBuilder

To install PocketBuilder, run the setup program on the PocketBuilder CD. The setup program installs PocketBuilder in default drives and directories unless you specify otherwise. If a directory you specify does not exist, the setup program creates it.

Installation options

You can choose the complete or custom installation options in the setup program. Table 1-3 lists the components that you can install with PocketBuilder.

Table 1-3: Components you can install with PocketBuilder

Component	Description
PocketBuilder 2.0 IDE	Development environment and supporting files
Code Examples	Sample applications that demonstrate PocketBuilder techniques and features
Deployment Device Manual Install	Individual platform-specific PocketBuilder VM (PKVM) files that can be installed manually
SQL Anywhere 9 (Developer Edition)	Setup program for the ASA database management system, MobiLink, UltraLite, and a single-license version of ASA for Windows CE devices
ASA WinCE Royalty Free Runtime	Restricted version of the ASA database for Windows CE platforms

Component	Description
PocketBuilder CABs for Deployment	CAB files that can be used to install the PKVM to a Pocket PC or Smartphone device
Documentation	Online Help files for PocketBuilder

Installation procedure

The installation procedure that follows assumes you are installing from the PocketBuilder CD. If you are a system administrator and your site has multiple licenses, you might want to allow users to install PocketBuilder from a network drive instead. To do this, copy the files from the CD into a directory on a network drive. Users can then install PocketBuilder by running the setup program from the network.

You must have administrative privileges to fully install this product. If you are installing PocketBuilder for other users, make sure those users have write permission for the PocketBuilder 2.0 directory and the Windows registry.

❖ To install PocketBuilder:

- 1 Exit any programs that are running.
If you do not, the setup program might not be able to copy some files to the appropriate directories.
- 2 Insert the CD into your CD-ROM drive and double-click the *setup.exe* program from the root directory if the Sybase PocketBuilder Install wizard does not start automatically.
- 3 On the License Agreement page, select your country or region, read the license, select the radio button to agree to the terms of the license, and click Next.

Back and Next

Use the Back and Next buttons to step backward and forward through the wizard to modify specifications as necessary.

- 4 On the Setup Type page, select the type of setup you want, accept the default folder location or browse to the folder where you want to install PocketBuilder, and click Next.

- 5 If you selected Custom, clear the check box on the Select Components page for any component that you do not want to install and click Next.
If you elect to install SQL Anywhere 9 in a Custom install, or if you select a Complete install, the setup program automatically starts the installation program for SQL Anywhere after installing PocketBuilder files.
- 6 On the Start Copying Files page, review your settings, then click Next to install the PocketBuilder files (or click Back to change your selections).
- 7 On the Deploy to the Device page, select one of the three deployment options and click Next.

The three deployment options are:

- Deploy to a Pocket PC device
- Deploy to a Smartphone device
- Don't deploy anything right now

To install PocketBuilder directly to a device, you must have Microsoft ActiveSync installed and running on the desktop computer and the device, and the device must be connected. For the setup program to create desktop Start Menu links for deploying PocketBuilder to a device, you must have ActiveSync installed.

If you want to install PocketBuilder to a device at a later time without using the Start Menu links, or to deploy PocketBuilder to an emulator, you can manually copy CAB files generated by the setup program. For more information, see “Copying files to a device or emulator” on page 12.

Smartphone device and emulator considerations

For a Smartphone device with a limited amount of available space, you might need to copy the PocketBuilder VMs manually rather than using the Start Menu links or manually copying the CAB file. Even if you install PocketBuilder to a mounted storage card, unpacking the CAB file requires temporary space in the main storage area.

If you do not have a file management program on your Smartphone device or emulator, you can copy the CAB file to the \Storage\Windows\Start Menu\Accessories folder. You can then display the CAB file by selecting Accessories from the Start menu and unpack the CAB file by pressing (on the Smartphone device) or clicking (on the Smartphone emulator) the Action button.

The setup program copies the required files to the device, then displays the Application Downloading Complete dialog box.

If there is no device connected, the setup program installs a Windows CE setup program in the *PocketBuilder 2.0\WinCE* directory. This setup program is launched automatically the next time the device is connected.

- 8 If you selected an option to install to a device in the previous step, click Yes at the prompt to install PocketBuilder to the default directory. If a message box displays on the device, tap OK (Pocket PC) or press the Action button (Smartphone) to complete the installation.
- 9 Unless you selected a Custom installation in step 5 and cleared the check box to install Adaptive Server Anywhere in step 6, the SQL Anywhere 9 setup program starts.

Follow the directions in “Installing Adaptive Server Anywhere” next.

- 10 On the first InstallShield Wizard Complete page, choose whether to read the Readme file and click Finish.
- 11 On the second InstallShield Wizard Complete page, select whether to restart your computer now or later, remove the CD from the CD-ROM drive, and click Finish.

You need to restart your computer only if you installed ASA from the setup program.

Installing Adaptive Server Anywhere

The Adaptive Server Anywhere setup program installs ASA in default drives and directories unless you specify otherwise. If a directory you specify does not exist, the setup program creates it.

❖ **To install ASA:**

- 1 On the Welcome page, click Next. On the License Agreement page of the setup program, read the license agreement, select the radio button to accept the terms of the agreement, and click Next.
- 2 On the Choose Location page, click Next to accept the destination folder path shown, or click Browse to select a different path for all the modules, click OK, and click Next.

- 3 On the Choose Shared Components Location page, click Next to accept the destination folder path shown, or click Browse to select a different path for shared files, click OK, and click Next.
- 4 On the Select Components page, you can click any of the components to display a description. Select the components you want to install, clear the check marks for the components you do not want to install, and click Next.
- 5 On the Select Program Folder page, select the program folder to which program icons will be added, specify a new one, or leave the default unchanged and click Next.
- 6 On the Start Copying Files page, review your settings, then click Next to begin installing files or Back to change your selections.

The next steps in the installation depend on selections you made in step 4.

If you selected this in step 4	Go to
Documentation but not ASA for Windows CE	Step 7, then skip step 8
Documentation and ASA for Windows CE	Steps 7, 8, and 9
ASA for Windows CE but not Documentation	Steps 8 and 9
Neither Documentation nor ASA for Windows CE	Step 9

- 7 Select the documentation components you want to install and click Next twice to install the documentation, or click Cancel to continue without installing any documentation.

If you selected Adaptive Server Anywhere for Windows CE in step 4, the Confirm Launch of External Install page displays.

- 8 Select Install to install ASA to a device or emulator or select Skip to continue.

If you select Install, the SQL Anywhere 9 for Windows CE Install wizard opens. For how to complete the wizard, see “Installing ASA on a device or emulator” next.

- 9 On the Setup Complete page, select the check box if you want to view the iAnywhere Online Resources page and click Finish to return to the final step of the PocketBuilder setup program.

Installing ASA on a device or emulator

The SQL Anywhere 9 for Windows CE setup program is launched automatically when you select the Windows CE check box in the SQL Anywhere 9 setup program.

If you want to install ASA directly to a device, ActiveSync must be installed and running on your desktop computer and on the device.

Each time you run the setup program, you can install to a device or to one of the emulators. If you want to install to a device *and* an emulator, install to the device, then run the *setup.exe* program from the *asanywhere9\anywhere\ce* directory on the CD and select the emulator.

Installing UltraLite on a device or emulator

The UltraLite DLL and EXE files are not installed by default with the SQL Anywhere 9 for Windows CE setup program. For a Pocket PC or Smartphone device, you can copy these files manually from the ARM and ARM\LIB subdirectories in the desktop SQL Anywhere 9\UltraLite\CE\ path. For an emulator, you can copy these files from the 386 and 386\LIB subdirectories in the SQL Anywhere 9\UltraLite\CE\ path. You copy the files to the \Windows directory on a Pocket PC emulator, and to the \Storage\Windows directory for a Smartphone device or emulator. You do not need to install ASA on a device or emulator to use the UltraLite DBMS.

❖ To install ASA on a Windows CE device or emulator:

- 1 If you are continuing the installation directly from the SQL Anywhere 9 setup program, skip immediately to step 2
or
If you have already installed ASA on the desktop with the PocketBuilder setup program, select Programs>Sybase>SQL Anywhere 9>Deploy SQL Anywhere for Windows CE from the desktop Start menu, then skip to step 5
or
Double-click *setup.exe* in the *ASAnywhere9\anywhere\ce* directory on the PocketBuilder CD, select the country or region where you are located, read the licence agreement, and click Next.
- 2 On the Choose Destination Location page, click Next to accept the destination folder path shown, or click Browse to select a different path for the Windows CE modules, click OK, and click Next.

- 3 On the Select Components page, select the device and/or emulation environments to which you want to install. Select other components as needed, click Next, then click Next on the Start Copying Files page.
The setup program installs the desktop portion of ASA on your computer.
- 4 On the Install Shield Wizard Complete screen, select the check box to install ASA directly to your device or emulator, then click Finish.
- 5 On the Deploy SQL Anywhere for Windows CE page, select the device or emulator on which you want to install ASA.

ActiveSync not detected error

When no device is connected, or ActiveSync is not running, the setup program attempts to connect to the Pocket PC emulator using ActiveSync and fails. Select No when the setup program asks if you would like to try again. The setup program displays a message box indicating that it will build a CAB file. Click OK to create the CAB file.

If you want to install to both a device and an emulator, select Mobile Device to install to the device. You can install to the emulator later. To install to an emulator when you have a connection to a device, you must first disconnect the device.

For information about copying the CAB file to the emulator, see “Copying files to a device or emulator” next.

- 6 On the Choose Destination Location for Device page, click Next to accept the default folder path shown.
- 7 On the Select Components page, select the components you want to install, and click Next.
- 8 On the Review Settings Before Building the CAB File page, review your settings, then click Next to begin installing files or Back to change your selections.
- 9 On the InstallShield Wizard Complete page, select the check box to deploy to the connected device now and click Next.
- 10 On the Installing Applications dialog box, click Yes to install ASA in the default directory.

The setup program copies the required files to the connected device or emulator, or builds a CAB file for the specified platform, then displays the Application Downloading Complete dialog box.

- 11 Click OK and Finish.

If you entered the SQL Anywhere 9 for Windows CE setup program from the desktop ASA setup program, you return to the Setup Complete page of the ASA setup program.

- 12 If you installed ASA on a device and a response window displays, tap OK to complete the installation.

Copying files to a device or emulator

If you select a complete installation, or if you select Pocket PC Manual Install on the Select Components page in a custom installation, the PocketBuilder setup program installs the PocketBuilder VM (PKVM) files and *applist.exe* in a platform-specific subdirectory of the *PocketBuilder 2.0\WinCE* directory. *Applist.exe* is a program that makes it easier to locate and launch applications you build with PocketBuilder.

If you choose to install to a device or emulator, the PocketBuilder setup program installs a CAB file for each of the devices or emulators you selected. Each CAB file contains *applist.exe* and the PKVM files for a specific platform. The following CAB files are installed in the *PocketBuilder 2.0\WinCE* directory:

- *PocketBuilder.ARM.CAB* for the Pocket PC device
- *PocketBuilder.X86.CAB* for the Pocket PC 2002 or 2003 emulator
- *SP_PocketBuilder.ARM.CAB* for the Smartphone device
- *SP_PocketBuilder.X86.CAB* for the WM 2003 SE Smartphone emulators

You can copy the CAB files or the individual PKVM files to a device or emulator. Make sure that you copy the correct CAB file to the device or emulator where you want to install the PKVM.

For information on downloading the emulators, see “Optional software” on page 4.

Instead of copying files manually, you can launch a setup program from the desktop Start menu to install PocketBuilder to a Windows CE device. You can use the Start>Programs>Sybase>PocketBuilder 2.0>Setup PocketPC or the Start>Programs>Sybase>PocketBuilder 2.0>Setup Smartphone command to install PocketBuilder to a Windows CE device.

The ASA setup program also installs files that you can copy to a device or emulator in platform-specific subdirectories of the *SQL Anywhere 9\ce* directory.

The following procedures describe how to copy files to a device or emulator.

- ❖ **To copy files to a Pocket PC or Smartphone device using ActiveSync and Windows File Explorer:**
 - 1 On your desktop, open ActiveSync and click the Explore button.
Explorer opens with Mobile Device as the current address.
 - 2 Use the Up button in Explorer to navigate to the directory where the file or files are located, select them, and select Edit>Copy.
 - 3 Use the Address drop-down list to return to the Mobile Device directory.
 - 4 Double-click My Pocket PC and navigate to the directory where you want to copy the files.
DLL files must be installed in the *\Windows* directory.
 - 5 Select Edit>Paste to install the files.
 - 6 If you copied a CAB file, select Programs>File Explorer from the Start menu on the device, navigate to the directory where you copied the file, and tap it to install its contents.

- ❖ **To copy files to a Pocket PC or Smartphone emulator using the Windows CE Remote File Viewer:**
 - 1 On your desktop computer, open *cefilevw.exe* and select the device or emulator to which you want to copy files.
By default, the *cefilevw* tool is installed in *C:\Program Files\Windows CE Tools\Common\Platman\bin* when you install the Pocket PC or Smartphone Software Development Kit.
 - 2 Navigate to the directory to which you want to copy a file.
DLL files must be installed in the *\Windows* directory.
 - 3 Click the Export File button (a yellow Up arrow) on the toolbar.
 - 4 In the Export File dialog box, navigate to the directory where the first file you want to copy is located, select the file, and click Open.
The Remote File Viewer copies the file.
 - 5 Repeat steps 2 to 4 for any additional files you want to copy.

- 6 If you copied a CAB file, select Programs>File Explorer from the Start menu on the device or emulator, navigate to the directory where you copied the file, tap it (Pocket PC device), select it using the Action button (Smartphone), or click it (on the emulator) to unpack the CAB file and install the PocketBuilder VM.

Copying CAB files to the Pocket PC 2002 or 2003 emulator

If a CAB file is too large to copy, you can change the default memory configuration for the Pocket PC 2002 or 2003 emulator in the Windows registry. For instructions, see the Release Bulletin. When you shut down the emulator, make sure you select Save Emulator State. By default, files that you copy to the emulator are deleted when you shut it down.

What the setup program does

On your desktop computer, the setup program does the following:

- Installs Sybase files in a *Sybase* directory
- Creates a program group and icons for each product installed
- Creates uninstall files to identify what needs to be removed if you uninstall a product
- Makes changes to the Windows registry
- Creates or updates INI files including *PK.INI*

Registry changes

The setup program makes the following changes to the Windows registry:

- Creates or updates the Sybase key in *HKEY_CURRENT_USER\Software* and *HKEY_LOCAL_MACHINE\Software*
- Adds the appropriate paths to the registry path *HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\App Paths*
- Adds the paths to compiled HTML Help files to the registry path *HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\HTMLHelp*
- Adds the paths to Windows Help files to the registry path *HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\Help*

Adding PocketBuilder components later

You can install additional components by running the setup program again.

❖ **To add one or more components to your installation:**

- 1 Insert the PocketBuilder CD in your CD-ROM drive and run the *setup.exe* program.
- 2 On the Welcome page, select Modify and click Next.
- 3 On the Select Components page, select the components you want to add, *select any components that you have already installed* that you do not want to remove, and click Next.

If you clear the check box for any of the components on this page, apart from Adaptive Server Anywhere, the component will be removed. If you select the check box for a component that has already been installed, it is not reinstalled.

Installing a DLL for the HPBiometricScanner object

If a PocketBuilder application that you develop uses the HPBiometricScanner object for fingerprint scanning, you must install the BIOAPI.DLL on client devices.

❖ **Obtaining and installing the BIOAPI.DLL file**

- 1 Register with the iPAQ Developer Program on the Hewlett-Packard Website at http://h71018.www7.hp.com/hp_ids/login.aspx.

A Developer-level membership is currently required to obtain the BIOAPI.DLL file.

- 2 Log in and go to the Technical Tools>Technical Documents page.
- 3 Select iPAQ SDK to open the HP iPAQ Downloads page.

In the menu pane, expand the Technical Downloads>iPAQ Pocket PC SDK node and select the iPAQ Pocket PC h5400 Series link.

- 4 Click the Biometric API Library and Sample entry under the Online Support tab of the main download page.

A message box prompts you to open or save the biometric API library and sample zip file.

- 5 Unzip the sample zip file to a local directory and copy the BIOAPI.DLL file to the `\Windows` directory on all the devices where you want your fingerprint scanning application to run.

Removing PocketBuilder

The following procedures describe how to remove PocketBuilder from your desktop computer and from a Pocket PC device.

❖ **To remove PocketBuilder from your desktop computer:**

- 1 In the Windows Control Panel, select Add or Remove Programs.
- 2 Select Sybase PocketBuilder 2.0 from the list of currently installed programs and click Change/Remove.

The PocketBuilder 2.0 Setup Welcome page opens.

- 3 On the Welcome page, select Remove and click Next.

The setup program displays a message box that prompts you for confirmation.

- 4 Click OK to remove PocketBuilder, then click Finish.

Using the setup program to remove PocketBuilder

You can also remove PocketBuilder from your desktop computer using the PocketBuilder CD. Insert the PocketBuilder CD in your CD-ROM drive and run the *setup.exe* program, then follow steps 3 and 4 of the previous procedure.

❖ **To remove PocketBuilder from a Pocket PC device or emulator:**

- 1 Make sure that no PocketBuilder applications are running.

To do so, select Settings>System>Memory>Running Programs from the Start menu, select any PocketBuilder applications, and click Stop.

- 2 Select Settings from the Start menu, select the System tab, and tap the Remove Programs icon.
- 3 Select Sybase PocketBuilder 2.0 from the list of programs, and click Remove.

If you manually installed the PocketBuilder VM files to a Smartphone device or emulator, you must remove the files using a file manager, the ActiveSync Explorer window, or the Windows CE Remote File Viewer. If you installed PocketBuilder using a CAB file (or the Start Menu link), the procedure to remove PocketBuilder is essentially the same as for the Pocket PC device or emulator.

❖ **To remove PocketBuilder from a Smartphone device or emulator:**

- 1 Make sure that no PocketBuilder applications are running.
- 2 Select Settings from the Start menu, then select Remove Programs.
Typically the Remove Programs item is on the second page of Settings items.
- 3 Select Sybase PocketBuilder 2.0 from the list of programs, select Remove, and press the Action button.

Removing Adaptive Server Anywhere

Although you can install PocketBuilder and ASA from the same setup program, you must remove them separately. If you have installed ASA documentation and ASA for Windows CE, you must also remove these ASA components separately.

The following procedures describe how to remove ASA from your desktop computer and from a Pocket PC device.

❖ **To remove ASA from your desktop computer:**

- 1 In the Windows Control Panel, select Add or Remove Programs.
- 2 From the list of currently installed programs, select Sybase SQL Anywhere Studio 9, Software and click Change/Remove.

A message box asks you for confirmation.

- 3 Click OK and Finish to remove ASA software or documentation.

If any ASA files and registry entries have been left on your computer, a message box prompts you to view the list of items that have not been removed. You can click Yes to see the list, then select the items in a second message box and click Erase Selected Items to remove these additional files and registry entries.

- 4 To remove ASA documentation, repeat this procedure, but select Sybase SQL Anywhere Studio 9, Documentation in step 2.
- 5 To remove ASA for Windows CE, repeat this procedure, but select Sybase SQL Anywhere 9 for Windows CE in step 2.

❖ **To remove ASA from a Pocket PC device:**

- 1 Make sure that no PocketBuilder applications are running.
To do so, select Settings>System>Memory>Running Programs from the Start menu, select any PocketBuilder applications, and click Stop.
- 2 Select Settings from the Start menu, select the System tab, and tap the Remove Programs icon.
- 3 Select Sybase ASA for Windows CE from the list of programs, and click Remove.

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