

SYBASE®

Installation Guide

PowerBuilder® Enterprise

10.5

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About This Book

Audience	This book is for anyone installing PowerBuilder® Enterprise.
How to use this book	Read Chapter 1, “Installing PowerBuilder Enterprise,” before you run the common setup program to install PowerBuilder, InfoMaker®, and Adaptive Server® Anywhere.
Related documents	For a complete list of PowerBuilder documentation, see the preface of PowerBuilder <i>Getting Started</i> .
Other sources of information	<p>Use the Sybase Getting Started CD, the SyBooks CD, and the Sybase Product Manuals Web site to learn more about your product:</p> <ul style="list-style-type: none">• 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. <p>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.</p> <p>Refer to the <i>SyBooks Installation Guide</i> on the Getting Started CD, or the <i>README.txt</i> file on the SyBooks CD for instructions on installing and starting SyBooks.</p> <ul style="list-style-type: none">• 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. <p>To access the Sybase Product Manuals Web site, go to Product Manuals at http://www.sybase.com/support/manuals/.</p>

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.

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.

Accessibility features

This document is available in an HTML version that is specialized for accessibility. You can navigate the HTML with an adaptive technology such as a screen reader, or view it with a screen enlarger.

PowerBuilder 10.5 and the HTML documentation have been tested for compliance with U.S. government Section 508 Accessibility requirements. Documents that comply with Section 508 generally also meet non-U.S. accessibility guidelines, such as the World Wide Web Consortium (W3C) guidelines for Web sites.

Note You might need to configure your accessibility tool for optimal use. Some screen readers pronounce text based on its case; for example, they pronounce ALL UPPERCASE TEXT as initials, and MixedCase Text as words. You might find it helpful to configure your tool to announce syntax conventions. Consult the documentation for your tool.

For information about how Sybase supports accessibility, see Sybase Accessibility at <http://www.sybase.com/accessibility>. The Sybase Accessibility site includes links to information on Section 508 and W3C standards.

For more information about accessibility features of PowerBuilder, see the chapter on building accessible applications in *Application Techniques*.

For a Section 508 compliance statement for PowerBuilder, go to the Voluntary Product Assessment Templates page at http://www.sybase.com/detail_list?id=52484.

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 PowerBuilder Enterprise

About this chapter

This chapter explains how to install the PowerBuilder Enterprise integrated product set on Windows 2000, Windows XP, or Windows Server 2003.

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About PowerBuilder Enterprise

PowerBuilder Enterprise components

PowerBuilder Enterprise 10.5 includes the CDs listed in Table 1-1.

Table 1-1: PowerBuilder Enterprise 10.5 CD contents

CD	Contents
Getting Started	<i>Customer Service Reference Guide, Technical Library Installation Guide, PowerBuilder and InfoMaker Release Bulletins, and this Installation Guide.</i>
PowerBuilder Enterprise	Common setup program for PowerBuilder 10.5, InfoMaker 10.5, and Adaptive Server Anywhere 9.0.2. This chapter describes how to run the common setup program.
PowerBuilder Enterprise Disk 2	Support folder that contains files that can be used to rebuild the PowerBuilder extensions for Web services clients and other supporting files.
PowerBuilder Sybooks CD	Documentation for PowerBuilder Enterprise in HTML-based and PDF formats. For more information, see “Other sources of information” on page v.

System requirements

This section provides system requirements for each product in PowerBuilder Enterprise. All tools require a CD-ROM drive. 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.

Table 1-2: System requirements for PowerBuilder Enterprise

Tool	Computer	Minimum memory	Minimum hard disk space	Operating system
PowerBuilder	600 MHz Pentium III class processor	128MB	347MB (Typical) 374MB (Custom/Full) 265MB (Compact)	Windows 2000 with SP 4, Windows XP Professional with SP 2, Windows XP Tablet PC Edition with SP 2, or Windows Server 2003 with SP 1

Tool	Computer	Minimum memory	Minimum hard disk space	Operating system
InfoMaker	400 MHz or higher Pentium-compatible	64MB	231MB (Typical) 243MB (Full) 62MB (Compact)*	Windows 2000 with SP 4, Windows XP Professional with SP 2, Windows XP Tablet PC Edition with SP 2, or Windows Server 2003 with SP 1
Adaptive Server Anywhere (ASA)	400 MHz or higher Pentium-compatible	48MB in addition to memory required by the operating system	41MB for ASA, 63MB for documentation	Windows 95, Windows 98, Windows Me, Windows NT with Service Pack 5 or later, Windows 2000, Windows XP, or Windows Server 2003

* Less disk space is required if PowerBuilder is installed on the same computer (approximately 40MB less for Compact and 100MB less for Typical or Full).

Pre-installation tasks

Before you install PowerBuilder Enterprise, you need to perform the following tasks:

- Read the release bulletins for the latest information on the products that you are installing. Pay close attention to the “Special Installation Instructions” section.

Release bulletins for PowerBuilder and InfoMaker are available at the Sybase Product Manuals Web site at <http://sybooks.sybase.com>.

Release Bulletins for PowerBuilder and InfoMaker are also available in the product box on the “Getting Started” CD.

A *readme.txt* file for Adaptive Server Anywhere is available in the *ASAnywhere9* directory on Disk 1.

- Make sure the drive where you install PowerBuilder Enterprise 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.

- Close any open PowerBuilder Enterprise applications.
- Back up your files. See “Backing up your files” next.
- Read “Required software for PowerBuilder features” on page 4 to determine whether you need to install any software before installing PowerBuilder 10.5.
- If you already have PowerBuilder Enterprise products installed on your computer, follow the instructions in “Updating PowerBuilder Enterprise products” on page 7.

Backing up your files

Back up any files created with earlier versions of Sybase tools. Make sure that any PowerBuilder PBLs you plan to migrate have been regenerated without error in your current version of PowerBuilder before you back them up.

Besides backing up your PBLs, you need to back up any files that contain information you do not want to lose, such as database files, INI files, preference information, and modified database definition files.

For additional information about backing up and migrating existing applications, see “Before using PowerBuilder Enterprise” on page 17.

Required software for PowerBuilder features

Table 1-3 lists the software required for some PowerBuilder Enterprise features. Much of this software is installed automatically when the feature is installed as part of a Compact or Typical install, or when the feature is selected from the Custom/Full install.

Read this table carefully to determine whether you need to install any software *before* you run the common setup program, and whether you need to select any other products available in the common setup program when you select PowerBuilder or InfoMaker.

Table 1-3: Required software for PowerBuilder features

Feature	Required software	Notes
EAServer component and Web DataWindow development and deployment	EAServer 5.3 or later	If you install EAServer on a different computer, or if you install it on the same computer as PowerBuilder <i>after</i> you install PowerBuilder, run the setup program in the <i>PBVM</i> directory on the PowerBuilder Enterprise CD (Disk 1) to install PowerBuilder runtime files and the Web DataWindow server component in EAServer.
EJB client development	EAServer 5.3 or another J2EE-compliant application server such as WebLogic 8.1, Oracle 9i AS, Oracle Application Server 10g, and WebSphere 5.0 Sun JDK 1.3 or IBM JDK 1.3 or later	Sun JDK 1.4 is installed in the <i>Sybase\Shared\PowerBuilder\jdk14</i> directory when you install PowerBuilder.
Web service clients	Microsoft .NET Software Development Toolkit 2.0.	
JSP target deployment	Access to a server running EAServer 5.3 or later or Apache Tomcat 4.0 or later Sun JDK 1.3 or later	EBF 13293 for EAServer 5.3 is required for JSP Web services and byte datatype support. Apache Tomcat can be downloaded from the Apache Tomcat Web site at http://tomcat.apache.org/index.html . No Tomcat files are required on the development computer. There are special setup requirements for using JSP targets with Tomcat. See “Configuring Tomcat for use with JSP targets” on page 20. Sun JDK 1.4 is installed in the <i>Sybase\Shared\PowerBuilder\jdk14</i> directory when you install PowerBuilder.
JSP deployment to Enterprise Portal	Enterprise Portal 6.0 with EAServer 5.3	

Feature	Required software	Notes
<p>Web and JSP target development</p> <p>PowerBuilder and InfoMaker tutorials and demo databases</p> <p>PowerBuilder Code Examples sample application</p>	<p>Adaptive Server Anywhere (ASA) 9.0.2 or later</p>	<p>Note This product must be installed on your computer before you install PowerBuilder.</p> <hr/> <p>ASA 9.0.2 is included in the common setup and is installed before PowerBuilder (or InfoMaker) if you select both products.</p> <p>If the setup program cannot detect ASA 9.0.2 or later on your computer and you have not selected ASA in the common setup, you receive a warning if you select PowerBuilder and/or InfoMaker.</p> <p>If you choose to continue, the setup program does not install the tutorials or create registry entries for the demo databases. If you want to use these features later, you must reinstall PowerBuilder and/or InfoMaker.</p>
<p>Web and JSP target development</p>	<p>Microsoft Internet Explorer (IE) 6 or later</p>	<p>Note This software must be installed on your computer before you install PowerBuilder.</p> <hr/> <p>You can download Microsoft Internet Explorer from the Microsoft Downloads page at http://www.microsoft.com/downloads/.</p> <p>If the setup program cannot detect Internet Explorer 6 or later on your system, you will receive a warning. If you choose to continue, the setup program disables Web targets functionality. If you want to use Web targets at a later date, you must reinstall PowerBuilder 10.5.</p> <p>You do <i>not</i> need to install the Microsoft VM. Web targets in PowerBuilder 10.5 use the Sun Java VM.</p>
<p>Saving DataWindows as PDF using the GNU Ghostscript distiller and PostScript printing</p>	<p>GNU Ghostscript <i>and</i> PostScript printer driver</p>	<p>See “Installing GNU Ghostscript” on page 19 for information about obtaining and installing GNU Ghostscript files.</p> <p>The default PostScript printer driver and related files are installed in <i>Sybase\Shared\PowerBuilder\drivers</i>. You can also install drivers from other vendors. See “Installing PostScript drivers” on page 19.</p>
<p>Saving DataWindows as PDF using XSL Formatting Objects (FO) and Java printing</p>	<p>Sun JDK 1.3 or later <i>and</i> Apache FO processor</p>	<p>The Sun JDK 1.4 is installed in the <i>Sybase\Shared\PowerBuilder\jdk14</i> directory when you install PowerBuilder.</p> <p>The Apache FO processor is installed in the <i>Sybase\Shared\PowerBuilder\fop-0.20.4</i> directory when you install PowerBuilder.</p>

Feature	Required software	Notes
PowerDesigner plug-in	PowerDesigner 12.0	An evaluation version of PowerDesigner 12.0 is available on the PowerDesigner page of the Sybase Web site.
Data access using the PowerBuilder ADO.NET interface	Microsoft .NET Framework version 2.0	
Data access using the PowerBuilder OLE DB interface	Microsoft Data Access Components (MDAC) 2.6 or later	To install MDAC 2.6, run the <i>MDAC_TYP.EXE</i> file, which can be found in the <i>Support</i> directory on the PowerBuilder Enterprise CD (Disk 2). Internet Explorer 4.0.1 Service Pack 2 or a later version of Internet Explorer must be present on your computer when you run <i>MDAC_TYP.EXE</i> . If it is not, the installation aborts.
JDBC connectivity	Sun JDK 1.3 or later	Sun JDK 1.4 is installed in the <i>Sybase\Shared\PowerBuilder\jdk14</i> directory when you install PowerBuilder.
PowerBuilder Runtime Packager	Microsoft Windows Installer	Microsoft Windows Installer is installed on all Windows XP systems. For Windows NT and Windows 2000, it can be installed or updated using the redistributable component downloaded from the Microsoft page at http://www.microsoft.com/msdownload/platformsdk/sdkupdate/psdkredist.htm .

Updating PowerBuilder Enterprise products

If you are updating from a previous version of PowerBuilder Enterprise, you must have PowerBuilder Enterprise 9.x.x or PowerBuilder Enterprise 10.x.x installed on your computer.

If neither of these products is installed on your computer, the PowerBuilder Enterprise Update setup program prompts you to insert one of the following CDs into your CD-ROM drive for validation before proceeding with the installation:

- PowerBuilder Enterprise 9.0 Disk 1
- PowerBuilder Enterprise 10.0 Disk 1

After validating the CD, the setup program prompts you to reinsert PowerBuilder Enterprise 10.5 Disk 1 into your CD-ROM drive.

In general, you can run the common setup program to install the products in this set over existing versions of those products, or you can make disk space available by uninstalling older versions before running the setup program.

Running the common setup program

To install PowerBuilder Enterprise, run the common setup program on PowerBuilder Enterprise Disk 1. The common setup program automatically starts the individual setup programs for the products you choose to install.

❖ **To install the PowerBuilder Enterprise product set:**

- 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 PowerBuilder Enterprise Disk 1 into your CD-ROM drive and run the *setup.exe* program from the root directory.
- 3 On the Welcome page, click Next to go to the License Agreement page.
You must select the location where you are installing this software from the drop-down list and accept the terms of the license agreement before you can continue.
- 4 On the Customer Information page, enter your name and your company's name.
- 5 On the Choose Destination Location page, click Next to accept the destination path shown, or click Browse and select a different path, click OK, 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.

- 6 On the Choose Destination Location For Shared Files page, click Next to accept the destination path shown, or click Browse and select a different path, click OK, and click Next. You must use the same folder for shared files for all products in this set.
- 7 On the Select Components page, select the components you want to install and click Next to continue.

- 8 Complete the setup program for each individual tool you selected.

Instructions for using the individual setup programs from the common setup program are provided in this chapter. They are presented in the order in which the setup programs run if you select two or more products.

Product	Section
Adaptive Server Anywhere	“Installing Adaptive Server Anywhere” next
InfoMaker	“Installing InfoMaker” on page 11
PowerBuilder	“Installing PowerBuilder” on page 13

Cancel

To interrupt the installation process, use the Cancel button in the wizard. When you click Cancel, you can choose to exit or resume the installation. If you choose to exit, you can exit the current setup program and continue with your other selections, or exit setup completely.

Installing Adaptive Server Anywhere

Sybase Adaptive Server Anywhere (ASA) is a fully-featured relational database and data management tool. 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” next).

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 Runtime Edition

PowerBuilder also includes the Adaptive Server Anywhere for Windows 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, and synchronization.

The ASA Runtime Edition is available in the *Support\asa90runtime* directory on Disk 2. For more information, including the list of Redistributable Components of the ASA Runtime Edition, see the *Read Me First* document in that directory.

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

❖ **To install ASA:**

- 1 On the License Agreement page, read the terms of the license agreement page carefully.

You must accept the terms of the license agreement before you can click Next to continue.

- 2 On the Choose Location page, click Next to accept the destination folder path shown, or click Browse and 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 and select a different path for shared files, click OK, and click Next.

- 4 On the Select Components page, select the components you want to install, and click Next.

- 5 On the Select Program Folder page, select the program folder to which program icons will be added or specify a new one, 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.

If you selected Documentation in step 3, the SQL Anywhere 9 Documentation Setup Select Components page displays.

- 7 Select Next to install the documentation or Cancel to continue without installing it. If you select Next, select Next again on the Start Copying Files page.

- 8 On the Setup Complete page, select the check box if you want to view iAnywhere Online Resources, and click Finish to return to the PowerBuilder setup program.

Installing InfoMaker

When you install InfoMaker, you can install only what you need to query a database and create reports in the database, or you can install optional painters that enable you to work more fully with data.

What to install

The InfoMaker install offers three options: Compact, Typical, and Custom/Full.

Compact This option installs InfoMaker as a reporting tool only. No optional painters are installed. You cannot open forms in the InfoMaker tutorial library; those forms require use of the optional painters that are installed with the Typical or Custom/Full option.

Typical This option adds three additional painters so that you can work with data more fully:

- *Database painter* for creating and modifying tables
- *Form painter* for creating and modifying data in a database
- *Data Pipeline painter* for copying data from one database to another

This option also installs the following features that are not included in the Compact install:

- JDBC database interface
- InfoMaker tutorial
- EAS Demo database
- Compiled HTML Help
- Ability to save reports to PDF using the XSL-FO method (the distill method is provided in the Compact install)

Custom/Full This option enables you to choose what you install. You can install the optional painters as well as the PB DataDirect ODBC interfaces and OLE DB data providers, the DataWindow plug-in, and the DataWindow Web control for ActiveX, which are not included in the Compact or Typical installs.

If you want to do the InfoMaker tutorial or use the sample library, you must install ASA 9.0.2 or later if it is not already installed on your computer. When you install InfoMaker, the setup program creates an ODBC data source for the demo database. If ASA is not installed on your system when you install InfoMaker, setup does not install the demo database, sample library, or tutorial files.

Installation procedure The InfoMaker setup program installs InfoMaker in default drives and directories unless you specify otherwise. If a directory you specify does not exist, setup creates it.

❖ **To install InfoMaker:**

- 1 On the Choose Destination Location page, click Next to accept the destination folder path shown, or click Browse and select a different path, click OK, then click Next.
- 2 On the Choose Destination Location For Shared Files page, click Next to accept the destination folder path shown, or browse to select the *Sybase\Shared* directory.
- 3 On the Setup Type page, select Typical, Compact, or Custom/Full install, and click Next.

For information on what to select, see “What to install” on page 11.

- 4 If you selected Custom/Full, the Select Components page displays; select the components you want to install and click Next to continue.

To install optional painters, select the Database Write option.

You can expand the tree view to select or clear subcomponents of top-level components, and click Select All or Unselect All to select or clear all the check boxes.

Demo Database

The Demo Database is selected by default if you select the Tutorial component.

- 5 On the Select Program Folder page, select the program folder to which program icons will be added or specify a new one, 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.
- 7 On the InstallShield Wizard Complete page, select the check box if you want to read the Readme file, and click Finish to return to the common setup program.

You must close the Readme file to continue.

Installing PowerBuilder

What to install

The PowerBuilder install offers three options: Compact, Typical, and Custom/Full.

Compact This option installs base PowerBuilder components and some additional features, including:

- The ability to save DataWindow objects as PDF using the distill or XSL-FO methods
- The PowerBuilder Document Object Model extension
- The EJB client extension
- The SOAP Web services client and UDDI extensions
- ODBC and native database drivers
- Windows Help

Typical This option installs the set of components most users need. It includes the following features that are not included in the Compact install:

- Web and JSP targets
- PowerBuilder Source Code Control (SCC) interface
- PowerBuilder Native Interface (PBNI) Software Development Kit
- PowerDesigner Plug-in
- PowerBuilder Runtime Packager
- PowerBuilder Resource Monitor
- JDBC database interface
- PowerBuilder tutorial
- EAS Demo database
- Code Examples sample applications
- PowerBuilder Cryptography Library
- Compiled HTML Help

Custom/Full This option enables you to choose what you install. You can also install the following features that are not included in the Compact or Typical installs:

- Translation Toolkit
- PB DataDirect ODBC interfaces and OLE DB data providers
- ADO.NET database interface
- DataWindow Web control for ActiveX
- DataWindow and Window plug-ins

You must have Internet Explorer 6 or later installed on your computer *before* you run the common setup program if you want to install the Web targets feature.

If ASA 9.0.2 or later is not installed on your system, you must select it in the common setup program if you want to install the Web targets feature. For more information about required software, see Table 1-3 on page 5.

If ASA 9.0.2 or later is not installed on your system, you must select it in the common setup program if you want to do the PowerBuilder tutorial or use the sample applications. When you install PowerBuilder, the setup program creates an ODBC data source for the demo database. If ASA is not installed on your system when you install PowerBuilder, setup does not install the demo database, sample applications, or tutorial files.

Installation procedure

You must have Administrator privileges to fully install this product. After installing, make sure users have write permission for the PowerBuilder 10.5 directory and the Windows registry.

The PowerBuilder setup program installs PowerBuilder in default drives and directories unless you specify otherwise. If a directory you specify does not exist, setup creates it.

❖ To install PowerBuilder:

- 1 On the Choose Destination Location page, click Next to accept the destination folder path shown, or click Browse and select a different path, click OK, and click Next.

Installing Web targets

If Internet Explorer 6 or later or ASA 9.0.2 or later is not detected on your computer, a response window displays. You can choose to install without Web targets functionality or exit setup and install PowerBuilder later.

- 2 On the Choose Destination Location For Shared Files page, click Next to accept the destination folder path shown, or browse to select the *Sybase\Shared* directory.
- 3 On the Setup Type page, select whether you want a Typical, Compact, or Custom/Full install, and click Next.

For information on what to select, see “What to install” on page 13.

- 4 If you selected Custom/Full install, check the components you want to install on the Select Components page and click Next.

You can expand the tree view to select or clear subcomponents of top-level components, and click Select All or Unselect All to select or clear all the check boxes.

Demo Database

The Demo Database is selected by default if you select the Code Examples or Tutorial components.

- 5 On the Select Program Folder page, select the program folder to which program icons will be added or specify a new one, 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.
- 7 On the InstallShield Wizard Complete page, select the check box if you want to read the Readme file, and click Finish to return to the common setup program.

You must close the Readme file to continue.

Completing the common setup program

After all the products you selected have been installed, you return to the common setup program.

❖ **To complete the common setup program:**

- 1 On the InstallShield Wizard Complete page, click Finish to complete the installation.

If you do not clear the check boxes on this page, setup displays the readme file and launches a browser so that you can complete online registration.

- 2 If the System Reboot Required page displays, click Finish to reboot your computer, or choose to reboot your computer later.

Even if the System Reboot Required page does not display, you should always shut down and restart your computer before using any of the PowerBuilder Enterprise products.

Network install

The installation procedure presented above assumes you are installing from the PowerBuilder Enterprise CDs. If you are a system administrator, you might want to allow users to install PowerBuilder Enterprise from a network drive rather than from CDs. To do this, copy the files from each CD into a directory on a network drive. Users can then install PowerBuilder Enterprise by running the setup program from the network.

What the setup program does

The setup program does the following:

- Installs Sybase files in a *Sybase* directory
- Installs system files in the Windows operating system path
- 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 *PB.INI* (for PowerBuilder) and *IM.INI* (for InfoMaker)

Directory names

The default installation places all Sybase tools in a directory called *Sybase*. All files shared by more than one Sybase tool are placed in a common subdirectory called *Shared*:

File type	Directory names
Sybase tools	<i>\install_dir\Sybase</i>
Files associated with each tool	<i>\install_dir\Sybase\tool-name</i>
Shared files	<i>\install_dir\Sybase\Shared\tool-name</i>

Registry changes

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

- Creates or updates registry subkeys, including *ODBC.INI* and *ODBCINST.INI*
- Creates or updates the Sybase key in *HKEY_CURRENT_USER\Software* and *HKEY_LOCAL_MACHINE\Software*
- Updates system and user paths in *HKEY_CURRENT_USER\Environment*
- Adds the appropriate paths to the registry path *HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\App Paths*
- Adds the paths to compiled HTMLHelp files to the registry path *HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\HTMLHelp*

Before using PowerBuilder Enterprise

Before you use PowerBuilder Enterprise, you might need to perform some additional migration or configuration tasks:

- Migrating applications to PowerBuilder or InfoMaker 10.5
- Setting up your DBMS
- Upgrading databases for jConnect for JDBC
- Installing GNU Ghostscript
- Installing PostScript drivers
- Configuring Tomcat for use with JSP targets

Migrating applications to PowerBuilder or InfoMaker 10.5

If you have applications and PBLs that you created in an earlier version of PowerBuilder or InfoMaker, you can migrate them to version 10.5. Before you do, make sure your PBLs can be successfully regenerated under the earlier version, and make backup copies.

PowerBuilder and InfoMaker 10.5 are Unicode enabled and some changes are made to your code when you migrate an application from PowerBuilder 9.x or earlier. For details, see the section on migrating targets in the PowerBuilder *User's Guide*. You should also read the migration issues section in the PowerBuilder release bulletin.

Setting up your DBMS

Your DBMS might require additional setup procedures for use with PowerBuilder or InfoMaker. For details, see *Connecting to Your Database*.

Upgrading databases for jConnect for JDBC

If you plan to use any of the products in PowerBuilder Enterprise with ASA or Adaptive Server Enterprise databases, including databases that were previously prepared for jConnect™ for JDBC™ 4.x, you need to prepare the databases for jConnect 5.5 by installing additional tables and stored procedures. You must repeat the following steps for every ASA or Adaptive Server Enterprise database that you want to prepare for jConnect.

❖ **To prepare an ASA or Adaptive Server Enterprise database for jConnect 5.5:**

- 1 Start Interactive SQL and connect to your database.
- 2 Select File>Open and locate the appropriate SQL file stored in the *jConnect-5_5\sp* folder.

jConnect is installed in the *Sybase\Shared* folder. Use *sql_asa.sql* for ASA, *sql_server12.5.sql* for Adaptive Server Enterprise version 12.5, *sql_server12.sql* for Adaptive Server Enterprise version 12, or *sql_server.sql* for earlier versions of Adaptive Server Enterprise.

- 3 Click the Execute button.

Installing GNU Ghostscript

Before you can use the distiller method to save DataWindow objects or reports in PDF format, you must install GNU GPL Ghostscript on your computer.

❖ **To install GNU Ghostscript on the PowerBuilder development computer:**

- 1 Into a temporary directory on your computer, download the self-extracting executable file for the version of GNU Ghostscript you want from one of the sites listed on the Ghostscript Web site at <http://www.ghostscript.com>.
- 2 Run the executable file to install Ghostscript on your system.

The default installation directory is *C:\gs*. You can select a different directory and/or choose to install shortcuts to the Ghostscript console and readme file.

After installing Ghostscript, you should read the *readme.htm* file in the *doc* subdirectory in the Ghostscript installation directory to find out more about using Ghostscript and distributing it with your application.

PowerBuilder relies on registry entries to locate the Ghostscript files. If you move the files to a different location after installing them, PowerBuilder will not be able to save as PDF unless the *gs* directory is located in the same directory as *pbdwe105.dll*.

Installing PostScript drivers

The PostScript drivers installed with PowerBuilder do not support searchable PDF and do not handle tables correctly if they have more columns than can fit on a single page. You can use a PostScript driver from another vendor as an alternative. If you do not already have a PostScript printer or printer driver installed on your system, use the Windows Add Printer wizard to add a PostScript printer.

❖ **To add a PostScript printer to your printer settings:**

- 1 Select Settings>Printers from the Windows Start menu.
- 2 Double-click Add Printer.
- 3 Specify a local printer.
- 4 Specify FILE: as the port.

- 5 Select a manufacturer (such as HP) and a printer with the designation PS (such as HP Color LaserJet PS or HP LaserJet 4/4M Plus PS 600).
- 6 Accept the default name or enter a shorter name for the printer.
- 7 Complete the wizard.

❖ **To use the alternative print driver in the DataWindow painter:**

- 1 Select the Distill Custom PostScript check box on the Data Export property page for PDF export.
- 2 Specify the printer name (from step 6 in the previous procedure) as the Printer Name on the Print Specifications page.

❖ **To use the alternative print driver in a script:**

- Set the Distill.CustomPostScript and Printer properties.

For example:

```
dw_1.Object.DataWindow.Export.PDF.Distill.CustomPostScript=1  
dw_1.Object.DataWindow.Printer="HP LaserJet 4/4M Plus PS 600"
```

Configuring Tomcat for use with JSP targets

To use Web DataWindows and access EA Server components in JSP pages that you will deploy to a Tomcat server, you must add the following JAR files to the *%Tomcat%\shared\lib* directory:

```
pbjdbc12105.jar  
easclient.jar  
easj2ee.jar
```

You should also add the JAR files required by your DBMS, such as *jconn2.jar* for jConnect.

Adding tools and components later

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

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

- 1 Perform steps 1-4 of the installation procedure in “Running the common setup program” on page 8. Do not change the location for shared files.
- 2 On the Select Components page, select the components to install.
- 3 Complete the setup program for each individual tool you selected, selecting subcomponents as required.

Uninstalling a product

What the uninstall tool does

If you want to remove products from your computer, you should use the uninstall tool for each product you want to remove. This tool removes:

- Shared and standard program files
- Folder items
- Program folders
- Program directories
- Program registry entries

Why use the uninstall tool

The uninstall tool removes file and icon groups, as well as system and user path settings in the registry and INI files. These changes are not made if you simply delete directories.

Removing shared DLLs

The install tool increments the usage count in the registry for each shared Sybase DLL and each shared system DLL, and the uninstall tool decrements that count. The uninstall tool does not try to delete a shared DLL until the usage count reaches zero. If you remove a component that uses a shared DLL and the usage count is zero, the uninstall tool asks if you want to delete the DLL.

Stopping the uninstall tool

Unlike the install tool, uninstall has no Back or Cancel button. Once you click Yes in the procedure below, uninstall cannot be stopped.

❖ **To use uninstall to remove a product:**

- 1 Make a backup copy of any files you might want to reuse (such as DB, INI, and PBL files) if you plan to reinstall.
- 2 Open the Control Panel from the Start menu and double-click the Add/Remove Programs icon.
- 3 On the Install/Uninstall tab page, select the tool to uninstall, click Add/Remove, and click Yes when prompted to confirm that you want to remove the tool.
- 4 If you are prompted to remove a shared file, click the appropriate response.

Be cautious about deleting system DLLs

If the usage count for a system file in the registry indicates that the file is no longer being used, uninstall asks if you want to delete the file. Some applications do not increment the usage count; therefore, *do not delete a file unless you are sure it is not being used by another application.*

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