SYBASE®

Installation Guide

**PowerBuilder®
Desktop/Professional**

11.5

Contents

PowerBuilder Desktop/Professional

About This Book

Audience   This book is for anyone installing the Desktop or Professional edition of
                            Sybase® PowerBuilder®.

How to use this book   Read this book before you run the setup program to install PowerBuilder.
                            You can also install SQL Anywhere® from the setup program.

Related manuals   For a complete list of manuals in the Desktop and Professional edition
                            sets, see "PowerBuilder SyBooks CD" on page 2.

**Other sources of   Use the Sybase Getting Started CD, the SyBooks™ CD, and the Sybase
information**   Product Manuals Web site to learn more about your product:

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

- The SyBooks CD contains product manuals and is included with your
  software. The Eclipse-based SyBooks browser allows you to access
  the manuals in an easy-to-use, HTML-based format.

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

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

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

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

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 11.0 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

About this book

This book explains how to install the PowerBuilder 11.5 Desktop edition or the PowerBuilder 11.5 Professional edition on Windows XP, Windows Server 2003, Windows Vista, and Windows Server 2008.

Contents

PowerBuilder contents

PowerBuilder includes the CDs or DVDs listed in Table 1-1. The setup program on the PowerBuilder DVD can be used to install all editions of PowerBuilder (Enterprise, Professional, and Desktop). The editions available to you depend on the license you supply. For more information, see "Product licensing with SySAM 2.0" on page 4.

Table 1-1: PowerBuilder 11.5 contents

CD or DVD	Contents
Getting Started CD	*Customer Service Reference Guide*, *SyBooks Installation Guide*, PowerBuilder *Release Bulletin*, order card for printed documentation, and this *Installation Guide*.
PowerBuilder DVD	Common setup program for PowerBuilder 11.5 (all editions) and SQL Anywhere 11.0.
PowerBuilder SyBooks CD	Documentation for PowerBuilder in HTML-based and PDF formats. For more information, see "Other sources of information" on page v.

SQL Anywhere

When you install PowerBuilder, you can also install Sybase SQL Anywhere, a fully-featured relational database and data management tool.

PowerBuilder
SyBooks CD

The SyBooks CD contains all the manuals in the PowerBuilder Enterprise and InfoMaker® documentation sets. Some of the books in the PowerBuilder Enterprise documentation set do not apply to your product.

The PowerBuilder Desktop and Professional documentation sets include the following books:

> *Application Techniques*
> *Connecting to Your Database*
> *Connection Reference* (online only)
> *DataWindow Programmer's Guide*
> *DataWindow Reference*
> *Deploying Applications and Components to .NET*
> *Getting Started*
> *Objects and Controls*
> *PowerScript Reference*
> *Users Guide*

Some features described in these books are not available in the Professional or Desktop editions of PowerBuilder. For more information about features supported in your edition of PowerBuilder, look for the name of your edition in the PowerBuilder Help index.

For more information about the SyBooks CD, see "Other sources of information" on page v.

System requirements

This section provides system requirements for PowerBuilder and SQL Anywhere. Both tools require a DVD-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.

PowerBuilder system requirements

Table 1-2 shows system requirements for PowerBuilder Desktop and Professional.

Table 1-2: System requirements for PowerBuilder

System component	Development environment
Operating system	Windows XP Professional with SP 3, Windows XP Tablet PC Edition with SP 3, or Windows Server 2003 with SP 2, Windows Vista 32/64 bit Business with SP 1, or Windows Server 2008 for runtime
CPU	Pentium 4 or higher
Minimum memory	512MB
Disk space	506MB for all components

SQL Anywhere system requirements

Table 1-3 shows system requirements for SQL Anywhere.

Table 1-3: System requirements for SQL Anywhere

System component	Development environment
Operating system	Windows 2000, Windows XP, Windows XP Tablet PC Edition, Windows Server 2003, Windows Vista, and Windows Server 2008 (x86, x64, IA64)
CPU	400 MHz or higher Pentium-compatible
Minimum memory	48MB in addition to memory required by the operating system
Disk space	300MB for all components

Product licensing with SySAM 2.0

PowerBuilder uses the Sybase Software Asset Management System (SySAM) for product licensing. If you have purchased PowerBuilder, you have either a standalone local license or a served license.

For more information about licensing, see the SySAM Documentation at http://www.sybase.com/sysam.

For troubleshooting help, see "Troubleshooting SySAM issues" on page 23.

Installing a standalone local license

Typically, you must have a license file to install PowerBuilder on your computer. You can download a license file from the Sybase Product Download Center (SPDC) at https://sybase.subscribenet.com/.

If you purchase PowerBuilder from Sybase, you receive an email with a URL, your login, and your password for the SPDC. If you purchase PowerBuilder from a Sybase reseller, you receive a certificate with a Web key registration number and a download URL.

You must provide the host ID and computer name of the computer where you want to install a local license when you contact the SPDC. If you have not obtained your license information before you run the setup program, you can find them on the License Key page in the setup program.

Upgrading a local license

After you install PowerBuilder, you may want to upgrade your Desktop license to Professional or Enterprise, or your Professional license to Enterprise. You can obtain an upgrade license in the same way you obtained your original license.

When you have received your new license, open PowerBuilder and select the Tools>Update License menu item. In the wizard, select the Standalone Seat - Local License radio button, click Next, click the Load button to navigate to the location of your new license file, and complete the wizard. When you restart PowerBuilder, the features enabled by your upgrade will be available.

If you did not install all features

When you install PowerBuilder, you can select all the features available in the Enterprise edition. If you chose not to install some features that you want to use with your new license, you need to run the setup program again. For more information, see "What to install" on page 12.

Installing a served license	If you are installing a served license, your organization needs a license server. The license server controls license availability and allows you to use licenses as needed. Using a served license makes license maintenance much easier for organizations with multiple workstations, since a single license for all workstations can be centrally managed.

To install a served license, you must know the server name. You may also need the TCP port number if the administrator who installed the license server defined a TCP port number that is different from the default. In this case, you must specify this user-defined TCP port number.

You can use the Tools>Update License menu item in PowerBuilder to update a served license. Contact your system administrator to find out about upgrades available at your site.

Setting up a license server	If you are responsible for setting up a license server, you can install a license server using the *Standalone SySAM Installer.zip* file in the *Support* directory on the DVD. For more information, see the chapter on license server administration in the Sybase Software Asset Management User's Guide at http://infocenter.sybase.com/help/index.jsp?topic=/com.sybase.dc00530_0200/html/sysamug/title.htm.

Pre-installation tasks

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

• Read the release bulletin for the latest information on the products you are installing. Pay close attention to the "Special Installation Instructions" section.

   The release bulletin is available in the product package on the Getting Started CD.

   Release bulletins are also available at the Product Manuals Web site at http://www.sybase.com/support/manuals/. The release bulletin at this site sometimes contains more recent information than the bulletin on the Getting Started CD.

   A *readme.txt* file for SQL Anywhere is available in the *SQLAnywhere11* directory on the DVD.

• Make sure the drive where you install PowerBuilder 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 applications.

- Back up your files. See "Backing up your files" next.

- Read "Required software for PowerBuilder features" on page 6 to determine whether you need to install any software before installing PowerBuilder 11.5.

Backing up your files

Back up any files created with earlier versions of Sybase tools. Make sure that any 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" on page 21.

Required software for PowerBuilder features

Table 1-4 lists the software required for all PowerBuilder features.

All features are available in the setup program
When you install the PowerBuilder Professional or Desktop edition, all the features available in the Enterprise edition are included in the list of components you can select. This enables you to upgrade your license without reinstalling the product. The table indicates which features are available in Professional or Enterprise editions only.

You can choose to clear the check box for features you do not want to install, or leave all components selected. Some Enterprise features have additional software requirements and may not be installed if the required software is not available on your computer before you run the setup program.

Table 1-4: Required software for PowerBuilder features

Feature	Required software	Notes
Tutorial Demo database Code Examples sample application	SQL Anywhere 11.0 or later	**Note** This software must be installed on your computer before you install these PowerBuilder features. SQL Anywhere 11.0 is available on the PowerBuilder DVD. If the PowerBuilder setup program cannot detect SQL Anywhere 11.0 or later on your computer, you receive a warning. If you choose to continue, the setup program does not install the tutorial or create registry entries for the demo database. If you want to use these features later, you must reinstall PowerBuilder.
Saving DataWindows as PDF using XSL Formatting Objects (FO) and Java printing	Sun JDK 1.3 or later *and* Apache FO processor	The Sun JDK 1.5 is installed in the *Sybase\Shared\PowerBuilder\jdk1.5.0_12* directory when you install PowerBuilder. The Apache FO processor is installed in the *Sybase\Shared\PowerBuilder\fop-0.20.4* directory when you install PowerBuilder.
Saving DataWindows as PDF using the Ghostscript distiller and PostScript printing	Ghostscript *and* PostScript printer driver	See "Installing Ghostscript" on page 21 for information about obtaining and installing Ghostscript files. See "Installing PostScript drivers" on page 22for information about installing PostScript drivers.
PowerBuilder Runtime Packager	Microsoft Windows Installer	Microsoft Windows Installer is installed by default on all supported Windows platforms.
.NET Windows Forms development and deployment (Professional and Enterprise) .NET Web Forms, .NET Web services, and .NET assembly deployment (Enterprise only)	Microsoft .NET Framework Version 2.0, 3.0, or 3.5 Redistributable Package	**Note** One of these packages must be installed on your computer before you install these features. The packages are available from links on the Microsoft .NET Framework Developer Center at http://msdn.microsoft.com/en-us/netframework/default.aspx.
.NET Windows Forms support for OLE controls in Windows Forms (Professional and Enterprise) Smart client deployment (Enterprise only)	Microsoft .NET Software Development Toolkit 2.0, 3.0, or 3.5	**Note** One of these SDKs must be installed on your computer before you install these features. The SDKs are available from links on the Microsoft .NET Framework Developer Center at http://msdn.microsoft.com/en-us/netframework/aa731542.aspx.

Feature	Required software	Notes
.NET Web Forms development and deployment and .NET Web services local host deployment (Enterprise only)	Microsoft Internet Information Services (IIS) 5.0 or higher	**Note** You do not need to install IIS on the development computer for PowerBuilder Enterprise applications or components unless you are using the same computer as a server for Web Forms or smart client applications, or for Web service components. IIS is also not required on end users' computers. For how to configure IIS, see *Deploying Applications and Components to .NET*.
.NET Web Forms development and deployment (Enterprise only)	AJAX extensions	You can download and install the Microsoft ASP.NET AJAX Extensions version 1.0 from the ASP.NET Web site at http://www.asp.net/ajax/downloads/archive.
MobiLink™ synchronization (Enterprise only)	Adaptive Server® Anywhere 9.0.2 or SQL Anywhere 10.0 or later	MobiLink is a component of Adaptive Server Anywhere and SQL Anywhere. In the SQL Anywhere 11.0 setup program, select Synchronization and Messaging and then MobiLink.
EAServer component and Web DataWindow development and deployment (Enterprise only)	EAServer 5.5 with EBFs 13993 and 14146, EAServer 6.2, or later	Run the setup program in the *PBVM* directory on the PowerBuilder DVD to install PowerBuilder 11.5 runtime files and the Web DataWindow server component in EAServer.
Application server component development and deployment (Enterprise only)	PowerBuilder Application Server Plug-in Version 1.1 with EBF 14675 or later JBoss 4.0.4, BEA WebLogic 9.2, or IBM WebSphere 6.1 Sun JDK 1.5 or later	Run the setup program in the *PBVM* directory on the PowerBuilder DVD to install PowerBuilder 11.5 runtime files in the server plug-in. For more information about the server plug-in, see the Sybase Product Manuals Web site at http://infocenter.sybase.com/help/index.jsp?topic=/com.sybase.help.pbasp_1.0/title.htm.
EJB client development (Enterprise only)	EAServer 5.5 with EBF 13993 and 14146, EAServer 6.2, or another J2EE-compliant application server such as BEA WebLogic 8.1 and later, or IBM WebSphere 6.x Sun JDK 1.5 or later	The Sun JDK 1.5 is installed in the *Sybase\Shared\PowerBuilder\jdk1.5.0_12* directory when you install PowerBuilder.

Feature	Required software	Notes
Web service clients (Enterprise only)	Microsoft .NET Framework Redistributable Package Microsoft .NET Software Development Toolkit	See ".NET Windows Forms development and deployment" and ".NET Windows Forms support for OLE controls in Windows Forms" above.
PowerDesigner® plug-in (Enterprise only)	PowerDesigner 12.5	An evaluation version of PowerDesigner is available on the PowerDesigner page of the Sybase Web site.
Data access using the PowerBuilder ADO.NET interface (Enterprise only)	Microsoft .NET Framework Version 2.0 Redistributable Package or later	See ".NET target development and deployment" above.
JDBC connectivity (Enterprise only)	Sun JDK 1.3 or later	Sun JDK 1.5 is installed in the *Sybase\Shared\PowerBuilder\jdk1.5.0_12* directory when you install PowerBuilder.

Starting the PowerBuilder setup program

To install PowerBuilder, insert the PowerBuilder DVD into your DVD drive. The setup program starts automatically.

Installing from a downloaded image
If you have downloaded an installable image from the Sybase Web site, run the *autorun.exe* file. If you run *setup.exe*, the procedure described in "Installing PowerBuilder" on page 12 starts and you will not be able to install SQL Anywhere.

❖ **To start the setup program:**

1   Exit any programs that are running.

2   Insert the PowerBuilder 11.5 DVD into your DVD-ROM drive.

    On the start page of the setup wizard, you can choose to install PowerBuilder 11.5 and SQL Anywhere 11.0.

3   Select SQL Anywhere 11.0 first if it is not already installed.

    For how to install SQL Anywhere, see "Installing SQL Anywhere" on page 10.

SQL Anywhere required
If you select PowerBuilder and the setup program detects that SQL
Anywhere is not installed on your system, it displays a warning message
that allows you to exit the PowerBuilder setup program and return to the
start page and select SQL Anywhere. If you choose not to install SQL
Anywhere, the features that depend on it, listed in Table 1-4 on page 7, are
not installed.

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4   Select PowerBuilder 11.5.

Selecting PowerBuilder 11.5 starts a wizard that collects basic information
before installing PowerBuilder. You will need to provide license
information. For more information, see "Installing PowerBuilder" on
page 12.

Installing SQL Anywhere

Sybase SQL Anywhere is a fully-featured relational database and data
management tool. The SQL Anywhere installation is restricted to development
use only. Deployed systems require a separate SQL Anywhere license or the
SQL Anywhere Runtime Edition (see "SQL Anywhere Runtime Edition"
next).

The SQL Anywhere 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.

SQL Anywhere
Runtime Edition

PowerBuilder also includes the SQL Anywhere for Windows royalty-free
runtime edition (the "SQL Anywhere Runtime Edition"). The SQL Anywhere
Runtime Edition is a restricted-functionality version of the standalone version
of SQL Anywhere. For example, the SQL Anywhere Runtime Edition does not
support stored procedures and triggers, transaction logs, and synchronization.

The SQL Anywhere setup program included on the PowerBuilder installation
DVD installs the SQL Anywhere Runtime Edition by default. For more
information, including the list of Redistributable Components of the SQL
Anywhere Runtime Edition, see the *RuntimeEdition.html* file in the main SQL
Anywhere 11 directory.

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

❖   **To install SQL Anywhere:**

1   In the Choose Setup Language dialog box, select the language you want to use in the Installation wizard and click OK.

2   Select Install SQL Anywhere 11 to start the wizard.

3   On the Welcome page, click Next.

4   On the License Agreement page, select your location from the drop-down list, read the license agreement, select the "I accept the terms of this agreement" radio button, and click Next to continue.

5   On the Setup Type page, select Complete if you want to install all components, or select Custom and click Next.

6   If you selected Custom in the previous step, click the down arrow next to any feature you do not want to install, select "This feature will not be available" from the cascading menu, and click Next.

7   On the Ready to Install the Program page, select Install to begin the installation.

8   On the Setup Complete page, select the check box if you want to view the ReadMe file or the iAnywhere Online Resources page, and click Finish to return to the start page of the SQL Anywhere 11.0 setup program.

Installing SQL Anywhere documentation
If you want to install documentation for SQL Anywhere, select Install SQL Anywhere Documentation. On the Welcome page, click Next. On the Setup page select Complete if you want to install the documentation in both HTML and PDF formats, or select Custom if you to install documentation in only one of these formats.

If you selected custom, select the down arrow next to the format you do not want to install, then select "This feature will not be available" and click Next. Click Install to install the documentation, then click Finish to return to the start page of the SQL Anywhere 11.

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9   Select Exit to return to the PowerBuilder installation program.

Installing PowerBuilder

What to install

The PowerBuilder setup program lets you choose which components to install. You must install the base components. Table 1-5 lists all the components and lists the features that will be available to you when you start your edition of PowerBuilder. If you want to be able to upgrade to another edition later without running the setup program again, leave all the features you might want to use selected. If you do not plan to upgrade and want to conserve disk space, use the table to determine which features you need not install.

For more information about upgrading, see "Upgrading a local license" on page 4.

Table 1-5: PowerBuilder components

Component	Description	Edition
PowerBuilder Base Components	Includes the PowerBuilder ODBC driver, Orca Software Development Kit (SDK), the PowerBuilder Document Object Model extension, the ability to save DataWindow objects as PDF using the distill or XSL-FO methods, support for rich text, JDK 1.5, and (for Enterprise) support for EAServer and COM/COM+.	All
.NET Targets	Deploying Windows Forms, smart client, and Web Forms applications to .NET and deploying NVOs as .NET assemblies and Web services.	Professional (Windows Forms only) Enterprise
Native Database Interfaces	Interfaces that enable you to interact with server databases natively. Expand the tree view to select which interfaces to install.	Enterprise
ADO.NET Driver	Interface to connect to databases using an ADO.NET data provider.	Enterprise
OLE DB Driver	Interface to connect to databases using an OLE DB data provider.	Enterprise
JDBC Driver	Interface to connect to databases using JDBC.	Enterprise
SCC Interface	Interface for connecting to any source code control system that supports the Microsoft SCC interface. (Professional and Enterprise.)	Professional Enterprise
DataWindow Web Control for ActiveX	The DataWindow Web Control for ActiveX is a fully interactive DataWindow control. It requires a browser that supports ActiveX.	Professional and Enterprise only
PowerBuilder Native Interface	An SDK for developing extensions to PowerBuilder in C++. Optional wizards are installed in Visual Studio 2005 and Visual Studio .NET 2002 and 2003 if they are available on your system.	All

Component	Description	Edition
EJB Client	The EJB Client PBNI extension, which enables you to develop clients for EJBs running on J2EE-compliant servers.	Enterprise
Web Services	The PowerBuilder extensions and other files that enable you to create clients for Web services using the .NET or EasySoap Web service engines.	Enterprise
PowerDesigner Plug-in	A plug-in that provides the class diagram functionality of the PowerDesigner OOM inside the PowerBuilder development environment.	Enterprise
PowerBuilder Tutorial	Source files for the tutorial in the Getting Started book. If you want to do the PowerBuilder tutorial or use the code examples, you must install SQL Anywhere 11.0 or later if it is not already installed on your computer. When you install PowerBuilder, the setup program creates an ODBC data source for the demo database. If SQL Anywhere is not installed on your system when you install PowerBuilder, setup does not install the demo database, code examples, or tutorial files.	All
Demo Database	A SQL Anywhere database used in the tutorial, the Code Examples sample application, and examples in the documentation.	All
Code Examples	The Code Examples application, which demonstrates coding techniques, the Web DataWindow PBL, which can be used as a model for a custom Web DataWindow server component, and other examples.	All
Translation Toolkit	Tools to help you translate PowerBuilder applications into other languages.	Enterprise
PowerBuilder Resource Manager	A utility to help PowerBuilder determine whether there are sufficient USER/GDI resources available in the operating system to open a painter.	All
PowerBuilder Runtime Packager	A tool that packages files required for deployment into an MSI file.	All
Online Help Files	The *pbhlp115.hlp* file, the Getting Started book in PDF format, and the *pbman115.chm* compiled HTML Help file.	All

Installation procedure

You must have Administrator privileges to fully install this product. After installing, make sure users have write permission for the PowerBuilder 11.5 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   Select PowerBuilder 11.5.

2   On the Welcome page, click Next.

If you have not installed prerequisites for any feature, the next page in the wizard informs you what needs to be installed. You can click Cancel to exit the wizard or Next to continue without installing the prerequisites. For more information, see Table 1-4 on page 7.

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

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3   On the License Type page, select the type of license you want to use.

If you select Evaluation You can use PowerBuilder without purchasing a license for a 30 day testing period. When you click Next after selecting the Evaluation license type, the License Agreement page displays and you can continue with the installation at Step 5 of this procedure. The Evaluation license allows you to install the Enterprise edition of PowerBuilder for evaluation purposes only..

If you select Standalone Seat - Local License When you click Next, the License Key page displays. Click the Load button, navigate to the location of your license file, select it and click Open, then click Next. Wait for a few seconds while the setup program validates the license.

If you select Standalone Seat - Served When you click Next, the Server Information page displays. Enter the name of the license server provided by your system administrator. You may also need the TCP port number if the administrator who installed the license server defined a non-default TCP port number. Click Next and wait for a few seconds while the setup program validates the license.

Proceeding without a valid license

You can select the local license or served license option without loading a license file or entering a server location. If you do this and click Next, the setup program displays an error message box. After you close the error message, additional dialog boxes ask if you want to proceed and prompt you to certify that you will obtain a valid license key within 30 days. Clicking Yes in these dialog boxes allows you to proceed with product installation, but the installed products cease to function after 30 days unless you install a valid license file or license server before the trial period expires.

For more information, see "Product licensing with SySAM 2.0" on page 4.

4   If the Select Edition page displays, select your edition of PowerBuilder and click Next.

5   On the License Agreement page, select your location from the drop-down list, read the license agreement, select the I AGREE radio button, and click Next to continue.

6   On the Customer Information page, enter your name and your company's name.

7   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.

8   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.

9   On the Select Components page, select PowerBuilder and click Next to continue.

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.

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10 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.

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11 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.

12 On the Select Components page, clear the check box next to any components you do not want to install, 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.

You must select the PowerBuilder Base Components option. For information on what to select, see "What to install" on page 12.

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

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13 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.

14 On the Start Copying Files page, review your settings, then click Next to begin installing files or Back to change your selections.

15 On the InstallShield Wizard Complete page, select the check box if you want to read the Readme file, and click Finish.

You must close the Readme file to continue. PowerBuilder registers the components you installed.

16 On the next InstallShield Wizard Complete page, click Finish to complete the installation.

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

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

You should always shut down and restart your computer before using PowerBuilder.

Completing the setup program

After the products you selected have been installed, return to the setup program's start page and exit the PowerBuilder setup program.

❖ **To complete the PowerBuilder setup program**

- On the setup program's start page, choose to view the readme, open the Product Manuals Web site or Sybase Web site, and click Exit to close the setup program.

Network install
The installation procedure presented above assumes you are installing from the PowerBuilder DVD. If you are a system administrator and your site has multiple licenses, you might want to allow users to install PowerBuilder from a network drive rather than from the DVD. To do this, copy the files from the DVD into a directory on a network drive. Users can then install PowerBuilder by running the setup program from the network. Users must have administrative privileges on their computers in order to run the setup program.

What the setup program does

The setup program does the following:

- Installs Sybase files in a *Sybase* directory

- Installs writable Sybase files to directories in FDCC-compliant paths

- 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*

Files shared by all users

As part of its FDCC compliance configuration, PowerBuilder installs writable files that are shared by all users in the *C:\Documents and Settings\All Users\Documents\Sybase\PowerBuilder 11.5* directory on Windows XP and Windows 2003, and in *C:\Users\Public\Documents\Sybase\PowerBuilder 11.5 on Windows Vista and Windows 2008*. These files include:

- The EASDemo databases (*easdemo115.db* and *easdemo115u.db*)

- All Code Examples directories and files

- The PowerBuilder Windows Help and compiled HTML Help files

- The Translation Toolkit directories and files

Files reserved for Individual users

Other writable files are installed in the default *Program Files\Sybase* subdirectories, but are copied to different locations the first time a user starts PowerBuilder. In this way, each PowerBuilder user gets a private copy of these files.

The following table lists the files that are copied and updated in the directories of all users who run an instance of PowerBuilder. The path variable in the table header (*UserName*) stands for the user name of a PowerBuilder user. For Windows XP and 2003, this is under the *C:\Documents and Settings* directory. For Windows Vista and 2008, this is under the *C:\Users* directory.

In C:\...\UserName\ subdirectory	Files copied or updated
On Windows XP and 2003: *Local Settings\Application Data\Sybase\PowerBuilder 11.5* On Windows Vista and 2008: *AppData\Local\Sybase\PowerBuilder 11.5*	• Initialization files (*PB.INI*, *PBLAB115.INI*, *PBODB115.INI*) • License files (*PB115.LIC*, *pb115_sysam.properties*)
On Windows XP and 2003: *My Documents\Sybase\PowerBuilder 11.5\Tutorial* *On Windows Vista and 2008: Documents\Sybase\Power-Builder 11.5\Tutorial*	• Files for the PowerBuilder Getting Started tutorial

The locations of writable PowerBuilder files reserved for individual use are set in HKEY_CURRENT_USER registry entries for each PowerBuilder user. For example, the location of the *PB.INI* file that is copied to each user's local application data directory is registered under the registry key *HKEY_CURRENT_USER\Sybase\PowerBuilder\11.5\InitPath*.

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 HTML Help files to the registry path *HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\HTMLHelp*

Silent install and uninstall

You can install and uninstall PowerBuilder 11.5 without displaying messages or windows during the setup or removal process. However, you must accept the Sybase license agreement before you can run the silent install file. You can indicate your acceptance by typing the following line in a DOS command box before you type in the silent install batch file command:

```
SET  AgreeToSybaseLicense=true
```

If the DOS prompt does not display the main PowerBuilder installation directory, you must change to that directory. From the same DOS command box, you can then run the silent install using the following syntax:

silentinstall.bat ["lic=*licPathNameOrServerName*" "opt=*product*" "dir=*directoryName*" "shr=*sharedDirectoryName*" "log=*logFileName*"]

Modifying the batch file directly
You can indicate your acceptance of the Sybase license agreement by directly editing the *silentinstall.bat* file. You do this by changing the line in the batch file that reads set AgreeToSybaseLicense=false. You must change this line to read set AgreeToSybaseLicense=true. After you make this change, you can double-click the *silentinstall.bat* file to run the install with default selections rather than running it from a command line.

You can use the DOS command line to provide help for silent install parameters. The help is available by typing Help or a question mark after entering silentinstall.bat on the command line.

All of the parameters for the silent install are optional. If you do not provide a value for the "lic" parameter, the installer searches the files in the installer directory in ascending alphabetic order for a valid license file. It uses the first valid license file it finds to install PowerBuilder and InfoMaker. If you do not provide the "lic" parameter and there is no license file in the installer search path, an evaluation version of PowerBuilder is installed.

The parameters can be listed in any order and are not case sensitive. Parameter values are also not case sensitive.

Silent install parameter	Description
licPathNameOrServerName	The full path to a valid license file with an LIC extension, or the name of a server hosting a served license. If a license server requires a port number, you can include the port number after the server name separated by a colon. For example: silentinstall.bat "lic=myServer:1688"
product	Names the product or products to install. Values are: • **All** (default) Installs PowerBuilder and, with a PowerBuilder Enterprise license, InfoMaker • **PB** Installs PowerBuilder only • **IM** Installs InfoMaker only (not available for PowerBuilder Desktop or Professional)
directoryName	Indicates the main installation directory. If you omit this parameter, the main product components install to the *sysDriver\Program Files\Sybase \PowerBuilder 11.5* directory, where *sysDriver* is the main computer drive.
sharedDirectoryName	Indicates the shared directory for PowerBuilder or InfoMaker. If you omit this parameter, this directory installs to *sysDriver\Program Files\Sybase\Shared*.
logFileName	Names the log file for the installation. If you omit this parameter, the log file is written to the system *Temp* directory with the file name *silentinstall.log*.

If the license file you point to in the *licPathNameOrServerName* parameter is a professional or desktop license, InfoMaker will not be installed.

The following example uses all five parameters for the silent install command:

```
silentinstall.bat "lic=D:\pb115\pb115.lic"
"opt=pb" "dir=D:\pb115" "shr=D:\shared"
"log=D:\install.log"
```

You run the standard silent uninstall by double-clicking the *silentuninstall.bat* file or running it from a command line.

Before using PowerBuilder

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

- Migrating applications to PowerBuilder 11.5

- Setting up your DBMS

- Installing Ghostscript

- Installing PostScript drivers

Migrating applications to PowerBuilder 11.5

If you have applications and PBLs that you created in an earlier version of PowerBuilder, you can migrate them to version 11.5. Before you do, make sure your PBLs can be successfully regenerated under the earlier version, and make backup copies.

PowerBuilder 11.5 is 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 *Users 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. For details, see *Connecting to Your Database*.

Installing Ghostscript

If you want to use the distill method for saving DataWindows as PDF, you must install Ghostscript.

❖ **To install Ghostscript:**

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

See the PowerBuilder release bulletin for the version of Ghostscript that was used for testing.

2   Run the executable file to install Ghostscript on your system.

The default installation directory is *C:\Program Files\gs*.

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.

Installing PostScript drivers

If you want to use the distill method for saving DataWindows as PDF, you must have a PostScript printer or printer driver installed on your system. If you do not, use the Windows Add Printer wizard to add a PostScript printer. If you have never installed a PostScript printer, the Microsoft *pscript5.dll* file, which is required to add a PostScript printer, may not be available on your computer. You may be prompted to insert a Windows operating system installation CD.

❖   **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 LaserJet Series 4050 PS).

> **Note**
> Some printers do not handle images correctly. For example, the HP Color LaserJet PS dos not display images in the PDF output and the HP LaserJet 4/4M Plus PS 600 displays color images using greyscale.

6   Accept the default name or enter a shorter name for the printer.

7   Complete the wizard.

❖   **To use the 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 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 Series 4050 PS"
```

Troubleshooting SySAM issues

If you experience issues with your SySAM license, read this section to find information that might help you troubleshoot licensing issues, or help you collect information that Technical Support can use to diagnose licensing issues. You can find more information about SySAM licensing on the SySAM Web site at http://www.sybase.com/sysam and in the SySAM Documentation at http://infocenter.sybase.com/help/index.jsp?topic=/com.sybase.help.sysam/title.htm.

Logging SySAM information

You can enable logging by adding an entry to the *PB.INI* file with the following format, where N is 0, 1, or 2:

```
[pb]
LogSySAM = N
```

The default value for LogSySAM is 0, which means no logging. Set the value to 1 for basic logging information, or 2 for full information. The log file is saved in the same directory as *PB.INI* and is named *PB115_sysam.log*. The file contains status information from the development environment, the details of the current license, and, if you set the SySAMTrace value in *PB.INI*, information from the SySAM API. Technical Support might ask you to set these values if you experience license problems.

PB.INI directory

Although *PB.INI* is installed by the setup program to the main installation directory, PowerBuilder does not use or modify the *PB.INI* file in this directory. Instead, PowerBuilder creates a personal copy of the *PB.INI* file the first time you or another user starts PowerBuilder, and this is the initialization file that PowerBuilder uses.

On Windows XP and Windows 2003, the directory containing the personal copy of the *PB.INI* file is *C:\Documents and Settings \userName\Local Settings\Application Data\Sybase\PowerBuilder 11.5*, where *userName* is the name of the current PowerBuilder user. A personal SySAM log file is saved to this directory, and local license files are kept in this directory for each PowerBuilder user. The name of this directory on Windows Vista and Windows 2008 is *C:\Users\userName\AppData\Local\Sybase\PowerBuilder 11.5*.

Additional SySAM files

The *pb115_sysam.properties* and *PB115.lic* files are installed in the same directory as *PB.INI*. These files contain information that might be useful to Technical Support. Do not edit these files unless directed to do so by Technical Support.

Served license issue

If you enter an unqualified server name, such as "myserver" as the license server name, it might not be found. Try a fully-resolved name, such as "myserver.mydomain.com."

Removing a product

If you want to remove products from your computer, you should use the Windows control panel's Add or Remove Programs dialog box for each product you want to remove. This uses the PowerBuilder setup maintenance program to remove:

- Shared and standard program files

- Folder items

- Program folders

- Program directories

- Program registry entries

The setup maintenance program 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 setup program increments the usage count in the registry for each shared Sybase DLL and each shared system DLL. The setup maintenance program decrements that count. The setup maintenance program does not try to delete a shared DLL until the usage count reaches zero.

Stopping the setup maintenance program

Unlike the setup program, the setup maintenance program has no Back or Cancel button. Once you click Yes in the procedure below, the program cannot be stopped.

❖ **To use the setup maintenance program 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 product to remove, 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.

If the usage count for a system file in the registry indicates that the file is no longer being used, the setup maintenance program 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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