

Installation Guide for PowerBuilder 2017

PowerBuilder® 2017
FOR WINDOWS

DOCUMENT ID: ADC20231-01-2017-01

LAST REVISED: July 04, 2017

Copyright © 2017 by Appeon Limited. All rights reserved.

This publication pertains to Appeon software and to any subsequent release until otherwise indicated in new editions or technical notes. Information in this document is subject to change without notice. The software described herein is furnished under a license agreement, and it may be used or copied only in accordance with the terms of that agreement.

No part of this publication may be reproduced, transmitted, or translated in any form or by any means, electronic, mechanical, manual, optical, or otherwise, without the prior written permission of Appeon Limited.

Appeon and other Appeon products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of Appeon Limited.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP and SAP affiliate company.

Java and all Java-based marks are trademarks or registered trademarks of Oracle and/or its affiliates in the U.S. and other countries.

Unicode and the Unicode Logo are registered trademarks of Unicode, Inc.

All other company and product names used herein may be trademarks or registered trademarks of their respective companies.

Use, duplication, or disclosure by the government is subject to the restrictions set forth in subparagraph (c)(1)(ii) of DFARS 52.227-7013 for the DOD and as set forth in FAR 52.227-19(a)-(d) for civilian agencies.

Appeon Limited, 1/F, Shell Industrial Building, 12 Lee Chung Street, Chai Wan District, Hong Kong.

Contents

1	Installation Guide	1
2	Installation Workflow	2
3	Planning Your Installation	3
3.1	Installation Package Contents	3
3.2	System Requirements	3
3.3	Software Requirements	3
4	Preinstallation Tasks	6
5	Starting the Common Setup Program	7
6	Providing Basic Information	8
7	Installing PowerBuilder	9
7.1	PowerBuilder Components	9
8	Completing the Setup Program	11
8.1	What the Setup Program Does	11
8.1.1	Writable files shared by all users	11
8.1.2	Files reserved for individual users	12
8.1.3	Registry changes	12
9	Installing in Silent (Unattended) Mode	13
9.1	Accepting the License Agreement	13
9.2	Specifying the SQL Anywhere Engine	13
9.3	Silent Install Commands	13
10	Postinstallation Tasks	15
10.1	Upgrading Databases for jConnect for JDBC	15
10.2	Installing Ghostscript	15
10.3	Installing PostScript Drivers	16
11	Activating PowerBuilder	17
11.1	Online activation	17
11.2	Offline activation	18
12	Uninstalling PowerBuilder	21
13	Obtaining Help and Additional Information	23
13.1	Technical Support	23
14	Important Disclaimers on Legal Aspects	24
15	Copyright / Legal Notice	25
	Index	26

1 Installation Guide

This guide is for anyone installing Appeon PowerBuilder.

Read this guide before you run the setup program to install PowerBuilder.

2 Installation Workflow

This workflow defines a path for planning and installing PowerBuilder®.

Installing the product

1. [Chapter 3, *Planning Your Installation*](#)
2. [Chapter 4, *Preinstallation Tasks*](#)
3. Choose one of these install methods:
 - [Chapter 5, *Starting the Common Setup Program*](#)
 - [Chapter 9, *Installing in Silent \(Unattended\) Mode*](#)
4. [Chapter 10, *Postinstallation Tasks*](#)

Uninstalling

[Chapter 12, *Uninstalling PowerBuilder*](#)

3 Planning Your Installation

Before you install or upgrade, prepare your environment.

- Identify the components and options to install or upgrade.
- Make sure your system meets installation requirements.
- Obtain a license.
- Identify software required.

3.1 Installation Package Contents

The PowerBuilder x86 32-bit installation package contains the common setup program for PowerBuilder 2017, and a support folder that contains files that can be used to rebuild the PowerBuilder extensions for Web services clients and other supporting files.

3.2 System Requirements

Make sure your system meets all requirements before you install PowerBuilder. See the release bulletin for the most current information about required service packs.

Table 3.1: System Requirements for PowerBuilder

Product	Computer	Minimum memory	Hard disk space	Operating system
This table provides system requirements for PowerBuilder. The disk space requirements provided are approximate. The actual disk space you need for each product 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	Intel Core i3 or higher	1GB	2GB for all components	Windows 7 32- or 64-bit with SP1, Windows 8.1, Windows 10 32- or 64-bit, Windows Server 2008 32- or 64-bit with SP2, Windows Server 2012 R2, or Windows Server 2016. ^a

^aSupports Windows Server 2008/2012/2016 runtime only, not development.

3.3 Software Requirements

Identify the software requirements for PowerBuilder.

Table 3.2: Required Software for PowerBuilder features

Feature	Required Software
The following table lists the software required for PowerBuilder features.	
Install any required framework packages and SDKs before you install PowerBuilder. Microsoft developer software is available from the Microsoft Download Center .	

Feature	Required Software
Read this table carefully to determine whether you need to install any software before you run the setup program, and whether you need to install SQL Anywhere before installing PowerBuilder. If you select a feature with a prerequisite that is not yet installed, the setup program displays a warning message.	
.NET Web services local host deployment	<p>Microsoft Internet Information Services (IIS) 5.0 or higher.</p> <hr/> <p>Note</p> <p>On the development computer, IIS is not required for PowerBuilder applications or components unless the same computer is used as server for smart client applications, or for Web service components. IIS is also not required on end users' computers.</p> <hr/> <p>For information about configuring IIS, see <i>Deploying Components as .NET Assemblies or Web Services</i> in the help.</p>
PowerBuilder tutorials, demo databases, and sample applications	<p>SQL Anywhere 12 thru 17.</p> <p>SQL Anywhere can be downloaded from the SAP Web site. If the setup program does not detect SQL Anywhere 12, 16 or 17 on your computer, it displays a warning.</p> <p>If you choose to continue, the setup program does not install the tutorials or register the demo databases. To use these features later, install SQL Anywhere first, then reinstall PowerBuilder.</p>
MobiLink™ synchronization	<p>Adaptive Server® Anywhere 9.0.2 to SQL Anywhere 16.</p> <p>MobiLink is a component of Adaptive Server Anywhere and SQL Anywhere. In the SQL Anywhere setup program, select Synchronization and Messaging, and then MobiLink.</p>
EJB client development	<p>J2EE-compliant application server such as BEA WebLogic 8.1 and later, or IBM WebSphere 6.x.</p> <p>Oracle JDK. The Oracle JDK is installed in the <i>Appeon\Shared\PowerBuilder\Jdk1.6.0_24</i> directory when you install PowerBuilder.</p>
Web service clients and Web Service DataWindow in PowerBuilder	<p>Microsoft .NET Framework Version 4.0 or later.</p>
Saving DataWindows as PDF using the Ghostscript distiller and PostScript printing	<p>Ghostscript and PostScript printer driver.</p> <p>See Section 10.2, “Installing Ghostscript” and Section 10.3, “Installing PostScript Drivers”.</p>
Saving DataWindows as PDF using XSL	<p>Oracle JDK and Apache FO processor.</p>

Feature	Required Software
Formatting Objects (FO) and Java printing	<p>The Oracle JDK is installed in the <i>Appeon\Shared\PowerBuilder\Jdk1.6.0_24</i> directory when you install PowerBuilder.</p> <p>The Apache FO processor is installed in the <i>Appeon\Shared\PowerBuilder\fo-0.20.5</i> directory when you install PowerBuilder.</p>
Data access using the ADO.NET interface	Microsoft .NET Framework Version 4.0 Redistributable Package.
JDBC connectivity	Oracle JDK. <p>The Oracle JDK is installed in the <i>Appeon\Shared\PowerBuilder\Jdk1.6.0_24</i> directory when you install PowerBuilder.</p>
Runtime Packager	Microsoft Windows Installer. <p>Microsoft Windows Installer is installed by default on all supported Windows platforms.</p>

4 Preinstallation Tasks

This topic describes tasks to perform before installation.

- 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 bulletin is available on the Appeon web site at https://www.appeon.com/support/documents/appeon_online_help/pb2017/release_bulletin_for_pb (for PowerBuilder) and https://www.appeon.com/support/documents/appeon_online_help/pb2017/release_bulletin_for_im (for InfoMaker).
- Make sure the drive on which 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 frees the space after the installation is complete.
- Close any open applications.
- Back up any files created with earlier versions of Appeon 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.

In addition to backing up your PBLs, 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 more information about backing up and migrating existing applications, see [Chapter 10, Postinstallation Tasks](#).

- Read [Section 3.3, “Software Requirements”](#) to determine whether you need to install any software before installing PowerBuilder 2017.

5 Starting the Common Setup Program

Use the downloaded image to start the PowerBuilder setup program.

This procedure describes how to begin a local installation from a downloaded image. If you are a system administrator and want to allow users to install PowerBuilder from a network drive instead, copy the files from the downloaded image into a directory on a network drive. Users can then install PowerBuilder by running the setup program from the network.

Follow these steps to begin the PowerBuilder installation.

1. Exit any programs that are running.
2. Launch the PowerBuilder setup program.
 - To install from the installation package that you have downloaded from the Appeon web site, run the *Autorun.exe* file.
 - To install from a local network drive, follow your administrator's instructions for accessing and running the setup program there.
3. Click **Install** to start the common setup program.

The setup program collects basic and licensing information before launching the individual setup programs for PowerBuilder, and/or PowerServer.

6 Providing Basic Information

The common setup wizard collects basic information before beginning the PowerBuilder installation.

Note

Click **Cancel** to interrupt the installation at any point during this procedure. You can then either exit or resume the common setup. If you choose to exit, you can stop the current installation and continue with your other selections, or end the setup completely.

To provide basic information before installing PowerBuilder:

1. On the start page of the setup program, select **Install**.
2. On the Welcome page, click **Next**.

If you have not installed prerequisites for the current feature, the next page in the wizard informs you what needs to be installed. Click **Cancel** to exit the wizard, or **Next** to continue without installing the prerequisites.
3. On the License Agreement page, read the license agreement, select the **I accept the terms of the license agreement** radio button, and click **Next** to 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**.
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**. Use the same folder for shared files for all products in this set.
7. On the Specify the SQL Anywhere Engine page, select the location of a SQL Anywhere engine that will be used to run the demo database (PB demo DB) and click **Next**.
8. On the Select Products page, select **PowerBuilder** and click **Next** to continue.

If you are installing the Universal edition of PowerBuilder, you can also select to install the PowerServer products. For installation instructions, refer to the PowerServer Help.
9. Complete the setup program for the product you selected.

7 Installing PowerBuilder

Run the setup program to install PowerBuilder.

Prerequisites

You must have Administrator privileges to fully install this product.

Procedure

1. On the Select Products page, make sure **PowerBuilder** is selected, and click **Next**.
2. On the Select Components page, unselect any components you do not want to install, and click **Next**.

You cannot unselect the **PowerBuilder Base Components** option.

Select or unselect the check boxes of individual components, or click **Select All** or **Unselect All** to change all the check boxes.

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

3. On the Select Program Folder page, select the program folder to which program icons will be added, or specify a new one; then click **Next**.
4. On the Start Copying Files page, review your settings, then click **Next** to begin installing files, or **Back** to change your selections.
5. On the InstallShield Wizard Complete page, click **Finish** to return to the common setup program.

After installing, make sure users have write permission for their user profile directories (for example, *Public Documents* in Windows 7), and for *HKEY_CURRENT_USER* in the Windows registry.

7.1 PowerBuilder Components

The setup program lets you choose which PowerBuilder components to install.

Table 7.1: Components

Component	Description
PowerBuilder Base Components	Installs the 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, and Oracle JDK. You must install the base components: you cannot unselect this option.
Native Database Interfaces	Interfaces that enable you to interact with server databases natively. Expand the tree view to select interfaces to install.
ADO.NET Driver	Interface to connect to databases using an ADO.NET data provider.
OLE DB Driver	Interface to connect to databases using an OLE DB data provider.

Component	Description
JDBC Driver	Interface to connect to databases using JDBC.
SCC Interface	Interface for connecting to any source code control system that supports the Microsoft SCC interface.
PB 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.
EJB Client	The EJB Client PBNI extension, which enables you to develop clients for EJBs running on J2EE-compliant servers.
Web Services	The extensions and other files that enable you to create clients for Web services using the .NET or EasySoap Web service engines.
Tutorial	Source files for the tutorial in the Getting Started book. If you want to do the PowerBuilder tutorial or use the code examples, install SQL Anywhere 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.
Demo Database	A SQL Anywhere database used in the tutorial, the Code Examples sample application, and examples in the documentation.
Code Examples	The Code Examples application, which demonstrates many coding techniques.
Translation Toolkit	Tools to help you translate applications into other languages.
PowerBuilder Resource Monitor	A utility to help determine whether there are sufficient USER/GDI resources available in the operating system to open a painter.
PowerBuilder Runtime Packager	A tool that packages files required for deployment into an <i>MSI</i> file.
Help Files	Help files for PowerBuilder.

8 Completing the 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 unselect the check boxes on this page, setup displays the readme file.

2. On the System Reboot Required page, click **Finish** to reboot your computer, or choose to reboot your computer later.

After installing PowerBuilder, always shut down and restart your computer before using it.

PowerBuilder generates a log file *PBLog_2017.txt* in %Windows%\System32\AppeonInstallLog.

8.1 What the Setup Program Does

The setup program installs files and updates the Windows registry.

The setup program:

- Installs Appeon files in an *Appeon* directory
- Installs writable Appeon files to directories that are shared by all users
- 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 the INI file *PB.INI* (for PowerBuilder)

8.1.1 Writable files shared by all users

As part of its Federal Desktop Core Configuration (FDCC) compliance configuration, PowerBuilder installs writable files that are shared by all users. On Windows 7/8.1/10, it is *C:\Users\Public\Documents\Appeon\PowerBuilder 17.0*.

The shared files include:

- The PB Demo databases (*pbdemo2017.db* and *pbdemo2017u.db*)
- All Code Examples directories and files
- The PowerBuilder compiled HTML Help files
- The Translation Toolkit directories and files

8.1.2 Files reserved for individual users

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

The following table lists the files that are copied and updated in the directories of users. In the table header, *UserName* is a variable that can be replaced by the user name of a PowerBuilder user. For Windows 7, the *UserName* directory is under the *C:\Users* directory.

Table 8.1:

In <i>C:\...\UserName\</i> subdirectory	Files copied or updated
On Windows 2008, Windows 7/8.1/10: <ul style="list-style-type: none"> <i>AppData\Local\Appeon\PowerBuilder 17.0</i> 	<ul style="list-style-type: none"> Initialization files (<i>PB.INI</i>, <i>PBLAB170.INI</i>, <i>PBODB170.INI</i>)
On Windows 2008, Windows 7/8.1/10: <ul style="list-style-type: none"> <i>Documents\Appeon\PowerBuilder 17.0\Tutorial</i> 	<ul style="list-style-type: none"> 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\Software\Sybase\PowerBuilder\17.0\InitPath*.

8.1.3 Registry changes

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

- Creates or updates the 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 of compiled HTMLHelp files to the registry path *HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\HTMLHelp*

9 Installing in Silent (Unattended) Mode

Install PowerBuilder from a Command Prompt window or script, without displaying messages or windows during the setup process.

Prerequisites

Complete installation planning.

1. Accept the license agreement.
2. Specify the SQL Anywhere engine.
3. Configure the **silentinstall.bat** file.
4. Run **silentinstall.bat** to install PowerBuilder.

9.1 Accepting the License Agreement

Accept the Appeon license agreement before running the silent installation.

Edit the *silentinstall.bat* file (for Universal Edition) or *silentinstall_st.bat* file (for Standalone Edition) located in the installation package and change the value of set AgreeToAppeonLicense from false to true. After you make this change, you can double-click the *silentinstall.bat* or *silentinstall_st.bat* file instead of running it from a Command Prompt window.

```
set AgreeToAppeonLicense=false
```

9.2 Specifying the SQL Anywhere Engine

Specify the location of a SQL Anywhere engine before running the silent installation.

For the Universal Edition, edit the *setup.iss* file located in the installation package and set the value of szSqlAnywhereDir.

For the Standalone Edition, edit the *pbsetup.iss* file located in the installation package and set the value of szSqlAnywhereDir.

```
szSqlAnywhereDir=C:\Program Files\SQL Anywhere 16\Bin64
```

9.3 Silent Install Commands

This topic describes the *silentinstall* command syntax for PowerBuilder.

To run the silent installation from a Windows Command Prompt, run this command in the installation package (*silentinstall.bat* for Universal Edition, *silentInstall_st.bat* for Standalone Edition):

```
silentinstall.bat  
[ "opt=product" "dir=directoryName" "shr=sharedDirectoryName" "log=logFileName" ]  
[ { help | /? } ]
```

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

Table 9.1:

Silent installation parameter	Description
opt	Names the product or products to install. This parameter is optional to the Standalone Edition. For the Universal Edition, values are: <ul style="list-style-type: none"> • All Installs PowerBuilder, PowerServer Mobile, PowerServer Toolkit, & PowerServer Help • PB Installs only PowerBuilder • PSM Installs only PowerServer Mobile • PST Installs only PowerServer Toolkit • PSH Installs only PowerServer Help
dir	Indicates the main installation directory. If you omit this parameter, silentinstall installs the product to the <i>sysDriver\Program Files\Appeon\productName</i> directory, where <i>sysDriver</i> is the main computer drive, and <i>productName</i> is PowerBuilder 2017.
shr	Indicates the shared directory for PowerBuilder. If you omit this parameter, this directory installs to <i>sysDriver\Program Files\Appeon\Shared</i> .
log	Names the log file for the installation. If you omit this parameter, the log file is written to the system <i>Temp</i> directory with the file name, <i>silentinstall.log</i> .
help or /?	Displays command syntax and parameters instead of running the command.

The following example uses all parameters for the silent installation command:

```
silentinstall.bat "opt=pb" "dir=D:\appeon\pb170" "shr=D:\appeon\shared" "log=D:\appeon\install.log"
```

When installing PowerBuilder, the silent installation writes warnings to its log file if the setup computer does not have the correct version any of these items:

- SQL Anywhere
- Microsoft .NET Framework
- Microsoft .NET Framework SDK
- Microsoft IIS

10 Postinstallation Tasks

Before using PowerBuilder after installation, you might need to perform some migration or configuration tasks.

- Migrating applications to the current version of PowerBuilder 2017

If you have applications and PowerBuilder library files (PBLs) that you created in an earlier version of PowerBuilder, you can migrate them to version 2017. Before you do, make sure your PBLs can be successfully regenerated under the earlier version, and make backup copies.

PowerBuilder 2017 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 Users Guide*.

Also read the [migration issues](#) section in the PowerBuilder release bulletin and the [Migrating PowerBuilder Applications](#) technical document.

- Setting up your DBMS

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

- Upgrading databases for jConnect for JDBC

Might be required to prepare SQL Anywhere or Adaptive Server® Enterprise databases for jConnect 5.5.

- Installing Ghostscript

Required if you want to use the distill method for saving DataWindows as PDF.

- Installing PostScript drivers

Required if you want to use the distill method for saving DataWindows as PDF.

10.1 Upgrading Databases for jConnect for JDBC

Prepare SQL Anywhere or Adaptive Server Enterprise databases for jConnect by installing additional tables and stored procedures.

jConnect provides these scripts to install the required stored procedures and tables. Refer to the installation guide for jConnect for detailed information.

10.2 Installing Ghostscript

Install Ghostscript if you plan to use the distill method for saving DataWindows as PDF.

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://ghostscript.com/>.
2. Run the executable file to install Ghostscript on your system.

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

10.3 Installing PostScript Drivers

This topic describes how to install and use PostScript drivers for saving DataWindows as PDF.

Using the distill method for saving DataWindows as PDF requires a PostScript printer or printer driver installed on your system. Use the Windows Add Printer wizard to install a PostScript printer. If a PostScript printer was never installed on your computer or the required Microsoft *pscript5.dll* file is not available, the wizard might prompt you to insert a Windows operating system installation CD.

- To add a PostScript printer to your system:
 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 (for example, 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 does 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. On the Print Specifications page, specify the printer name (added to the Printer Settings dialog in Step [6](#) in the previous procedure).
 - 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"
```

11 Activating PowerBuilder

Starting from PowerBuilder 2017, the developer is required to log in and activate PowerBuilder first before using it. If you do not have a valid account to log in, please contact your license administrator to create an account for you. And depending on whether the machine where PowerBuilder is installed has Internet access or not, the account should be assigned with an online license or offline license by your license administrator.

This chapter talks about activating **PowerBuilder** only, if you want to activate **PowerServer (PB Edition)**, please follow the *License Management* section in the *PowerServer Configuration Guide for .NET* in the PowerServer Help.

For a complete description of the licence activation for PowerBuilder, InfoMaker, and PowerServer, read [this document](#).

11.1 Online activation

Online activation requires you to input an account which is assigned with a valid online license by your license administrator. And Internet access is required during the activation process, because the online license will be activated by the Appeon license server.

11.1.1 Activating with an online license

To activate PowerBuilder using an account assigned with an online license, follow these steps:

Step 1 -- Launch PowerBuilder IDE. When you launch PowerBuilder IDE for the first time after installation, the **Log in to PowerBuilder** window displays automatically.

Step 2 -- Click **Log in** in the **Log in to PowerBuilder** window.

Step 3 -- Input the user name and password for your account, and then click **Log In**.

Make sure the current machine can connect to Internet, as your account will be validated and the binding license will be activated by the Appeon license server immediately. Once validation and activation is successful, you will be logged in to PowerBuilder IDE.

To view the account and license information, click your account name on the right top of the PowerBuilder IDE and then click **Account Management** in the popup menu.

11.1.2 Refreshing an online license

When an online license is renewed or upgraded by your license administrator, you will need to refresh the online license information in the PowerBuilder IDE accordingly.

You refresh an online license by clicking the **Refresh license** link in the account information window (opened by selecting the **Account Management** popup menu). Internet access is required.

11.1.3 Log out to de-activate

Once you log in to PowerBuilder successfully, which also means the online license is activated successfully, you should stay login unless you absolutely need to log out to de-activate the license, for example, to move PowerBuilder to a different machine.

To de-activate an online license, you log out of PowerBuilder by clicking the **Sign out** link in the account information window (opened by selecting the **Account Management** popup menu). Internet access is required.

Once logout is successful, you will be shown with the **Log in to PowerBuilder** window again.

When you uninstall PowerBuilder with Internet connection, you will be automatically logged out PowerBuilder when the uninstall process starts; when you uninstall PowerBuilder without Internet connection, you will be prompted to contact your license administrator to de-activate your license on the website and then the uninstall process starts.

11.2 Offline activation

Offline license is created to meet the needs where the machine with PowerBuilder installed does not have Internet connection.

An account assigned with an offline license can either be used to log in to PowerBuilder with or without Internet connection. When an account with an offline license is logged in with Internet connection, the process is as easy as the account with an online license.

Note: Cloud-based machines or virtual machines where PowerBuilder is installed cannot be activated using an offline license; only online license can be used.

11.2.1 Activating with an offline license

To activate an offline license, follow these steps:

Step 1 -- In the **Log in to PowerBuilder** window, click **Activate offline license manually**.

Step 2 -- Input the user name and password for your account, and select whether to activate the license with or without Internet connection.

- If **Activation with Internet connection** is selected, make sure your current machine can access Internet, and the offline license will be activated by the Appeon license server immediately after you click **Activate**.
- If **Activation without Internet connection** is selected, you will need to take the following steps to activate the offline license:
 1. Click **Generate Client Request** to create the client request (a text string), and then click **Copy Client Request** to copy the string to the clipboard.
 2. Transfer the string to a machine with Internet connection, and visit the **License Activation** web page by this URL: <https://www.appeon.com/license/get/activation-code?type=activation>. On the web page, paste the string to the text box and then click **Submit**. A server response (another text string) is generated.
 3. Transfer the server response string back to PowerBuilder, and paste the string to the **Server Response** text box, and then click **Activate**.
 4. Click **OK** when the activation completes.

Once the offline license is activated successfully, you will be logged in to PowerBuilder IDE.

To view the corresponding license information, click the menu **Help | Offline License Management | License Info** in the PowerBuilder IDE.

11.2.2 Renewing an offline license

When an offline license is renewed by your license administrator, you will need to renew the offline license information in the PowerBuilder IDE accordingly.

To renew an offline license in PowerBuilder IDE, follow these steps:

Step 1 -- In the PowerBuilder IDE, select **Help | Offline License Management | Renew**.

Step 2 -- Select whether to renew the offline license with or without Internet connection.

- If **Renew with Internet connection** is selected, make sure your current machine can access Internet, and the offline license will be renewed by the Appeon license server immediately after you click **Renew**.
- If **Renew without Internet connection** is selected, you will need to take the following steps to renew the offline license:
 1. Click **Generate Client Request** to generate a request string.
 2. Click **Copy Client Request** to get the request string, and transfer the string to a machine with Internet connection.
 3. On the machine with Internet connection, visit the **License Renewal** web page by this URL: <https://www.appeon.com/license/get/activation-code?type=renewal>. On the web page, paste the string to the text box and then click **Submit**. A response string will be generated if the license is renewed successfully by the Appeon license server.
 4. Transfer the response string back to the PowerBuilder IDE, and paste the string to the **Server Response** text box, and then click **Renew**.
 5. Click **OK** when the renew completes.

The renewal license will take effect the day after the current license expires.

11.2.3 Upgrading an offline license

When an offline license is upgraded by your license administrator, for example, from a Standard Edition to a Universal Edition, you will need to upgrade the offline license information in the PowerBuilder IDE accordingly.

To upgrade an offline license in PowerBuilder IDE, follow these steps:

Step 1 -- In the PowerBuilder IDE, select **Help | Offline License Management | Upgrade**.

Step 2 -- Select whether to upgrade the offline license with or without Internet connection.

- If **Upgrade with Internet connection** is selected, make sure your current machine can access Internet, and the offline license will be upgraded by the Appeon license server immediately after you click **Upgrade**.

- If **Upgrade without Internet connection** is selected, you will need to take the following steps to upgrade the offline license:

1. Click **Generate Client Request** to generate a request string.
2. Click **Copy Client Request** to get the request string, and transfer the string to a machine with Internet connection.
3. On the machine with Internet connection, visit the **License Upgrade** web page by this URL: <https://www.appeon.com/license/get/activation-code?type=upgrade>. On the web page, paste the string to the text box and then click **Submit**. A response string will be generated if the license is upgraded successfully by the Appeon license server.
4. Transfer the response string back to the PowerBuilder IDE, and paste the string to the **Server Response** text box, and then click **Upgrade**.
5. Click **OK** when the upgrade completes.

11.2.4 De-activating an offline license

Once you log in to PowerBuilder successfully, which also means the offline license is activated successfully, you should stay login unless you absolutely need to de-activate the license, for example, to move PowerBuilder to a different machine.

To de-activate an offline license, follow these steps:

Step 1 -- In the PowerBuilder IDE, select **Help | Offline License Management | Deactivate**.

Step 2 -- Depending on whether the machine has Internet connection, select to deactivate the license with or without Internet connection.

- If **Deactivation with Internet connection** is selected, make sure your current machine can access Internet, and the offline license will be deactivated by the Appeon license server immediately after you click **Deactivate** and confirm the deactivation in the dialog box.

- If **Deactivation without Internet connection** is selected, you will need to take the following steps to deactivate the offline license:

1. Click **Deactivate / Copy Deactivation Request** to generate and copy the request string. Although the offline license is deactivated from PowerBuilder immediately after you click **Deactivate**, you should not stop here, because you should also deactivate the license from the Appeon license server to release the license for the subsequent use.

The string is by default saved to the Users\<username>\AppData\Local\Temp\PBLicenseDeactivate\DeactivateCode.txt file.

2. Transfer the string to a machine with Internet connection.
3. On the machine with Internet connection, visit the **License Deactivation** web page by this URL: <https://www.appeon.com/license/get/activation-code?type=deactivation>. On the web page, paste the copied string to the text box and then click **Submit**. You will be prompted if the license is de-activated successfully from the Appeon license server.

12 Uninstalling PowerBuilder

This topic describes how to uninstall PowerBuilder.

When you start to uninstall PowerBuilder, you will be asked to deal with the license first:

- If you are using an online license, when you uninstall PowerBuilder with Internet connection, you will be automatically logged out PowerBuilder when the uninstall process starts; when you uninstall PowerBuilder without Internet connection, you will be prompted to contact your license administrator to de-activate your license on the website and then the uninstall process starts.
- If you are using an offline license, you can uninstall PowerBuilder without deactivating the license (if you want to continue using the license on this computer), or deactivate the license and uninstall PowerBuilder (if you want to move the license to a different computer).

For how to log out PowerBuilder or deactivate an offline license, refer to [Log out](#) or [Deactivating an offline license](#).

Use one of these methods to run the setup maintenance program for the product that you want to uninstall:

- Add or Remove Programs dialog box
 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** button.
 3. On the Install/Uninstall tab page, select the product to uninstall, click **Add/Remove**, and click **Yes** when prompted to confirm that you want to uninstall the tool.
 4. If you are prompted to delete 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.**
- Silent uninstallation

See [Section 9.3, “Silent Install Commands”](#).

The setup maintenance program removes:

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

- Program registry entries

The setup maintenance program deletes file and icon groups, as well as system and user path settings in the registry and INI files. Simply deleting directories does not fully uninstall these products.

Note

The setup program increments the usage count in the registry for each shared Appeon 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.

Note

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.

13 Obtaining Help and Additional Information

Use the Product Documentation site and online help to learn more about this product release.

- Product Documentation at <https://www.appeon.com/developers/library/product-manuals-for-pb>— PDF documentation that you can download. The Web site also has links to other resources, such as white papers, community forums, maintenance releases, and support content.
- Online help in the product, if available.

To read or print PDF documents, you need Adobe Acrobat Reader, which is available as a free download from the [Adobe](#) Web site.

Note

A more recent release bulletin, with critical product or document information added after the product release, may be available from the Product Documentation Web site.

13.1 Technical Support

All customers are entitled to standard technical support for reproducible software defects. You can open a standard support ticket at the Appeon support site: <https://www.appeon.com/standardsupport/> (login required).

If your organization has purchased a premium support contract for this product, then the designated authorized support contact(s) may seek assistance with your technical issue or question at the Appeon support site: <https://support.appeon.com> (login required).

14 Important Disclaimers on Legal Aspects

This document is for informational purposes only. Its content is subject to change without notice, and Appeon does not warrant that it is error-free. APPEON MAKES NO WARRANTIES, EXPRESS OR IMPLIED, OR OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE.

Coding Samples

Any software coding and/or code lines / strings ("Code") included in this documentation are only examples and are not intended to be used in a productive system environment. The Code is only intended to better explain and visualize the syntax and phrasing rules of certain coding. Appeon does not warrant the correctness and completeness of the Code given herein, and Appeon shall not be liable for errors or damages caused by the usage of the Code, unless damages were caused by Appeon intentionally or by Appeon's gross negligence.

Accessibility

The information contained in the Appeon documentation represents Appeon's current view of accessibility criteria as of the date of publication; it is in no way intended to be a binding guideline on how to ensure accessibility of software products. Appeon specifically disclaims any liability with respect to this document and no contractual obligations or commitments are formed either directly or indirectly by this document.

Gender-Neutral Language

As far as possible, Appeon documentation is gender neutral. Depending on the context, the reader is addressed directly with "you", or a gender-neutral noun (such as "sales person" or "working days") is used. If when referring to members of both sexes, however, the third-person singular cannot be avoided or a gender-neutral noun does not exist, Appeon reserves the right to use the masculine form of the noun and pronoun. This is to ensure that the documentation remains comprehensible.

Internet Hyperlinks

The Appeon documentation may contain hyperlinks to the Internet. These hyperlinks are intended to serve as a hint about where to find related information. Appeon does not warrant the availability and correctness of this related information or the ability of this information to serve a particular purpose. Appeon shall not be liable for any damages caused by the use of related information unless damages have been caused by Appeon's gross negligence or willful misconduct.

15 Copyright / Legal Notice

© 2017 Appeon Limited. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of Appeon Limited.

The information contained herein may be changed without prior notice. Some software products marketed by Appeon and its distributors contain proprietary software components of other software vendors. National product specifications may vary.

These materials are provided by Appeon for informational purposes only, without representation or warranty of any kind, and Appeon Limited shall not be liable for errors or omissions with respect to the materials. The only warranties for Appeon products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

Appeon products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of Appeon. All other product and service names mentioned are the trademarks of their respective companies.

Index

, [13](#)

A

activate PowerBuilder, [17](#)

ADO.NET

data access, software requirements, [3](#)

driver for PowerBuilder, [9](#)

C

common setup program

completing, [11](#)

providing basic information, [8](#)

results, [11](#)

starting, [7](#)

D

demo database

PowerBuilder component, [9](#)

SQL Anywhere required for, [3](#)

disk space requirements, [3](#)

E

EJB client

PowerBuilder component, [9](#)

software requirements, [3](#)

F

FDCCFederal Desktop Core Configuration, [11](#)

features, PowerBuilder, [3](#)

Federal Desktop Core Configuration, [11](#)

files, shareable and user-specific installed, [11](#)

FO processor, for saving DataWindows as PDF, [3](#)

G

Ghostscript, for saving DataWindows as PDF, [3](#), [15](#)

H

hardware requirements, [3](#)

help files

PowerBuilder, [9](#)

I

IM.INI file, [11](#)

InfoMaker

installing in silent mode, [13](#)

system requirements, [3](#)

uninstalling interactively, [21](#)

installation, [3](#)

package contents, [3](#)

PowerBuilder, [9](#)

silent, [13](#)

starting the common setup, [7](#)

J

J2EE server, required for EJB client development, [3](#)

jConnect for JDBC, upgrading database, [15](#)

JDBC

connectivity, software requirements, [3](#)

PowerBuilder component, [9](#)

upgrading database for jConnect, [15](#)

JDK, required software, [3](#)

L

license, [17](#)

accepting in a silent installation, [13](#)

license, SySAM

providing information during interactive installation, [8](#)

M

memory requirements, [3](#)

migrating applications to PowerBuilder, [15](#)

MobiLink synchronization, software requirements, [3](#)

N

native database interface

PowerBuilder component, [9](#)

O

OLE

controls, software requirements, [3](#)

DB driver, PowerBuilder component, [9](#)

operating systems supported, [3](#)

P

PB Native Interface, PowerBuilder component, [9](#)

PB.INI file, [11](#), [11](#)

PDF, saving DataWindows as, [3](#)

permissions, required for users, [9](#)

PostScript driver, required for distill save PDF method, [16](#)

PowerBuilder

- before installing, [6](#)
 - before using, [15](#)
 - common setup program, [7](#)
 - components, [9](#)
 - installation package contents, [3](#)
 - installing in silent mode, [13](#)
 - installing interactively, [7](#), [9](#)
 - PowerBuilder component, [9](#)
 - Resource Monitor, [9](#)
 - Runtime Packager, [9](#)
 - Runtime Packager, software requirements, [3](#)
 - software requirements, [3](#)
 - system requirements, [3](#)
 - uninstalling interactively, [21](#)
- PowerBuilder license, [17](#)

R

- required software, automatically installed, [7](#)
- requirements
 - software, [3](#)
 - system, disk space, hardware, and memory, [3](#)

S

- sample applications
 - PowerBuilder component, [9](#)
 - software requirements, [3](#)
- SCC interface, PowerBuilder component, [9](#)
- silentinstall command, [13](#)
 - for PowerBuilder, [13](#)
- SQL Anywhere
 - preparing for jConnect, [15](#)
- starting setup program
 - download image, installing from, [7](#)
- system requirements, [3](#)

T

- translation toolkit, PowerBuilder component, [9](#)
- tutorials and examples
 - PowerBuilder component, [9](#)
 - software requirements, [3](#)

U

- unattended installationsilentinstall command, [13](#)
- uninstalling PowerBuilder, [21](#)

W

- Web services client
 - PowerBuilder component, [9](#)
 - software requirements, [3](#)
- Windows registry
 - changes made by installation, [11](#)
 - write permissions required, [9](#)
- workflow, installation, [2](#)