

# Release Bulletin

## PowerBuilder® Desktop/Professional 11.1

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## 1. Accessing current release bulletin information

A more recent version of this release bulletin may be available on the Web. To check for critical product or document information added after the product release, use the Sybase® Product Manuals Web site.

### ❖ Accessing release bulletins at the Sybase Product Manuals Web site

- 1 Go to Product Manuals at <http://www.sybase.com/support/manuals/>.
- 2 Select a product and language and click Go.
- 3 Select a product version from the Document Set list.
- 4 Select the Release Bulletins link.
- 5 From the list of individual documents, select the link to the release bulletin for your PowerBuilder® edition. You can either download the PDF version or browse the document online.

## 2. Product summary

Enclosed is Sybase PowerBuilder Desktop or Professional version 11.1, which is compatible with the following platform and operating system configurations:

- Microsoft Windows XP with Service Pack 2
- Microsoft Windows XP Tablet PC Edition with Service Pack 2

- Microsoft Windows Server 2003 with Service Pack 2
- Microsoft Windows Vista Business Edition

PowerBuilder 11.1 builds 32-bit applications, but supports deployed applications in both 32-bit and 64-bit environments on the Vista operating system. For more information about using PowerBuilder on the Vista operating system, see the *New Features* guide on the Product Manuals Web site at <http://www.sybase.com/support/manuals/>. For a list of issues that have been found on the Vista operating system, see “Vista issues” on page 11.

The Microsoft Windows 2000 operating system with Service Pack 4 is supported for deployment.

## 2.1 DataDirect database drivers

The PB DataDirect ODBC drivers and OLE DB data providers from DataDirect Technologies have been removed from PowerBuilder 11.0 and later releases. If you are a PowerBuilder Professional user and you want to continue to use these drivers and data providers, you must obtain them from DataDirect Technologies.

## 3. Special installation instructions

PowerBuilder 11.1 is available as a full install and as an update for PowerBuilder 11.0 users.

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### **Vista manifest files may crash other operating systems**

If you add a manifest file that contains Vista extensions to an executable or DLL file on Windows XP with Service Pack 2, memory may be corrupted, causing the operating system to crash or restart. This is a known Microsoft issue described on the Microsoft support site at <http://support.microsoft.com/Default.aspx?kbid=921337>.

To resolve this issue, Microsoft has provided a patch that can be downloaded from the Microsoft Web site at <http://www.microsoft.com/technet/security/Bulletin/MS06-075.msp>.

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## 3.1 Before you install

Before you install this release, shut down any applications running on your system. Restart your system after all the installations are complete.

The executable files in this release extract setup files to the folder specified by your TMP environment variable, or the folder specified by your TEMP environment variable if TMP is not defined or specifies a directory that does not exist. Make sure you have enough disk space on the drive containing this folder before beginning the installation.

To specify an alternative location, open the System Properties dialog box from the Windows control panel, select the TMP user variable (or TEMP if TMP does not exist) on the Environment or Advanced tab page, and specify a location that has sufficient space.

## 3.2 Installing PowerBuilder 11.1 using the full install

If you are installing PowerBuilder 11.1 using the full install, the *Installation Guide* for PowerBuilder Desktop and Professional 11.0 on the Sybase Product Manuals Web site at <http://www.sybase.com/support/manuals/> describes how to install the software.

If you are updating from a previous version of PowerBuilder and also upgrading from a different edition of PowerBuilder, see the additional information about license requirements in “Upgrading from a different edition of PowerBuilder” on page 5.

## 3.3 Updating PowerBuilder 11.0 to PowerBuilder 11.1

You can download the PowerBuilder 11.1 update from the PowerBuilder page of the Sybase EBFs/Maintenance site at <http://downloads.sybase.com> (select “in all months” and click the GO button if you do not see the 11.1 release).

Download the zip file and extract its contents to a temporary directory on your computer using the “Use folder names” option.

To install the PowerBuilder 11.1 update, you must have already installed version 11.0 of PowerBuilder on your computer. The update installer updates the Desktop or Professional edition of PowerBuilder 11.0 to the same edition of 11.1.

### ❖ To update PowerBuilder:

- 1 Create a backup by copying the contents of your `Sybase\Shared\PowerBuilder` directory to another directory.

- 2 If you use the Internet plug-ins, back up the *Internet Tools* directory in the *Sybase\PowerBuilder 11.0* directory. Also, back up other files that contain information you do not want to lose, such as PBLs, database files, and *.INI* files.
- 3 Run the *setup.exe* file in the *PowerBuilder* directory extracted from the zip file.
- 4 Perform a full rebuild of your PowerBuilder application in the System Tree or Library painter to ensure that all descendent objects are synchronized with their ancestors and to incorporate any compiler fixes in your code.

### 3.4 Upgrading from a different edition of PowerBuilder

If you are updating to PowerBuilder 11.1 from an earlier version and also upgrading to the PowerBuilder Professional edition from PowerBuilder Desktop, you require two licenses:

- An *update* license from the previous version and edition to the same edition of PowerBuilder 11.1

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#### Updating from 11.0

If you are updating from PowerBuilder 11.0, you can use the maintenance installer and you do not need an update license. See “Updating PowerBuilder 11.0 to PowerBuilder 11.1” on page 4.

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- An *upgrade* license from Desktop to Professional

When you install PowerBuilder 11.1, you are prompted to provide a license key. Enter your PowerBuilder 11.1 *update* license key. The setup program allows you to install all the features available in PowerBuilder Enterprise, but your license determines which features are available in the product.

When you have completed the setup program, start PowerBuilder and select Tools>Update License. In the wizard, enter your *upgrade* license key, then click Next and Finish. When you restart PowerBuilder, the PowerBuilder Professional features you selected when you installed PowerBuilder are enabled.

## 4. Changed functionality in this version

*New Features PowerBuilder 11.1* describes features added in this version. You can view this book on the Sybase Product Manuals Web site at <http://www.sybase.com/support/manuals/>. Select PowerBuilder from the list of products and click Go, then select PowerBuilder 11.1 and select this title.

The New Features section of the PowerBuilder Help file also describes features added in this release. To view this Help, from the PowerBuilder menu, select Help>Welcome to PowerBuilder 11.1.

## 5. Known problems

### 5.1 .NET Windows Forms issues

#### 5.1.1 Runtime file version

When you deploy any PowerBuilder application or component, you should always make sure that the version and build number of the PowerBuilder runtime files on the target computer or server is the same as the version and build number of the DLLs on the development computer. Mismatched DLLs can result in unexpected errors in all applications. If the development computer is updated with a new build, PowerBuilder .NET Windows Forms applications *must* be rebuilt and redeployed with the new runtime files. [CR 483818]

#### 5.1.2 Error CS0161 returned when deploying .NET target

When you deploy a target to .NET, all possible paths through a function or event script must return a value. If the compiler encounters a path that does not return a value, it generates error CS0161: “not all code paths return a value.” To work around this issue, add a return statement that returns a value to the end of the script. [CR 463688]

#### 5.1.3 Events and delegates in .NET assemblies

You cannot add an event handler in PowerBuilder for an event defined in a .NET assembly. If a delegate is defined in a .NET assembly, the Combine method returns errors on deployment. [CR 435730]

### 5.1.4 Money data truncated in dynamic SQL

In Windows Forms applications, executing dynamic SQL format 3 or 4 with a Money datatype returns a truncated value if the data has more than 16 characters. [CR 483609]

### 5.1.5 Display issues if ToolbarText is set at runtime

Setting the Application object's ToolbarText property to true at runtime after the main window has opened may cause the toolbar to overlap the window. This does not occur if the property is set to true in the Application's Open event. [CR 483483]

### 5.1.6 Difference in position of user object

If a user-defined object is placed on a window, there may be differences between its Y location in a Windows Forms application and a standard PowerBuilder application. [CR 483945]

### 5.1.7 Only TrueType fonts supported

.NET Windows Forms applications support only TrueType fonts. Other fonts are translated internally into a TrueType font. If you do not use a TrueType font, the cursor does not display when you click in an EditMask control. [CR 455453]

### 5.1.8 Slow performance in Windows Forms debugger

When you debug a Windows Forms application and select the All Variables view, the view takes a long time to open and display variables. [CR 451470]

### 5.1.9 Drag(Begin!) uses CPU time

In a Windows Forms application, the Drag(Begin!) function on a control uses almost 100% of the CPU time until the user starts to drag the control. [CR 483622]

### 5.1.10 OLE control properties not available in .NET

OLE control properties specified in the OLE Control properties dialog box in PowerBuilder are not available when the application is deployed to .NET. For a DatePicker control, the initial date and font size are therefore incorrect. [CR 442851]

### 5.1.11 Width of tabs in Tab controls

The width of the tabs in a tab control is greater in a Windows Forms application than in a standard PowerBuilder application. This means that if a tab control is sized so that all the tabs show in PowerBuilder, the last tab on the page might not show when the application is deployed as a Windows Forms application. [CR 466404]

### 5.1.12 Using InkEdit and InkPicture controls

The InkEdit and InkPicture controls in Windows Forms use the Microsoft.Ink.dll from the Microsoft Windows XP Tablet PC Edition Software Development Kit 1.7. Microsoft has discovered some incompatibility issues between this DLL and the .NET Framework 2.0. You can obtain an update to address these issues from Microsoft at <http://www.microsoft.com/downloads/details.aspx?familyid=84BBEFA4-7047-41DF-8583-E3BDBF9D805F&displaylang=en>. [CR 423970]

### 5.1.13 Child window size not restored

If a child window is minimized, clicking the name of that window on the frame window's Window menu does not restore the child window to the correct size in a Windows Forms application. [CR 436535]

### 5.1.14 OverridePrintJob setting does not affect PrintDataWindow

Setting the Print.OverridePrintJob DataWindow® object property to 'yes' has no effect when you use PrintDataWindow in a Windows Forms application. [CR 466258]

## 5.2 Database connectivity issues

### 5.2.1 ASE version 15 with ODBC driver

When you connect to an Adaptive Server® Enterprise version 15 server using the Sybase ASE ODBC driver, NChar(10) and NVarChar(10) columns are saved as Char(10) and VarChar(10). [CR 408710]

## 5.3 DataWindow issues

### 5.3.1 AutoSize Height issues with header band

When two reports are included one above the other in the header band of a DataWindow object and the AutoSize.Height property is set to true for the header band and false for the detail band, the DataWindow displays incorrectly in preview. The lower report overlaps the upper report. The report displays correctly if the Autosize.Height property is set to true in both the header and detail bands.[CR 405033]

### 5.3.2 Save As PDF fails on Windows 2003 Server

Saving as PDF using the Distill method fails at runtime on Windows 2003 Server. This problem is caused by a Group Policy that by default disallows installation of printers that use kernel-mode drivers. Kernel-mode drivers have access to system-wide memory, and poorly written drivers can cause system failures. To allow installation of kernel-mode drivers, follow these steps:

- 1 Select Run from the Windows Start menu.
- 2 In the Open box, type gpedit.msc and click OK.
- 3 In the Group Policy console, expand Computer Configuration, Administrative Templates, and Printers.
- 4 Disable “Disallow Installation of Printers Using Kernel-Mode Drivers.”

[CR 349868]

### 5.3.3 XSL-FOP save as PDF does not support graphic controls

Use the distill method to export the data in DataWindow objects that contain graphic controls, such as ovals and rectangles, to PDF. The XSL-FOP method does not work correctly for graphic controls. [CR 303829]

### 5.3.4 Calling GetItemNumber on DataStore with no rows

GetItemNumber throws a RuntimeError instead of a DWRuntimeError when called on a DataStore with no rows. [CR 452682]

## 5.4 Decimal datatype support issues

### 5.4.1 Compiler error when maximum value assigned

Assigning the maximum value to a decimal variant without a decimal portion causes a compiler error. [CR 380713]

### 5.4.2 Precision lost in message box

Precision is lost when you display a decimal variant with more than 16 bits in a message box. [CR 390258]

## 5.5 Menu and toolbar issues

### 5.5.1 Stock file image size inconsistent

In contemporary menus and toolbars, stock files and external files with multiple images are loaded differently. For stock files, PowerBuilder loads 32x32 images first. For external files, PowerBuilder loads 16x16 images first. PowerBuilder stock files include two types of files: BMP and ICO. Most BMP files have 16x16 images, and most ICO files have both 16x16 and 32x32 images. When you use a stock file, the BMP file is loaded with the 16x16 image but the ICO file is loaded with the 32x32 image. As a result the size of the stock image used is inconsistent. [CR 421716]

### 5.5.2 RightToLeft property not supported

The RightToLeft property is not supported in menus and toolbars. [CR 395702]

### 5.5.3 Display issues with some drivers

With some display card drivers, if you highlight a menu item with the mouse, a white block displays under the mouse point and is moved when you move the mouse. This is a limitation of the display card drivers and cannot be fixed in PowerBuilder. There are two techniques that might solve the issue:

- 1 In the Windows control panel, open the Mouse Properties dialog box and clear the Enable Pointer Shadow check box on the Pointers tab.

The pointer shadow feature has known problems working with many graphical features and programs including OpenGL, GDI+, many video games, Jaws, VMWare, and Virtual PC.

- 2 In the Windows control panel, open the Display Properties dialog box and click the Advanced button on the Settings tab page. On the Troubleshooting tab page, decrease the hardware acceleration level by dragging the slider towards the left. Note that decreasing the hardware acceleration level affects display performance.

[CR 414452]

## 5.6 Rich text control issues

### 5.6.1 Scroll issues when input fields bound to DataStore

At runtime, if you insert input fields in a RichTextEdit control and bind the data source to a DataStore, then call `ScrollNextRow` or `ScrollNextPage`, the cursor disappears and you cannot scroll the DataWindow as expected. [CR 419757]

### 5.6.2 UTF-8 encoding in rich text control

If you insert an HTML file with UTF-8 encoding in a rich text control, the file does not display correctly unless the character set is indicated. In a future release, the encoding will be determined from the byte order mark of the HTML file, and it will not be necessary to indicate the character set.

[CR 415495]

## 5.7 SCC issues

### 5.7.1 Adding an object to SCC whose name contains non-English characters fails

When you put a workspace that supports multiple languages under source control and attempt to add all files to SCC, PowerBuilder crashes if one or more of the object names contain non-English characters. [CR 342590]

## 5.8 Vista issues

For more information about using PowerBuilder and deploying PowerBuilder applications on the Windows Vista operating system, see the Vista support section in the What's New Help or the *New Features* guide. See also "External manifest files created in temp directory with machine code" on page 15.

### 5.8.1 Run PowerBuilder as administrator

If an application is run without administrative privileges, Vista restricts it from writing to the *HKEY\_LOCAL\_MACHINE* subtree in the registry, the *Program Files* directory, and the *Windows* directory. Instead, changes are written to a writable area in the registry and to the user's local directory. This is referred to as virtualization. To avoid the issues that would result from this behavior, on Vista, you must start PowerBuilder with administrative privileges by right clicking *pb110.exe* in the Start menu or Explorer and selecting Run As Administrator from its pop-up menu. [CR 475612]

### 5.8.2 Windows Help files

Windows Vista does not distribute the *WinHelp32.exe* file required to open Windows Help files such as the *pbhlp110.hlp* file used in PowerBuilder. To use *.hlp* files, download and install a special Vista version of *WinHelp32.exe* from the Microsoft Web site at <http://go.microsoft.com/fwlink/?LinkID=82148>.

Compiled HTML Help (*.chm*) files are supported, but you need to edit the Windows registry to enable a Help macro that supports links from the *pbhlp110.hlp* file to the *pbman110.chm* file. If you do not edit the registry, the "For more information" links at the bottom of many topics in the Windows Help display an error.

You also need to edit the registry to run Windows Help files at a remote location on an intranet.

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#### Registry reflection on 64-bit Windows

64-bit versions of Windows use registry reflection to maintain a 32-bit registry view and a 64-bit registry view. On 64-bit Windows, configuration information related to 32-bit applications is stored in the *HKEY\_LOCAL\_MACHINE\Software\WOW6432node* registry hive.

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#### ❖ To enable Windows Help macros and remote access on Vista:

- 1 Create the following registry key.

On 32-bit Windows:

```
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\WinHelp
```

On 64-bit Windows:

```
HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432node\Microsoft\  
WinHelp
```

- 2 Add a new DWORD value with the name AllowProgrammaticMacros and the value 1.
- 3 Add a new DWORD value with the name AllowIntranetAccess and the value 1.

You can also add this support by saving the following lines in Notepad to a file with the extension *.reg* and importing it into the registry.

On 32-bit Windows:

```
Windows Registry Editor Version 5.00

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\WinHelp]
"AllowProgrammaticMacros"=dword:00000001
"AllowIntranetAccess"=dword:00000001
```

On 64-bit Windows:

```
Windows Registry Editor Version 5.00

[HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432node\Microsoft\Win
Help]
"AllowProgrammaticMacros"=dword:00000001
"AllowIntranetAccess"=dword:00000001
```

Microsoft prohibits the distribution of *WinHelp32.exe* with deployed applications. If your application uses *.hlp* files, you should provide your users with instructions on how to download *WinHelp32.exe*. For more information, see the Microsoft support site at <http://support.microsoft.com/kb/917607>.

[CR 477251]

### 5.8.3 Saving as PDF on Vista fails

The correct versions of Microsoft PostScript printer driver files must be available in the *drivers* directory when a file is saved as PDF using the Distill method. The Microsoft PostScript printer driver files, *PSCRIPT5.DLL*, *PSSUI.DLL*, and *pscript.ntf*, used for saving DataWindows as PDF, are no longer distributed with PowerBuilder due to licensing issues.

If you (and your users) have installed a PostScript printer, the PostScript driver files required to create PDF files are already installed. Typical locations are *C:\WINDOWS\system32\spool\drivers\w32x86* on Windows XP, *C:\Windows\System32\DriverStore\FileRepository\ntprint.inf\_xxxxxxx\*, where *xxxxxxx* is a system-specific identifier, in the *I386* subdirectory on 32-bit Vista and the *Amd64* subdirectory on 64-bit Vista. You must use the version of these files that is appropriate to the system where the PDF file is created. Copy the files to the *Shared\PowerBuilder\drivers* directory. [CR 445530]

#### 5.8.4 Controls that use calendars

The Vista operating system does not support several properties for the DatePicker, EditMask, and MonthCalendar controls and the drop-down calendar in a DataWindow column. The following properties are not supported on Vista:

- DatePicker: CalendarBackColor, CalendarFontName, CalendarFontWeight, CalendarItalic, CalendarTextColor, CalendarTextSize, CalendarTitleBackColor, CalendarTitleTextColor, CalendarTrailingTextColor, CalendarUnderLine
- EditMask: CalendarBackColor, CalendarTextColor, CalendarTitleBackColor, CalendarTitleTextColor, CalendarTrailingTextColor
- MonthCalendar: FaceName, MonthBackColor, TextColor, TextSize, TitleBackColor, TitleTextColor, TrailingTextColor, Underline
- Column controls in DataWindow objects with a drop-down calendar EditMask style: DDCal\_BackColor, DDCal\_TextColor, DDCal\_TitleBackColor, DDCal\_TitleTextColor, DDCal\_TrailingBackColor

In addition, the Vista operating system does not support the WeekNumbers property for the DatePicker control. When this property is true, the DatePicker control is not displayed correctly. The same limitation applies to the MonthCalendar control when WeekNumbers is true and Autosize is false. [CR 471379]

#### 5.8.5 DataWindow title bar issues with Vista

Clicking the Control Menu, Maximize, or Minimize buttons on the title bar of a DataWindow control changes the display characteristics and position on Vista. [CR 472402]

### 5.8.6 mailGetMessages function fails on Vista

The mailGetMessages function does not return mail messages on the Vista operating system. This is caused by a deficiency in the Windows Simple MAPI (SMAPI) interface. For more information, see the Microsoft Support Web site at <http://support.microsoft.com/kb/930279/en-us>. [CR 479872]

### 5.8.7 PrintSetupPrinter function fails on 64-bit Vista

The PrintSetupPrinter function does not display the printer setup dialog box on the 64-bit version of the Vista operating system. This is caused by a known code defect in the Microsoft XPS Document Writer DLL *mxdwdui.dll*. The DLL file prematurely frees the *shell32.dll* library and caused a window class to be unregistered. When the printer dialog box UI tries to create a window with the unregistered class, it fails and the dialog box fails to display.

You can display a printer properties dialog box using the following command line, where *printer name* is the name of the printer and must be enclosed in quotation marks. You must run the command from the `\Windows\sysWow64` directory:

```
rundll32 printui.dll,PrintUIEntry /n "printer name" /p  
[CR 477598]
```

## 5.9 Other issues

### 5.9.1 External manifest files created in temp directory with machine code

If you select Machine Code on the General tab page in the Project painter for a standard PowerBuilder application and External Manifest on the Security tab page, the external manifest file is generated in the directory specified by your TEMP user environment variable. This is typically `.\Users\<user_name>\AppData\Local\Temp` on Vista and `.\WINDOWS\Temp` on other versions of Windows. For Pcode executable files, the external manifest file is generated in the same directory as the executable file. [CR 484436]

### 5.9.2 Truncated string in saved EMF file

If a string in a text control in a DataWindow object is longer than can be displayed in the control in the Design view in the DataWindow painter, an EMF file saved in the painter or at runtime displays with the string truncated. [CR 342797]

### 5.9.3 PowerTips using the XP style

Some window controls, such as Pictures, PictureButtons, and PictureHyperLinks, can display PowerTip text. When the cursor is on the control, the tip text displays but disappears after several seconds. Moving the cursor from the control to another control with PowerTip text and back again causes the tip to display again, but moving the cursor from the control to the window background or a control without PowerTip text and back does not. This problem is caused by a Microsoft issue with Comctl32 Version 6. [CR 403814]

### 5.9.4 UpdateBlob SQL statement supports only UTF-16LE

The UpdateBlob SQL statement updates garbage characters to the database if the encoding of the blob variant is not UTF-16LE. For Adaptive Server Enterprise, PowerBuilder crashes if the encoding of the blob is ANSI or UTF-8 and it contains fewer than 10 characters. [CR 353231]

### 5.9.5 Throws clause removed from menu events when menu item is moved

If you add a user-defined event to a menu item and specify in the Prototype window that the event throws an exception, and then move the menu item to another location, the Throws box in the Prototype window is cleared. [CR 290236]

### 5.9.6 String formatting function not Unicode enabled

The String function used to format a string does not have an encoding argument to allow you to specify the encoding of the resulting string. As a result, the string returned can contain garbage characters.

To work around this issue, convert the string to a blob and then back to a string using the encoding parameters provided in the Blob and String conversion functions:

```
ls_temp = String(long, "address" ) // format string
lb_blob = blob(ls_temp, EncodingUTF16LE!)
ls_result = string(lb_blob, EncodingANSI!) // convert
// to string
```

[CR 361568]

### 5.9.7 ActiveX control compiled in Visual C++ causes crash

If an ActiveX control placed on a window was compiled using Visual C++ .NET 2003 (version 7.1), PowerBuilder might crash when you attempt to save the window. The problem is caused by a known bug in the Microsoft Foundation Classes. A patch is available from Microsoft. See the Microsoft Support Web site at <http://support.microsoft.com/kb/838190>. [CR 350660]

### 5.9.8 Web ActiveX download fails on Windows XP

The DataWindow Web Control for ActiveX fails to download its CAB file to a client browser running on Windows XP if the Microsoft Active Template Library (ATL) module, *atl71.dll*, is not present in the *Windows\System32* directory. The CAB file downloads successfully if the ATL DLL is present.

### 5.9.9 Some PSR files must be regenerated

PSR files created in builds of PowerBuilder 10.0 or 10.0.1 prior to EBF build 6044 cannot be opened in PowerBuilder or InfoMaker 11.1. You must regenerate the PSR file in a later build. [CR 386984]

### 5.9.10 Legend values do not change when changing graph type

At runtime, when you change a graph type to or from a Pie graph type, the values in the legend do not change. [CR 452581]

## 6. Product compatibilities

### 6.1 SQL Anywhere

PowerBuilder 11.1 has been tested with SQL Anywhere® 10.0.1 and the SQL Anywhere 10.0.1 Runtime Edition.

### 6.2 Microsoft .NET Framework

PowerBuilder 11.1 is compatible with the Microsoft .NET Framework 2.0 and 3.0. It does not support new features in the .NET Framework 3.0.

## 6.3 Java

PowerBuilder 11.1 is compatible with JDK 1.5.

## 6.4 Ghostscript

The DataWindow Save as PDF feature has been tested with AFPL Ghostscript version 8.53.

# 7. Third-party components and deployment

PowerBuilder applications have some dependencies on third-party components that are installed with PowerBuilder. Most of these components are *not* installed with the PowerBuilder Runtime Packager. You may redistribute some of these components with your application, but others must be obtained from the vendor.

For information about components that can be freely downloaded, see the free download terms document. A copy of this document is located in the *Support* directory on the DVD and on the Sybase Web site at [http://www.sybase.com/softwarelicenses/third\\_party\\_legal](http://www.sybase.com/softwarelicenses/third_party_legal).

## 7.1 Apache files

You may redistribute Apache files included with PowerBuilder to your users. Any use or distribution of the Apache code included with PowerBuilder 11 must comply with the terms of the Apache License which is located in the free download terms document for PowerBuilder 11.

Version 0.20.4 of the Apache Formatting Objects Processor (FOP) is required if your application uses XSL-FO to save files as PDF. For more information about FOP, see the Apache FOP Web site at <http://xmlgraphics.apache.org/fop/>.

The Apache Xerces files *xerces-c\_2\_6.dll* and *xerces-depdom\_2\_6.dll* are required for XML support for DataWindows and DataStores. For more information about Xerces, see the Xerces C++ Parser Web site at <http://xml.apache.org/xerces-c/>.

## 7.2 Microsoft files

When you deploy the core PowerBuilder runtime files, you must ensure that the *msvcr71.dll* and *msvcp71.dll* Microsoft Visual C++ runtime libraries and the Microsoft .NET Active Template Library (ATL) module, *atl71.dll*, are present on the user's computer. The PowerBuilder runtime files have a runtime dependency on these files and they are required for all applications. For more information about obtaining and using these files, see the Microsoft Web site at <http://www.microsoft.com>.

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### **Files must be installed before running MSI file**

Some files installed by the MSI file generated by the PowerBuilder Runtime Packager have dependencies on these files. For example, *atl71.dll* must be installed on the user's computer before the *pbjvm110.dll* can be registered. Make sure these files are on the target computer before you run the MSI file generated by the Runtime Packager.

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*Microsoft.Ink*, *Microsoft.Ink.dll*, and *Microsoft.Resources.dll* are required if your application uses InkEdit and InkPicture controls. These files are part of the Microsoft Windows XP Tablet PC Edition Software Development Kit 1.7, which is available on the Microsoft Web site at <http://www.microsoft.com/downloads/details.aspx?FamilyId=B46D4B83-A821-40BC-AA85-C9EE3D6E9699&displaylang=en>.

Microsoft has discovered some incompatibility issues between these DLLs and the .NET Framework 2.0. You can obtain an update to address these issues from Microsoft at <http://www.microsoft.com/downloads/details.aspx?familyid=84BBEFA4-7047-41DF-8583-E3BDBF9D805F&displaylang=en>.

## 7.3 Sun Microsystems files

The Java Runtime Environment (JRE) is required for saving as PDF using XSL-FO. For a copy of third-party terms and conditions for the JRE, see the free download terms document. The JRE can be downloaded from the Sun Developer Network at <http://java.sun.com/javase/downloads/index.jsp>.

## 8. Documentation updates and clarifications

The following books have been updated on the Sybase Product Manuals Web site for PowerBuilder 11.1:

- *New Features*
- *Deploying Applications and Components to .NET*
- *Connecting to Your Database*
- *Connection Reference*

For other books in the documentation set, refer to the PowerBuilder 11.0 collection on the Sybase Product Manuals Web site or the online Help.

## 9. Migration information

You can migrate a PowerBuilder application from any version of PowerBuilder directly to any later version. Before you migrate to a later version, read this section and the following Technical Document to learn about changes in PowerBuilder that might affect your application: Migrating PowerBuilder Applications at <http://www.sybase.com/detail?id=1032777>.

Back up your files and use the Migration Assistant to identify obsolete code before you migrate.

The applications that you build using this version of PowerBuilder must be deployed with the PowerBuilder runtime DLLs from this version.

### 9.1 Change in behavior of OpenTab

A change was made in PowerBuilder 10.2.1 Build 9716, PowerBuilder 10.5.1 Build 6505, and PowerBuilder 11.0 Build 5021, to correct an anomalous behavior when the SelectedTab property was applied at runtime to a tab whose Visible property was set to false.

As a result of this change, there is a change in the behavior of the OpenTab and OpenTabWithParm functions. In previous releases, calling the OpenTab or OpenTabWithParm function to open a user object as a tab page displayed the tab page even if the user object's Visible property was set to false. In current releases, the user object's Visible property must be set to true for the tab page to display.

## 9.2 ImportFile size limit

PowerBuilder 10.0 and later versions are Unicode enabled. If your application uses the ImportFile method to import very large text files (approximately 839,000 lines) into a DataWindow or DataStore, ImportFile returns the error code -15. Larger text files could be imported in ANSI versions of PowerBuilder.

## 10. Technical support

Each Sybase installation that has purchased a support contract has one or more designated people who are authorized to contact Sybase Technical Support. If you have any questions about this installation or if you need assistance during the installation process, ask the designated person to contact Sybase Technical Support or the Sybase subsidiary in your area.

## 11. Other sources of information

Use the Sybase Getting Started CD, the SyBooks CD, and the Sybase 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/>.

## 11.1 Sybase certifications on the Web

Technical documentation at the Sybase Web site is updated frequently.

### ❖ Finding the latest information on product certifications

- 1 Point your Web browser to Technical Documents at <http://www.sybase.com/support/techdocs/>.
- 2 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.

## 11.2 Sybase EBFs and software maintenance

### ❖ Finding the latest information on EBFs and software maintenance

- 1 Point your Web browser to the Sybase Support Page at <http://www.sybase.com/support>.
- 2 Select EBFs/Maintenance. If prompted, enter your MySybase user name and password.
- 3 Select a product.
- 4 Specify a time frame and click Go. A list of EBF/Maintenance releases is displayed.

Padlock icons indicate that you do not have download authorization for certain EBF/Maintenance releases because you are not registered as a Technical Support Contact. If you have not registered, but have valid information provided by your Sybase representative or through your support contract, click Edit Roles to add the “Technical Support Contact” role to your MySybase profile.

- 5 Click the Info icon to display the EBF/Maintenance report, or click the product description to download the software.

## 12. 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 11.1 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.

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**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.

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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](http://www.sybase.com/detail_list?id=52484).