Release Bulletin
PowerBuilder® Desktop/Professional 10.5.2

Document ID: DC33823-01-1052-01

Last revised: September 4, 2007

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 PowerBuilder® from the list of products and click Go.

3   Select PowerBuilder 10.5.2.

4   Select the Release Bulletin for PowerBuilder Desktop/Professional.

2. Product summary

Enclosed is Sybase PowerBuilder Desktop or Professional version 10.5.2, which is compatible with the following platform and operating system configurations:

•   Microsoft Windows 2000 with Service Pack 4

•   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 32-bit and 64-bit Business Editions (deployment only)

2.1 DataDirect database drivers

The PB DataDirect ODBC drivers and OLE DB data providers from DataDirect Technologies are delivered with this release under a limited contract. They will be removed from the final PowerBuilder 10.5.x EBF download.

3. Special installation instructions

This section describes special installation instructions for PowerBuilder.

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

You can download PowerBuilder 10.5.2 Desktop and Professional editions 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 10.5.2 release). Download the zip file and extract its contents to a temporary directory on your computer using the "Use folder names" option.

To install either of these products, you must have already installed version 10.5 of that product on your computer.

❖ **To update PowerBuilder Desktop or Professional:**

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 10.5* 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.

4. Changed functionality in this version

This section describes changes in the PowerBuilder 10.5.2 release. See "Migration information" on page 18 for information about changes in recent releases that might require changes to your applications.

•   Support for Microsoft Vista operating system

•   Support for Internet Explorer 7

•   Right-to-left support for TreeView DataWindow

•   PostScript printer driver changes

•   Database connectivity changes

4.1 Support for Microsoft Vista operating system

PowerBuilder 10.5.2 provides runtime support for applications deployed to the Microsoft Vista operating system. The Vista operating system is not supported for development.

PowerBuilder 10.5.2 applications are 32-bit applications, but testing has been performed on both the 32-bit Vista Business Edition and the 64-bit Vista Business Edition. Rich text features are currently not fully supported on the Vista operating system. For more information about unsupported features, see "Vista issues" on page 11.

Vista does not ship with the Windows standard help display program *WinHlp32.exe*. If your application uses Windows Help (*.hlp*) files, your users can download the executable from links on the Microsoft Web site at http://go.microsoft.com/fwlink/?LinkID=82148.

4.2 Support for Internet Explorer 7

PowerBuilder 10.5.2 has been tested with Microsoft Internet Explorer version 7.

4.3 Right-to-left support for TreeView DataWindow

The TreeView DataWindow now supports the RightToLeft property. However, the property must be set in the development environment. Setting it at runtime is not supported.

4.4 PostScript printer driver changes

The Microsoft PostScript printer driver files, *PSCRIPT5.DLL*, *PS5UI.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, typically in *C:\WINDOWS\system32\spool\drivers\w32x86* on Windows XP or *C:\Windows\System32\DriverStore\FileRepository\ntprint.inf_xxxxxxxx\Amd64*, where *xxxxxxxx* is a system-specific identifier, on a 64-bit Vista system. 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.

If you have never installed a PostScript printer, you can use the Printers and Faxes option in the Windows control panel to install a generic PostScript printer. If the Microsoft *PSCRIPT5.DLL* has never been installed, you may be prompted to insert the Windows install CD.

4.5 Database connectivity changes

4.5.1 DataDirect ODBC drivers

PowerBuilder 10.5.2 includes version 5.2 of the PB DataDirect ODBC drivers.

4.5.2 MDAC support

PowerBuilder 10.5.2 has been tested with version 2.8 of the Microsoft Data Access Components (MDAC).

5. Known problems

5.1 Database connectivity issues

5.1.1 Window is a reserved word in SQL Anywhere

In SQL Anywhere®, the word "window" is a reserved word. As a result, SELECT statements on a column with the name window do not work correctly. There are several ways to work around this issue:

- Set the DelimitIdentifier database parameter to "Yes" in the ConnectString.

- Set the SQL Anywhere database option "SET OPTION NON_KEYWORDS = 'WINDOW'".

- Enclose the column name in quotation marks in SQL statements.

[CR 334166]

5.1.2 PB DataDirect Oracle driver issues

If you create a table in the Database painter using the PB DataDirect Oracle driver and give it a name that has all lowercase characters, the table columns are not visible in the Layout view. They display correctly after you select Tables>Refresh. [CR 348038]

The DataDirect OLE DB data provider for Oracle does not correctly handle inserts, updates, and display for Simplified Chinese and Traditional Chinese data. [CR 338372]

5.1.3 Oracle stored procedures with output parameters

An Oracle stored procedure with output parameters produces an ORA-01036 error at runtime when accessed using the ODBC driver. [CR 343297]

5.2 DataWindow issues

5.2.1 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]

5.2.2 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]

5.2.3 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]

5.2.4 AutoSize group header band distorted in print preview mode

The AutoSize group header band is formatted correctly in normal mode but it is distorted in print preview mode. The column headers at the bottom of the group header band are overlapped by the detail band. [CR 421766]

5.3 Decimal and longlong datatype support issues

5.3.1 Compiler error when maximum value assigned

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

5.3.2 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]

5.3.3 Dynamic SQL Format 4 does not work with longlong datatype

PowerBuilder 10.5 supports the longlong datatype and a wider range for the decimal datatype, but Dynamic SQL format 4 provides only one function, GetDynamicNumber, for all numeric datatypes. This function does not work correctly for data having the longlong datatype, or with high-range data of the decimal datatype. A new function, GetDynamicDecimal, is available for longlong and decimal datatype data in PowerBuilder 11. [CR 403862]

5.4 Menu and toolbar issues

5.4.1 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]

5.4.2 RightToLeft property not supported

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

5.4.3 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]

5.5 Rich text control issues

5.5.1 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]

5.5.2 Rich text application deployment issues

When you deploy a rich text application to a server or client machine, you must also copy the rich text DLL and OCX files in the *Sybase\Shared\PowerBuilder\RTC* directory to the PowerBuilder VM directory on the deployment computer or to a directory in the application's path. You do not need to register the rich text *OCX* file if it is copied or deployed to the directory containing the PowerBuilder VM. For more information on the list of files that must be deployed with an application that uses rich text, see the chapter on deploying applications and components in *Application Techniques*. [CR 426800]

5.5.3 Inserting a document in a rich text control fails

You cannot insert a document into a rich text control when the control's DisplayOnly property is set to true. If you try to do this, PowerBuilder displays a runtime error message. [CR 435744]

5.5.4 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]

5.5.5 Text does not wrap correctly in rich text control

When WordWrap is enabled, text should wrap automatically to the next line when it reaches the right margin of the rich text control. But, in PowerBuilder 10.5.2, although WordWrap is enabled in a rich text control, the text is not wrapped correctly. This occurs because PowerBuilder sets 8 ½" x 11" as the default page size for the control. To work around this issue, set the following variable in the *pb.ini* file:

```
[RichText]
PageSizeAsControlSize=1
```

If you set this variable to 1, the page size will be the same as the control size. [CR 441593]

5.6 SCC issues

5.6.1 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]

5.7 Vista issues

5.7.1 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. For more information, see "PostScript printer driver changes" on page 5. [CR 445530]

5.7.2 Properties for controls and DataWindow columns that display 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

[CR 471379]

5.7.3 WeekNumbers property for DatePicker not supported

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 471385]

5.7.4 Rich Text Format not supported

The controls used to provide support for Rich Text do not support the Vista operating system.

5.8 Other issues

5.8.1 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 Comctrl32 Version 6. [CR 403814]

5.8.2 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]

5.8.3 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]

5.8.4 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]

5.8.5 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]

5.8.6 Screen readers do not read all accessibility properties

PowerBuilder follows the Microsoft Active Accessibility (MSAA) guidelines described in Server Guidelines at http://msdn2.microsoft.com/en-us/library/ms697377.aspx. However, many screen readers do not follow the Microsoft guidelines for clients. As a result, some screen readers read a control's name and value instead of its AccessibleName and AccessibleDescription. In addition, screen readers that call the AccessibleObjectFromWindow function to obtain an IAccessible interface cannot read accessibility properties in a DataWindow. For more information about MSAA, see the Technical Overview at http://msdn2.microsoft.com/en-us/library/ms697392.aspx. [CR 393976]

6. Product compatibilities

6.1 SQL Anywhere

In version 10.0, Adaptive Server® Anywhere and SQL Anywhere Studio® have been renamed SQL Anywhere. The suite is now referred to as SQL Anywhere. The database server is referred to as SQL Anywhere server.

PowerBuilder 10.5.2 has been tested with SQL Anywhere 10.0.1.

6.2 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. 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 on the Sybase Web site at 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 10.5.2 must comply with the terms of the Apache License which is located in the free download terms document for PowerBuilder 10.5.2.

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 or server. The PowerBuilder runtime files have a runtime dependency on these files and they are required for all applications and components that require the PowerBuilder runtime. For more information about obtaining and using these files, see the Microsoft Web site at http://www.microsoft.com.

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

This section lists updates to documentation that are not included in the PowerBuilder 10.5 collection on the Sybase Product Manuals Web site.

8.1 InsertPicture enhancement for RichTextEdit

The InsertPicture function for the RichTextEdit control now supports WMF, JPEG, PNG, GIF, and TIFF files in addition to bitmap files. The list of modified functions in the *New Features* book and the description of InsertPicture in the *PowerScript Reference* do not include this enhancement.

8.2 List of DataDirect ODBC files incorrect

The list of PowerBuilder DataDirect ODBC database drivers and files in Chapter 41, "Deploying Applications and Components," in *Application Techniques* is incorrect. PowerBuilder 10.5.2 uses DataDirect 5.2. drivers. The following table lists the required files for each supported interface. These files are installed in *Sybase\Shared\DataDirect52*.

Table 1: PowerBuilder DataDirect ODBC files

Driver	Files required
All PB DataDirect OEM 5.20 drivers	*IVPB.LIC* *PBICU22.dll* *PBTRN22.dll*
PB DataDirect OEM 5.20 Btrieve	*PBBTR22.DLL* *PBBTR22R.DLL* *PBBTR22S.DLL*
PB DataDirect OEM 5.20 DB2 Wire Protocol	*PBDB222.DLL* *PBDB222R.DLL*
PB DataDirect OEM 5.20 dBASE	*PBDBF22.DLL* *PBDBF22R.DLL*
PB DataDirect OEM 5.20 Informix Wire Protocol	*PBIFCL22.DLL* *PBIFCL22R.DLL*
PB DataDirect OEM 5.20 Oracle Wire Protocol	*PBORA22.DLL* *PBORA22R.DLL*
PB DataDirect OEM 5.20 Paradox	*PBIDP22.DLL* *PBIDP22R.DLL* *PBIDP22S.DLL*
PB DataDirect OEM 5.20 SQL Server Wire Protocol	*PBMSSS22.DLL* *PBMSSS22R.DLL*
PB DataDirect OEM 5.20 Sybase Adaptive Server Enterprise Wire Protocol	*PBASE22.DLL* *PBASE22R.DLL*
PB DataDirect OEM 5.20 Text File	*PBTXT22.DLL* *PBTXT22R.DLL*
PB DataDirect OEM 5.20 XML	*PBXML22.DLL* *PBXML22R.DLL* *PBXML22S.DLL* *PBIADX09.DLL* *PBIADX09R.DLL* *PBXMLX09.DLL* *PBXMLX09R.DLL*

8.3 Rich text deployment issue

Chapter 41, "Deploying Applications and Components," in *Application Techniques* lists the files that must be deployed with an application that uses rich text, but omits the following requirements. When the application is run remotely on a server, the ActiveX control (*tp4ole11.ocx*) must be registered on the client computer. In PowerBuilder 10.5 EBF 5048 and later builds, the ActiveX control does not need to be registered on the client if the required files are in the same directory as the PowerBuilder runtime files or in an *RTC* subdirectory of that directory.

8.4 Microsoft update affects DataWindow Web ActiveX

If the Cumulative Security Update for Internet Explorer (912812) or a subsequent update is installed on the computer where the DataWindow Web Control for ActiveX (Web ActiveX) is running, a browser refresh does not refresh the control correctly. This update is described in Microsoft Security Bulletin MS06-013, published in April 2006.

To work around this issue, move the <OBJECT> tag from the main HTML file to a separate JavaScript file, as shown in this example:

```
// HTML file
<HTML>
<HEAD>
    <TITLE>test</TITLE>
</HEAD>
<BODY bgColor="white" PSPARAMS="">
<P>Put your data here </P>
<P> </P>
<P>
    <div id="DivID">
        <script src="createElement.js"></script>
    </div>
</BODY>
</HTML>
```

The *createElement.js* JavaScript file contains the Object tag:

```
// createElement.js file
var d = document.getElementById("DivID");
d.innerHTML =
'<OBJECT id="OBJECT1" style="WIDTH: 627px; HEIGHT:
320px" codeBase="psdwc105.cab"
classid="CLSID:A5A51503-A5A5-1000-8000-080009AC61A9">'
+'<PARAM NAME="_Version" VALUE="65536"></PARAM>'
```

```
+'<PARAM NAME="_ExtentX" VALUE="16589"></PARAM>'
+'<PARAM NAME="_ExtentY" VALUE="8467"></PARAM>'
+'<PARAM NAME="_StockProps" VALUE="2"></PARAM>'
+'<PARAM NAME="Caption" VALUE=""></PARAM>'
+'<PARAM NAME="SourceFileName"
VALUE="test.psr"></PARAM>'
+'<PARAM NAME="DataWindowObject"
VALUE="test.psr"></PARAM>'
+'<PARAM NAME="LogId" VALUE=""></PARAM>'
+'<PARAM NAME="LogPass" VALUE=""></PARAM>'
+'<PARAM NAME="dbParm" VALUE=""></PARAM>'
+'<PARAM NAME="SuppressEvents" VALUE="0"></PARAM>'
+'<PARAM NAME="VScrollBar" VALUE="0"></PARAM>'
+'<PARAM NAME="HScrollBar" VALUE="0"></PARAM>'
+'<PARAM NAME="HSplitScroll" VALUE="0"></PARAM>'
+'<PARAM NAME="LiveScroll" VALUE="0"></PARAM>'
+'</OBJECT>';
```

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 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.

9.1 Toolbar changes in PowerBuilder 10.5

In the Menu painter, you can now add a toolbar to a standalone main window as well as to an MDI frame. PowerBuilder adjusts the size of the main window to accommodate the toolbar. If your application currently uses a visual user object as a toolbar in a main window, the adjustments that PowerBuilder makes might affect the display of your toolbar and conflict with adjustments that your scripts make to display microhelp.

You can replace your toolbar user object with a toolbar designed in the Menu painter or continue to use your existing toolbar. To ensure that your existing toolbar displays correctly, set the window's ToolbarVisible property to false in a script or on the Toolbar page in the Properties view. To avoid conflicts, you should also move any microhelp position adjustment code into an event that runs after the Open event of the window.

9.2 Icon changes in PowerBuilder 10.5

In PowerBuilder 10.5, many of the icons used in the PowerBuilder and InfoMaker user interfaces were changed. When you migrate an application to PowerBuilder 10.5 or later, any stock icons used in the application are updated automatically. For users who prefer to use the existing icons, a zip file that contains 24 icon files and more than 500 bitmap files used in previous versions of the products is available on the CodeXchange Web site at https://powerbuilder.codexchange.sybase.com/servlets/ProjectDocumentView?documentID=2392&showInfo=true.

9.3 Change in Date function behavior

When you use the Date function with a string argument, PowerBuilder attempts to match the input string to a date format in the regional settings on the computer. In PowerBuilder 10 and later, if a complete match is not found, PowerBuilder attempts a partial match. For example, if you use `Date('01-JAN-1900')` and PowerBuilder finds the partial match (dd-MMM-yy), PowerBuilder parses the first two numbers of the year and gets 19. The 2-digit year is interpreted as a year between 1930 and 2029, and the date returned is 1/1/2019.

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 PowerBuilder 10.5 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 PowerBuilder 10.5 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 10.5.2 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.