

Release Bulletin

PowerBuilder® 12.5

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Product Summary

This release bulletin provides late-breaking information about PowerBuilder® 12.5. A more recent version may be available on the Web.

Sybase® PowerBuilder version 12.5 supports these operating systems:

- Microsoft Windows XP with Service Pack 3
- Microsoft Windows Vista Business Edition with Service Pack 2
 PowerBuilder 12.5 builds 32-bit applications, but supports deployed applications in both 32-bit and 64-bit environments.
- Microsoft Windows 7 Professional 32-bit and 64-bit with Service Pack 1 (design-time and runtime support)
- Microsoft Windows Server 2008 32-bit and 64-bit with Service Pack 2 (runtime only)

For information about accessibility, see Accessibility Features in this release bulletin.

Product Summary

Known Issues

Learn about known issues and workarounds.

Note: You can search the Sybase Web site for solved cases. Choose **Support > Solved Cases** or go to *http://search.sybase.com/search/simple.do?mode=sc.* You need a MySybase account to view solved cases in the archive.

Known Issues for Databases

Learn about known database issues in PowerBuilder.

Table 1. Database issues

CR#	Description
634719	PowerBuilder Connections to Informix on 64-bit Windows.
	Informix database connections in PowerBuilder do not support Windows 64-bit systems except for Windows 2008 R2 64-bit systems. Refer to Informix Client SDK system requirements webpage at https://www-304.ibm.com/support/docview.wss?uid=swg27016673 . For Informix ADO.NET connections on Windows 2008 R2 64-bit system, you must install both the 32-bit and 64-bit database drivers from Informix.
626396	PowerBuilder WebForms Connection to ASE 15.5 through ADO.NET interface.
	PowerBuilder WebForm applications cannot connect to an Adaptive Server® Enterprise database through ADO.NET interface using the current ASE 15.5 driver. The problem does not occur in PowerBuilder Classic or PowerBuilder WinForm applications. For PowerBuilder .NET applications, you need to install the SDK drivers for ASE 15.5 ESD #7 or higher.

Known Issues for the WPF Window and Menu Painters

Learn about known issues and apply workarounds for the WPF Window and Menu painters in PowerBuilder .NET.

Table 2. WPF Window and Menu painter issues

CR#	Description
618528	Menu items that use special symbols in their names cannot be deleted. In PowerBuilder .NET, you cannot delete menus that include symbols, such as "@," "#,""\$," and so on, in their names.
612182	PowerBuilder .NET does not properly support the Properties window Events tab.
	Not all events are listed on this tab, and if you show an object's events in the Properties window, then double-click an event, or click in the drop-down list next to one of the listed events, an error message indicates the event handler is invalid.

Known Issues for the WPF DataWindow

Learn about known issues and apply workarounds for the WPF DataWindow® in PowerBuilder .NET.

Table 3. WPF DataWindow issues

CR#	Description
675761	Select symbol display issue.
	In a .NET Assembly target's PrintDW at runtime, the select symbol does not appear for RadioButton or CheckBox controls.
675595	DW.Print to a physical printer does not work when print.filename is empty.
	If print.filename is empty in the .NET assembly runtime, DW.Print cannot print to a physical printer. It works in the WPF runtime.

Table 4. WPF RichText DataWindow issues

CR#	Description
621618	Large files in a RichText DataWindow object degrade performance. When you save or open a RichText DataWindow object using a file of 400KB or greater, the performance is slow.
613487	RichText column text is truncated incorrectly at page breaks. If a RichText column crosses two pages, the text is truncated incorrectly at the page break.

Known Issues for WPF Controls

Learn about known issues and apply workarounds for WPF controls in PowerBuilder .NET.

Table 5. WPF control issues

CR#	Description
676279	Build error when adding inherited SVO into a CVO .NET assembly.
	If you create a SVUO for CVUO .NET assembly, inherit the SVUO and add it into a CVUO, there is an error: ""Partial declarations of 'assembly.svuo_cmb_b" have conflicting accessibility modifiers."
675923	Adding a CVUO to a CVUO triggers the Constructor event twice in .NET Assembly targets at runtime.
	In .NET Assembly targets, if you add a CVUO to another CVUO, the Construcor event is triggered twice at runtime.
675759	Height and width of StaticText controls changes after migrating target.
	When you migrate a StaticText control from PowerBuilder .NET 12.1 to 12.5, the height and width properties change.
663341	GAC interferes with adding CVUO to Visual Studio toolbox
	You can add the CVUO to the global assembly cache (GAC), but it cannot then be added to the Visual Studio toolbox. If the CVUO is not in the GAC, it can be added into the toolbox.
572458	Adding a tab page item causes design time flickering.
	When you select the Add Tab context menu item on a Tab control at design time, you may see a slight flickering on the monitor.

CR#	Description
572400	TabPage tabs can extend beyond a Tab control.
	If you add several tab pages to a Tab control, PowerBuilder automatically adds arrow buttons to allow users to click through all of the tabs, some of which are hidden. However, in PowerBuilder .NET, the arrow buttons can hide part of the text of a TabPage, giving it a cut-off appearance at design time and runtime. At design time, the outline of a tab page may appear outside the boundaries of the main Tab control.
570542	TextCase property must be reset in some instances.
	If you add mixed-case text to a SingleLineEdit control while the TextCase property in the Properties view is set to Upper! or Lower!, the text does not automatically use the case indicated by the property.
	Workaround: You can change the case by selecting a different value for the TextCase property, then reselecting the original value.

Known Issues for Third-Party and Custom Controls

Learn about known issues and apply workarounds for third-party and custom controls in PowerBuilder.

Table 6. Third-party control issues

CR#	Description
673839	Updatable columns listbox malfunctions when the list of columns is larger than what fits on one screen.
	For example, open the Update Properties dialog for the listbox. In the Updatable Columns listbox, select the ID column: this is now unselected and the columns are selected. Scroll down and then back up: more items are unselected. And so on.
640523	WPF Publish SmartClient application fails when third-party controls are included.
	If a WPF application includes third-party controls and the required reference assembly files are not in a build subfolder (\bin\Debug or\bin\Release), when you publish it as a SmartClient application the publish does not copy related files to the publish folder (\bin\Debug\published or\bin\Release\published).
	Workaround: Copy all required assembly files to the build subfolder (\bin\Debug or\bin\Release) according to the section <referenceassemblyfiles> of the publish.xml (also in the build subfolder). The publish is then successful.</referenceassemblyfiles>

CR#	Description
635007	XAML best practices for third-party controls.
	Define the third-party namespaces in the XAML root element before adding third-party controls. If you do not, an incorrect namespace is added inline and causes XAML namespace errors.
633431	Sometimes a new Toolbox tab that you added will disappear.
	If you add a new tab to the Toolbox and then PowerBuilder .NET crashes, the new tab is not saved.
626856	Using third-party controls that refer to different versions of WPFToolkit.dll causes build error.
	The WPFToolkit.dll (version 3.5.40320.1), referenced by WPF applications in PowerBuilder .NET, is added automatically. If you use other third-party WPF controls that reference different versions of WPFToolkit.dll, you see the build error "The located assembly's manifest definition does not match the assembly reference."
621554	Double-clicking some third-party controls does not open the Script view.
	The Script view does not open automatically when you double-click some third-party controls, such as RadCalendar, in a Layout view. This issue also exists in Visual Studio.
	Workaround: Open the Script view for the window or parent control and select the third-party control from the top left drop-down list.

Known Issues for WPF Inheritance

Learn about known issues and apply workarounds for inheritance in PowerBuilder .NET.

Table 7. WPF inheritance issues

CR#	Description
624278	Deleting ancestor menu items can cause descendant menus to fail integrity check.
	When you delete a menu item in an ancestor menu, the Object Integrity Failure dialog box sometimes appears when you try to open the descendant menu, and the descendant menu may be blank if you subsequently open it in the Menu painter.
	Workaround: Click OK in the Object Integrity Failure dialog box, then select PowerScript Editor in the Open With dialog box. The editor highlights the deleted menu item in source code with a straight red underline. If you comment out or delete all Type End Type and On End On clauses containing the underlined menu item, you can open the descendant menu again in the Menu painter.

Known Issues for .NET Language Enhancements

Learn about known issues and apply workarounds for the .NET language enhancements in PowerBuilder.

Table 8. .NET language enhancement issues

CR#	Description
649531	You can connect a PowerBuilder event or function to a .NET event only if it was defined outside of PowerBuilder.
	.NET events are different from PB events: a .NET event is a delegate instance while a PB event is a method that can be used as a handler of a .NET event. The .NET event can only be defined outside of PowerBuilder. To know what .NET events are in a third-party control or regular .NET class, you need to check the metadata using .NET reflection tool or a related document.

CR#	Description
620924	Deleting parameterized constructor does not remove inherited constructor in child object.
	If you extend a parameterized constructor by adding code to it in a child object, then delete the parameterized constructor in the parent object, the child object source code still contains a hidden system-generated script that calls the deleted parent constructor. This leads to a compile failure.

Known Issues for the WPF Runtime

 $Learn\ about\ known\ issues\ and\ apply\ work arounds\ in\ Power Builder\ . NET\ WPF\ applications\ at\ runtime.$

Table 9. WPF runtime issues

CR#	Description
655873	Embedded non-image file resources do not load.
	You cannot use file-based system functions to embed non-image external resources in PowerBuilder code for a WPF target.
	For example, if you change the build action of a text file from normal content to an embedded resource, the resource fails to load at runtime.
655701	External content resources for 3rd-party controls do not load.
	External Content resources for third-party controls (for example, the Microsoft WPF Image control) fail to load at runtime. Only embedded resources are loaded successfully at runtime.
618158	Dragging a toolbar does not trigger the ToolbarMoved event.
	In PowerBuilder .NET, the ToolbarMoved event is triggered for an SDI window only when you open the window.
590157	Culture settings issues in DatePicker and MonthCalendar controls
	The masks for enabling single-digit values for the hour in 12-hour or 24-hour formats (h and H) do not work properly. In PowerBuilder .NET, they work the same as the hh and HH masks, and always present hour values with two digits.
585399	Application and assemblies cannot have identical names.
	A runtime error occurs when you use the same name for an assembly and the WPF application that references the assembly.
	Workaround: In a WCF Client Proxy project, do not name the generated assembly with the name of the WPF application that hosts the project.

CR#	Description
582510	Multiple-item selection in a ListView control.
	Multiple-item selection in a ListView control is enabled when the ExtendedSelection property is set to true. However, in WPF applications, users cannot use the mouse to lasso the items they want to select.
	Workaround: In WPF applications, users must hold down the Shift key to select multiple items.

Known Issues for the WPF Debugger

Learn about known issues and apply workarounds for the WPF Debugger in .

Table 10. WPF Debugger issues

CR#	Description
676190	The debugger does not display value tips for shared variables.
	For shared variables, expressions like this are evaluated:
	PBGlobalDefinitions_pb12wpfdebug.GetIn-stance().w_main_6_s_ulong_7
	This is satisfactory for the watch window. But for tooltips, function calls are not accepted. Change GetInstance to a GetProperty.
661095	Breakpoints not found in objects of same name in different targets
	If there are two objects with the same name in different targets, and you attempt to go to a breakpoint in one of the objects, the debugger cannot open the correct source code and go to the correct breakpoint. This issue is a limitation of editing source code at the level of routines instead of as files.
637697	Array Expressions in PowerBuilder .NET Debugger Watch View
	The PowerBuilder .NET Debugger Watch View cannot evaluate an expression that includes an array.
620549	Zero-based arrays not shown correctly in debugger.
	The debugger incorrectly displays zero-based object arrays used by some Web services.
620068	Go To Source Code works only for single target.
	In some debugger windows, you can select a breakpoint and use the Go To Source Code command to open the source code at that breakpoint. This command works incorrectly for a breakpoint in a PowerBuilder .NET workspace that has multiple PowerBuilder .NET targets.

CR#	Description
616269	Incorrect CheckBox control properties in QuickWatch window.
	The QuickWatch window displays some CheckBox control properties incorrectly.
614864	Unwanted temporary variables in debugger output.
	Temporary variables that do not exist in the application code (for example,PB_TEMP_DBOutputVars0), may appear in some debugger windows.
	Workaround: You can safely ignore these temporary variables.
610237	Cursor stops twice for FORNEXT statements.
	If you set a breakpoint immediately prior to a FORNEXT statement, then issue successive Step Into commands, the WPF Debugger cursor stops twice at the line with the FOR clause.

Known Issues for the WCF Client Proxy

Learn about known issues and apply workarounds for the WCF client proxy in PowerBuilder .NET.

Table 11. WCF client proxy issues

CR#	Description
616323	WCF client does not work with IssuedToken client credential in FDCC environment.
	The IssuedToken client credential uses SHA1Managed cryptography, which is not compliant with the Federal Information Processing Standard (FIPS) for cryptographic modules. This causes the WCF client communication request to fail from computers using the Federal Desktop Core Configuration (FDCC).
590729	Redeploying a project with the Window painter open.
	If you keep a WPF window open while redeploying a WCF Client Proxy project, a message on top of the Window painter prompts you to reload the designer.

Known Issues for the WCF Services

Learn about known issues and apply workarounds for the WCF services in PowerBuilder .NET.

Table 12. WCF services issues

CR#	Description
672164	WCF service will not build if a parent NVO has non-public members.
	If the function name is the same as the property name, there is an error "Csc: Error CS0103 n_parent (17,11): The name 'pbp_p_protected_get' does not exist in the current context" and the WCF service does not build.
671004	WCF service fails to invoke functions related to DataWindow SaveAs and DataWindow.Print.
	A WCF service does not invoke functions related to the DataWindow SaveAs XML or XPS, nor to DataWindow.Print in NUnit. The DataWindow SaveAs XML sometimes passes, sometimes fails. IIS can only print to the Microsoft XPS document Writer file printer.
667433	WCF service attribute settings lost after opening a beta project.
	If you open a WCF service project that was created in a beta build of PowerBuilder .NET, all attribute settings are lost. You need to reset the attributes.
663912	WCF service fails to invoke a specific function.
	A WCF service with an enum will cause the error "Underlying connection is closed."

Known Issues for the FlowDirection Property

Learn about known issues and apply workarounds for the FlowDirection property in PowerBuilder .NET.

Table 13. FlowDirection property issues

CR#	Description
590684	Preview view does not display flow direction set in application.
	When you preview a window in an application that has a right-to-left flow direction set on the Application object, but not on the window being previewed, the preview does not show the window with the right-to-left flow direction. For the preview to work correctly, you must also set the flow direction on the window you want to preview.

Known Issues for Migration

Learn about known issues and apply workarounds for the migration to PowerBuilder .NET.

Table 14. Migration issues

CR#	Description
634087	OLE controls can be migrated but not added or edited.
	You can migrate a PowerBuilder Classic application with OLE controls to a WPF application in PowerBuilder .NET. You cannot add or edit OLE controls in the migrated application. Editing controls in the XAML view may cause a full build error (for example, copying and pasting OLE controls in the XAML view).
621806	Blank area appears in MDI windows after migration.
	In PowerBuilder Classic, the toolbar for an MDI or MDIHelp window occupies an otherwise empty space in the client area of the window. In PowerBuilder .NET, the space occupied by the toolbar is not part of the client area, so when you migrate MDI windows, the space previously occupied by the toolbar appears blank.
	Workaround: After migration, move the controls in MDI windows to cover the client area previously occupied by the toolbar.

Known Issues for Installation

Learn about known issues and apply workarounds for the PowerBuilder setup program.

Table 15. Installation issues

CR#	Description
672300, 674208	PowerBuilder 12.5 installation affects PowerBuilder 12.1 installation
	After a PowerBuilder 12.5 installation, these PowerBuilder 12.1 system assemblies cannot be expanded in 12.1 target references:
	Sybase.PowerBuilder.WCF.dll Sybase.PowerBuilder.WPF.dll Sybase.PowerBuilder.WPF.Skins.dll
	This issue prevents windows and visual user objects from opening in existing WPF targets. It does not cause build and runtime problems.
	Workaround: Manually restore the assemblies:
623693	 Open a .NET target. If you cannot expand any of the PowerBuilder 12.1 system assemblies in the reference list: Remove the item from the list. Add the the corresponding assembly to the list from the Power-Builder 12.1 installation (for example, C:\Program Files\Sybase\PowerBuilder 12.0\DotNET\bin). Save the target.
623693	Local SySAM license may cause failure when server license is installed. If you install PowerBuilder using a local license on a SySAM license server, the setup program may fail.
	Workaround: Install PowerBuilder on the license server with an evaluation license, then update the license from the Tools menu of a PowerBuilder IDE.
607351	Error message appears during SQL Anywhere installation.
	On the last step of the SQL Anywhere installer in the PowerBuilder setup program, you may see this message: Invalid license data. Reinstall is required.
	Workaround: Click OK to dismiss the dialog box. The SQL Anywhere installation completes normally.

Known Issues for Web Forms Applications

Learn about known issues and apply workarounds for Web Forms applications.

Table 16. PowerBuilder Classic Web Forms issues

CR#	Description
654894	Error when launching PB 12.5 Web Forms app in Windows 7
	If you launch a PowerBuilder 12.5 Web Form application in the Windows 7 operating system, this 404.2 error is displayed: The page you are requesting cannot be served because of the ISAPI and CGI restriction list setting on the Web Server.
	Workaround:
	 In Windows 7, open the IIS Manager and locate the IIS component, ISAPI and CGI Restrictions, under the current server. Double-click the component, right-click ASP.NET v4.0.30319, and choose Allow. Restart the IIS Server and the Web Form application.
624288	Standard user cannot debug Web Forms applications.
	If you log in as a standard user on Windows Vista or Windows 7, you cannot debug Web Forms applications or .NET Web Service components, because the debugging process cannot attach to the ASP.NET work process. The User Account Control (UAC) dialog box that enables you to elevate your privileges appears when you attempt to deploy an application or component as a standard user, but it does not appear when you attempt to debug the application or component.
	Workaround: Choose Run As Administrator to launch the PowerBuilder Classic IDE and debug the application or component.

Known Issues for Split Assemblies

Learn about known issues and apply workarounds for split assemblies in PowerBuilder .NET.

Table 17. Split assembly issues

CR#	Description
657114	Running the full build process after making changes in the scripts does not automatically trigger the dependency check.
	There could be build errors if there are potential dependency errors.
	Workaround: Run a manual dependency check if the changes might affect the dependency result.
647772	Split assembly dependency check error for global external functions.
	When you run a dependency check on a project with split assemblies, there is a dependency error on the lines calling global external functions. To avoid this, refactor by replacing the global external functions with local external functions.
644570	The executable is not created if a PBL contains an application object going into a split assembly.
	The output assembly has a red border and tooltip indication if there is a duplicated name (assembly and executable). Also, the name will be ignored when it is saved.
	If the PBL has the same name as the executable file, then by default the DLL is filtered out of the Output Assembly drop-down list.

Known Issues for Miscellaneous Items

Learn about known issues and apply workarounds for miscellaneous items in PowerBuilder.

Table 18. Miscellaneous issues in PowerBuilder

CR#	Description	
676276	Changing screen resolution affects appearance at runtime.	
	If you change the screen resolution, there are differences between the appearance at design time and runtime.	

CR#	Description	
675987	Customized constructor events do not display in a referenced PB Assembly.	
	Customized constructor events that are defined in NVUOs do not display in a PB Assembly referenced in the Solution Explorer. You must inherit from this NVUO to get information of the constructor event into the Script painter or PB Object Outline.	
675440	Pressing Shift + F1 in Script painter does not open content directly.	
	We are unable to replicate the behavior of Windows Help using HTML Help. Windows Help has been deprecated by Microsoft.	
675394	Setting the skin for multiple controls causes errors.	
	If pbwpf:window.skin is not the last property of a control in the XAML view and you select multiple controls to set their skin at the same time, this error appears: "The property 'skin' is set more than once."	
674837	Assemblies cannot be generated if there's input following XML sample data.	
	In the REST client wizard or project painter, when you enter sample data for the primitive datatype such as a string or array of strings, then it will be failed to generate the assembly. For the primitive datatype, select Use primitive datatype (select Array option for an array of primitive datatypes) in the wizard or Project painter instead of entering the XML data and generating a new assembly.	
674639	Shortcut key for Assembly Dependencies window changed	
	In PB12.5 .NET IDE, the keyboard shortcut to open the Assembly Dependencies window (Ctrl+Alt+A in the previous version) is changed.	
674143	3-D property does not affect Checkbox control in Windows XP.	
	In the Windows XP theme, the 3-D property does not affect the appearance of the Checkbox control. It always appears as 3-D.	
673442	Uninstalling .NET assembly case, it shows non-English interface.	
	If you uninstall a .NET assembly case, you will see an non-English interface (such as the German language).	
672005	Inherited public .NET properties are not exposed to a .NET assembly.	
	The public properties of an NVO inherited from a .NET class are not exposed in a .NET assembly.	
670814	.NET assembly's Array property has issues in the deployed DLL.	
	The array property is not exposed in a deployed DLL, nor is an array's instance variable with name of "names." Other instance variables are exposed.	

CR#	Description	
661724	Message prompts to save changes before closing pbshell.exe after you execute the auto-build command.	
	This error occurs if you set the Solution and then use FullBuildSolution. It does not matter if there is an error in the solution, or if IncrementalBuild-Solution is used instead of FullBuildSolution. Sybase recommends that you use only FullBuildSolution without using <solution first.<="" td=""></solution>	
654850	Temporary class members appear in .NET Assembly target project's Object tab.	
	If you create a class member but do not save it, and then open the project, that new class member is listed in the Object tab.	
634891	Limitation of RichText	
	You cannot toggle InputFieldNamesVisible after using PasteRTF.	
640509	WPF SmartClient fails to install if name has uppercase letters.	
	The names of WPF SmartClient applications are always generated using all lowercase characters. Consequently, if the manifest specifies an application name that contains uppercase letters, the installation fails to install.	
	Workaround: Use only lowercase characters when you specify the WPF application executable name in the Project painter General page.	
	Fixed in 12.1 EBF.	
626344	Inconsistent Save Behavior.	
	In Windows 7, PowerBuilder .NET behavior is inconsistent when saving objects, depending on the type of object and the type of Windows user. For example, PowerBuilder might clear the layout view after an administrator saves a window painter, but not if a regular user launches the IDE using Run As Administrator.	
623684	Error creating project with standard user login.	
	If the current user does not have write permission for the directory assigned to the TMP environment variable, an error message appears in the Output window after the user attemps to create a project with a target or project wizard.	
	Workaround: Set the TMP variable to a directory for which the current user has write permission.	

CR#	Description	
617268	GetLatestVersion does not get all files added to Perforce by another user.	
	If two users add the same solution from a Perforce 2008 depot, then the first user checks in a new object for the solution, the second user can select Get Latest User (Recursive) to add the new object. However, although the new object is visible in the Solution Explorer of the second user, it is not added to that user's PBL directory.	
	Workaround: The second user must close and reopen the solution to complete the GetLatestUser action and get all the updates.	
616577	Double-clicking resource items on FDCC-certified XP computers.	
	Although double-clicking a resource item in the Solution Explorer should open the editor associated with the item's file type, on FDCC-configured Windows XP computers, the Move dialog box opens instead. This does not occur on non-FDCC computers or on FDCC-configured computers using the Windows Vista operating system.	
	Workaround: To enable the correct editor to open:	
	 In the Solution Explorer, right-click the resource item. Select Add to open the Add Program dialog box. Browse to the program you want to use to open files of the type you right-clicked in step 1. If necessary, change the Friendly Name of the program you selected in step 3 and click OK. In the Open With dialog box, select the friendly name from step 4, click Set as Default, then click OK. Repeat this process for all other types of resource items you want to open from the Solution Explorer. 	
572522	Problem Starting SySAM License Server	
	If your Windows license server host has IPv6 enabled, the served license does not perform correctly. http://infocenter.sybase.com/help/index.jsp? topic=/com.sybase.infocenter.dc71335.1550/doc/html/ate1274477728881.html provides more details.	
569483	New targets in root path of the c: drive are not visible.	
	In PowerBuilder .NET, if you create a workspace in the root path of the c: drive, then create a target in the root path, the target does not appear in the Solution Explorer.	

Known Issues

Product Compatibilities

PowerBuilder was tested for compatibility with a number of software products.

Table 19. Software products tested with PowerBuilder

Software type or product	Compatibility description	
Application servers	PowerBuilder Classic has been tested with EAServer 6.3.1.	
SQL Anywhere	PowerBuilder 12.5 has been tested with SQL Anywhere® 12.0.1.	
PowerDesigner	PowerBuilder 12.5 has been tested with PowerDesigner® 15.3 ESD #9.	
Microsoft .NET Framework	PowerBuilder .NET and PowerBuilder Classic are compatible with Microsoft .NET Framework 4.0 and later.	
Web browsers	PowerBuilder Web Forms applications are fully supported in Internet Explorer 6 and later browsers.	
Java	PowerBuilder Classic is compatible with JDK 1.5 and 1.6.	
Ghostscript	The DataWindow Save As PDF feature has been tested with AFPL Ghostscript version 8.60.	

Product Compatibilities

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, available from the Support directory on the DVD and on the Sybase Web site at http://www.sybase.com/softwarelicenses/third_party_legal.

Apache Files

You may redistribute the Apache files that are included with PowerBuilder to your users.

Any use or distribution of the Apache code included with PowerBuilder 12.5 must comply with the terms of the Apache License, which is located in the free download terms document for PowerBuilder.

Version 0.20.5 of the Apache Formatting Objects Processor (FOP) is required if your application uses XSL-FO to save files as PDF. 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 Web DataWindow support, XML support for DataWindows and DataStores, PBDOM, and SOAP clients for Web services. See the Xerces C++ Parser Web site at http://xml.apache.org/xerces-c/.

Microsoft Files

Special Microsoft files are required on runtime computers for various PowerBuilder features.

Visual C++ runtime and the Active Template Library

When you deploy the core PowerBuilder runtime files, make sure that the msvcr71.dll and msvcp71.dll Microsoft Visual C++ runtime libraries and the Microsoft .NET Active Template Library (ATL) module, at171.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. You can obtain these files from DLL archive Web sites at http://dlldump.com or <a hr

Note: Some files that are installed by the MSI file generated by the PowerBuilder Runtime Packager have dependencies on these files. For example, at171.dll must be installed on the user's computer before the pbjvmversion.dll file can be registered. Make sure these files are on the target computer before you run the MSI file generated by the Runtime Packager.

Ink picture libraries

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 that 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 compatibility issues between these DLLs and the .NET Framework 2.0. You can obtain an update that addresses these issues from the Microsoft Web site at http://www.microsoft.com/downloads/details.aspx?familyid=84BBEFA4-7047-41DF-8583-E3BDBF9D805F&displaylang=en.

DirectX 9.0c runtime

PowerBuilder applications can use DirectX 3D rendering to display 3D graphs (Pie3D, Bar3D, Column3D, Line3D, and Area3D) with a more sophisticated look. You can use data item or series transparency with the DirectX graph styles to improve the presentation of data.

The DirectX 3D rendering depends on the DirectX 9.0c runtime. The first time you select the Render3D check box on the General tab of the Properties view for a 3D graph, PowerBuilder launches the DirectX installer. If you opt out of the installation, the Render3D property is ignored. End users of PowerBuilder applications must also have the DirectX 9.0c runtime installed on their computers to view the DirectX graph styles. You can download the DirectX 9.0c runtime from the Microsoft Web site at http://www.microsoft.com/downloads/details.aspx?FamilyID=2da43d38-db71-4c1b-bc6a-9b6652cd92a3&DisplayLang=en.

For computers with older graphics drivers, you can check whether DirectX is supported by running dxdiag.exe. This file is typically installed in the Windows\System32 directory. The Display tab of the DirectX Diagnostic Tool that opens when you run dxdiag.exe indicates whether Direct3D is enabled.

Oracle (Sun Microsystems) Files

The Java Runtime Environment (JRE) is required for EJB clients, JDBC connections, and saving objects and documents to PDF files 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.

Software Used for SOAP Clients for Web Services

PowerBuilder Classic applications can use EasySoap to connect to Web services. The EasySoap++ library in executable form (EasySoap125.dll), which is dynamically linked to PBSoapClient125.pbx, is distributed with PowerBuilder.

The EasySoap++ library and its use are covered by the GNU Lesser General Public License (LGPL). For a copy of this license, see the free download terms document.

You may distribute the EasySoap++ library to third parties subject to the terms and conditions of the LGPL.

The complete machine-readable source code for the EasySoap++ library is provided in the EasySoap.zip file in the Support\WSExtn folder on the DVD. In addition, the object code and Microsoft Visual C++ project file for the PBSoapClient125.pbx are in the soapclient.zip file in the same directory.

These files are provided under the terms of the LGPL so that you can modify the EasySoap++ library and then relink to produce a modified EasySoap125.dll. You can also relink PBSoapClient125.pbx with the modified EasySoap++ import library. According to the terms of the LPGL, you may not be able to recompile PBSoapClient125.pbx to use the definitions you have modified in the EasySoap++ library.

Follow the instructions in the Readme.txt file in the soapclient.zip file to build PBSoapClient125.pbx.

Third-Party Components and Deployment

Documentation Updates and Clarifications

Read about corrections and clarifications to released documentation for PowerBuilder 12.5.

Table 20. PowerBuilder Documentation Issues

CR#	Description	
741783	Use Selected.Mouse object property in conjunction with Protect object property	
	This note should be added to the <i>Usage</i> section of the DataWindow object property topic <i>Selected.Mouse</i> in the <i>DataWindow Reference</i> :	
	Note: If a column is protected and dw_control.Object.Selected.Mouse = "No", than you cannot select a column. You can still select the column header, however, which will highlight the entire column. You should set Selected.Mouse to "No", Protect to 1, and Grid.ColumnMove to "No".	
	Users should also refer to the <i>Protect</i> and <i>Grid.ColumnMove</i> object property topics in the <i>DataWindow Reference</i> .	
736338	Update to ORCA appendix in Users Guide	
	On the first page of Appendix B: The OrcaScript Language in the Power-Builder Users Guide, it states that the full ORCA tool kit is available to Sybase partners only, but this is not the case. The files ship with the product:	
	• The Orca header file, lib file, and documentation (orca125.pdf) are in\Sybase\PowerBuilder 12.5\SDK\ORCA directory.	
	• PBORC125.dll is in the\Shared\PowerBuilder directory.	
731412	Support for 32-bit Outlook and simple MAPI only	
	At this time only 32-bit Outlook is supported, and the simple messaging application program interface (MAPI). PowerBuilder does not support 64-bit Outlook.	
728727	Selecting Windows Classic Style removes the manifest file	
	Corrected Text: When you select the Windows Classic Style check box in the application project, the application appears with the standard controls.	
	This correction applies to PowerBuilder <i>Users Guide > Running Your Application > Creating Executables and Components > Defining an executable application project.</i>	

CR#	Description	
727830	Overflow of real, double, and decimal values does not cause runtime errors	
	In the <i>PowerScript Reference</i> topic <i>Arithmetic operators in PowerBuilder</i> , the <i>Errors and overflows</i> section states that "Overflow of real, double, and decimal values causes errors at runtime" but they do not. You can overflow real, double, and decimal values.	
720479	Corrections to database drivers and supporting files for SQL Anywhere	
	There are some corrections to the file names for SQL Anywhere in the <i>Application Techniques</i> topic <i>ODBC Database Drivers and Supporting Files</i> .	
719172	 Remove rteng11.exe and rteng11.lic from Table 36-9: SQL Anywhere Files. Change "the SQL Anywhere restricted runtime engine (rteng11.exe) and other SQL Anywhere executables require elevated privileges" to "the SQL Anywhere executables require elevated privileges." Update "Start"="c:\program files\sybase\SQL Anywhere 12\bin32\rteng11.exe -c9m" to "Start"="c:\program files\sybase\SQL Anywhere 12\bin32\dbeng12.exe -c9m" in the code example for configuring ODBC data sources and drivers. 	
718173	Correction to syntax for Transparency (DataWindow objects) This applies to the <i>DataWindow Reference</i> and the InfoMaker <i>Users Guide</i> .	
	Corrected Text:	
	PowerBuilder dot notation: dw_control.Object.DataWind-ow.transparency	
	<pre>Describe and Modify argument: "DataWindow.transparency { = integer }"</pre>	
715058	GetFileOpenName function behavior differences between operating systems	
	The initdir parameter in GetFileOpenName function uses some different algorithms in Windows 2000/XP/Vista from Windows 7, which are described in detail in <i>Initdir Parameter Behavior in GetFileOpenName Function</i> on page 30.	

CR#	Description	
712849	Find Function Enhancement	
	The Find function now has a buffer argument. You can use the new buffer argument to find data in the Delete! or Filter! buffers. The default value is Primary! The argument is optional.	
	<pre>long dwcontrol.Find (string expression, long start, long end{, DWbuffer buffer})</pre>	
	This was documented in the 12.1 Release Bulletin, but not added to the core documentation. It should be included in 12.5 and later.	
705028	Providing support for NULL values in EAServer Components	
	Corrected text: Proxy objects do not include the suffix "_N" in the function name. In <i>Application Techniques</i> , <i>Defining the component interface</i> , the paragraph that begins "If you allow null values in the prototype for a component method, PowerBuilder appends a "_N" suffix to the method name" should be removed entirely.	
701504	Create white list of Web sites for Web Forms applications	
	You can set PBAllowDownloadUrls in the Project Painter. It is a white list of Web sites, separated by semicolons. By setting this list, PowerBuilder accepts only the URLs of the sites in this list, which allows you to provide added security to your application. The list is not case-sensitive. Include "http:\\" or "https:\\" in the URLs.	
692447	Incorrect datatype mappings for PowerBuilder .NET	
	Corrected text: PowerBuilder Date and Time variables need to be converted to DateTime when calling a C# assembly. You can call PowerBuilder assemblies with the Date and Time variables and perform the conversion within the assemblies. See <i>PowerBuilder .NET Datatype Mapping</i> on page 31.	
677259	Windows Forms and Web Forms require two DLLs, in addition to DLLs currently listed: msvcr100.dll and msvcp100.dll. The documentation was updated in the <i>PowerBuilder .NET Features Guide</i> and <i>Deploying Applications to .NET.</i> However, it was not updated in <i>Application Techniques</i> in time for this release.	
	In Application Techniques, everywhere that msvcr71.dll and msvcp71.dll are listed, please add msvcr100.dll and msvcp100.dll to the required DLLs.	
639448	Unsupported Properties, Events, and Functions	
	New text: You cannot use the Border property for custom controls. If multiple objects are selected including the custom control, you can set the Border property for the objects that do support the Border property. The setting will be ignored for the objects that do not support that property.	

CR#	Description	
638096	Oracle8i native interface is not available in PB 11.5 and later	
	Corrected text: Table 1-4 in <i>Checklist for deployment</i> in <i>Deploying Applications and Components to .NET</i> includes pbo84125.dll but support for the Oracle8i native interface has been discontinued as of PowerBuilder 11.5. The pbo84125.dll should be removed from the table.	
635140	Unsupported Properties, Events, and Functions	
	Updated text: In PowerBuilder 12.1, the DisplayOnly property for Rich-TextEdit is supported.	
624234	Application Server Plug-in	
	Corrected text: <i>Application Techniques</i> and the <i>Users Guide</i> include information about the Application Server Plug-in, but support for this plug-in has been discontinued as of PowerBuilder 12.0.	
624126	ToolbarAlignment window property	
	New text: The <i>Features Guide</i> does not list Floating! as an unsupported enumerated value for the ToolbarAlignment property. In migrated applications that retain this value, toolbars align at the top of a window.	
605201	Behavior Changes for DataWindow Objects	
	Next text: PrintPage behavior: In PowerBuilder Classic, when the return code is set to 1, the page is not printed. In PowerBuilder .NET, when the return code is set to 1, the page prints.	

Initdir Parameter Behavior in GetFileOpenName Function

The initdir parameter in GetFileOpenName function uses some different algorithms in Windows 2000/XP/Vista from Windows 7.

Windows 2000/Windows XP/Windows Vista:

- 1. If filename contains a path, that path is the initial directory.
- 2. Otherwise, initdir specifies the initial directory.
- 3. If the application has used an Open or Save As dialog box in the past, the path most recently used is selected as the initial directory. However, if an application is not run for a long time, its saved path is discarded.
- **4.** If **initdir** is NULL and the current directory contains any files of the specified filter types, the initial directory is the current directory.
- **5.** Otherwise, the initial directory is the personal files directory of the current user.
- **6.** If no other conditions are met, the initial directory is the Desktop folder.

Windows 7:

- 1. If initdir has the same value that was selected in the first instance of the application's Open or Save As dialog box, then it uses the path the user selected most recently as the initial directory.
- 2. If filename contains a path, that path is the initial directory.
- **3.** If **initdir** is not NULL, it specifies the initial directory.
- **4.** If **initdir** is NULL and the current directory contains any files of the specified filter types, the initial directory is the current directory.
- **5.** Otherwise, the initial directory is the personal files directory of the current user.
- **6.** If no other conditions are met, the initial directory is the Desktop folder.

PowerBuilder .NET Datatype Mapping

The PowerBuilder to .NET compiler converts PowerBuilder datatypes to .NET datatypes.

PowerBuilder	C#
boolean	bool
boolean[]	bool[]
blob	byte[]
blob[]	byte[][]
byte	byte
byte[]	byte[]
int	short
int[]	short[]
uint	ushort
uint[]	ushort[]
long	int
long[]	int[]
ulong	uint
ulong[]	uint[]
longlong	long
longlong[]	long[]
decimal	decimal

PowerBuilder	C#
decimal[]	decimal[]
real	float
real[]	float[]
double	double
double[]	double[]
string	string
string[]	string[]
User-defined structure	class ¹
User-defined structure[]	class [] ¹
User-defined NVO object	class
User-defined NVO object[]	class [] ¹
enumerated	enum
enumerated[]	enum[]
Time	Not supported ²
Time[]	Not supported ²
Date	Not supported ²
Date[]	Not supported ²
Datetime	DateTime
Datetime[]	DateTime[]
any	Not supported
Multidimension array	Not supported
PB system structure	Not supported
PB system object type	Not supported

¹ Data container class

PowerBuilder Date and Time variables need to be converted to DateTime when calling a C# assembly. You can call PowerBuilder assemblies with the Date and Time variables and perform the conversion within the assemblies.

Documentation Updates and Clarifications

PowerBuilder	C#
PB system nvo type	Not supported
User-defined non-NVO object	Not supported
ResultSet and its descendants	Not supported
Returning any	Array type
Dot Net serializable type (with Serializable or DataContract attributes)	Dot.Net serializable type
Dot Net primitive type	Dot Net primitive type

Documentation Updates and Clarifications

Migration Information

You can migrate a PowerBuilder application from any version of PowerBuilder directly to PowerBuilder Classic. You cannot migrate applications from PowerBuilder .NET to PowerBuilder Classic, or from PowerBuilder Classic to older versions of PowerBuilder.

You should migrate older applications to PowerBuilder Classic before you port them to PowerBuilder .NET.

Migration to PowerBuilder .NET

The WPF Window Application wizard in PowerBuilder .NET provides an option for converting a standard PowerBuilder Classic client/server or a Windows Forms target to a WPF Window Application target. The .NET Assembly wizard in PowerBuilder .NET provides an option to convert a PowerBuilder Classic .NET Assembly target.

After you select these conversion options and click **Finish**, the wizards automatically migrate the PowerBuilder Classic targets you select. However, you may still need to manually refactor some applications after you convert them.

This table lists some of the features that require special attention after you migrate applications from PowerBuilder Classic. Topic references in the table are to the *PowerBuilder .NET Features Guide.*

Feature	Effect of migration
Accelerator characters	Ampersand (&) changed to underscore (_). See Accelerator Characters in Control Labels.
Conditionalized (preprocessor) code blocks	Invalid code blocks for PowerBuilder .NET are maintained, but ignored. See <i>Conditional Compilation in PowerBuilder .NET Targets</i> .
Control handles	Controls nested in windows do not have their own handles. See <i>Modified and Unsupported Features in PowerBuilder .NET</i> .
Dashes in identifiers	Dashes are replaced with a string you can select in the target wizard. See <i>Coding Restrictions</i> .
Event sequence	May require manual refactoring. See <i>Modified</i> and <i>Unsupported Features in PowerBuilder .NET</i> .
GroupBox controls	Controls that are inside a GroupBox belong to the GroupBox, not to the container of the GroupBox. See <i>Semantic Differences</i> .

Feature	Effect of migration
Large application migration	May cause OutOfMemory error. Turn on 3G switch to avoid this error. See <i>Memory Tuning for Large Applications</i> .
Menu and toolbar styles	Maintained from PowerBuilder Classic. If you migrate PowerBuilder applications earlier than 11.0, menus and toolbars use traditional styles. See <i>Selecting a Toolbar Style</i> and <i>Menu Styles in PowerBuilder .NET</i> .
Non-TrueType fonts	Visible at design time, but replaced at runtime. See <i>Modified and Unsupported Features in PowerBuilder .NET</i> .
Pipeline and Query objects	Imported, but ignored at runtime. See <i>Modified</i> and <i>Unsupported Features in PowerBuilder .NET</i> .
Resource files	Resource directories that you select in the wizard are copied relative to the new target path, based on the relative path to the original target. See Adding Resources to a Target and Project Painter User Interface.
Skins	Default skins are attributed to migrated applications. See <i>Skin Selection for Applications and Controls</i> .

The WPF Application includes migration options for applications with dashes in identifiers and with right-to-left formatting. If you click **Finish** before making a migration option selection, the wizard migrates the application using default settings for these options.

Migration to PowerBuilder Classic

You can migrate applications from any earlier version of PowerBuilder to PowerBuilder Classic 12.5.

Before you migrate, back up your files and use the Migration Assistant to identify obsolete code. The applications you build using the current version of PowerBuilder must be deployed with the PowerBuilder runtime DLLs from the current version.

Note: The "Migrating PowerBuilder Applications" technical document on the Sybase Web site at *http://www.sybase.com/detail?id=1032777* includes information on changes to PowerBuilder since version 6.5 that might affect the conversion of applications to a more recent PowerBuilder version.

Migrating .NET Targets from Earlier Versions of PowerBuilder

When you migrate older Web Forms applications and .NET Web Service components, you might need to remove or install supporting files on development and deployment computers.

If you deployed .NET projects from earlier versions of PowerBuilder, verify or complete the following steps before redeploying the migrated .NET projects:

- For .NET Web Forms and .NET Windows Forms projects, select "Full" for the project rebuild type before you redeploy your applications from PowerBuilder Classic for the first time.
- For .NET Web Forms and .NET Web Service targets, clear ASP.NET temporary files for the application or component on development computers and production servers.

 The temporary files are located in the C:\WINDOWS\Microsoft.NET\Framework \version\Temporary ASP.NET Files\projectName directory, where version is typically v2.0.50727, and projectName is the project's Web application name or its Web service virtual directory name.
- For all .NET targets, uninstall earlier versions of PowerBuilder runtime files (system assemblies and win32 DLLs) on all deployment computers or servers, then install the runtime files for the current version of PowerBuilder using the Runtime Packager or another tool, as described in the "Checklist for deployment" section of the *Deploying Applications and Components to .NET* book.
- To migrate a PowerBuilder 12.0 or 12.1 solution, open its . PBWX file using the File menu.
 If you double-click or drag and drop the file into PowerBuilder .NET 12.5, the Visual
 Studio Conversion wizard opens, inappropriately. You can use the double-click and dragand-drop methods to open PowerBuilder 12.5 solutions.

Note: You can convert .NET Windows Forms targets to WPF targets in PowerBuilder .NET. Sybase suggests that you migrate older .NET Windows Forms targets to PowerBuilder Classic before you convert them to WPF targets.

You cannot directly convert .NET Assembly targets in PowerBuilder Classic to .NET Assembly targets in PowerBuilder .NET.

Migrating EAServer Targets

Migrating EAServer targets from earlier versions of PowerBuilder to PowerBuilder Classic may require some additional considerations. PowerBuilder .NET does not support EAServer targets.

Migrating components to EAServer 6.0.1 or later

Intercomponent calls from a PowerBuilder component running in EAServer 6.0.1 require proxies for all called components. In earlier versions of EAServer, a PowerBuilder component can sometimes call another PowerBuilder component running in the same server without the use of a proxy, because the PowerBuilder VM dynamically creates a proxy for the component using method names that match the names of the component's methods.

In EAServer 6.0.1 and later, PowerBuilder components are wrapped as EJBs, providing an extra layer of security and preventing the PowerBuilder VM from dynamically generating a proxy with names that match the component's method names. Therefore, you must create a proxy object for all components you invoke with intercomponent calls. Without a proxy object, the TransactionServer object cannot obtain the correct method names of the component you are calling.

Accessing EAServer components from .NET targets

PowerBuilder installs the EAServer DLLs, com.sybase.iiop.net.dll and com.sybase.ejb.net.dll, in the Global Assembly Cache (GAC) on the development computer, and requires these DLLs on runtime computers for applications that access EAServer components from .NET targets. You can use the Runtime Packager to place these DLLs in the GAC on deployment computers.

Note: The DLLs intalled by the PowerBuilder setup program have been tested, and are compatible with EAServer 6.3.1. However, if you use an EAServer version other than 6.3.1, it is best to copy the DLLs from the EAServer/Lib directory to the GAC of all computers where you deploy your applications. If you then run or rerun the Runtime Packager, you must also recopy these DLLs to the GAC, because the Runtime Packager overwrites them.

Creating an EJB Client Proxy for an EAServer 6.x Component

Building EJB client applications for EJBs running in EAServer 6.x requires additional steps when you create the EJB client proxy.

- 1. Copy the *packagename* directory from the %DJC_HOME%\deploy\ejbjars\ directory on the server to the client computer, where *packagename* is the package that contains the EJB you want to use.
- 2. In the Select EJB Component dialog box that you open from the EJB Client Proxy project painter, add this directory to the class path.
- **3.** Generate the proxy.

Creating a Client Application for an EAServer 6.x EJB Component

Building EJB client applications for EJBs running in EAServer 6.x requires additional steps when you create the client.

- 1. Copy the eas-server-15.jar file (or eas-server-16.jar if you are using JDK 1.6.x) from the %DJC_HOME%\lib directory to the client computer and include its full path in the client's CLASSPATH.
- **2.** Copy the stub files from %DJC_HOME%\genfiles\java\classes\ directory to the client computer and include this path in the client's CLASSPATH.
- **3.** Copy the *packagename* directory from the %DJC_HOME%\deploy\ejbjars\ directory on the server to the client computer, where *packagename* is the package that contains the EJB you want to use, and include this path in the client's CLASSPATH.

If you copied these files and directories to a directory on the client called EAServer6, and you want to use an EJB in a package named datamapping, the client CLASSPATH setting might look like this:

```
Classpath=D:\EAServer6\lib\eas-server-15.jar;D:
\EAServer6\genfiles\java\classes;D:\EAServer6\deploy\ejbjars
\datamapping
```

System Types as Variable Names in Proxies

In PowerBuilder versions 10.5 and later, system types cannot be used as variable names in Web service proxies.

If a PowerBuilder system type is used as a variable name, the Web Service Proxy wizard renames the variable by applying the prefix ws_. If you are migrating Web service applications from PowerBuilder 10.2 or earlier and regenerating the Web service proxies in PowerBuilder 10.5 or later, you may need to modify your code to reflect the change in variable names.

PowerBuilder system types include not only the objects and controls listed on the System tab page in the PowerBuilder Browser, but also the enumerated types listed on the Enumerated page in the Browser, such as band, button, encoding, location, and weekday. For example, if you build a Web service from a PowerBuilder custom class user object, and one of its functions has a string argument named *location*, in the proxy generated for that Web service, the argument is changed to *ws_location*.

OLE DB Performance with Microsoft SQL Server

In PowerBuilder 10.5.2 and later, when you use the OLE DB database interface with a Microsoft SQL Server database and retrieve data into a DataWindow, or use an embedded SQL cursor in a **SELECT** statement, server-side cursors help to support multiple command execution.

If this has a negative impact on performance, try increasing the size of the Block database parameter to 500 or more, or adding the following line to the [Microsoft SQL Server] section in the PBODB initialization file to turn off server-side cursors:

```
ServerCursor = 'NO'
```

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 for which the 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 earlier versions, 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

Migration Information

Visible property was set to false. In the current version, the user object's Visible property must be set to true for the tab page to appear.

ImportFile Size Limit

If your application uses the **ImportFile** method to import very large text files into a DataWindow or DataStore, **ImportFile** returns the error code -15.

PowerBuilder versions 10.0 and later are Unicode enabled. Earlier ANSI versions of PowerBuilder were able to import larger text files.

Note: The release bulletins for earlier versions listed the size limit for large files as approximately 839,000 lines. However, the size limit depends on the number of columns in the files, as well as the number of lines.

Obtaining Help and Additional Information

Use the Sybase Getting Started CD, Product Documentation site, and online help to learn more about this product release.

- The Getting Started CD (or download) contains release bulletins and installation guides in PDF format, and may contain other documents or updated information.
- Product Documentation at http://sybooks.sybase.com/ is an online version of Sybase documentation that you can access using a standard Web browser. You can browse documents online, or download them as PDFs. In addition to product documentation, the Web site also has links to EBFs/Maintenance, Technical Documents, Case Management, Solved Cases, Community Forums/Newsgroups, and other resources.
- 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.

Technical Support

Get support for Sybase products.

If your organization has purchased a support contract for this product, then one or more of your colleagues is designated as an authorized support contact. If you have any questions, or if you need assistance during the installation process, ask a designated person to contact Sybase Technical Support or the Sybase subsidiary in your area.

Downloading Sybase EBFs and Maintenance Reports

Get EBFs and maintenance reports from the Sybase Web site.

- 1. Point your Web browser to http://www.sybase.com/support.
- 2. From the menu bar or the slide-out menu, under **Support**, choose **EBFs/Maintenance**.
- **3.** If prompted, enter your MySybase user name and password.
- **4.** (Optional) Select a filter from the **Display** drop-down list, select a time frame, and click **Go**.
- 5. Select a product.

Padlock icons indicate that you do not have download authorization for certain EBF/ Maintenance releases because you are not registered as an authorized support contact. If

- you have not registered, but have valid information provided by your Sybase representative or through your support contract, click **My Account** to add the "Technical Support Contact" role to your MySybase profile.
- **6.** Click the **Info** icon to display the EBF/Maintenance report, or click the product description to download the software.

Sybase Product and Component Certifications

Certification reports verify Sybase product performance on a particular platform.

To find the latest information about certifications:

- For partner product certifications, go to http://www.sybase.com/detail_list?id=9784
- For platform certifications, go to http://certification.sybase.com/ucr/search.do

Creating a MySybase Profile

MySybase is a free service that allows you to create a personalized view of Sybase Web pages.

- 1. Go to http://www.sybase.com/mysybase.
- 2. Click Register Now.

Accessibility Features

Accessibility ensures access to electronic information for all users, including those with disabilities.

Documentation for Sybase products is available in an HTML version that is designed for accessibility.

Vision impaired users can navigate through the online document with an adaptive technology such as a screen reader, or view it with a screen enlarger.

Sybase HTML documentation has been tested for compliance with accessibility requirements of Section 508 of the U.S Rehabilitation Act. 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 may 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 the Sybase Accessibility site: http://www.sybase.com/products/accessibility. The site includes links to information about Section 508 and W3C standards.

You may find additional information about accessibility features in the product documentation.

Obtaining Help and Additional Information