# Release Bulletin
## PowerBuilder® Enterprise 11.0

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1. Accessing current release bulletin information

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

2. Product summary

Enclosed is Sybase PowerBuilder Enterprise version 11.0, which is compatible with the following platform and operating system configurations:

- Microsoft Windows XP with Service Pack 2
- Microsoft Windows XP Tablet PC Edition with Service Pack 2
- Microsoft Windows Server 2003 with Service Pack 1

Sybase will accept issues encountered while developing and deploying applications on the Microsoft Vista operating system and attempt to resolve them within 90 days of the PowerBuilder 11.0 GA release. PowerBuilder will continue to build and deliver 32-bit applications, but will support deployed applications in both 32-bit and 64-bit environments on the Vista operating system. Vista will be formally supported in the next PowerBuilder point release. For a list of issues that have been found on the Vista operating system, see “Vista issues” on page 19.

The Microsoft Windows 2000 operating system with Service Pack 4 will be supported for deployment in an EBF release.

2.1 JSP targets

PowerBuilder 11 is the last version of PowerBuilder Enterprise that will include JSP targets, which enable you to build Web pages using JavaServer Pages technology. Sybase Workspace is the recommended tool for building JavaServer Faces (JSF) and HTML applications that use JSP pages.
2.2 PowerBuilder Runtime Automation Server

PowerBuilder 11 is the last version of PowerBuilder Enterprise that will include the PowerBuilder Runtime Automation Server.

2.3 DataDirect database drivers

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

2.4 PBCrypto proxy library

The PBCrypto proxy library has been removed from PowerBuilder 11.0 and later releases. It will be made available on the Sybase CodeXchange Web site at https://powerbuilder.codexchange.sybase.com/.

3. Special installation instructions


If you installed a beta release of PowerBuilder 11.0, use the Windows control panel’s Add or Remove Programs dialog box to remove it and ensure that all beta versions of PowerBuilder 11.0 DLLs and .NET assemblies are removed from your system before you install PowerBuilder 11.0 GA.

4. Changed functionality in this version

New Features in PowerBuilder 11.0 describes features added in this version. You can view this book on the Sybase Product Manuals Web site at http://www.sybase.com/support/manuals/. Select PowerBuilder from the list of products and click Go, then select PowerBuilder 11.0 and select this title.

The New Features section of the PowerBuilder Help file also describes features added in this release. To view this Help, from the PowerBuilder menu, select Help> Welcome to PowerBuilder 11.0.
5. Known problems

5.1 .NET applications and components issues

5.1.1 Error CS0161 returned when deploying .NET target

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

5.1.2 Events and delegates in .NET assemblies

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

5.1.3 .NET static classes not supported in this release

.NET static classes will be supported in a maintenance release. In PowerBuilder 11.0, code like the following generates an error message because System.Environment is a static class:

```pascal
String s
s = "Version: 

#ifdef PBDOTNET then
    s = s + System.Environment.Version.ToString()
#endif
```

The following error message is generated: “C0312: An object reference is required for a nonstatic field, method, or property.” This message is misleading because it does not indicate that the static class is not supported. [CR 465919]

5.1.4 String functions with A suffix work incorrectly in a DBCS environment

String functions, such as FillA, LenA, MidA, and PosA return incorrect results in DBCS environments in both Windows Forms and Web Forms applications. [CR 467719]
5. Known problems

5.2 .NET Web Forms issues

5.2.1 State not refreshed in IE 7
In Internet Explorer 7, if you open the same application multiple times in a single IE session, the state and content of the first instance persist. This is because IE 7 has only one session, while Web Forms applications are session based. [CR 467206]

5.2.2 PowerBuilder DLL locked by IIS
The PowerBuilder PB SHR110.DLL system library is locked by IIS when you run a Web Forms application. This prevents you from uninstalling PowerBuilder when PowerBuilder and IIS are installed on the same computer. To avoid disrupting other applications using the IIS server, PowerBuilder does not automatically shut down and restart the server. Even if the Web Forms application is run from a browser on a remote computer, you must shut down the server manually before you can uninstall PowerBuilder on the IIS server. [CR 441626]

5.2.3 DtfLongDate! support for DatePicker
If Internet Explorer's language is de-DE and the value of PBCultureSource is set to Client in the web.config file, the DatePicker control does not support the DtfLongDate! enumerated value for the Format property. [CR 454532]

5.2.4 String function does not work correctly with culture de-DE
If Internet Explorer's language is de-DE and the value of PBCultureSource is set to Client in the web.config file, or if PBCultureSource is set to Server and the culture is set to de-DE in the web.config file, the String (data, “longdate”) function returns en-US format. [CR 454957]

5.2.5 Print in TreeView DataWindow does not reflect current status
After expanding or collapsing a TreeView DataWindow® in a Web Forms application, printing the DataWindow might not reflect the current status of the display. [CR 454704]
5.2.6 Right-click in TreeView DataWindow can cause “Error on page”
In a Web Forms application with a TreeView DataWindow and a secondary DataWindow, if you expand the tree view and double-click a row in the secondary DataWindow, you might see an “Error on page” in the browser window if you then right-click the TreeView DataWindow. [CR 452587]

5.2.7 Right-click causes focus change and opens drop-down lists
Right-clicking does not cause a change of focus for most types of controls in standard PowerBuilder applications. However, in Web Forms applications, right-clicking CheckBox, RadioButton, CommandButton, PictureButton, StaticHyperlink, StaticText, DatePicker, ListBox, or PictureListBox controls does cause the focus to switch to those controls. Also, right-clicking the DatePicker, DropDownListBox, and DropDownPictureListBox controls in Web Forms applications causes the focus to switch to the down arrow for those controls. [CR 464218]

5.2.8 Changing focus to some controls does not trigger modified event
When text is modified in a single-line edit control, clicking a check box, radio button, or drop-down list box does not trigger the edit control’s Modified event in a Web Forms application. [CR 461223]

5.2.9 Scroll bar missing in Retrieve dialog box
In a Web Forms application, the scroll bar in the Retrieve dialog box disappears when focus is set to an input field. [CR 450404]

5.2.10 Selecting columns increases memory use
Repeatedly selecting columns in a DataWindow increases the memory used by Internet Explorer. [CR 425813]

5.2.11 Cannot deploy to user-defined directory
If you specify a user-defined virtual directory such as “myapp” that is mapped to C:\myapp, the Web Forms application is deployed to a subdirectory of the IIS root directory. [CR 440758]
5.2.12 Problem triggering menu Clicked events in Web Forms applications

In Web Forms applications, users must click directly on a menu or menu item text in order to trigger the Clicked event. Clicking on empty space next to the menu or menu item name does not trigger the Clicked event. [CR 461334]

5.2.13 Numeric edit mask shows negative number

In a Web Forms application, if a user enters data into a numeric or decimal edit mask set on an EditMask control or a DataWindow column and the data exceeds the number of characters defined for the mask, the leading characters that do not fit in the mask are replaced with a minus sign. To avoid this issue, make sure that the mask has enough characters to support any data that might be entered.

In a DataWindow column, if the mask is set to #,##0.00, the field contains 2,345.00, and the user attempts to change it to 12,345.00, the data is changed to -1,345.00.

In an EditMask control with the same mask, if the user enters data manually, only the number of characters specified in the mask can be entered. However, if the data is specified using em_1.text = "23450.00", which has more characters than the mask, and the user attempts to add a 1 at the beginning, the data is changed to -1,450.00. [CR 468410]

5.2.14 Percentage sign in mask missing after a postback

In a Web Forms application, if you set a mask using a command like the following, the percentage sign (%) does not display after a postback:

em_1.setmask(decimalmask!, "##.00%"). [CR 468377]

5.2.15 RadioButton events triggered in wrong order

In a Web Forms application, when you click on a radio button, the Clicked event is triggered before the GetFocus event. [CR 468070]

5.2.16 RadioButton Clicked event not triggered automatically

If a radio button gets focus when the window it is on is opened, its Clicked event should be triggered automatically. This does not work in a Web Forms application. [CR 468073]
5.2.17 A single word in a static text control is divided into two parts

In a Web Forms application, when a static text control contains a single word, the word may be displayed as two separate strings. This is caused by the way the browser handles the control. [CR 466655]

5.2.18 File not found exception

After successfully deploying a Web Forms application, you might see an error such as the following when you try to run the application:

“System.IO.FileNotFoundException: The specified module could not be found”. This is typically because IIS cannot locate PowerBuilder runtime DLLs, such as pbdwm110.dll or pbshr110.dll, but it can also occur if the Microsoft Visual C++ runtime libraries msvcr71.dll and msvcp71.dll and the Microsoft .NET Active Template Library (ATL) module, atl71.dll, are not available on the server. To resolve this issue, make sure the DLLs are available on the server and that the directory where the DLLs are located is included in the system path on the server. [CR 469506]

5.3 .NET Windows Forms issues

5.3.1 Only TrueType fonts supported

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

5.3.2 Special characters cause smart client installation to fail

A smart client application fails to install on the client computer if there are special characters such as “&”, “%”, or “$” in the update or install location. However, the publish process is successful and the publish.htm page can be opened. The error message on the client is “Value does not fall within the expected range.” This issue also occurs in Microsoft’s ClickOnce deployment. To avoid this issue, ensure that you use only alphanumeric characters in names and paths. [CR 464418]

5.3.3 Slow performance in Windows Forms debugger

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

5.3.4 OLE control properties not available in .NET

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

5.3.5 Width of tabs in Tab controls

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

5.3.6 Using InkEdit and InkPicture controls


5.3.7 Child window size not restored

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

5.3.8 Publishing a smart client application to FTP site

If you change the port number of the FTP site from the default (21) when you publish a smart client application to an FTP site, the publish operation fails with the error: “Cannot connect to remote server.” [CR 468365]

5.3.9 Pbm_move event invoked before constructor

In a Windows Forms application, a pbm_move event on a DataWindow control is invoked before the DataWindow control’s constructor event. [CR 467392]
5.3.10 OverridePrintJob setting does not affect PrintDataWindow

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

5.3.11 Updating a smart client application fails if the product name is changed

If you change the product name of a smart client application and republish to the same publish and install/update site, client updates fail because the application is not recognized as the existing application. [CR 468853]

5.4 .NET Assembly and .NET Web service issues

5.4.1 Full build performed

If you select a single nonvisualobject to deploy as a .NET assembly, the full library list of the target is rebuilt before the component is deployed. [CR 447696]

5.4.2 NVO from PFC cannot be deployed as .NET Web service or assembly

If you create a new .NET Web service or assembly using the of_isregistryavailable function of the n_exampleappmanager PFC object in appexmfe.pbl, an unhandled exception message box displays when you attempt to deploy the project. PowerBuilder crashes when you click OK in the message box. [CR 466883]

5.4.3 NVO .NET Web service does not support exceptions

You cannot throw a user-defined exception in a .NET NVO Web service. Web services throw only Soap exceptions. [CR 454093]

5.4.4 Changing virtual directory or IIS address requires additional changes

If you deploy a .NET Web service project successfully, then change the Web service virtual directory or IIS address and redeploy, the service page fails to launch. You must change the arguments on the Run page in the painter before redeploying. [CR 439873]
5. Known problems

5.5 Database connectivity issues

5.5.1 ASE ADO.NET provider 1.1.548.0 throws exception

If you execute a query that returns multiple rowsets, the Adaptive Server® Enterprise (ASE) ADO.NET provider version 1.1.548.0 throws an exception when calling the AseDataReader::GetSchemaTable method for the second rowset. The exception is “System.ArgumentException: This row already belongs to another table.” This exception is not thrown if you use version 1.1.475.0. [CR 453942]

5.5.2 Value of bit column displays as -1 with SNC interface

To communicate with SQL Server, the SNC interface uses the Microsoft OLE DB API, which returns VARIANT_BOOL for a bit datatype. If the value of the StaticBind DBParm is 1, the SNC interface does not describe the columns and does not do any data conversion. As a result, a bit column with the value 1 displays as -1 in a DataWindow. To work around this issue, set the StaticBind DBParm to 0, which enables the SNC interface to convert the datatype correctly. [CR 463142]

5.5.3 Pipeline execution with JDBC driver fails

Executing a pipeline with the destination ASE 12.5 when using the JDBC driver fails with the database error 2762. [CR 338371]

5.5.4 Informix interface does not work with UTF-8

The IN9 Informix database interface cannot update and retrieve data when the Informix server uses the UTF-8 character set. The interface works correctly with ANSI and DBCS. [CR 349535]

5.5.5 Alter table limitations with OLE DB and Microsoft SQL Server

When you connect using OLE DB and change the name or width of a column in a Microsoft SQL Server 2000 database using Alter Table in the Database painter, the column is moved to the end of the table and all its data is lost. To prevent this from occurring, PowerBuilder does not allow you to alter a table's column name and column size. You can alter the table outside the painter using ISQL scripts or at runtime using PowerScript® functions. [CR 348581]
5.5.6 Oracle stored procedures with output parameters

An Oracle stored procedure with output parameters produces an ORA-01036 error at runtime if you connect using ODBC, OLE DB, JDBC, or ADO.NET. The stored procedure runs correctly using the Oracle native driver. [CR 343297]

5.5.7 Connection issues with CnnPool

In the Database painter, attempting to connect to an Oracle9i or Oracle 10g database from an Oracle9i client fails after a connect and disconnect if the CnnPool database parameter is set to ‘Yes’. The Oracle9i client software does not support connection pooling with PowerBuilder 10.0 or later. [CR 355639]

5.5.8 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 ASE, PowerBuilder crashes if the encoding of the blob is ANSI or UTF-8 and it contains fewer than 10 characters. [CR 353231]

5.5.9 RPC calls with non-Unicode ASE database

PowerBuilder can access Unicode data in Unichar and Univarchar columns in ASE databases that do not use a Unicode character set. You must set the UTF8 database parameter to 1 and configure the server to support both ASE direct conversions and Unicode conversions.

To configure the server, the database administrator must run the following command:

```
sp_configure, "enable Unicode conversion", 1
```

Declare procedure calls work correctly with this configuration, but RPC calls that use these columns are not currently supported. [CR 378850]

5.5.10 ASE version 15 with ODBC driver

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

5.6 DataWindow issues

5.6.1 Retrieve in Web Service DataWindow requires connection

The first time you use PowerBuilder there is no default database connection. When you create a Web Service DataWindow, you must select a database profile before the DataWindow is created even though the Web Service DataWindow does not use the profile. This also occurs with DataWindows that use an external data source. [CR 439122]

5.6.2 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]

5.6.3 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]

5.6.4 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 gedit.msc and click OK.
5.6.5 Calling GetItemNumber on DataStore with no rows

In Windows Forms, Web Forms, and standard applications, GetItemNumber throws a RuntimeError instead of a DWRuntimeError when called on a DataStore with no rows. [CR 452682]

5.7 Debugger issues

5.7.1 Menu instance variables not supported in .NET debugger

Menu instance structure variables are not supported in the .NET debugger. [CR 467433]

5.7.2 TipWatch on PowerBuilder extension variable causes crash

If you declare a variable of a type defined in a PowerBuilder extension, such as SOAPConnection, and place the cursor over this variable to check its TipWatch value while debugging, PowerBuilder crashes. [CR 435759]

5.8 Decimal datatype support issues

5.8.1 Compiler error when maximum value assigned

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

5.8.2 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]

5.9 EAServer issues

EAServer release bulletin
For additional EAServer issues, please refer to the release bulletin for the version of EAServer that you are using on the Sybase Product Manuals Web site at http://www.sybase.com/support/manuals/.

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5. Known problems

For migration issues related to EAServer, see “Migrating EAServer targets” on page 31.

5.9.1 Connection to SQL Anywhere JDBC connection cache fails

Connecting to a SQL Anywhere® 10.0 JDBC connection cache in EAServer 6.0.x throws a runtime exception. This is caused by a difference between Adaptive Server® Anywhere (ASA) 9.x and SQL Anywhere 10.0.

To prepare a SQL Anywhere database for use with jConnect™ for JDBC™, you need to install additional tables and stored procedures by executing a SQL script. The sql_asa.sql file installed with EAServer 6.0.x in the extras\jconnect-6.0\sp directory is intended for use with ASA 9.x and references a property, File Version, that is not supported in SQL Anywhere 10.x.


5.10 Installation issues

5.10.1 License file validation fails for DBCS characters

If the company name in a SySAM license file contains non-English characters, license validation fails with the error “Cannot find valid license.” This issue has been fixed in PowerBuilder 11.1. To resolve this issue for PowerBuilder 11.0, you can download a patch from the Sybase Web site:

1. Create a temporary directory on your computer.

2. Extract the contents of the PowerBuilder 11.0 DVD image that you downloaded from SPDC into this directory; or copy the contents of the PowerBuilder 11.0 DVD into this directory.

4. Extract the contents of the zip file into the temporary directory, overwriting existing files with the same file name.

5. Read the instructions in the PB110install.txt file.

6. Run autorun.exe from the temporary directory and follow the instructions in the Installation Guide.

A patch for InfoMaker® 11.0 is available on the Sybase downloads site at http://download.sybase.com/pub/im110patch/CR475115_IM.zip. [CR 475115]

5.11 JSP issues

5.11.1 Column link problems with non-English characters

In a Web DataWindow DTC, if a column link property is set on a string column that contains Unicode data (non-English characters) and the value of this column is passed as a parameter to a target page, the target page does not display the Unicode data in the parameter value correctly. The data is displayed as garbage characters. This is caused by a defect in Internet Explorer. [CR 359511]

5.12 Menu and toolbar issues

5.12.1 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]

5.12.2 RightToLeft property not supported

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

5.12.3 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]

5.13 PowerDesigner plug-in issues

5.13.1 OLE controls are not supported

Code for OLE controls is not generated when you reverse-engineer a PowerBuilder target to an OOM. [CR 359805]

5.13.2 Case sensitivity in external function names

When you reverse-engineer and then regenerate a PowerBuilder application, an external function with a case-sensitive name such as GetCurrentDirectoryW fails. The workaround is to specify an alias for the function, for example:

```java
public function ulong GetCurrentDirectoryW (ulong textlen, ref string dirtext) library "KERNEL32.dll"
alias for "GetCurrentDirectoryW"
```

[CR 358442]
5.14 Rich text control issues

5.14.1 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]

5.14.2 UTF-8 encoding in rich text control
If you insert an HTML file with UTF-8 encoding in a rich text control, the file does not display correctly unless the character set is indicated. In a future release, the encoding will be determined from the byte order mark of the HTML file, and it will not be necessary to indicate the character set. [CR 415495]

5.15 SCC issues

5.15.1 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]

5.16 Vista issues

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

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

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

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

Registry reflection on 64-bit Windows

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

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

1. Create the following registry key.

   On 32-bit Windows:
   
   HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\WinHelp

   On 64-bit Windows:
   
   HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432node\Microsoft\WinHelp

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

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

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

On 32-bit Windows:

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

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On 64-bit Windows:

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

Microsoft prohibits the distribution of WinHelp32.exe with deployed applications. If your application uses .hlp files, you should provide your users with instructions on how to download WinHelp32.exe. For more information, see the Microsoft support site at http://support.microsoft.com/kb/917607. [CR 477251]

### 5.16.3 Saving as PDF on Vista fails

The correct versions of Microsoft PostScript printer driver files must be available in the drivers directory when a file is saved as PDF using the Distill method. The Microsoft PostScript printer driver files, PSCRIPT5.DLL, 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. Typical locations are C:\WINDOWS\System32\spool\drivers\w32x86 on Windows XP, C:\Windows\System32\DriverStore\FileRepository\ntprint.inf_xxxxxxxx\ where xxxxxxxx is a system-specific identifier, in the I386 subdirectory on 32-bit Vista and the Amd64 subdirectory on 64-bit Vista. You must use the version of these files that is appropriate to the system where the PDF file is created. Copy the files to the Shared\PowerBuilder\drivers directory. [CR 445530]

### 5.16.4 JSP targets

On the Vista operating system, you can create a JSP target and a JSP page, but the component used to implement the HTML Editor’s Page view and its built-in Script editor is not supported on the Vista operating system, therefore JSP targets are not supported on Vista.

### 5.16.5 Controls that use calendars

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

- DatePicker: CalendarBackColor, CalendarFontName, CalendarFontWeight, CalendarItalic, CalendarTextColor, CalendarTextSize, CalendarTitleBackColor, CalendarTitleTextColor, CalendarTrailingTextColor, CalendarUnderLine
- EditMask: CalendarBackColor, CalendarTextColor, CalendarTitleBackColor, CalendarTitleTextColor, CalendarTrailingTextColor
- MonthCalendar: FaceName, MonthBackColor, TextColor, TextSize, TitleBackColor, TitleTextColor, TrailsColor, Underline
- Column controls in DataWindow objects with a drop-down calendar EditMask style: DDCalBackColor, DDCalTextColor, DDCal_TitleBackColor, DDCal_TitleTextColor, DDCal_TrailingBackColor

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

5.16.6 Using Web Forms targets on 64-bit systems

If you create a new Web Forms target on a Vista 64-bit system, when you launch the deployed target in Internet Explorer, you might receive an error that the application cannot be loaded. To resolve this issue, start 32-bit ASP.NET on the server using the following command line. You must run this command as Administrator:

```cmd
Cscript C:\inetpub\adminscripts\adsutil.vbs SET W3SVC/AppPools/Enable32bitAppOnWin64 1
```

5.16.7 Web Forms deployment fails if IIS compatibility component not installed

Deploying a Web Forms target to a server running Vista and IIS 7 fails if the Vista Metabase Compatibility component of IIS 7 is not installed. This component is not installed by default. You can install it from Internet Information Services>Web Management Tools>IIS 6 Management Capability Feature. [CR 445617]
5.16.8 TreeView controls do not expand with high screen resolution

TreeView controls cannot be expanded in a deployed Web Forms target if the screen resolution is set to a value such as 1280x1024. [CR 472907]

5.16.9 DataWindow title bar issues with Vista

In standard PowerBuilder and Windows Forms applications, clicking the Control Menu, Maximize, or Minimize buttons on the title bar of a DataWindow control changes the display characteristics and position on Vista. [CR 472402]

5.16.10 mailGetMessages function fails on Vista

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

5.16.11 PrintSetupPrinter function fails on 64-bit Vista

The PrintSetupPrinter function does not display the printer setup dialog box on the 64-bit version of the Vista operating system. This is caused by a known Microsoft issue. You can display a printer properties dialog box using the following command line, where printer name is the name of the printer and must be enclosed in quotation marks. You must run the command from the \Windows\SysWoW64 directory:

    rundll32 printui.dll,PrintUIEntry /n "printer name" /p

For a complete list of command-line options, use the following command:

    rundll32 printui.dll,PrintUIEntry /?

[CR 477598]

5.17 Web services issues

5.17.1 Using a trace tool with .NET Web services

Although you can still use the built-in SOAP logging option with EasySoap Web services, PowerBuilder does not provide the same option with .NET Web services. Instead, you can use a third-party tool to trace .NET proxy calls for debugging purposes. There are two kinds of trace tools you can use:
5. Known problems

- **TCP trace (tunnel) tool**  This type of tool listens to a specified hostname and port, and transfers all incoming calls to a specified endpoint. An example of this type of tool is TCPTrace, available from the PocketSoap Web site at http://www.pocketsoap.com.

  To use this type of tool, you must set the endpoint explicitly in the CreateInstance function. For example, if the original endpoint is http://www.xxx.com/testWebService and the trace tool has been set to listen to localhost:6060, then you can code something like the following to enable tracing:

  ```
  Conn.CreateInstance(proxy_obj, "syb_NETproxy", "http://localhost:6060/testWebService")
  ```

- **Proxy trace tool**  This type of tool works as a proxy server. In PowerBuilder, you can set the proxy server using SetProxyServer or SetProxyServerOptions. An example of this type of tool is ProxyTrace, available from the PocketSoap Web site at http://www.pocketsoap.com.

5.17.2 Array members with null values

If a Web service returns an embedded array and a null value is returned for the embedded array, PowerBuilder throws an exception whether you use an Any variable or an array variable to hold the return value. When you use a Web service that returns an embedded array, you should test whether that value is null using the IsNull method before deciding how to proceed. [CR 468542]

5.17.3 Structures with array members

Calling a PowerBuilder custom class user object Web service that passes or returns a structure of arrays can fail. [CR 407611]

5.17.4 SOAP header cannot be modified in an EasySoap Web service

User authentication security in an EasySoap Web service cannot be implemented because this security must be included in the <soap:Header> section, which cannot be modified in PowerBuilder. [CR 351464, CR 356856]

5.17.5 Web services client raises exception with machine code

If a Web services client application is built as a machine-code executable, and a Web service proxy function has an array of longlong and double datatypes as an argument, calling this function raises an exception. A Pcode executable works correctly. [CR 360444]
5.17.6 **EasySoap Web services do not support some built-in datatypes**

PowerBuilder EasySoap Web services do not support the `anyType` and `ur-type` XML Schema built-in datatypes. [CR 341513]

5.18 **Other issues**

5.18.1 **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]

5.18.2 **PBNI objects not found at runtime**

A call to the `PBDOM_OBJECT.GetContent` function works correctly in the development environment but fails at runtime with the error, “Error calling method of a PBNI object.” This occurs because the object cannot be found. The workaround is to reference all PBDOM and PBNI objects in PowerScript code so that they are included in the executable file. [CR 343299]

5.18.3 **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]

5.18.4 **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. Known problems

5.18.5 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:

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

[CR 361568]

5.18.6 ActiveX control compiled in Visual C++ causes crash

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

5.18.7 Web ActiveX download fails on Windows XP

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

5.18.8 Some PSR files must be regenerated

PSR files created in builds of PowerBuilder 10.0 or 10.0.1 prior to EBF build 6044 cannot be opened in PowerBuilder or InfoMaker 11.0. You must regenerate the PSR file in a later build. [CR 386984]

5.18.9 Legend values do not change when changing graph type

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

6.1 Application Servers

PowerBuilder 11.0 has been tested with EAServer 5.5 with EBF 13993 and EAServer 6.0.1 with EBF 14587.


6.2 SQL Anywhere

PowerBuilder 11.0 has been tested with SQL Anywhere® 10.0 and the SQL Anywhere 10.0 Runtime Edition.

6.3 PowerDesigner

PowerBuilder 11.0 has been tested with PowerDesigner® 12.1.

6.4 Microsoft .NET Framework

PowerBuilder 11.0 is compatible with the Microsoft .NET Framework 2.0.

6.5 Java

PowerBuilder 11.0 is compatible with JDK 1.5.

6.6 Apache Tomcat

PowerBuilder 11.0 JSP targets have been tested with Apache Tomcat 4.1.30.

6.7 Ghostscript

The DataWindow Save as PDF feature has been tested with AFPL Ghostscript version 8.53.
7. Third-party components and deployment

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

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

7.1 Apache files

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

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

The Apache Xerces files xerces-c_2_6.dll and xerces-depdom_2_6.dll are required for XML Web DataWindow support, XML support for DataWindows and DataStores, PBDOM, and SOAP clients for Web services. 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 C/C++ 7.1 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, including PowerBuilder .NET Web Forms applications, but Microsoft does not allow them to be redistributed with the Runtime Packager.
The Microsoft DLLs may already be installed on the server or the user’s computer. *atl71.dll* is installed with some operating systems but is not installed with Windows Server 2003. For more information about obtaining *atl71.dll*, see the Microsoft Web site at [http://support.microsoft.com/kb/915564](http://support.microsoft.com/kb/915564).

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

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


PowerBuilder .NET Web Forms use Internet Explorer Web Controls to display correctly and to provide functionality for the Tab, TreeView, and Toolbar controls. You can download IE Web Controls from the Microsoft Web site at [http://www.asp.net/IEWebControls/Download.aspx](http://www.asp.net/IEWebControls/Download.aspx). For detailed information about installing the controls, see *Deploying Applications and Components to .NET*.

### 7.3 Sun Microsystems files

The Java Runtime Environment (JRE) is required for JSP targets, EJB clients, JDBC connections, and 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](http://java.sun.com/javase/downloads/index.jsp).
7.4 Software used for SOAP clients for Web services

PowerBuilder includes the EasySoap++ library in executable form in EasySoap110.dll, which is dynamically linked to PBSoapClient110.pbx. 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. Please read the LGPL prior to any such distribution.

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 PBSoapClient110.pbx are provided 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 EasySoap110.dll. You can also relink PBSoapClient110.pbx with the modified EasySoap++ import library. According to the terms of the LGPL, it is understood that you will not necessarily be able to recompile PBSoapClient110.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 PBSoapClient110.pbx.

8. Documentation updates and clarifications

8.1 Files required for smart client deployment

The section on creating a Windows Forms target in Deploying Applications and Components to .NET incorrectly states that the System.Windows.Forms.dll and System.Deployment.dll assemblies must be added to all Windows Forms targets. They are required only if your application uses them. They are always required by smart client applications that use data files.
8.2 IE Web controls installation

The Installation Guide incorrectly states that IE Web controls are installed if you select the .NET Web Forms feature when you install PowerBuilder. You must download and install IE Web controls manually. For more information, see the first chapter in Deploying Applications and Components to .NET.

8.3 PostScript print driver setup

The section on installing PostScript printer drivers in the Installation Guide lists the HP Color LaserJet PS and the HP LaserJet 4/4M Plus PS 600 as examples. However, the HP Color LaserJet PS does not display images in PDF output and the HP LaserJet 4/4M Plus PS 600 displays color images using greyscale. The ADIST5 printer driver installed in the Sybase\Shared\PowerBuilder\drivers directory and the HP LaserJet Series 4050 PS printer display images in the PDF output correctly.

9. Migration information

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

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

9.1 Migrating EAServer targets

In PowerBuilder 11, the EAServer Component target wizard creates a specialized EAServer target instead of an Application target. After you migrate an existing EAServer target to PowerBuilder 11, you cannot start the remote debugger to debug the target unless you open the Project painter and select the Debug menu or toolbar item, or select Debug from the project’s pop-up menu in the System Tree. To ensure that your target behaves correctly, you should use the EAServer Component target wizard to create a new EAServer target, select “Use an existing library and EAServer component project” in the wizard, and select your migrated library and component.
9. Migration information

9.2 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. With earlier versions of EAServer, a PowerBuilder component is sometimes able to call another PowerBuilder component running in the same server without the use of a proxy, because the PowerBuilder VM creates a proxy for the component dynamically 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 generating a proxy with names that match the component's method names dynamically. 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.

9.3 Creating an EJB client application for EAServer 6.x

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

❖ To generate a proxy for an EJB deployed to EAServer 6.x:

1. Copy the \packagename\ directory from the %DJC_HOME%\deploy\ejb\ directory on the server to the client computer, where packagename is the package that contains the EJB you want to use.

2. Add this directory to the Classpath on the Select EJB Component dialog box in the EJB Proxy Project painter.

3. Generate the proxy.

❖ To create an EJB client application for an EJB deployed to EAServer 6.x:

1. Copy the eas-server-14.jar file (or eas-server-15.jar if you are using JDK 1.5.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 `%DIC_HOME%\deploy\ejbjar\` 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 the datamapping package, the client classpath setting might look like this:

```
Classpath=D:\EAServer6\lib\eas-server-14.jar;D:\EAServer6\genfiles\java\classes;D:\EAServer6\deploy\ejbjar\datamapping
```

### 9.4 PowerBuilder system types as variable names in proxies

In PowerBuilder 10.5 and later versions, 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, your code may need to be modified 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 string `ws_location`.

### 9.5 Toolbar changes in PowerBuilder 10.5

In PowerBuilder 10.5 and later, you can 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.

9.6 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.

9.7 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 are used 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'
```

10. Technical support

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

Use the Sybase Getting Started CD, the SyBooks CD, and the Sybase Product Manuals Web site to learn more about your product:

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

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

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

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

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

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

11.1 Sybase certifications on the Web

Technical documentation at the Sybase Web site is updated frequently.

❖ Finding the latest information on product certifications

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

2 Click Certification Report.

3 In the Certification Report filter select a product, platform, and timeframe and then click Go.

4 Click a Certification Report title to display the report.
Finding the latest information on component certifications

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.

2. Click MySybase and create a MySybase profile.

11.2 Sybase EBFs and software maintenance

Finding the latest information on EBFs and software maintenance

2. Select EBFs/Maintenance. If prompted, enter your MySybase user name and password.
3. Select a product.
4. Specify a time frame and click Go. A list of EBF/Maintenance releases is displayed.
   Padlock icons indicate that you do not have download authorization for certain EBF/Maintenance releases because you are not registered as a Technical Support Contact. If you have not registered, but have valid information provided by your Sybase representative or through your support contract, click Edit Roles to add the “Technical Support Contact” role to your MySybase profile.
5. Click the Info icon to display the EBF/Maintenance report, or click the product description to download the software.
12. Accessibility features

This document is available in an HTML version that is specialized for accessibility. You can navigate the HTML with an adaptive technology such as a screen reader, or view it with a screen enlarger.

PowerBuilder 11.0 and the HTML documentation have been tested for compliance with U.S. government Section 508 Accessibility requirements. Documents that comply with Section 508 generally also meet non-U.S. accessibility guidelines, such as the World Wide Web Consortium (W3C) guidelines for Web sites.

**Note**  You might need to configure your accessibility tool for optimal use. Some screen readers pronounce text based on its case; for example, they pronounce ALL UPPERCASE TEXT as initials, and MixedCase Text as words. You might find it helpful to configure your tool to announce syntax conventions. Consult the documentation for your tool.

For information about how Sybase supports accessibility, see Sybase Accessibility at [http://www.sybase.com/accessibility](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*.
