

Release Bulletin PowerBuilder® Enterprise 10.5

Document ID: DC33822-01-1050-03

Last revised: September 12, 2006

Topic	Page
1. Accessing current release bulletin information	2
2. Product summary	3
2.1 ASP Web site targets	3
2.2 Software used for SOAP clients for Web services	3
3. Special installation instructions	4
4. Changed functionality in this version	4
5. Known problems	4
5.1 Database connectivity issues	4
5.2 DataWindow issues	7
5.3 Decimal and longlong datatype support issues	10
5.4 EAServer issues	10
5.5 EJB client issues	12
5.6 Installation issues	12
5.7 JSP issues	12
5.8 Menu and toolbar issues	13
5.9 PowerDesigner plug-in issues	15
5.10 Rich text control issues	15
5.11 SCC issues	16
5.12 Web services issues	17
5.13 Other issues	19

Copyright 1991-2006 by Sybase, Inc. All rights reserved. Sybase, SYBASE (logo), ADA Workbench, Adaptable Windowing Environment, Adaptive Component Architecture, Adaptive Server, Adaptive Server Anywhere, Adaptive Server Enterprise, Adaptive Server Enterprise Monitor, Adaptive Server Enterprise Replication, Adaptive Server Everywhere, Advantage Database Server, Afaria, Answers Anywhere, Applied Meta, Applied Metacomputing, App-Modeler, APT Workbench, APT-Build, APT-Edit, APT-Execute, APT-Translator, ASEP, Avaki, Avaki (Arrow Design), Avaki Data Grid, AvantGo, Backup Server, BayCam, Beyond Connected, Bit-Wise, BizTracker, Certified PowerBuilder Developer, Certified SYBASE Professional, Certified SYBASE Professional Logo, ClearConnect, Client-Library, Client Services, CodeBank, Column Design, ComponentPack, Connection Manager, Convo/DM, Copernicus, CSP, Data Pipeline, Data Workbench, DataArchitect, Database Analyzer, DataExpress, DataServer, DataWindow, DataWindow .NET, DB-Library, dbQueue, Dejima, Dejima Direct, Developers Workbench, DirectConnect Anywhere, DirectConnect, Distribution Director, Dynamic Mobility Model, e-ADK, E-Anywhere, e-Biz Integrator, E-Whatever, EC Gateway, ECMAP, ECRTP, eFulfillment Accelerator, EII Plus, Electronic Case Management, Embedded SQL, EMS, Enterprise Application Studio, Enterprise Client/Server, Enterprise Connect, Enterprise Data Studio, Enterprise Manager, Enterprise Portal (logo), Enterprise SQL Server Manager, Enterprise Work Architecture, Enterprise Work Designer, Enterprise Work Modeler, eProcurement Accelerator, eremote, Everything Works Better When Everything Works Together, EWA, ExtendedAssist, Extended Systems, ExtendedView, Financial Fusion, Financial Fusion (and design), Financial Fusion Server, Formula One, Fusion Powered e-Finance, Fusion Powered Financial Desinations, Fusion Powered STP, Gateway Manager, GeoPoint, GlobalFX, iAnywhere, iAnywhere Solutions, ImpactNow, Industry Warehouse Studio, InfoMaker, Information Anywhere, Information Everywhere, InformationConnect, InstaHelp, Intelligent Self-Care, InternetBuilder, iremote, iScript, Jaguar CTS, iConnect for JDBC, KnowledgeBase, Legion, Logical Memory Manager, iLite, M2M Anywhere, Mach Desktop, Mail Anywhere Studio, Mainframe Connect, Maintenance Express, Manage Anywhere Studio, MAP, M-Business Anywhere, M-Business Channel, M-Business Network, M-Business Suite, MDI Access Server, MDI Database Gateway, media.splash, Message Anywhere Server, MetaWorks, MethodSet, mFolio, Mirror Activator, ML Query, MobiCATS, Mobile, MySupport, Net-Gateway, Net-Library, New Era of Networks, Next Generation Learning, Next Generation Learning Studio, O DEVICE, OASIS, OASIS logo, ObjectConnect, ObjectCycle, OmniConnect, OmniQ, OmniSQL Access Module, OmniSQL Toolkit, OneBridge, Open Biz, Open Business Interchange, Open Client, Open ClientConnect, Open Client/Server, Open Client/Server Interfaces, Open Gateway, Open Server, Open ServerConnect, Open Solutions, Optima++, Partnerships that Work, PB-Gen, PC APT Execute, PC DB-Net, PC Net Library, Pharma Anywhere, PhysicalArchitect, Pocket PowerBuilder, PocketBuilder, Power++, Power Through Knowledge, power.stop, PowerAMC, PowerBuilder, PowerBuilder Foundation Class Library, PowerDesigner, PowerDimensions, PowerDynamo, Powering the New Economy, PowerScript, PowerSite, PowerSocket, Powersoft, PowerStage, PowerStudio, PowerTips, Powersoft Portfolio, Powersoft Professional, PowerWare Desktop, PowerWare Enterprise, ProcessAnalyst, Pylon, Pylon Anywhere, Pylon Application Server, Pylon Conduit, Pylon PIM Server, Pylon Pro, QAnywhere, Rapport, Relational Beans, RemoteWare, RepConnector, Report Workbench, Report-Execute, Replication Agent, Replication Driver, Replication Server, Replication Server Manager, Replication Toolkit, Resource Manager, RFID Anywhere, RW-Display-Lib, RW-Library, SAFE, SAFE-PRO, Sales Anywhere, Search Anywhere, SDF, Search Anywhere, Secure SQL Server, Secure SQL Toolkit, Security Guardian, ShareLink, ShareSPool, SKILLS, smart.partners, smart.parts, smart.script, SOA Anywhere, Trademark, SQL Advantage, SQL Anywhere, SQL Anywhere Studio, SQL Code Checker, SQL Debug, SQL Edit, SQL Edit/TPU, SQL Everywhere, SQL Modeler, SQL Remote, SQL Server, SQL Server Manager, SQL SMART, SQL Toolkit, SQL Server/CFT, SQL Server/DBM, SQL Server SNMP SubAgent, SQL Station, SQLI, Stage III Engineering, Startup.Com, STEP, SupportNow, S.W.I.F.T. Message Format Libraries, Sybase Central, Sybase Client/Server Interfaces, Sybase Development Framework, Sybase Financial Server, Sybase Gateways, Sybase Learning Connection, Sybase MPP, Sybase SQL Desktop, Sybase SQL Lifecycle, Sybase SQL Workgroup, Sybase Synergy Program, Sybase Virtual Server Architecture, Sybase User Workbench, SybaseWare, Syber Financial, SyberAssist, SybFlex, SybMD, SyBooks, System 10, System 11, System XI (logo), SystemTools, Tabular Data Stream, The Enterprise Client/Server Company, The Extensible Software Platform, The Future Is Wide Open, The Learning Connection, The Model For Client/Server Solutions, The Online Information Center, The Power of One, TotalFX, TradeForce, Transact-SQL, Translation Toolkit, Turning Imagination Into Reality, UltraLite, UltraLite.NET, UNIBOM, Unilib, Uninull, Unisep, Unistring, URK Runtime Kit for UniCode, Viafone, Viewer, VisualWriter, VQL, WarehouseArchitect, Warehouse Control Center, Warehouse Studio, Warehouse WORKS, Watcom, Watcom SQL, Watcom SQL Server, Web Deployment Kit, Web.PB, Web.SQL, WebSights, WebViewer, WorkGroup SQL Server, XA-Library, XA-Server, XcelleNet, XP Server, XTNDAccess and XTNDConnect are trademarks of Sybase, Inc. or its subsidiaries. 07/06

Topic	Page
6. Product compatibilities	22
6.1 EAServer	22
6.2 Adaptive Server Anywhere	22
6.3 PowerDesigner	22
6.4 Enterprise Portal	22
6.5 Java	22
6.6 Apache Tomcat	23
6.7 Application Servers	23
6.8 Ghostscript	23
7. Documentation updates and clarifications	23
7.1 Authentication methods for SOAPConnection class	23
7.2 PBNI Application Wizard	32
7.3 InsertPicture enhancement for RichTextEdit	32
7.4 New RecheckRows database parameter	32
7.5 BindSPInput database parameter applies to Oracle 10g	33
7.6 List of DataDirect ODBC files incorrect	33
7.7 Rich text deployment issue	34
7.8 Microsoft update affects DataWindow Web ActiveX	34
8. Migration information	36
8.1 Toolbar changes in PowerBuilder 10.5	36
8.2 Icon changes in PowerBuilder 10.5	36
8.3 Change in Date function behavior	37
9. Technical support	37
10. Other sources of information	37
10.1 Sybase certifications on the Web	38
10.2 Sybase EBFs and software maintenance	39
11. Accessibility features	39

1. Accessing current release bulletin information

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

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

- 1 Go to Product Manuals at <http://www.sybase.com/support/manuals/>.
- 2 Select PowerBuilder from the list of products and click Go.

- 3 Select PowerBuilder 10.5.
- 4 Select the Release Bulletin for PowerBuilder Enterprise.

2. Product summary

Enclosed is Sybase PowerBuilder® Enterprise version 10.5, which is compatible with the following platform and operating system configurations:

- Microsoft Windows 2000 with Service Pack 4
- Microsoft Windows XP with Service Pack 2
- Microsoft Windows XP Tablet PC Edition with Service Pack 2
- Microsoft Windows Server 2003 with Service Pack 1

2.1 ASP Web site targets

PowerBuilder 10.5 is the last version of PowerBuilder Enterprise that will include ASP Web site targets, which enable you to build ASP pages and deploy them to a file system or FTP server. ASP Web site targets will be superseded in version 11 by an alternative technology. JSP targets will continue to be available in PowerBuilder version 11.

2.2 Software used for SOAP clients for Web services

This product includes the EasySoap++ library in executable form in *EasySoap105.dll*, which is dynamically linked to *PBSoapClient105.pbx*. The EasySoap++ library and its use are covered by the GNU Lesser General Public License (LGPL). For a copy of this license, see *Gnu--LGPL.txt* in the *Support* folder on Disk 1.

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 CD. In addition, the object code and Microsoft Visual C++ project file for the *PBSoapClient105.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 *EasySoap105.dll*. You can also relink *PBSoapClient105.pbx* with the modified EasySoap++ import library. According to the terms of the LPGL, it is understood that you will not necessarily be able to recompile *PBSoapClient105.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 *PBSoapClient105.pbx*.

3. Special installation instructions

The *Installation Guide* on the Getting Started CD and the Sybase Product Manuals Web site at <http://www.sybase.com/support/manuals/> describes how to install the software.

4. Changed functionality in this version

New Features in PowerBuilder 10.5 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 10.5 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 10.5.

5. Known problems

5.1 Database connectivity issues

5.1.1 Window is a reserved word in ASA

In ASA 9, the word “window” is a reserved word. As a result, SELECT statements on a column with the name window do not work correctly. There are several ways to work around this issue:

- Set the DelimitIdentifier database parameter to “Yes” in the ConnectString.

- Set the ASA database option “SET OPTION NON_KEYWORDS = ‘WINDOW’”.
- Enclose the column name in quotation marks in SQL statements.

[CR 334166]

5.1.2 Pipeline execution with JDBC driver fails

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

5.1.3 Table updates not handled by OLE DB provider for Adaptive Server

The PB DataDirect OLE DB data provider for Adaptive Server Enterprise does not correctly handle table updates in the Database painter. [CR 338363, CR 338366]

5.1.4 DataDirect ODBC XML driver issues

You cannot create an ODBC XML data source name (DSN) using the DataDirect 5.1 ODBC driver. [CR 408671]

5.1.5 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]

5.1.6 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. Note that SQL scripts to alter a column's name are available only on the SQL Server 2000 client. [CR 348581]

5.1.7 PB DataDirect Oracle driver issues

If you create a table in the Database painter using the PB DataDirect 5.1 Oracle driver and give it a name that has all lowercase characters, the table columns are not visible in the Layout view. They display correctly after you select Tables>Refresh. [CR 348038]

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

5.1.8 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]

5.1.9 OraOleDB faster than Oracle8ADOProvider

When you use an OLE DB connection to an Oracle9i database, the Table list or View list displays much more quickly in the Database painter if you use OraOleDB instead of the Oracle8ADOProvider. [CR 341835]

5.1.10 Connection issues with CnnPool

In the Database painter, attempting to connect to an Oracle9i or Oracle 10g database from an Oracle9i or Oracle 10g client fails after a connect and disconnect if the CnnPool database parameter is set to 'Yes'. [CR 355639]

5.1.11 RPC calls with non-Unicode Adaptive Server database

PowerBuilder can access Unicode data in Unichar and Univarchar columns in Adaptive Server Enterprise 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 Adaptive Server 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]

5.1.12 Microsecond portion of Adaptive Server times not retrieved

When you use the OLE DB interface to connect to an Adaptive Server Enterprise database and select a column with the DateTime or Time datatype, the microsecond portion of the time value is not retrieved. When you use the ODBC and JDBC interfaces, the microsecond portion of a DateTime column value is retrieved correctly, but the microsecond portion of a Time column value is not. [CR 399257]

5.1.13 ASE version 15 with ODBC driver

The following issues occur 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]
- Retrieving and updating data in a DataStore with a TimeStamp datatype fails. This is due to a bug in the ASE ODBC driver. [CR 408684, CR 416248]

5.2 DataWindow issues

5.2.1 TreeView levels cannot be selected correctly when levels are collapsed and a trailer band has content

In a TreeView DataWindow object that has a trailer band that is not empty, calling SelectTreeNode to highlight a TreeView level does not work correctly if any levels above the current level are collapsed. The workaround is to select the SelectNodeByMouse property. This occurs at design time and runtime. [CR 418438]

5.2.2 Incorrect display in TreeView after scrolling

At runtime, if the last row in a TreeView DataWindow is not completely displayed, when you click the row and scroll, the selected row displays incorrectly. [CR 421850]

5.2.3 SelectNodeByMouse prevents updates in the Preview view

At design time, if you select the SelectNodeByMouse property, modify data in the Preview view, then move the cursor to the next row, the data you modified is reset. If you clear the SelectNodeByMouse property, you can modify data as expected. [CR 421877]

5.2.4 SelectNodeByMouse prevents event from triggering on single click

At runtime, if the SelectNodeByMouse property is true and there is a script in the DataWindow control's Clicked event, the event is not triggered when an unselected row or node is clicked. It is triggered when a selected row or node is clicked. [CR 422014]

5.2.5 PowerBuilder 10 RichText PSR cannot be opened in PowerBuilder 10.5

PSR files saved from RichText DataWindow objects in PowerBuilder 10 cannot be opened in PowerBuilder 10.5. RichText PSR files saved in PowerBuilder 8 and 9 can be opened in PowerBuilder 10.5. [CR 421167]

5.2.6 Computed column in header or footer of RichText DataWindow not updated

If you insert a {DWPAGE} computed column into the footer or header of a RichText DataWindow object, then change the row count of the DataWindow by deleting, inserting, and filtering rows, the computed column is not updated. This issue occurs at design time and runtime. [CR 420842]

5.2.7 Deleting a row in a RichText DataWindow displays ?? in input fields

When a RichText DataWindow has many rows, selecting a single row causes two question marks (??) to display in the input fields. The expected behavior is to scroll to the next row with data. [CR 420843]

5.2.8 AutoSize Height issues with header band

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

5.2.9 Save As PDF fails on Windows 2003 Server

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

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

[CR 349868]

5.2.10 XSL-FOP save as PDF does not support graphic controls

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

5.2.11 Limitations in default PostScript drivers

The PostScript drivers installed with PowerBuilder do not support searching the generated PDF file, and when a DataWindow object has more columns than fit on a single page, so that data is wrapped to a new page in the PDF file, sometimes the last column on each page is clipped. The workaround is to use an alternative driver. See the PowerBuilder 10.5 *Installation Guide* on the Sybase Product Manuals Web site at <http://sybooks.sybase.com> for how to install and use an alternative driver. [CR 324579, CR 332365]

5.2.12 Print preview mode disabled with ShowPrintDialog

When a DataWindow is in print preview mode, calling the Print method with the ShowPrintDialog argument set to true causes the DataWindow to display in normal mode. [CR 401182]

5.3 Decimal and longlong datatype support issues

5.3.1 Compiler error when maximum value assigned

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

5.3.2 Precision lost in message box

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

5.3.3 Dynamic SQL Format 4 does not work with longlong datatype

PowerBuilder 10.5 supports the longlong datatype and increases the range of the decimal datatype, but DSQL format 4 provides only one function, `GetDynamicNumber`, for all numeric datatypes. This function does not work properly for data having the longlong datatype, or with high-range data of the decimal datatype. A new function for longlong and decimal datatype data will be implemented in a future release. [CR 403862]

5.4 EAServer issues

EAServer release bulletin

For additional 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://sybooks.sybase.com>.

5.4.1 Deploying an NVO Web service or accessing a Web service

Due to an upgrade in the underlying Axis technology, you must apply EBF 13293 to EAServer 5.3 before you deploy a PowerBuilder NVO as a Web service or access a Web service from a JSP target running in EAServer.

Additionally, to make the JSP Web service feature work, you must assign the following value to the `com.sybase.jaguar.server.jvm.options` setting in the *Jaguar.props* file in the EAServer repository, separating it from any other setting value by a comma:

```
-Dorg.apache.axis.transport.http11.chunked=false
```

[CR 415834, CR 398194]

5.4.2 Runtime error in NVO Web service in EAServer

When a JSP page calls a PowerBuilder component exposed as a Web service in EAServer 5.x, a runtime error occurs if the Web service passes a decimal datatype by value. [CR 335545]

5.4.3 Byte datatype support for PowerBuilder components in EAServer

To fully support the byte datatype in PowerBuilder components hosted in EAServer, you must apply EBF 13293 to EAServer 5.3 and add a file named *pb.types* to the EAServer repository. This file must contain the following line:
`CORBA.octet=PB.Byte.` [CR 402644]

5.4.4 Byte[] datatype issue with Web services hosted in EAServer

Although EAServer can successfully return a byte[] datatype, it does not correctly handle the byte[] datatype as an input parameter. Any Web method that calls a Web method hosted in EAServer with a byte[] argument as an input parameter fails at runtime. This affects only Web methods hosted in EAServer. Web methods with a byte[] argument that are hosted in other servers can be successfully invoked from a JSP that is hosted in EAServer. [CR 306821]

5.4.5 Calling a .NET Web service with EAServer causes runtime error

When EAServer 5.3 is used as a JSP server, calling a .NET Web service method that uses a byte array for a parameter in a JSP page causes a runtime error. [CR 378724]

5.4.6 SSL connection to EAServer fails

EAServer versions 5.2 and later use Transport Layer Security (TLS) to establish secure connections between a client and server. TLS is a protocol based on the Secure Sockets Layer (SSL) that can authenticate both the client and the server and create an encrypted connection between them. PowerBuilder clients that rely on the previous version of the EAServer SSL client runtime and use mutual authentication cannot establish an SSL connection using the default settings.

To disable support for TLS and use the previous version of the SSL client runtime, set the environment variable JAGSSL to true in the *serverstart.bat* file before you start EAServer.

You can also set this environment variable in an EAServer client installation:

```
set JAGSSL=true
```

[CR 402979]

5.5 EJB client issues

5.5.1 CreateJavaVM does not produce debug information

Due to limitations in the Sun JDK 1.4, setting the *isdebug* argument of the `CreateJavaVM` method of the EJB client JavaVM class to true does not produce a *vm.out* debug information file when you use JDK 1.4. To work around this problem, use JDK 1.3 when you need debug information. You can change the JDK used in the development environment from the Java page of the System Options dialog box. [CR 296630]

5.6 Installation issues

5.6.1 Uninstall removes EAServer profiles from registry

Uninstalling PowerBuilder removes the EAServer profiles from the *HKEY_CURRENT_USER\Software\Sybase\PowerBuilder\N.N\JaguarServer Profiles* key in the registry, where *N.N* represents the version of PowerBuilder you are removing. If you need to uninstall and reinstall PowerBuilder, export this registry key to a file before you uninstall PowerBuilder. [CR 347732]

5.7 JSP issues

5.7.1 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]

5.7.2 JSP Web DataWindow DTC pages display incorrectly in Enterprise Portal

JSP Web DataWindow DTC pages that use the XHTML or XML Generation Format options do not display correctly when deployed to Enterprise Portal. [CR 357759, CR 357760]

See “EAServer issues” on page 10 for additional issues.

5.8 Menu and toolbar issues

5.8.1 Show and Hide functions rearrange menu items

In an MDI application, if a sheet window is maximized, the menu's Show and Hide functions rearrange the position of the menu item associated with the open sheet. [CR 419362]

5.8.2 Text change in menu item does not take effect immediately

A change to the text of a first-level menu item does not take effect until the menu object is re-rendered. This issue exists only in contemporary style menus. [CR 420568]

5.8.3 Shadow displays in WYSIWYG view

When you select View>Layout>Default in the Menu painter for a contemporary-style menu, then move the mouse to a first-level item in the WYSIWYG view, a shadow displays in the view. It disappears when you move the mouse again. [CR 421346]

5.8.4 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]

5.8.5 Missing images replaced with a cross

If an image cannot be found and the missing image has any extension other than *.ico*, a cross is displayed. If the missing image has the extension *.ico* or its name ends with an exclamation mark (!), as is the case for all stock icons, nothing displays. [CR 422183]

5.8.6 Changing external image in menu painter affects other external images

If you use a relative path to locate external images on a menu or toolbar, when you change one external image, other external images sometimes cannot be found. To redisplay the images, restart PowerBuilder. [CR 422312]

5.8.7 RightToLeft property not supported

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

5.8.8 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]

5.9 PowerDesigner plug-in issues

5.9.1 OLE controls are not supported

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

5.9.2 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 `GetCurrentDirectoryA` fails. The workaround is to specify an alias for the function, for example:

```
public function ulong GetCurrentDirectoryA (ulong  
textlen, ref string dirttext) library "KERNEL32.dll"  
alias for "GetCurrentDirectoryA;ansi"
```

[CR 358442]

5.9.3 Multiple languages do not display correctly

Because PowerDesigner is ANSI based, PBLs with multiple languages do not display correctly in the PowerDesigner plug-in and non-ASCII characters are not generated correctly when you reverse-engineer a PowerBuilder target or generate a PowerBuilder target from a UML class diagram using the PowerDesigner plug-in. [CR 343062]

5.10 Rich text control issues

5.10.1 Paste function returns incorrect value

At runtime, when you select more than three characters in a `RichTextEdit` control and call the `Copy` and `Paste` functions, `Paste` does not return the correct number of characters pasted. [CR 419120]

5.10.2 PasteRTF function returns incorrect values

At runtime, the `RichTextEdit` control's `PasteRTF` function returns 1 if you paste an empty string and returns the length of the string if you paste an invalid RTF string. In both these cases, `PasteRTF` should return -1. [CR 420252]

5.10.3 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]

5.10.4 InputFieldInsert fails after setting DataSource property

At runtime, if you call the RichTextEdit control's `InputFieldInsert` function and set the value of its `DataSource` property, you cannot subsequently call the `InputFieldInsert` function to insert multiple input fields without any text. Only the first input field is inserted. [CR 420259]

5.10.5 Inserting a document in a rich text control

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

5.10.6 Setting and displaying paper size and print margins

You can set the paper size and print margins from the Print Specifications tab page of the Properties dialog box for a RichTextEdit control. The settings you make modify the display of the control in both the standard and preview modes. However, you cannot open the Properties dialog box in preview mode. You must make paper size and print margin settings before you set the control display to preview mode. [CR 435746]

5.11 SCC issues

5.11.1 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]

5.12 Web services issues

See “EAServer issues” on page 10 for additional Web service issues.

5.12.1 Moving .NET Web services applications

If you move a PowerBuilder .NET Web service application from its original location, you must redeploy the Web service project before you can run the application from the design-time environment. [CR 419503]

5.12.2 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:

- **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>.

[CR 419815]

5.12.3 Array members with null values

If a Web service returns an array with a null value, you can declare an Any datatype variable to hold it; however, if you use an array variable to hold the null return value, PowerBuilder reports a runtime error. If the null value is returned for an 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 array or an embedded array, you should test whether that value is null using the IsNull method before deciding how to proceed. [CR 415207]

If you attempt to debug and run a workspace that imports a structure with an array member that returns a null value, then attempt to assign the null value to another variable, this can cause PowerBuilder to throw an exception. [CR 409850]

5.12.4 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]

5.12.5 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]

5.12.6 No support for custom SOAP headers in a .NET Web service

Although you can pass authentication information or certificate files through SOAP headers for a PowerBuilder .NET Web services application, you cannot currently use Web services requiring a custom SOAP header. This will be implemented in a future PowerBuilder release. [CR 420980]

5.12.7 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]

5.12.8 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]

5.12.9 Web services across time zones

When an application consumes a Web service that uses the date, time, or datetime datatypes, it is possible that the service implementation processes and returns different data for application users who access the service from different time zones. This is typically the result of design considerations of the Web service and not the result of precision differences or translation errors between the Web service and the application that calls it. [CR 429611]

5.13 Other issues

5.13.1 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 Comctl32 Version 6. [CR 403814]

5.13.2 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]

5.13.3 UpdateBlob SQL statement supports only UTF-16LE

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

5.13.4 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]

5.13.5 Translation Toolkit cannot translate PBLs from previous version

If you want to translate PBLs from a version of PowerBuilder prior to PowerBuilder 10, you must first migrate them to PowerBuilder 10 or later. See the online Help for the Translation Toolkit for more information. [CR 349513]

5.13.6 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]

5.13.7 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]

5.13.8 String formatting function not Unicode enabled

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

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

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

[CR 361568]

5.13.9 ActiveX control compiled in Visual C++ .NET 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 the following known bug in the Microsoft Foundation Classes: “In a Microsoft Visual C++ .NET 2003 Microsoft Foundation Classes (MFC) application, the creation of ActiveX controls during application run time may fail if the values that are passed to create the control are of the ULONG data type.” A patch is available from Microsoft. [CR 350660]

5.13.10 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.

5.13.11 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 10.5. You must regenerate the PSR file in a later build. [CR 386984]

5.13.12 Some PBD files must be regenerated

In PowerBuilder 10.0 or later, you cannot use a PowerBuilder dynamic library (PBD) that was created in PowerBuilder 9 or earlier versions of PowerBuilder because the PBD file uses ANSI encoding. You must regenerate the PBD in PowerBuilder 10.0 or later to use Unicode encoding instead. [CR 393000]

6. Product compatibilities

6.1 EAServer

PowerBuilder 10.5 has been tested with EAServer 5.3. EBF 13293 for EAServer 5.3 is required for JSP Web services and byte datatype support.

To run PowerBuilder components in EAServer, the runtime dynamic shared libraries for the version of PowerBuilder in which the components were developed must be available on the server. The PowerBuilder runtime files on the client and the server must be at the same build level. Using different build levels on client and server machines might result in unpredictable behavior or data corruption.

6.2 Adaptive Server Anywhere

PowerBuilder 10.5 has been tested with Adaptive Server Anywhere 9.0.2 and the ASA 9.0.2 Runtime Edition.

6.3 PowerDesigner

PowerBuilder 10.5 has been tested with PowerDesigner 12.0.

6.4 Enterprise Portal

PowerBuilder 10.5 has been tested with Enterprise Portal 6.0 with EAServer 5.3.

6.5 Java

PowerBuilder 10.5 is compatible with JDK 1.3.x and JDK 1.4.x.

6.6 Apache Tomcat

PowerBuilder 10.5 JSP targets have been tested with Apache Tomcat 4.1.30.

To use Web DataWindows and access EAServer components in JSP pages that you will deploy to a Tomcat server, you must add the following JAR files to the `%Tomcat%\shared\lib` directory:

```
pbjdbc12105.jar  
easclient.jar  
easj2ee.jar
```

You should also add the JAR files required by your DBMS, such as `jconn2.jar` for jConnect.

6.7 Application Servers

EJB client functionality has been tested with EAServer 5.3, WebLogic 8.1, Oracle 9i AS, Oracle Application Server 10g, and WebSphere 5.0.

6.8 Ghostscript

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

7. Documentation updates and clarifications

7.1 Authentication methods for SOAPConnection class

The following method descriptions for the SOAPConnection class are not included in the printed and online versions of the *PowerBuilder Extension Reference* or are documented incorrectly. They are included in the Help file installed with PowerBuilder.

```
RemoveAuthentication  
SetBasicAuthentication  
SetClientCertificateFile  
SetOptions  
SetProxyServer  
SetProxyServerOptions  
SetSoapLogFile  
SetTimeout  
UseConnectionCache  
UseIntegratedWindowsAuthentication
```

7.1.1 Method descriptions

RemoveAuthentication

Description Removes authentication for a Web service connection. This method is available for .NET Web services only.

Syntax `conn.RemoveAuthentication ()`

Argument	Description
<i>conn</i>	The name of the SoapConnection object that establishes the connection

Return values Long. Valid values are 0 for success, and 50 for failure.

Usage This method clears Basic, Digest, and Integrated Windows Authentication information. You can set authentication with the SetBasicAuthentication, UseIntegratedWindowsAuthentication, or SetOptions methods.

See also SetBasicAuthentication
SetOptions
UseIntegratedWindowsAuthentication

SetBasicAuthentication

Description Determines whether the SoapConnection object uses basic authentication for a Web service connection. This method is available for .NET Web services only.

Syntax `conn.SetBasicAuthentication (string domain, string userID, string password)`

Argument	Description
<i>conn</i>	The name of the SoapConnection object that establishes the connection.
<i>domain</i>	A string for the Web domain to which the user belongs. This could be a domain name, such as "sybase.com", or a machine name.
<i>userID</i>	A string for an https connection.
<i>password</i>	A string for an https connection.

Return values Long. Valid values are 0 for success, and 50 for failure.

Usage You can call the SetBasicAuthentication method instead of including client identification information in the *options* argument of the SetOptions method. For Integrated Windows Authentication, you can call the UseIntegratedWindowsAuthentication method.

See also RemoveAuthentication
 SetOptions
 UseIntegratedWindowsAuthentication

SetClientCertificateFile

Description Sets the certificate file or files to use to connect to a Web service. This method is available for .NET Web services only.

Syntax *conn*.SetClientCertificateFile (string *filename*)

Argument	Description
<i>conn</i>	The name of the SoapConnection object that establishes the connection.
<i>filename</i>	A string containing the name of the certificate file or files you want to use to connect to a Web service. You must use a semicolon as a separator for multiple files. The value can include local files with a full path and URLs to remote certificate files. To discontinue use of certificates, enter an empty string ("").

Return values Long. Valid values are 0 for success, and 50 for failure.

Usage You can call the SetClientCertificateFile method instead of including certificate information in the *options* argument of the SetOptions method.

See also SetBasicAuthentication
 SetOptions
 UseIntegratedWindowsAuthentication

SetOptions

Description Sets connection options for SoapConnection class. The string values for the option names are not case sensitive. Although the SetOptions method takes a single string argument for all available options, you can set each of the options with more specific methods.

For .NET Web services, you can use the following methods to replace the SetOptions method:

SetBasicAuthentication
 SetClientCertificateFile
 SetTimeout
 UseIntegratedWindowsAuthentication
 RemoveAuthentication

For EasySoap Web services, you can use the following methods to replace the SetOptions method:

SetSoapLogFile
SetTimeout
UseConnectionCache

Syntax

conn.**SetOptions** (string *options*)

Argument	Description
<i>conn</i>	The name of the SoapConnection object that establishes the connection.
<i>options</i>	Options you want to set for your connection. These can be: SoapLog (EasySoap Web service engine only) The file path for SoapLog. To disable the log, enter "". UserID A string value for an https connection. Password A string value for an https connection. Domain (.NET Web service engine only) A string value for the Web domain to which the user belongs. This could be a domain name, such as "sybase.com", or a machine name. UseWindowsAuthentication (.NET Web service engine only) A "yes" or "no" value to determine whether to use "Integrated Windows Authentication." The value you enter can be a boolean or a string. If this option is set to "yes," you do not need to set the UserID, Password, or Domain options. AuthenticationMode (.NET Web service engine only) A string value for the authentication mode you want to use. This can be "basic" or "digest". AuthenticationMode values are described on the Microsoft MSDN Web site at http://msdn2.microsoft.com/en-us/library/w67h0dw7.aspx . CertificateFile (.NET Web service engine only) A string value for the certificate file or files that you want to send from the Web service client to the server. The string value could include local files with a full path and URLs to remote certificate files. You must use a semicolon as a separator for multiple files. Timeout A number for the maximum wait time in seconds. The default timeout value is 0, meaning that no limit to the connection time is set. ConnectionCache (EasySoap Web service engine only) A boolean that determines whether the http connection of the proxy instance is kept alive after a call to the proxy. The default value is false. For Web services on EAServer, you must not change the default.

Return values	<p>Long. Valid values are 0 for success, and 50 for failure. If multiple options are specified and the return value is 50, options specified before the failure are still valid.</p>
Examples	<p>In this example, the application enables the logging function and attempts to connect to an endpoint for which no user ID, password, or timeout has been set.</p> <pre>lOpt=Conn.SetOptions("SoapLog=~"airportweather.log~")</pre> <p>If you do not want to use escape characters before a second pair of quotation marks, you can use single quotation marks instead, or you can start an exterior string with single quotation marks and use double quotation marks around an interior string:</p> <pre>lOpt=Conn.SetOptions('SoapLog="airportweather.log"')</pre>
Usage	<p>User ID and password values can be set in an endpoint used by the SoapConnection class or by including these values as arguments to the SetOptions method.</p> <p>Priority is given to values set in an endpoint (port) that is passed as an argument to the CreateInstance method of the SoapConnection class. However, a default endpoint is used when an endpoint is not set in the CreateInstance method. In this case, priority is given to user ID and password values defined in the SetOptions method.</p> <p>If the endpoint used by the SoapConnection class does not have user ID and password values, and you do not set a user ID or password with the SetOptions method, the SoapConnection class connects to a SOAP server without giving a user ID or password.</p> <p>If a user ID is defined in either the endpoint or the SetOptions method but is not a password, the password value is taken to be an empty string.</p> <p>When you set a timeout other than the default, an exception is thrown after the Web service connection times out. Even if you do not set a timeout value from the client, the Web server can still cause the request to time out on the server side.</p> <p>If you include ConnectionCache as an argument in a SetOptions call, you must not use quotation marks to enclose the value that you set for this option.</p>
See also	<ul style="list-style-type: none">RemoveAuthenticationSetBasicAuthenticationSetClientCertificateFileSetSoapLogFileSetProxyServerOptions

SetTimeout
 UseConnectionCache
 UseIntegratedWindowsAuthentication

SetProxyServer

Description Sets the address, port, user name, and password for the proxy server. This method has two syntaxes.

Syntax

```
conn.SetProxyServer (string address, string userID, string password)
conn.SetProxyServer (string hostname, long port, string userID, string password)
```

Argument	Description
<i>conn</i>	The name of the SoapConnection object that establishes the connection
<i>address</i>	A string containing the host name address and port of the proxy server, and optionally, an endpoint— in the format: <code>http://hostname:port/path</code>
<i>hostname</i>	A string containing the host name
<i>port</i>	A long for the proxy server port
<i>userID</i>	A string containing the user ID for the proxy server
<i>password</i>	A string containing the proxy server password

Return values Long. Valid values are 0 for success, and 50 for failure.

Examples This example uses the four-argument syntax of SetProxyServer:

```
long ll_return
ll_return = Conn.SetProxyServer &
("http://myProxyServer",8080, "My Name", "My Pass")
```

Usage This method does the same thing as the SetProxyServerOptions method, but it has a different syntax.

Use this method or the SetProxyServerOptions method if the proxy server requires authentication. The user ID and password that you supply with the SetOptions or other authentication methods apply to the URL of the Web service, not the proxy server.

See also SetOptions
 SetProxyServerOptions

SetProxyServerOptions

Description Sets the proxy address, user name, and password for the proxy server.

Syntax `conn.SetProxyServerOptions` (string *optionstring*)

Argument	Description
<i>conn</i>	The name of the SoapConnection object that establishes the connection.
<i>optionstring</i>	A string containing comma-separated name/value pairs. The format is: <pre>"address='proxy_endpoint' {, userID='name', password='password'}"</pre> The address is required and can have a format such as: <pre>http://hostname:port/path</pre> Specify values for userID and password if the proxy server requires them.

Return values Long. Valid values are 0 for success, and 50 for failure.

Examples This example specifies a user name and password, as well as the proxy endpoint:

```
long ll_return
string ls_string
ls_string = "address='http://Srvr:8080/endpoint', "
ls_string += "userID='MyName', password='mypass' "
ll_return = Conn.SetProxyServerOptions (ls_string)
```

Usage Use this method or the SetProxyServer method if the proxy server requires authentication. The user ID and password that you supply with the SetOptions or other authentication methods apply to the URL of the Web service, not the proxy server.

See also `SetOptions`
`SetProxyServer`

SetSoapLogFile

Description Sets the name of a file for logging raw SOAP messages. This method is available for EasySoap Web services only.

Syntax `conn.SetSoapLogFile` (string *filename*)

Argument	Description
<i>conn</i>	The name of the SoapConnection object that establishes the connection.
<i>filename</i>	A string containing the full file name for the SOAP log file. To disable logging, enter an empty string ("").

Return values Long. Valid values are 0 for success, and 50 for failure.

Usage You can call the SetSOAPLogFile method instead of including a log file name in the *options* argument of the SetOptions method.

See also SetOptions

SetTimeout

Description Sets the timeout value for a SOAP connection.

Syntax `conn.SetTimeout` (long *seconds*)

Argument	Description
<i>conn</i>	The name of the SoapConnection object that establishes the connection.
<i>seconds</i>	The timeout value in seconds. If this option is set to 0, no timeout will be set on the client side. (The Web service might still have a timeout value on the server side.)

Return values Long. Valid values are 0 for success, and 50 for failure.

Usage You can call the SetTimeout method instead of including a timeout value in the *options* argument of the SetOptions method.

See also SetOptions

UseConnectionCache

Description Determines whether a connection cache is used for the Web service connection. This method is available for EasySoap Web services only.

Syntax `conn.UseConnectionCache` (boolean *cache*)

Argument	Description
<i>conn</i>	The name of the SoapConnection object that establishes the connection.
<i>cache</i>	A boolean that determines whether the http connection of the proxy instance is kept alive after a call to the proxy. The default value is false. For Web services on EAServer, you must not change the default.

Return values Long. Valid values are 0 for success, and 50 for failure.

Usage You can call the UseConnectionCache method instead of setting a connection cache in the *options* argument of the SetOptions method.

See also SetOptions
SetSoapLogFile

UseIntegratedWindowsAuthentication

Description Determines whether the SoapConnection object uses Integrated Windows Authentication to connect to a Web service. This method is available for .NET Web services only.

Syntax `conn.UseIntegratedWindowsAuthentication` (boolean *useIWA*)

Argument	Description
<i>conn</i>	The name of the SoapConnection object that establishes the connection.
<i>useIWA</i>	A boolean that determines whether to use Integrated Windows Authentication. If this option is set to "yes," you do not need to set the UserID, Password, or Domain options.

Return values Long. Valid values are 0 for success, and 50 for failure.

Usage You can call the UseIntegratedWindowsAuthentication method to set connection authentication instead of the *options* argument of the SetOptions method.

See also RemoveAuthentication
SetBasicAuthentication
SetOptions

7.2 PBNI Application Wizard

The following information is not included in the printed and online versions of the *PowerBuilder Native Interface User's Guide and Reference*. It is included in the Help file installed with PowerBuilder.

If Visual Studio .NET 2005 is installed on your computer, a PBNI Application wizard is installed in the `..\Microsoft Visual Studio 8\VC\VCProjects` and `..\Microsoft Visual Studio 8\VC\VCWizards` directories when you install PowerBuilder. You use the wizard in the same way as the wizards for earlier versions of Visual Studio.

7.3 InsertPicture enhancement for RichTextEdit

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

7.4 New RecheckRows database parameter

The RecheckRows database parameter is not described in the *Connection Reference*.

In Microsoft SQL server, if a table has an insert, update, or delete trigger, the number of affected rows returned to the SQLNRows property of the Transaction object after an INSERT, UPDATE, or DELETE command depends on the driver. With an ADO.NET driver, the value returned is the sum of the rows affected by the command itself and the trigger.

When you are connected to Microsoft SQL Server using ADO.NET or OLE DB, you can set the RecheckRows runtime database parameter to 1 to recheck how many rows of data were affected by the INSERT, UPDATE, or DELETE command itself and return that value in the SQLNRows property.

Setting RecheckRows to 1 before issuing an INSERT, UPDATE, or DELETE command causes a SELECT @@ROWCOUNT command to be executed. To improve performance, you should set it only when required, and reset it to the default value of 0 after use.

To set RecheckRows to 1, type the following in code:

```
SQLCA.DBParm="RecheckRows=1"
```


7.5 BindSPInput database parameter applies to Oracle 10g

The O10 driver for Oracle 10g is not listed as supported in the description of the BindSPInput database parameter in the *Connection Reference*. BindSPInput applies to the O10 interface.

7.6 List of DataDirect ODBC files incorrect

The list of PowerBuilder DataDirect ODBC database drivers and files in Chapter 41, “Deploying Applications and Components,” in *Application Techniques* is incorrect. The following table lists the required files for each supported interface.

Driver	File Name
All PB DataDirect OEM 5.10 drivers	<i>IVPB.LIC</i> <i>PBICU21.dll</i> <i>PBTRN21.dll</i>
PB DataDirect OEM 5.10 Btrieve	<i>PBBTR21.DLL</i> <i>PBBTR21R.DLL</i> <i>PBBTR21S.DLL</i>
PB DataDirect OEM 5.10 DB2 Wire Protocol	<i>PBDB221.DLL</i> <i>PBDB221R.DLL</i>
PB DataDirect OEM 5.10 dBASE	<i>PBDBF21.DLL</i> <i>PBDBF21R.DLL</i>
PB DataDirect OEM 5.10 Informix	<i>PBINF21.DLL</i> <i>PBINF21R.DLL</i> <i>PBINF21S.DLL</i> <i>PBINFDTC21.DLL</i>
PB DataDirect OEM 5.10 Informix Wire Protocol	<i>PBIFCL21.DLL</i> <i>PBIFCL21R.DLL</i>
PB DataDirect OEM 5.10 Oracle	<i>PBOR821.DLL</i> <i>PBOR821R.DLL</i> <i>PBOR821S.DLL</i> <i>PBOR8DTC21.DLL</i>
PB DataDirect OEM 5.10 Oracle Wire Protocol	<i>PBORA21.DLL</i> <i>PBORA21R.DLL</i>
PB DataDirect OEM 5.10 Paradox	<i>PBIDP21.DLL</i> <i>PBIDP21R.DLL</i> <i>PBIDP21S.DLL</i>
PB DataDirect OEM 5.10 Progress SQL92	<i>PBPRO921.DLL</i> <i>PBPRO921R.DLL</i> <i>PBPRO921S.DLL</i>

Driver	File Name
PB DataDirect OEM 5.10 Progress OpenEdge	<i>PBPRO1021.DLL</i> <i>PBPRO1021R.DLL</i> <i>PBPRO1021S.DLL</i>
PB DataDirect OEM 5.10 SQL Server Wire Protocol	<i>PBMSSS21.DLL</i> <i>PBMSSS21R.DLL</i> <i>DBNETLIB.DLL</i> <i>SQLSRV32.DLL</i> <i>SQLSRV32.RLL</i> <i>SQLUNIRL.DLL</i>
PB DataDirect OEM 5.10 Sybase Adaptive Server Enterprise Wire Protocol	<i>PBASE21.DLL</i> <i>PBASE21R.DLL</i>
PB DataDirect OEM 5.10 Text File	<i>PBTXT21.DLL</i> <i>PBTXT21R.DLL</i>
PB DataDirect OEM 5.10 XML	<i>PBXML21.DLL</i> <i>PBXML21R.DLL</i> <i>PBXML21S.DLL</i> <i>PBIADX09.DLL</i> <i>PBIADX09R.DLL</i> <i>PBXMLX09.DLL</i> <i>PBXMLX09R.DLL</i>

7.7 Rich text deployment issue

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

7.8 Microsoft update affects DataWindow Web ActiveX

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

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

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

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

```
// createElement.js file
var d = document.getElementById("DivID");
d.innerHTML =
'<OBJECT id="OBJECT1" style="WIDTH: 627px; HEIGHT:
320px" codeBase="psdwc105.cab"
classid="CLSID:A5A51503-A5A5-1000-8000-080009AC61A9">'
+'<PARAM NAME="_Version" VALUE="65536"></PARAM>'
+'<PARAM NAME="_ExtentX" VALUE="16589"></PARAM>'
+'<PARAM NAME="_ExtentY" VALUE="8467"></PARAM>'
+'<PARAM NAME="_StockProps" VALUE="2"></PARAM>'
+'<PARAM NAME="Caption" VALUE=""></PARAM>'
+'<PARAM NAME="SourceFileName"
VALUE="test.psr"></PARAM>'
+'<PARAM NAME="DataWindowObject"
VALUE="test.psr"></PARAM>'
+'<PARAM NAME="LogId" VALUE=""></PARAM>'
+'<PARAM NAME="LogPass" VALUE=""></PARAM>'
+'<PARAM NAME="dbParm" VALUE=""></PARAM>'
+'<PARAM NAME="SuppressEvents" VALUE="0"></PARAM>'
+'<PARAM NAME="VScrollBar" VALUE="0"></PARAM>'
+'<PARAM NAME="HScrollBar" VALUE="0"></PARAM>'
+'<PARAM NAME="HSplitScroll" VALUE="0"></PARAM>'
+'<PARAM NAME="LiveScroll" VALUE="0"></PARAM>'
+'</OBJECT>';
```

8. Migration information

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

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

8.1 Toolbar changes in PowerBuilder 10.5

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

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

8.2 Icon changes in PowerBuilder 10.5

In PowerBuilder 10.5, many of the icons used in the PowerBuilder and InfoMaker user interfaces were changed. When you migrate an application to PowerBuilder 10.5, 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>.

8.3 Change in Date function behavior

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

9. 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.

10. 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/>.

10.1 Sybase certifications on the Web

Technical documentation at the Sybase Web site is updated frequently.

❖ Finding the latest information on product certifications

- 1 Point your Web browser to Technical Documents at <http://www.sybase.com/support/techdocs/>.
- 2 Click Certification Report.
- 3 In the Certification Report filter select a product, platform, and timeframe and then click Go.
- 4 Click a Certification Report title to display the report.

❖ Finding the latest information on component certifications

- 1 Point your Web browser to Availability and Certification Reports at <http://certification.sybase.com/>.
- 2 Either select the product family and product under Search by Base Product; or select the platform and product under Search by Platform.
- 3 Select Search to display the availability and certification report for the selection.

❖ Creating a personalized view of the Sybase Web site (including support pages)

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

- 1 Point your Web browser to Technical Documents at <http://www.sybase.com/support/techdocs/>.
- 2 Click MySybase and create a MySybase profile.

10.2 Sybase EBFs and software maintenance

❖ Finding the latest information on EBFs and software maintenance

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

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

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

11. Accessibility features

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

PowerBuilder 10.5 and the HTML documentation have been tested for compliance with U.S. government Section 508 Accessibility requirements. Documents that comply with Section 508 generally also meet non-U.S. accessibility guidelines, such as the World Wide Web Consortium (W3C) guidelines for Web sites.

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

For information about how Sybase supports accessibility, see Sybase Accessibility at <http://www.sybase.com/accessibility>. The Sybase Accessibility site includes links to information on Section 508 and W3C standards.

For more information about accessibility features of PowerBuilder, see the chapter on building accessible applications in *Application Techniques*.

For a Section 508 compliance statement for PowerBuilder, go to the Voluntary Product Assessment Templates page at http://www.sybase.com/detail_list?id=52484.