

## What's New

Appeon PowerBuilder® 2017 R2  
FOR WINDOWS

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Appeon Limited, 1/F, Shell Industrial Building, 12 Lee Chung Street, Chai Wan District, Hong Kong.

# Contents

1 New Features in PowerBuilder 2017 R2 .....	1
1.1 Consume RESTful web services .....	1
1.2 Source control with SVN & Git .....	1
1.3 PostgreSQL ODBC driver .....	1
1.4 Enhanced PDFlib method .....	2
1.5 MobiLink synchronization supports ASA 16 & 17 .....	2
1.6 Enhanced PowerBuilder Compiler .....	2
1.7 Web Service Proxy (Wizard) available in Standard Edition .....	2



# 1 New Features in PowerBuilder 2017 R2

## About this chapter

This chapter introduces the new features in PowerBuilder 2017 R2.

## 1.1 Consume RESTful web services

The following objects are provided to exchange data in JSON and consume the RESTful web services:

- HTTPClient object -- a base object for sending HTTP requests and receiving HTTP responses from a resource identified by a URI. Compared to the Inet object, the HTTPClient object is easier to use and supports more methods (Get/Post/Put/Delete) and more SSL protocols. For more about this object, refer to Section 2.35, “HTTPClient object” in *Objects and Controls*.
- JSONGenerator object -- provides the ability to construct the JSON objects with the root item being either an object or an array. It supports adding values, objects, or arrays to the constructed JSON object. For more about this object, refer to Section 2.40, “JSONGenerator object” in *Objects and Controls*.
- JSONParser object -- provides the ability to load the JSON-formatted data from a string or from a TXT file into a JSON object. For more about this object, refer to Section 2.41, “JSONParser object” in *Objects and Controls*.
- RESTClient object -- provides the ability to access the RESTful Web APIs. It loads the JSON-formatted string returned from the RESTful Web APIs into the DataWindow object. For more about this object, refer to Section 2.77, “RESTClient object” in *Objects and Controls*.

Note that these four objects are not supported in .NET Web Service and .NET Assembly components.

## 1.2 Source control with SVN & Git

PowerBuilder provides native interface options of Subversion (SVN) and Git for directly performing source control operations and functions in the PowerBuilder IDE, without needing to install the SVN or Git client. All the commonly-used SVN/Git commands are supported, including Connect to Workspace (equivalent to Checkout in SVN and Clone in Git), Add to Source Control, Commit, Revert, Resolve, Update (SVN), Pull (Git), and Push (Git).

For more information, refer to Section 3.2, “Using SVN source control system” in *Users Guide* and Section 3.3, “Using Git source control system” in *Users Guide*.

## 1.3 PostgreSQL ODBC driver

PowerBuilder supports the PostgreSQL ODBC driver, so PowerBuilder apps can connect with the PostgreSQL 10 (32-bit and 64-bit) (ANSI and Unicode) database through the PostgreSQL ODBC driver.

## 1.4 Enhanced PDFlib method

The following properties or settings are provided for the save as PDF method using PDFlib:

- `Export.PDF.NativePDF.ImageFormat` -- enables you to select a format for images in the PDF file when you use the PDFlib method to save data from a `DataWindow` object to a PDF file. For more about this property, refer to Section 3.3.66, “`Export.PDF.NativePDF.ImageFormat`” in *DataWindow Reference*.
- `Export.PDF.NativePDF.PDFStandard` -- enables you to select a PDF conformance level when you use the PDFlib method to save data from a `DataWindow` object to a PDF file. For more about this property, refer to Section 3.3.67, “`Export.PDF.NativePDF.PDFStandard`” in *DataWindow Reference*.
- `Export.PDF.NativePDF.UsePrintSpec` -- enables you to use the page orientation and paper size settings in the Print Specifications tab or in the `Print.Orientation` and `Print.Paper.Size` properties, when you use the PDFlib method to save data from a `DataWindow` object to a PDF file. For more about this property, refer to Section 3.3.68, “`Export.PDF.NativePDF.UsePrintSpec`” in *DataWindow Reference*.

## 1.5 MobiLink synchronization supports ASA 16 & 17

PowerBuilder supports the MobiLink synchronization using ASA 16 & 17.

## 1.6 Enhanced PowerBuilder Compiler

PowerBuilder Compiler supports to use the following deployment options as runtime parameters:

- "Trace information" option. Corresponding runtime parameter: `/tr y|n`
- "Error context information" option. Corresponding runtime parameter: `/in y|n`
- "Optimization" option. Corresponding runtime parameter: `/op 0|1|2`
- "Enable DEBUG symbol" option. Corresponding runtime parameter: `/bg y|n`
- "Generation options" option. Corresponding runtime parameter: `/ge 0|1|2`
- "Execution level" option. Corresponding runtime parameter: `/le 0|1|2`
- "Allow access to protected system UI" option. Corresponding runtime parameter: `/ps y|n`

For more details about these parameters, read the PBC user guide (`pbc.pdf`) under `\Apeon\PowerBuilder 17.0\AutoCompiler`.

## 1.7 Web Service Proxy (Wizard) available in Standard Edition

Starting from PowerBuilder 2017 R2, Web Service Proxy and Web Service Proxy Wizard are available in both the Standard Edition and Universal Edition (In PowerBuilder 2017, they are only available in Universal Edition).