

Release Bulletin for PowerServer 2020

Appeon PowerServer® 2020
FOR WINDOWS & UNIX & LINUX

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1 System Requirements

Before installing Apeon PowerServer 2020 (on Windows), please ensure that your system meets the requirements below:

Client machine (for Mobile)

- Apple iOS 11, 12, or 13
iOS devices: iPad Mini/Air, iPad Pro, and iPhone.
- Google Android 6.x (32-bit), 7.x, 8.x, 9.x, or 10.x
Android devices that have been certified by Apeon include the recent and popular Samsung phones and tablets, Google Nexus, and Google Pixel.

Client machine (for Web)

- Windows 7, Windows 8.1, or Windows 10
- Microsoft Internet Explorer 11, Microsoft Edge (27 thru 44), Mozilla Firefox (63 thru 72), Google Chrome (50 thru 78), or Opera (45 thru 65)
- Optional: Adobe Acrobat Reader 6.0 or above for viewing PDF printed DataWindows and reports

PowerServer (for J2EE Server)

- Microsoft Windows Server 2019, 2016, or 2012 R2, Windows 10, 8.1, or 7
- Any of the following Java Application Servers:
IBM WebSphere Application Server 6.1, 7.0, 8.0, or 8.5.5
Oracle WebLogic Server 8.1.6, 9.2, 10.3, 11g, 12.1.2, or 12.1.3
WildFly 18 or JBoss EAP 7.2
TmaxSoft JEUS 6.0 fix #5
Sun Java 2 JDK 1.8

PowerServer (for .NET IIS Server)

- Microsoft Windows Server 2019, 2016, or 2012 R2, Windows 10, 8.1, or 7
- Microsoft IIS 7.5, 8.0, or 10
- Microsoft .NET Framework 4.x

Web Server (for J2EE Server)

- Apache 1.3, 2.0, or 2.2
- Microsoft IIS 7.5, 8.0, or 10

- IBM WebSphere Server 6.1, 7.0, 8.0, or 8.5.5
- Oracle WebLogic Server 8.1.6, 9.2, 10.3, 11g, 12.1.2, or 12.1.3
- TmaxSoft JEUS server 6.0 fix #5
- WildFly 18 or JBoss EAP 7.2

Web Server (for .NET IIS Server)

- Microsoft IIS 7.5, 8.0, or 10

DBMS (for J2EE Server)

- SAP SQL Anywhere 16.0 or 17 with jConnect or iAnywhere JDBC driver
- SAP Adaptive Server Anywhere WEB Edition with jConnect or iAnywhere JDBC driver
- SAP Adaptive Server Enterprise (ASE) 12.x or 15.x with jConnect or iAnywhere JDBC driver
- SAP Sybase IQ 12.6.x, 12.7.x, or 15 with jConnect JDBC driver
- IBM DB2 UDB 8.1, 8.2, 9.5, or 10 with IBM JDBC driver
- Informix 9.x, 10.x, or 11.x with IBM JDBC driver
- Microsoft SQL Server 2012, 2014, 2016, 2017, or 2019 with JTDS driver or Microsoft JDBC driver
- MySQL 5.5.x or 5.6.x with Connector/J driver
- Oracle 11g, 12c, 18c, or 19c with Oracle JDBC driver
- PostgreSQL 9.2 or 12.x with PostgreSQL JDBC driver

DBMS (for .NET IIS Server)

- SAP SQL Anywhere 16.0 or 17 with SQL Anywhere .NET Data Provider
- SAP Adaptive Server Enterprise (ASE) 12.5.x or 15.x with ASE Native Driver
- IBM DB2 UDB 9.7 with IBM DB2 native driver
- Informix 7.x, 8.x, 9.x, 10.x, or 11.x with IBM Informix .NET Provider
- Microsoft SQL Server 2012, 2014, 2016, 2017, or 2019 with MS SQL Server Native Driver
- MySQL 5.5.x or 5.6.x with ADO.NET Data Provider
- Oracle 11g, 12c, 18c, or 19c with Oracle native driver

- PostgreSQL 9.2 or 12.x with PostgreSQL psqLODBC driver

Synchronization requirements (for Mobile)

- Client Database requirements: UltraLite 17 or SQLite 3.x
For UltraLite 17, please note that SAP SQL Anywhere provides no 64-bit UltraLite database for Android OS.
- Synchronization Server requirements: MobiLink Server 17

2 Known Issues

PowerServer 2020 GA version has the following known issues:

- If your application performs a remote procedure call (RPC) that passes an array parameter to the Oracle 18c/19c database, the trailing spaces will be automatically trimmed from the returned values of type varchar or varchar2.
- AEM (J2EE version) failed to show the correct OS information of Windows 10 and Windows Server 2019.
- If using Firefox 72 to run the application, the Appeon multi-browser plug-in needs to be re-installed first. The Appeon multi-browser plug-in can be automatically updated in the other supported Web browsers except Firefox 72.

3 Bug Fixes

The following bugs are fixed in PowerServer Mobile Templates 2020 MR 2328 (compared to 2020 GA 2323) (you can download the latest templates from the Appeon website):

- When calling `SendRequest` to send the request from the `HTTPClient` object to the server, the method failed with the return code: 0- `Msg: undefined`.

The following bugs are fixed in PowerServer 2020 GA 2323 (compared to 2019 MR 2151).

- (Bug ID: 2905) The date columns in `DataWindows` may process the year value (for example 0000) incorrectly.
- (Bug ID: 1723) On Android, `DataStore` printing may throw exception.
- (Bug ID: N/A) On Android, the lines in `DataWindow` group header bands do not show properly.
- (Bug ID: 3635) On Samsung devices, the number keyboard in the default Samsung input mode does not show the “.” symbol.
- (Bug ID: 1659) On Android, the date in an `EditMask` field may not show correctly.
- (Bug ID: 3114) The `Modified` event is not triggered when the content in an `EditMask` control is all deleted by pressing the `Delete` key.
- (Bug ID: 3522) On iOS, the GPS location obtained is unchanged when the GPS is on or off.
- (Bug ID: 3482) Reading data into a string variable using `FileReadEx` causes memory leak on mobile.
- (Bug ID: 3610) `RichTextEdit InputFieldChangeData` function does not work.
- (Bug ID: 3061) (Fixed in Web only) Pasting text in a format column of a `DataWindow` does not work well.
- (Bug ID: 1708) When the `DataWindow` data includes double quotation marks or comma, the content exported to the CVS file will be different from `PowerBuilder`.
- (Bug ID: 3592) `Match` function returns false when matching strings that include line breaks with the pattern `".*"`.
- (Bug ID: 3610) Calling `RichTextEdit SaveDocument` function causes the deployed Web app to crash.
- (Bug ID: 2594) When the MDI window title includes special characters such as Chinese, opening the application via HTTPS connection displays blank page on Chrome.
- (Bug ID: 3609) `DataWindow AutoSizeHeight` property causes IE crash when the `DataWindow` height is less than 20.

- (Bug ID: 2828) (Fixed in Web only) DataWindow LastRowOnPage property returns -1 when there is no row.
- (Bug ID: N/A) Application does not work on Chrome when Chrome's language is set to Arabic.
- (Bug ID: 3001) When moving focus among multiple RadioButtons in a GroupBox, the order changes randomly.
- (Bug ID: 3654) (Fixed in Web only) Assigning array values to the DataWindow columns does not work if only some (not all) rows are selected.
- (Bug ID: 1250) Pictures always show after the window on Android; picture scrolling is choppy
- (Bug ID: 2856) Picture scrolling is choppy on mobile.
- (Bug ID: 2942) Passing structure variable to functions consumes a lot of memory, and the memory is not released until application exits on Android.
- (Bug ID: N/A) Printer settings does not take effect on Web when printing a job.
- (Bug ID: 2727) Offline apps would fail to start after a major version upgrade.
- (Bug ID: 946) of_getapeonwebversion and of_getapeonadtversion does not work and should be removed from the workarounds PBL.
- (Bug ID: 3119) Apeon Debugger always pops up JS size over 500KB error on Windows 10 even if it is a very small app.
- (Bug ID: 3604) The OLE control (such as Adobe Acrobat DC Browser, Adobe Acrobat Reader) does not work on web.
- (Bug ID: N/A) External data source which contains multiple languages are imported to contain garbage characters.
- (Bug ID: N/A) When upgraded to PowerServer 2017 or 2019, RichText DataWindow cannot show data.
- (Bug ID: 3668) The disabled button in DataWindow causes the GDI object leaks on the Web browser.
- (Bug ID: 3603) The user keystore file is not used when packaging the Android app; the default Apeon keystore file is used instead.

4 PowerServer (PB Edition) VS. Other PowerServer Editions

PowerServer (PB Edition) indicates the PowerServer provided in the PowerBuilder CloudPro Edition; its Developer license supports deploying Web and mobile apps to the .NET-based PowerServer back-ends. Other PowerServer editions indicate the PowerServer (Developer/Workgroup/Enterprise Edition) which supports Web and mobile deployments on both the .NET and J2EE application servers. Notice the different components contained in these editions.

Table 4.1: Components contained in different editions

Component	PowerServer (PB Edition)			Other PowerServer Editions		
	Developer Edition	Standalone Production Edition	Clustered Production Edition	Developer Edition	Workgroup Edition	Enterprise Edition
PowerServer Web/Mobile	Available	Available (Mobile only)	Available (Mobile only)	Available	Available	Available
PowerServer Web Component	Available	Available	Available	Available	Available	Available
PowerServer Help	Available	Available	Available	Available	Available	Available
PowerServer Toolkit	PowerServer Toolkit is only available in the PowerBuilder CloudPro Edition. It can deploy PowerBuilder apps as mobile apps or Web apps to PowerServer 2020, 2019, 2017 R3, 2017 R2, and 2017 based on the .NET or J2EE application servers.					

The PowerServer Web/Mobile server component from **PowerServer (PB Edition)** and the PowerServer Web/Mobile server component from other **Appeon PowerServer Editions** must be installed on different servers. If you install them on the same server, unpredictable issues may occur, and you should uninstall both, and then install them separately on different servers.

Also notice the different features supported in these editions.

Table 4.2: Features supported in different editions

Feature	PowerServe Toolkit	PowerServer (PB Edition)			Other PowerServer Editions		
	-	Developer Edition	Standalone Production Edition	Clustered Production Edition	Developer Edition	Workgroup Edition	Enterprise Edition
Mobile apps	Supported	Supported	Supported	Supported	Supported	Supported	Supported
Web apps	Supported	Supported	Not supported	Not supported	Supported	Supported	Supported

Feature	PowerServe Toolkit	PowerServer (PB Edition)			Other PowerServer Editions		
	-	Developer Edition	Standalone Production Edition	Clustered Production Edition	Developer Edition	Workgroup Edition	Enterprise Edition
.NET application server	Supported	Supported	Supported	Supported	Supported	Supported	Supported
J2EE application server	Supported	Not supported	Not supported	Not supported	Supported	Supported	Supported
Clustering (failover)	Supported	Not supported	Not supported	Supported	Not supported	Not supported	Supported
Offline mobile capability	Supported	Supported	Supported	Supported	Supported	Supported	Supported
Free or paid	Free	Free	Free	Paid	Paid	Paid	Paid
Licensing model	-	Subscription	Subscription	Subscription	Perpetual	Perpetual	Perpetual
Supported OS	Windows	Windows	Windows	Windows	Win/ Linux/ Unix	Win/ Linux/ Unix	Win/ Linux/ Unix
User sessions	-	5 (in total)	Unlimited	Unlimited	5	Variable	Variable