

# WEBCON **BPS 2025 R1**

C# External components



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# 1. Common

Libraries used in C# code by BPS Portal, Designer Studio and Workflow Service components.

Library	Version	Author	Project Link
Aspose.BarCode	23.10.0	Aspose	<a href="https://products.aspose.com/barcode/net">https://products.aspose.com/barcode/net</a>
Aspose.Cells	23.11.0	Aspose	<a href="https://products.aspose.com/cells/net">https://products.aspose.com/cells/net</a>
Aspose.Email	23.10.0	Aspose	<a href="https://products.aspose.com/email/net">https://products.aspose.com/email/net</a>
Aspose.PDF	23.11.0	Aspose	<a href="https://products.aspose.com/pdf/net">https://products.aspose.com/pdf/net</a>
Aspose.Words	23.11.0	Aspose	<a href="https://products.aspose.com/words/net">https://products.aspose.com/words/net</a>
Azure.Communication.Sms	1.0.1	Microsoft	<a href="https://github.com/Azure/azure-sdk-for-net/blob/Azure.Communication.Sms_1.0.1/sdk/communication/Azure.Communication.Sms/README.md">https://github.com/Azure/azure-sdk-for-net/blob/Azure.Communication.Sms_1.0.1/sdk/communication/Azure.Communication.Sms/README.md</a>
Azure.Identity	1.11.4	Microsoft	<a href="https://github.com/Azure/azure-sdk-for-net/blob/Azure.Identity_1.11.4/sdk/identity/Azure.Identity/README.md">https://github.com/Azure/azure-sdk-for-net/blob/Azure.Identity_1.11.4/sdk/identity/Azure.Identity/README.md</a>
Azure.Monitor.OpenTelemetry.Exporter	1.2.0	Microsoft	<a href="https://github.com/Azure/azure-sdk-for-net/blob/Azure.Monitor.OpenTelemetry.Exporter_1.2.0/sdk/monitor/Azure.Monitor.OpenTelemetry.Exporter/README.md">https://github.com/Azure/azure-sdk-for-net/blob/Azure.Monitor.OpenTelemetry.Exporter_1.2.0/sdk/monitor/Azure.Monitor.OpenTelemetry.Exporter/README.md</a>
BouncyCastle.Crypto	1.9.0	Legion of the Bouncy Castle Inc.	<a href="https://bouncycastle.org/">https://bouncycastle.org/</a>
BouncyCastle.Crypto		Legion of the Bouncy Castle Inc.	<a href="https://bouncycastle.org/">https://bouncycastle.org/</a>
DocumentFormat.OpenXml	2.16.0	Open Source	<a href="https://github.com/OfficeDev/Open-XML-SDK">https://github.com/OfficeDev/Open-XML-SDK</a>
DTKBarReader5.dll	5.0.28	DTK Software	<a href="https://www.dtksoft.com/barcode">https://www.dtksoft.com/barcode</a>
FastCache.Cached	1.8.1	neon-sunset	<a href="https://github.com/neon-sunset/fast-cache">https://github.com/neon-sunset/fast-cache</a>
FirebaseAdmin	2.4.0	Google Inc.	<a href="https://github.com/Firebase/firebase-admin-dotnet">https://github.com/Firebase/firebase-admin-dotnet</a>
Google.Apis	1.52.0	Google LLC	<a href="https://github.com/googleapis/google-api-dotnet-client">https://github.com/googleapis/google-api-dotnet-client</a>
Google.Apis.Auth	1.52.0	Google LLC	<a href="https://github.com/googleapis/google-api-dotnet-client">https://github.com/googleapis/google-api-dotnet-client</a>
Google.Apis.Core	1.68.0	Google LLC	<a href="https://github.com/googleapis/google-api-dotnet-client">https://github.com/googleapis/google-api-dotnet-client</a>
HtmlAgilityPack	1.11.59	ZZZ Projects, Simon Mourrier, Jef Klawiter, Stephan Grell	<a href="http://html-agility-pack.net/">http://html-agility-pack.net/</a>
Lib.AspNetCore.ServerSentEvents	9.0.0	Tomasz Pęczek	<a href="https://github.com/tpeczek/Lib.AspNetCore.ServerSentEvents">https://github.com/tpeczek/Lib.AspNetCore.ServerSentEvents</a>
MetadataExtractor	2.8.1	Drew Noakes	<a href="https://github.com/drewnoakes/metadata-extractor-dotnet">https://github.com/drewnoakes/metadata-extractor-dotnet</a>
Meziantou.Analyzer	2.0.158	Meziantou	<a href="https://github.com/meziantou/Meziantou.Analyzer">https://github.com/meziantou/Meziantou.Analyzer</a>
MimeKit	4.7.1	Jeffrey Stedfast	<a href="https://www.mimekit.net/">https://www.mimekit.net/</a>
MyGeneration.dOODads		Open Source	

Newtonsoft.Json	13.0.3	James Newton-King	<a href="https://www.newtonsoft.com/json">https://www.newtonsoft.com/json</a>
Newtonsoft.Json	13.0.0	OpenSource/Newtonsoft	<a href="https://github.com/JamesNK/Newtonsoft.Json">https://github.com/JamesNK/Newtonsoft.Json</a>
NodaTime	3.1.9	Jon Skeet	<a href="https://nodatime.org/">https://nodatime.org/</a>
OpenTelemetry.Contrib.Extensions.AWSXRay	1.2.0	OpenTelemetry authors	<a href="https://opentelemetry.io/">https://opentelemetry.io/</a>
OpenTelemetry.Contrib.Instrumentation.AWS	1.0.2	OpenTelemetry authors	<a href="https://opentelemetry.io/">https://opentelemetry.io/</a>
OpenTelemetry.Exporter.OpenTelemetryProtocol	1.9.0	OpenTelemetry Authors	<a href="https://opentelemetry.io/">https://opentelemetry.io/</a>
OpenTelemetry.Exporter.Stackdriver	1.0.0-beta.6	OpenTelemetry authors	<a href="https://opentelemetry.io/">https://opentelemetry.io/</a>
OpenTelemetry.Instrumentation.EventCounters	1.5.1-alpha.1	OpenTelemetry authors	<a href="https://opentelemetry.io/">https://opentelemetry.io/</a>
OpenTelemetry.Instrumentation.Http	1.9.0	OpenTelemetry authors	<a href="https://opentelemetry.io/">https://opentelemetry.io/</a>
OpenTelemetry.Instrumentation.Process	0.5.0-beta.6	OpenTelemetry authors	<a href="https://opentelemetry.io/">https://opentelemetry.io/</a>
OpenTelemetry.Instrumentation.Runtime	1.9.0	OpenTelemetry authors	<a href="https://opentelemetry.io/">https://opentelemetry.io/</a>
OpenTelemetry.Instrumentation.SqlClient	1.9.0-beta.1	OpenTelemetry authors	<a href="https://opentelemetry.io/">https://opentelemetry.io/</a>
OpenTelemetry.Instrumentation.Wcf	1.0.0-rc.17	OpenTelemetry authors	<a href="https://opentelemetry.io/">https://opentelemetry.io/</a>
Oracle.ManagedDataAccess.Core	2.19.220	Oracle	
Otp.NET	1.3.0	Kyle Spearrin	<a href="https://github.com/kspearrin/Otp.NET">https://github.com/kspearrin/Otp.NET</a>
ReachFramework		Microsoft	
Riok.Mapperly	3.5.1	Mapperly Contributors, Lars Tönz, Manuel Allenspach	<a href="https://mapperly.riok.app/">https://mapperly.riok.app/</a>
SignLib		PFU LIMITED	
SkiaSharp	2.88.6	Microsoft	<a href="https://go.microsoft.com/fwlink/?linkid=868515">https://go.microsoft.com/fwlink/?linkid=868515</a>
SolrNet	1.1.22		
SolrNet.Core	1.1.22		
StrongNamer	0.2.5	Daniel Plaisted	<a href="https://github.com/dsplaisted/strongnamer">https://github.com/dsplaisted/strongnamer</a>
TimeZoneConverter	6.0.1	Matt Johnson-Pint	<a href="https://github.com/mattjohnsonpint/TimeZoneConverter">https://github.com/mattjohnsonpint/TimeZoneConverter</a>
wNVhtmltopdf		winnovative	
wNVhtmltopdf	15.0.0	winnovative	

## 2. BPS Portal

Libraries used in C# code by BPS Portal.

Library	Version	Author	Project Link
AspNetCore.HealthChecks.SqlServer	8.0.2	Xabaril Contributors	<a href="https://github.com/Xabaril/AspNetCore.Diagnostics.HealthChecks">https://github.com/Xabaril/AspNetCore.Diagnostics.HealthChecks</a>
AutoMapper	12.0.1	Jimmy Bogard	<a href="https://automapper.org/">https://automapper.org/</a>
CommandLineParser	2.9.1	gsscoder, nemec,ericnewton76,moh-hassan	<a href="https://github.com/commandlineparser/commandline">https://github.com/commandlineparser/commandline</a>
IdentityModel	6.0.0	Dominick Baier,Brock Allen	<a href="https://github.com/IdentityModel/IdentityModel">https://github.com/IdentityModel/IdentityModel</a>
itextsharp		iText	<a href="https://github.com/itext/itextsharp">https://github.com/itext/itextsharp</a>
ITHit.Server.Core	10.1.8967	IT Hit LTD	<a href="https://www.webdavsystem.com/server/">https://www.webdavsystem.com/server/</a>
ITHit.WebDAV.Server	10.1.8967	IT Hit LTD	<a href="https://www.webdavsystem.com/server/">https://www.webdavsystem.com/server/</a>
ITHit.WebDAV.Server.Core	10.1.8967	IT Hit LTD	<a href="https://www.webdavsystem.com/server/">https://www.webdavsystem.com/server/</a>
JSNLog	3.0.1	Mattijs Perdeck	<a href="http://jsnlog.com/">http://jsnlog.com/</a>
MimeTypes	2.4.0	Kristian Hellang	<a href="https://github.com/khellang/MimeTypes">https://github.com/khellang/MimeTypes</a>
MyGeneration.dOODads	8.0.0	Open Source	
NLog	5.3.2	Jarek Kowalski,Kim Christensen, Julian Verdurmen	<a href="https://nlog-project.org/">https://nlog-project.org/</a>
NLog.Database	5.3.2	Jarek Kowalski,Kim Christensen, Julian Verdurmen	<a href="https://nlog-project.org/">https://nlog-project.org/</a>
NLog.Extensions.Logging	5.3.11	Microsoft,Julian Verdurmen	<a href="https://github.com/NLog/NLog.Extensions.Logging">https://github.com/NLog/NLog.Extensions.Logging</a>
NLog.Web.AspNetCore	5.3.11	Julian Verdurmen	<a href="https://github.com/NLog/NLog.Web">https://github.com/NLog/NLog.Web</a>
OpenTelemetry.Exporter.Prometheus.AspNetCore	1.9.0-beta.2	OpenTelemetry Authors	<a href="https://opentelemetry.io/">https://opentelemetry.io/</a>
OpenTelemetry.Extensions.Hosting	1.9.0	OpenTelemetry Authors	<a href="https://opentelemetry.io/">https://opentelemetry.io/</a>
OpenTelemetry.Instrumentation.AspNetCore	1.9.0	OpenTelemetry authors	<a href="https://opentelemetry.io/">https://opentelemetry.io/</a>
Scrutor	4.2.2	Kristian Hellang	<a href="https://github.com/khellang/Scrutor">https://github.com/khellang/Scrutor</a>

Swashbuckle.AspNetCore.SwaggerGen	6.5.0	Swashbuckle.AspNetCore.SwaggerGen	<a href="https://github.com/domaindrivendev/Swashbuckle.AspNetCore">https://github.com/domaindrivendev/Swashbuckle.AspNetCore</a>
Swashbuckle.AspNetCore.SwaggerUI	6.5.0	Swashbuckle.AspNetCore.SwaggerUI	<a href="https://github.com/domaindrivendev/Swashbuckle.AspNetCore">https://github.com/domaindrivendev/Swashbuckle.AspNetCore</a>
Unity	5.11.10	Unity Container Project	<a href="https://github.com/unitycontainer/unity">https://github.com/unitycontainer/unity</a>
UriTemplate.Core		Jakub Pierewoj	<a href="https://www.nuget.org/packages/UriTemplate.Core">https://www.nuget.org/packages/UriTemplate.Core</a>
WnvHtmlToPdf_NetCore		Winnovative Software Solutions	

### 3. Designer Studio

Libraries used in C# code by Designer Studio.

Library	Version	Author	Project Link
Clowd.Squirrel	2.9.42	Anaïs Betts, Caelan Saylor, GitHub, others	<a href="https://github.com/clowd/Clowd.Squirrel">https://github.com/clowd/Clowd.Squirrel</a>
DeltaCompressionDotNet	1.1.0	ta.speot.is	
DevExpress.BonusSkins.v16.1	16.1.6	Developer Express Inc.	<a href="https://www.devexpress.com/products/net/controls/windows/">https://www.devexpress.com/products/net/controls/windows/</a>
DevExpress.Data.v16.1	16.1.6	Developer Express Inc.	<a href="https://www.devexpress.com/products/net/controls/windows/">https://www.devexpress.com/products/net/controls/windows/</a>
DevExpress.DataAccess.v16.1	16.1.6	Developer Express Inc.	<a href="https://www.devexpress.com/products/net/controls/windows/">https://www.devexpress.com/products/net/controls/windows/</a>
DevExpress.DataAccess.v16.1.UI	16.1.6	Developer Express Inc.	<a href="https://www.devexpress.com/products/net/controls/windows/">https://www.devexpress.com/products/net/controls/windows/</a>
DevExpress.Images.v16.1	16.1.6	Developer Express Inc.	<a href="https://www.devexpress.com/products/net/controls/windows/">https://www.devexpress.com/products/net/controls/windows/</a>
DevExpress.Office.v16.1.Core	16.1.6	Developer Express Inc.	<a href="https://www.devexpress.com/products/net/controls/windows/">https://www.devexpress.com/products/net/controls/windows/</a>
DevExpress.Printing.v16.1.Core	16.1.6	Developer Express Inc.	<a href="https://www.devexpress.com/products/net/controls/windows/">https://www.devexpress.com/products/net/controls/windows/</a>
DevExpress.RichEdit.v16.1.Core	16.1.6	Developer Express Inc.	<a href="https://www.devexpress.com/products/net/controls/windows/">https://www.devexpress.com/products/net/controls/windows/</a>
DevExpress.Utils.v16.1	16.1.6	Developer Express Inc.	<a href="https://www.devexpress.com/products/net/controls/windows/">https://www.devexpress.com/products/net/controls/windows/</a>
DevExpress.Utils.v16.1.UI	16.1.6	Developer Express Inc.	<a href="https://www.devexpress.com/products/net/controls/windows/">https://www.devexpress.com/products/net/controls/windows/</a>
DevExpress.XtraBars.v16.1	16.1.6	Developer Express Inc.	<a href="https://www.devexpress.com/products/net/controls/windows/">https://www.devexpress.com/products/net/controls/windows/</a>
DevExpress.XtraEditors.v16.1	16.1.6	Developer Express Inc.	<a href="https://www.devexpress.com/products/net/controls/windows/">https://www.devexpress.com/products/net/controls/windows/</a>
DevExpress.XtraGrid.v16.1	16.1.6	Developer Express Inc.	<a href="https://www.devexpress.com/products/net/controls/windows/">https://www.devexpress.com/products/net/controls/windows/</a>
DevExpress.XtraLayout.v16.1	16.1.6	Developer Express Inc.	<a href="https://www.devexpress.com/products/net/controls/windows/">https://www.devexpress.com/products/net/controls/windows/</a>
DevExpress.XtraNavBar.v16.1	16.1.6	Developer Express Inc.	<a href="https://www.devexpress.com/products/net/controls/windows/">https://www.devexpress.com/products/net/controls/windows/</a>
DevExpress.XtraPrinting.v16.1	16.1.6	Developer Express Inc.	<a href="https://www.devexpress.com/products/net/controls/windows/">https://www.devexpress.com/products/net/controls/windows/</a>
DevExpress.XtraRichEdit.v16.1	16.1.6	Developer Express Inc.	<a href="https://www.devexpress.com/products/net/controls/windows/">https://www.devexpress.com/products/net/controls/windows/</a>
DevExpress.XtraRichEdit.v16.1.Extensions	16.1.6	Developer Express Inc.	<a href="https://www.devexpress.com/products/net/controls/windows/">https://www.devexpress.com/products/net/controls/windows/</a>
DevExpress.XtraTreeList.v16.1	16.1.6	Developer Express Inc.	<a href="https://www.devexpress.com/products/net/controls/windows/">https://www.devexpress.com/products/net/controls/windows/</a>
Expression.Blend.Sdk	1.0.2	Microsoft	
Mono.Cecil	0.9.6.1	Jb Evain	<a href="http://github.com/jbevain/cecil/">http://github.com/jbevain/cecil/</a>
NuGet.Squirrel		Open Source	<a href="https://www.nuget.org/packages/squirrel.windows/">https://www.nuget.org/packages/squirrel.windows/</a>

PDFSignDll	8.6.0	Syncfusion	
PowerCollections	1.0.3708	Wintellect	<a href="https://github.com/timdetering/Wintellect.PowerCollections">https://github.com/timdetering/Wintellect.PowerCollections</a>
SharpCompress	0.32.2	Adam Hathcock	<a href="https://github.com/adamhathcock/sharpcompress">https://github.com/adamhathcock/sharpcompress</a>
SharpYaml	1.6.5	Alexandre Mutel	<a href="https://github.com/xoofx/SharpYaml">https://github.com/xoofx/SharpYaml</a>
Splat	1.6.2	Paul Betts	<a href="https://github.com/paulbetts/splat">https://github.com/paulbetts/splat</a>
WinFormHtmlEditor		SpiceLogic	<a href="https://www.spicelogic.com/docs/WinHTMLEditorControl">https://www.spicelogic.com/docs/WinHTMLEditorControl</a>



## 4. Workflow Service

Libraries used in C# code by WEBCON BPS Workflow Service.

Library	Version	Author	Project Link
OpenTelemetry.Exporter.Prometheus.HttpListener	1.9.0-beta.2	OpenTelemetry Authors	<a href="https://opentelemetry.io/">https://opentelemetry.io/</a>
Unity.Abstractions	5.11.1	Unity Open Source Project	<a href="https://github.com/unitycontainer">https://github.com/unitycontainer</a>
Unity.Container	5.11.1	Unity Open Source Project	<a href="https://github.com/unitycontainer/unity">https://github.com/unitycontainer/unity</a>
Unity.RegistrationByConvention	5.11.1	Unity Open Source Project	<a href="https://github.com/unitycontainer/registration-by-convention">https://github.com/unitycontainer/registration-by-convention</a>
Unity.Wcf	5.11.1	Unity Open Source Project	<a href="https://github.com/unitycontainer/wcf">https://github.com/unitycontainer/wcf</a>

## 5. Installer

Libraries used in C# code by WEBCON BPS Installer.

Library	Version	Author	Project Link
BootstrapperCore	3.0.0	wixtoolset	<a href="https://wixtoolset.org/docs/wix3/">https://wixtoolset.org/docs/wix3/</a>
CommandLineParser	2.7.82	gsscoder,nemec, ericnewton76	<a href="https://github.com/commandlineparser/commandline">https://github.com/commandlineparser/commandline</a>
WixSharp	1.13.0	Oleg Shilo	<a href="https://wixsharp.codeplex.com/">https://wixsharp.codeplex.com/</a>
WixSharp.bin	1.13.0	Oleg Shilo	<a href="https://wixsharp.codeplex.com/">https://wixsharp.codeplex.com/</a>
WixSharp.Msi	1.13.0	Oleg Shilo	<a href="https://github.com/oleg-shilo/wixsharp/tree/master">https://github.com/oleg-shilo/wixsharp/tree/master</a>
WixSharp.UI	1.13.0	Oleg Shilo	<a href="https://github.com/oleg-shilo/wixsharp/tree/master">https://github.com/oleg-shilo/wixsharp/tree/master</a>
WixSharp.wix.bin	3.11.0	Oleg Shilo	<a href="https://wixsharp.codeplex.com/">https://wixsharp.codeplex.com/</a>
YamlDotNet		Antoine Aubry	<a href="https://github.com/aaubry/YamlDotNet">https://github.com/aaubry/YamlDotNet</a>

## 6. Add-Ins

Libraries used in C# code by Add-Ins.

Library	Version	Author	Project Link
MSBuildTasks	1.4.0.45	Paul Welter	<a href="https://github.com/loresoft/msbuildtasks/">https://github.com/loresoft/msbuildtasks/</a>
Newtonsoft.Json	13.0.2	James Newton-King	<a href="https://www.newtonsoft.com/json">https://www.newtonsoft.com/json</a>
NodaTime	2.4.4	Jon Skeet	<a href="http://nodatime.org/">http://nodatime.org/</a>
stdole	7.0.3300	Microsoft, VisualStudioExtensibility	<a href="http://aka.ms/vsxtensibility">http://aka.ms/vsxtensibility</a>