

WEBCON **BPS 2024 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	https://products.aspose.com/barcode/net
Aspose.Cells	23.11.0	Aspose	https://products.aspose.com/cells/net
Aspose.Email	23.10.0	Aspose	https://products.aspose.com/email/net
Aspose.PDF	23.11.0	Aspose	https://products.aspose.com/pdf/net
Aspose.Words	23.11.0	Aspose	https://products.aspose.com/words/net
Azure.Communication.Sms	1.0.1	Microsoft	https://github.com/Azure/azure-sdk-for-net/blob/Azure.Communication.Sms_1.0.1/sdk/communication/Azure.Communication.Sms/README.md
Azure.Identity	1.11.4	Microsoft	https://github.com/Azure/azure-sdk-for-net/blob/Azure.Identity_1.11.4/sdk/identity/Azure.Identity/README.md
BouncyCastle.Crypto	1.9.0	Legion of the Bouncy Castle Inc.	https://bouncycastle.org/
BouncyCastle.Crypto		Legion of the Bouncy Castle Inc.	https://bouncycastle.org/
DocumentFormat.OpenXml	2.16.0	Open Source	https://github.com/OfficeDev/Open-XML-SDK
DotNetZip	1.16.0	Henrik/Dino Chiesa	https://github.com/haf/DotNetZip.Semverd
DTKBarReader5.dll	5.0.28	DTK Software	https://www.dtksoft.com/barcode
FastCache.Cached	1.8.1	neon-sunset	https://github.com/neon-sunset/fast-cache
FirebaseAdmin	2.4.0	Google Inc.	https://github.com/Firebase/firebase-admin-dotnet
Google.Apis	1.52.0	Google LLC	https://github.com/googleapis/google-api-dotnet-client
Google.Apis.Auth	1.52.0	Google LLC	https://github.com/googleapis/google-api-dotnet-client
Google.Apis.Core	1.52.0	Google LLC	https://github.com/googleapis/google-api-dotnet-client
HtmlAgilityPack	1.11.59	ZZZ Projects, Simon Mourrier, Jeff Klawiter, Stephan Grell	http://html-agility-pack.net/
Lib.AspNetCore.ServerSentEvents	9.0.0	Tomasz Pęczek	https://github.com/tpeczek/Lib.AspNetCore.ServerSentEvents
Meziantou.Analyzer	2.0.158	Meziantou	https://github.com/meziantou/Meziantou.Analyzer
MimeKit	4.7.1	Jeffrey Stedfast	https://www.mimekit.net/
MyGeneration.dOODads		Open Source	
Newtonsoft.Json	13.0.3	James Newton-King	https://www.newtonsoft.com/json
Newtonsoft.Json	13.0.0	OpenSource/Newtonsoft	https://github.com/JamesNK/Newtonsoft.Json

NodaTime	3.1.9	Jon Skeet	https://nodatime.org/
OpenTelemetry.Exporter. OpenTelemetryProtocol	1.9.0	OpenTelemetry Authors	https://opentelemetry.io/
OpenTelemetry.Instrumentation.EventCounters	1.5.1-alpha.1	OpenTelemetry authors	https://opentelemetry.io/
OpenTelemetry.Instrumentation.Http	1.9.0	OpenTelemetry authors	https://opentelemetry.io/
OpenTelemetry.Instrumentation.Process	0.5.0-beta.6	OpenTelemetry authors	https://opentelemetry.io/
OpenTelemetry.Instrumentation.Runtime	1.9.0	OpenTelemetry authors	https://opentelemetry.io/
OpenTelemetry.Instrumentation.SqlClient	1.9.0-beta.1	OpenTelemetry authors	https://opentelemetry.io/
OpenTelemetry.Instrumentation.Wcf	1.0.0-rc.17	OpenTelemetry authors	https://opentelemetry.io/
Oracle.ManagedDataAccess.Core	2.19.220	Oracle	
Otp.NET	1.3.0	Kyle Spearrin	https://github.com/kspearrin/Otp.NET
ReachFramework		Microsoft	
Riok.Mapperly	3.5.1	Mapperly Contributors, Lars Tönz, Manuel Allenspach	https://mapperly.riok.app/
SignLib		PFU LIMITED	
SkiaSharp	2.88.6	Microsoft	https://go.microsoft.com/fwlink/?linkid=868515
SolrNet	1.1.22		
SolrNet.Core	1.1.22		
StrongNamer	0.2.5	Daniel Plaisted	https://github.com/dsplaisted/strongnamer
TimeZoneConverter	6.0.1	Matt Johnson-Pint	https://github.com/mattjohnsonpint/TimeZoneConverter
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	Xabariil Contributors	https://github.com/Xabariil/AspNetCore.Diagnostics.HealthChecks
AutoMapper	12.0.1	Jimmy Bogard	https://automapper.org/
CommandLineParser	2.9.1	gsscoder,nemec,ericeyton76,moh-hassan	https://github.com/commandlineparser/commandline
IdentityModel	6.0.0	Dominick Baier,Brock Allen	https://github.com/IdentityModel/IdentityModel
itextsharp		iText	https://github.com/itext/itextsharp
ITHit.Server.Core	10.1.8967	IT Hit LTD	https://www.webdavsystem.com/server/
ITHit.WebDAV.Server	10.1.8967	IT Hit LTD	https://www.webdavsystem.com/server/
ITHit.WebDAV.Server.Core	10.1.8967	IT Hit LTD	https://www.webdavsystem.com/server/
JSNLog	3.0.1	Mattijs Perdeck	http://jsnlog.com/
MimeTypes	2.4.0	Kristian Hellang	https://github.com/khellang/MimeTypes
MyGeneration.dOODads	8.0.0	Open Source	
NLog	5.3.2	Jarek Kowalski,Kim Christensen,Julian Verdurmen	https://nlog-project.org/
NLog.Database	5.3.2	Jarek Kowalski,Kim Christensen,Julian Verdurmen	https://nlog-project.org/
NLog.Extensions.Logging	5.3.11	Microsoft,Julian Verdurmen	https://github.com/NLog/NLog.Extensions.Logging
NLog.Web.AspNetCore	5.3.11	Julian Verdurmen	https://github.com/NLog/NLog.Web
OpenTelemetry.Exporter.Prometheus.AspNetCore	1.9.0-beta.2	OpenTelemetry Authors	https://opentelemetry.io/
OpenTelemetry.Extensions.Hosting	1.9.0	OpenTelemetry Authors	https://opentelemetry.io/
OpenTelemetry.Instrumentation.AspNetCore	1.9.0	OpenTelemetry authors	https://opentelemetry.io/
Scrutor	4.2.2	Kristian Hellang	https://github.com/khellang/Scrutor
Swashbuckle.AspNetCore.SwaggerGen	6.5.0	Swashbuckle.AspNetCore.SwaggerGen	https://github.com/domaindrivendev/Swashbuckle.AspNetCore
Swashbuckle.AspNetCore.SwaggerUI	6.5.0	Swashbuckle.AspNetCore.SwaggerUI	https://github.com/domaindrivendev/Swashbuckle.AspNetCore
Unity	5.11.10	Unity Container Project	https://github.com/unitycontainer/unity
UriTemplate.Core		Jakub Pierewoj	https://www.nuget.org/packages/UriTemplate.Core
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	Anais Betts, Caelan Saylor, GitHub, others	https://github.com/clowd/Clowd.Squirrel
DeltaCompressionDotNet	1.1.0	ta.speot.is	
DevExpress.BonusSkins.v16.1	16.1.6	Developer Express Inc.	https://www.devexpress.com/products/net/controls/winforms/
DevExpress.Data.v16.1	16.1.6	Developer Express Inc.	https://www.devexpress.com/products/net/controls/winforms/
DevExpress.DataAccess.v16.1	16.1.6	Developer Express Inc.	https://www.devexpress.com/products/net/controls/winforms/
DevExpress.DataAccess.v16.1.UI	16.1.6	Developer Express Inc.	https://www.devexpress.com/products/net/controls/winforms/
DevExpress.Images.v16.1	16.1.6	Developer Express Inc.	https://www.devexpress.com/products/net/controls/winforms/
DevExpress.Office.v16.1.Core	16.1.6	Developer Express Inc.	https://www.devexpress.com/products/net/controls/winforms/
DevExpress.Printing.v16.1.Core	16.1.6	Developer Express Inc.	https://www.devexpress.com/products/net/controls/winforms/
DevExpress.RichEdit.v16.1.Core	16.1.6	Developer Express Inc.	https://www.devexpress.com/products/net/controls/winforms/
DevExpress.Utils.v16.1	16.1.6	Developer Express Inc.	https://www.devexpress.com/products/net/controls/winforms/
DevExpress.Utils.v16.1.UI	16.1.6	Developer Express Inc.	https://www.devexpress.com/products/net/controls/winforms/
DevExpress.XtraBars.v16.1	16.1.6	Developer Express Inc.	https://www.devexpress.com/products/net/controls/winforms/
DevExpress.XtraEditors.v16.1	16.1.6	Developer Express Inc.	https://www.devexpress.com/products/net/controls/winforms/
DevExpress.XtraGrid.v16.1	16.1.6	Developer Express Inc.	https://www.devexpress.com/products/net/controls/winforms/
DevExpress.XtraLayout.v16.1	16.1.6	Developer Express Inc.	https://www.devexpress.com/products/net/controls/winforms/
DevExpress.XtraNavBar.v16.1	16.1.6	Developer Express Inc.	https://www.devexpress.com/products/net/controls/winforms/
DevExpress.XtraPrinting.v16.1	16.1.6	Developer Express Inc.	https://www.devexpress.com/products/net/controls/winforms/
DevExpress.XtraRichEdit.v16.1	16.1.6	Developer Express Inc.	https://www.devexpress.com/products/net/controls/winforms/
DevExpress.XtraRichEdit.v16.1.Extensions	16.1.6	Developer Express Inc.	https://www.devexpress.com/products/net/controls/winforms/
DevExpress.XtraTreeList.v16.1	16.1.6	Developer Express Inc.	https://www.devexpress.com/products/net/controls/winforms/
Expression.Blend.Sdk	1.0.2	Microsoft	
Mono.Cecil	0.9.6.1	Jb Evain	http://github.com/jbevain/cecil/
NuGet.Squirrel		Open Source	https://www.nuget.org/packages/squirrel.windows/
PDFSignDll	8.6.0	Syncfusion	

PowerCollections	1.0.3708	Wintellect	https://github.com/timdetering/Wintellect.PowerCollections
SharpCompress	0.32.2	Adam Hathcock	https://github.com/adamhathcock/sharpcompress
SharpYaml	1.6.5	Alexandre Mutel	https://github.com/xoofx/SharpYaml
Splat	1.6.2	Paul Betts	https://github.com/paulbetts/splat
WinFormHtmlEditor		SpiceLogic	https://www.spicelogic.com/docs/WinHTMLEditorControl

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	https://opentelemetry.io/
Unity.Abstractions	5.11.1	Unity Open Source Project	https://github.com/unitycontainer
Unity.Container	5.11.1	Unity Open Source Project	https://github.com/unitycontainer/unity
Unity.RegistrationByConvention	5.11.1	Unity Open Source Project	https://github.com/unitycontainer/registration-by-convention
Unity.Wcf	5.11.1	Unity Open Source Project	https://github.com/unitycontainer/wcf

5. Installer

Libraries used in C# code by WEBCON BPS Installer.

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

6. Add-Ins

Libraries used in C# code by Add-Ins.

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