Sage 300 Web Screens SDK

Upgrade Guide for 2025.2 to 2026.0

September 2025

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1. Overview

This document is intended to serve as a guide for illustrating how to use the Sage 300 Upgrade Wizard to upgrade Visual Studio solutions and projects that are compatible with the Web Screens SDK 2025.2 to Web Screens SDK 2026.0

The wizard will upgrade the solution and projects in following steps:

* Synchronize Kendo Files
* Synchronize Web Files
* Synchronize Accpac Libraries
  1. Required Version of Sage 300

To get started, install Sage 300 2026.0 with the Web Screens option selected.

1. Installing the Wizard

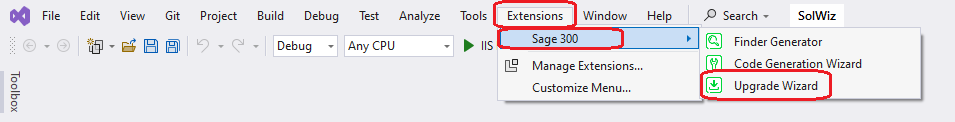
The Upgrade Wizard is a Visual Studio Plugin and is compatible with Visual Studio 2022. The Sage 300 Upgrade Wizard tool is bundled with the Sage 300 Wizard Package (Code Generation Wizard, Finder Generator, Upgrade Wizard, Language Wizard, and Sync Assemblies Wizard)

**Note:** If the previous Sage 300 Wizard Package is installed, it must be uninstalled first (Visual Studio - Tools, Extensions, Uninstall option, select the Sage 300 Wizard Package to uninstall).

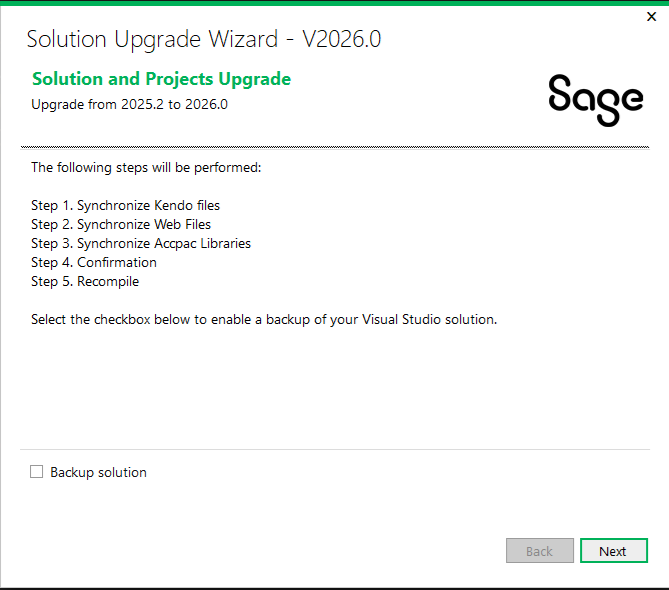
To install the utility:

1. Run Sage.CA.SBS.ERP.Sage300.WizardPackage.vsix.
2. Select the Install the Wizard Package option.
3. Note: Installing this package installs the above-mentioned wizards since they are combined in the same package.
4. Accessing the Wizard

The wizard is embedded in Visual Studio 2022 as a plugin. To open it, click the **Extensions** menu on the Visual Studio toolbar, select the **Sage 300** menu, and click **Upgrade** Wizard.



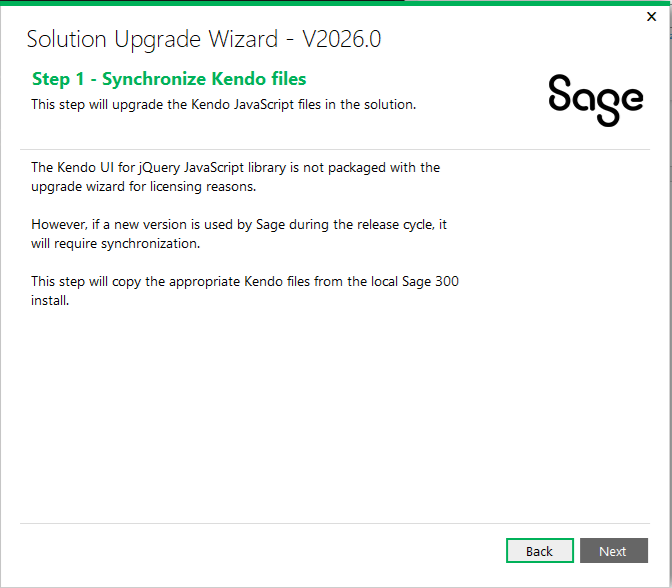
1. Using the Wizard

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**Important:** Please backup the solution and projects before proceeding with the upgrade. If you would like the Upgrade Wizard to make a backup of your solution, click the ‘Backup solution’ checkbox.

Click **Next** to continue to the next step.

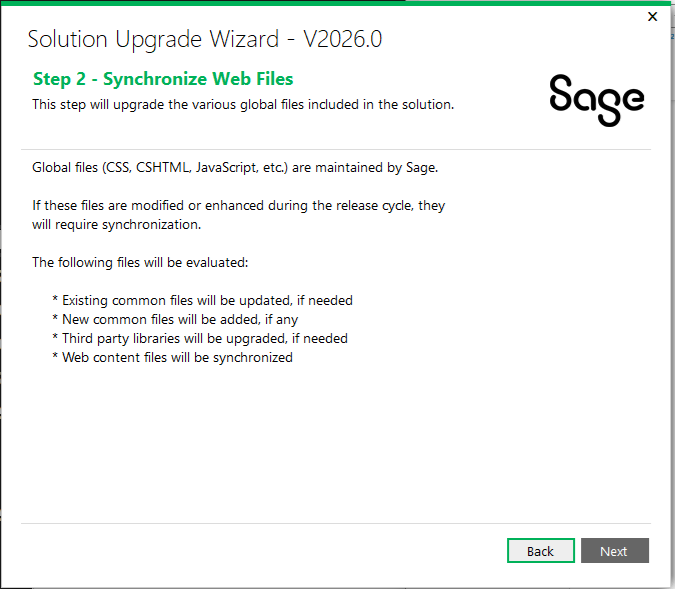
* 1. Step 1 – Synchronize Kendo Files



A copy of the Kendo UI for jQuery JavaScript library will be copied into the solution from the local Sage 300 installation.

Click Next to proceed or Back to go back to the previous step.

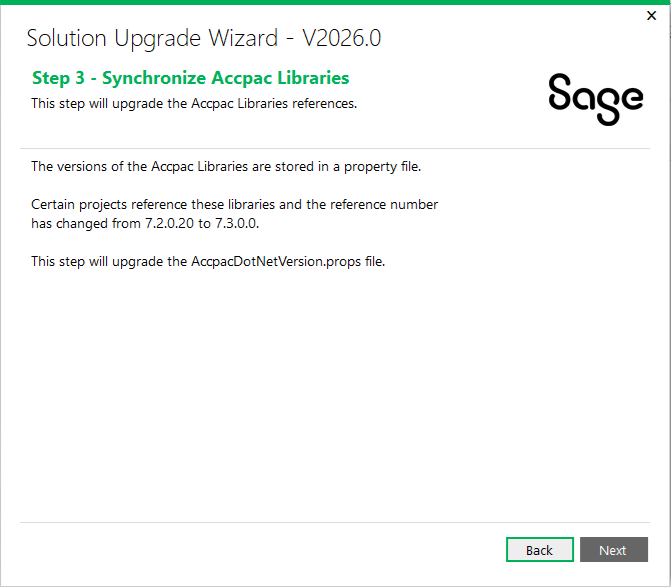
* 1. Step 2 – Synchronize Web Files



Contents in the Web Projects Areas\Shared, Areas\Core, Views, Scripts, Content, and Assets folders are upgraded in this step.

Click Next to proceed or Back to go back to the previous step.

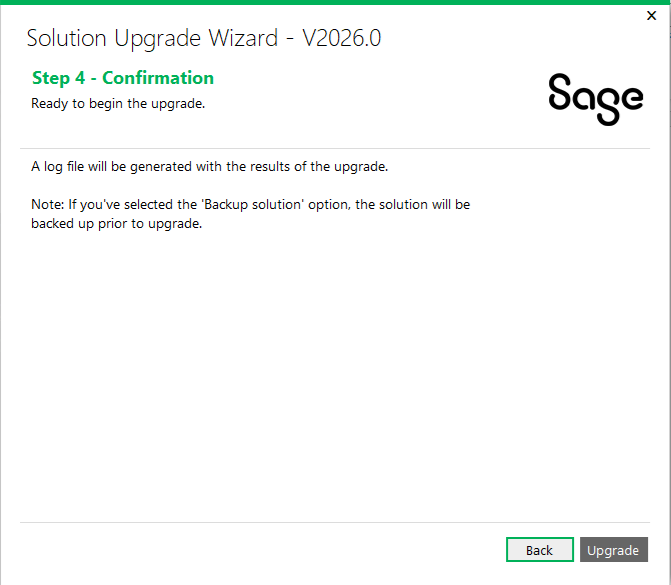
* 1. Step 3 – Synchronize Accpac Libraries



Accpac libraries are updated from 7.2.0.20 to 7.3.0.0.

Click Next to proceed or Back to go back to the previous step.

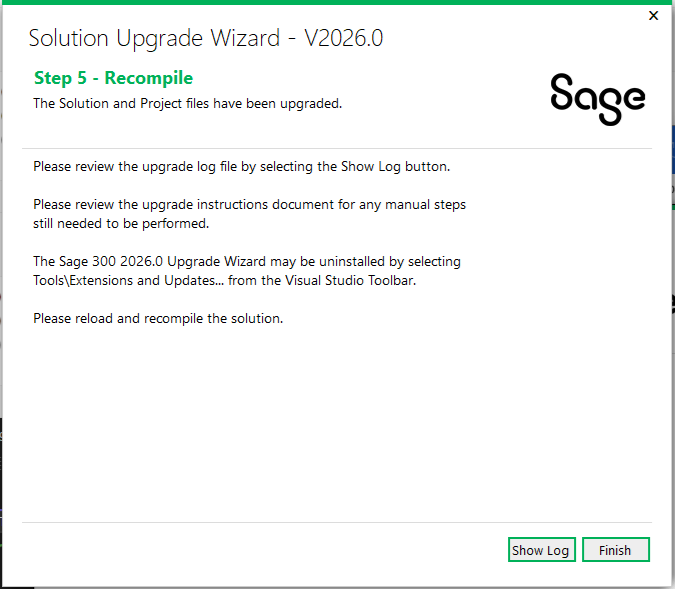
* 1. Step 4 – Confirmation



The solution and projects are ready to be upgraded.

Click Upgrade to upgrade the solution and projects or Back to go back to the previous step.

* 1. Step 5 – Recompile



Click **Show Log** to display log file. The log file displays what files have been upgraded or modified. At this point, the upgrade is now complete.

Click **Finish** to exit the wizard.

After the solution that supported Sage 300 2025.2 has been upgraded to support 2026.0, you need to reload and recompile the solution. For compilation troubleshooting, see the final section.

**Note:** This upgrade has manual steps that must be completed before compiling. Please see the next section to complete the manual steps.

**Note:** Before running the new solution, clear the browser cache to replace cached JavaScript and CSS files.

* 1. Step 6 – Manual Steps Required

The Upgrade Wizard for 2026.0 could not automatically make changes to all the files in the solution that require modification. Therefore, developer intervention is required for numerous files.

The web screen samples in the Web SDK’s ***samples*** folder have been updated and are a great source to see the resulting files after the changes have been made. Some of the modified files can be copied from the samples to override content in the solution files. Be sure the solution has been backed up in case any developer added entries need to be restored.

* + 1. Business Repository – app.config File

The app.config file contains binding redirects for the included packages in the assembly.

Copy the **app.config** file’s entire **<configuration>** section from any of the sample’s Business Repository folders (i.e., samples\ClearStatistics\ValuedPartner.TU.BusinessRepository\app.config) and overwrite the app.config file’s <configuration> section in the Business Repository project.

Note: Examine the app.config file prior to overwriting to ensure any partner added redirect statements are manually added once the copy is complete.

* + 1. Business Repository – packages.config File

The packages.config file contains the packages in the assembly.

Copy the **packages.config** file’s **<packages>** section from any of the sample’s Business Repository folders (i.e., samples\ClearStatistics\ValuedPartner.TU.BusinessRepository\packages.config) and overwrite the packages.config file’s <packages> section in the Business Repository project.

Note: Examine the packages.config file prior to overwriting to ensure any partner added packages are manually added once the copy is complete.

* + 1. Services – app.config File

The app.config file contains binding redirects for the included packages in the assembly.

Copy the **app.config** file’s **<configuration>** section from any of the sample’s Services folders (i.e., samples\ClearStatistics\ValuedPartner.TU.Services\app.config) and overwrite the app.config file’s <configuration> section in the Services project.

Note: Examine the app.config file prior to overwriting to ensure any partner added redirect statements are manually added once the copy is complete.

* + 1. Services – packages.config File

The packages.config file contains the packages in the assembly.

Copy the **packages.config** file’s **<packages>** section from any of the sample’s Services folders (i.e., samples\ClearStatistics\ValuedPartner.TU.Services\packages.config) and overwrite the packages.config file’s <packages> section in the Services project.

Note: Examine the packages.config file prior to overwriting to ensure any partner added packages are manually added once the copy is complete.

* + 1. Web – packages.config File

The packages.config file contains the packages in the assembly.

Copy the **packages.config** file’s **<configuration>** section from any of the sample’s Web folders (i.e., samples\ClearStatistics\ValuedPartner.TU.Web\packages.config) and overwrite the packages.config file’s <configuration> section in the Web project.

Note: Examine the packages.config file prior to overwriting to ensure any partner added packages are manually added once the copy is complete.

* + 1. Web – web.config File

The web.config file contains binding redirects for the included packages in the assembly.

Copy the **web.config** file’s **<configuration>** section from any of the sample’s web.config files (i.e., samples\ClearStatistics\ValuedPartner.TU.Web\packages.config) and overwrite the existing web.config file’s <configuration> section of the Web project.

Note: Examine the <assemblyBinding> tag prior to overwriting to ensure any partner added packages are manually added once the copy is complete.

* + 1. Business Repository – \*.csproj File

In the previous release, only 1 Nuget package was altered and therefore the modification was straight-forward. However, in this release, numerous Nuget Packages were changed and better use of references to the local Sage 300 installation files was implemented. Therefore, the modifications to the solution’s project files (\*.csproj) will be a multi-step process since Visual Studio has an unpredictable pattern of saving Item Groups in the project file which makes automating this process difficult.

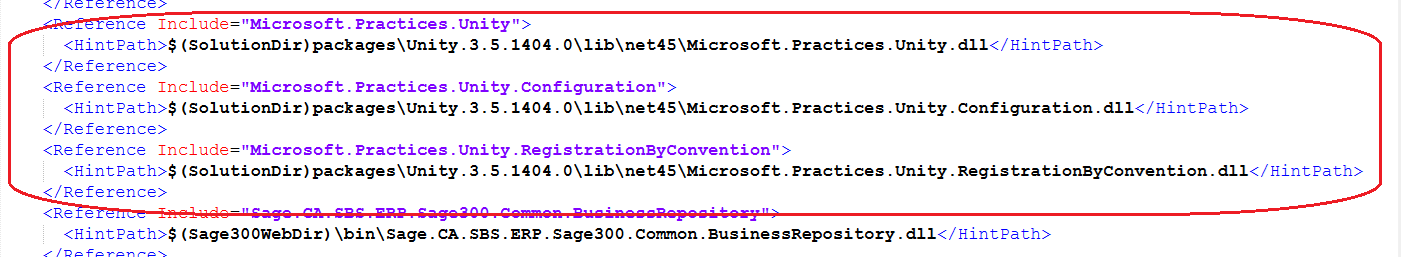
1. Ensure the Business Repository’s \*.csproj file is backed up

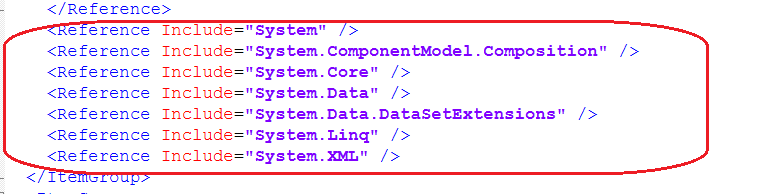
2. Open the Business Repository’s \*.csproj in the editor of your choice

3. The <ItemGroup> tag contains ***References***, ***ProjectReferences***, ***Folders***, and other similar tags.

4. Delete the items that are **Reference** and NOT referencing ***Sage.CA.SBS.ERP***… assemblies or your partner assemblies.

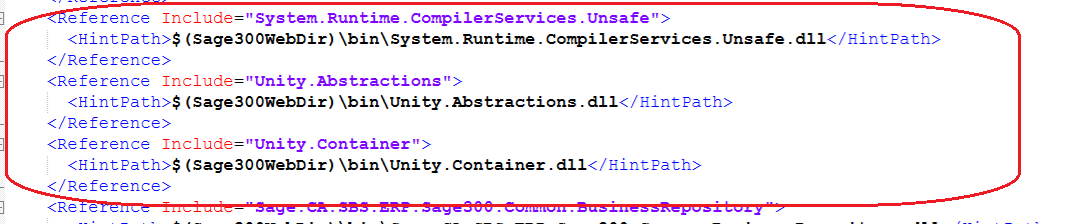
The following example illustrates what was removed from the partner’s Business Repository \*.csproj file:

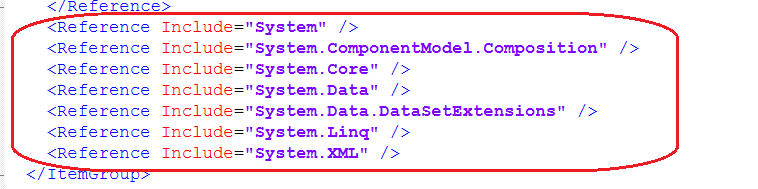




5. In another editor, open the Business Repository’s \*.csproj from one of the SDK samples and copy any ***References*** that are not ***Sage.CA.SBS.ERP***… or any of your partner assemblies.

The following example illustrates what was added back to the partner’s Business Repository \*.csproj file from one of the sample’s Business Repository \*.csproj file:





6. Save the file

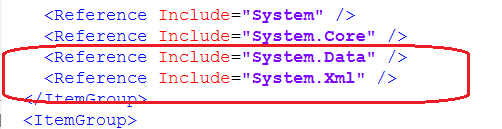
Notes about the changes: In the first example, notice how the **Reference** changed from a package to a local reference. In the second example, notice how there were no changes, and this will not always be the case, but it is good practice for other \*.csproj files.

* + 1. Interfaces – \*.csproj File

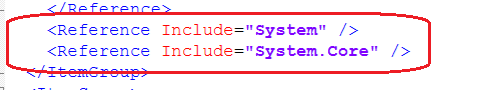
1. Ensure the Interfaces \*.csproj file is backed up

2. Open the Interfaces \*.csproj in the editor of your choice

4. Delete the *System.Data* and *System.Xml* **References**.



The following example shows the only references remaining after the removal:



6. Save the file

Notes about the change: In this example, notice how the change was simply removing two references.

* + 1. Models – \*.csproj File

There are not any changes required for this project file.

* + 1. Resources – \*.csproj File

There are not any changes required for this project file.

* + 1. Services – \*.csproj File

In the previous release, only 1 Nuget package was altered and therefore the modification was straight-forward. However, in this release, numerous Nuget Packages were changed and better use of references to the local Sage 300 installation files was implemented. Therefore, the modifications to the solution’s project files (\*.csproj) will be a multi-step process since Visual Studio has an unpredictable pattern of saving Item Groups in the project file which makes automating this process difficult.

1. Ensure the Services\*.csproj file is backed up

2. Open the Services \*.csproj in the editor of your choice

3. The <ItemGroup> tag contains ***References***, ***ProjectReferences***, ***Folders***, and other similar tags.

4. Delete the items that are **Reference** and NOT referencing ***Sage.CA.SBS.ERP***… assemblies or your partner assemblies.

The following example illustrates what was removed from the partner’s Services \*.csproj file:

A screenshot of a computer

AI-generated content may be incorrect.

5. In another editor, open the Services \*.csproj from one of the SDK samples and copy any ***References*** that are not ***Sage.CA.SBS.ERP***… or any of your partner assemblies.

The following example illustrates what was added back to the partner’s Services \*.csproj file from one of the sample’s Services \*.csproj file:

A screenshot of a computer code

AI-generated content may be incorrect.

6. Save the file

Notes about the changes: In this example, notice how the **Reference** changed from a package to a local reference.

* + 1. Web – \*.csproj File

In the previous release, only 1 Nuget package was altered and therefore the modification was straight-forward. However, in this release, numerous Nuget Packages were changed and better use of references to the local Sage 300 installation files was implemented. Therefore, the modifications to the solution’s project files (\*.csproj) will be a multi-step process since Visual Studio has an unpredictable pattern of saving Item Groups in the project file which makes automating this process difficult.

1. Ensure the Web’s \*.csproj file is backed up

2. Open the Web’s \*.csproj in the editor of your choice

3. The <ItemGroup> tag contains ***References***, ***ProjectReferences***, ***Folders***, and other similar tags.

4. Delete the items that are **Reference** and NOT referencing ***Sage.CA.SBS.ERP***… assemblies or your partner assemblies.

The following is a list of the References removed and not an example as there are too many to enumerate of what was removed from the partner’s Web \*.csproj file:

<Reference Include="Antlr3.Runtime">

<HintPath>$(SolutionDir)packages\Antlr.3.5.0.2\lib\Antlr3.Runtime.dll</HintPath>

</Reference>

<Reference Include="CEDataServiceContract">

<HintPath>$(Sage300WebDir)\bin\CEDataServiceContract.dll</HintPath>

<Private>True</Private>

</Reference>

<Reference Include="dotless.Core">

<HintPath>$(SolutionDir)packages\dotless.1.4.0.0\lib\dotless.Core.dll</HintPath>

</Reference>

<Reference Include="EntityFramework">

<HintPath>$(SolutionDir)packages\EntityFramework.6.1.3\lib\net45\EntityFramework.dll</HintPath>

</Reference>

<Reference Include="EntityFramework.SqlServer">

<HintPath>$(SolutionDir)packages\EntityFramework.6.1.3\lib\net45\EntityFramework.SqlServer.dll</HintPath>

</Reference>

<Reference Include="Microsoft.AspNet.SignalR.Core">

<HintPath>$(Sage300WebDir)\bin\Microsoft.AspNet.SignalR.Core.dll</HintPath>

</Reference>

<Reference Include="Microsoft.AspNet.SignalR.SystemWeb">

<HintPath>$(Sage300WebDir)\bin\Microsoft.AspNet.SignalR.SystemWeb.dll</HintPath>

</Reference>

<Reference Include="Microsoft.CSharp" />

<Reference Include="Microsoft.Data.Edm">

<HintPath>$(SolutionDir)packages\Microsoft.Data.Edm.5.6.4\lib\portable-net45+wp8+win8+wpa\Microsoft.Data.Edm.dll</HintPath>

</Reference>

<Reference Include="Microsoft.Owin">

<HintPath>$(SolutionDir)packages\Microsoft.Owin.4.0.1\lib\net45\Microsoft.Owin.dll</HintPath>

</Reference>

<Reference Include="Microsoft.Owin.Host.SystemWeb">

<HintPath>$(SolutionDir)packages\Microsoft.Owin.Host.SystemWeb.2.1.0\lib\net45\Microsoft.Owin.Host.SystemWeb.dll</HintPath>

</Reference>

<Reference Include="Microsoft.Owin.Security">

<HintPath>$(SolutionDir)packages\Microsoft.Owin.Security.3.0.0\lib\net45\Microsoft.Owin.Security.dll</HintPath>

</Reference>

<Reference Include="Microsoft.Practices.EnterpriseLibrary.Common">

<HintPath>$(SolutionDir)packages\EnterpriseLibrary.Common.6.0.1304.0\lib\NET45\Microsoft.Practices.EnterpriseLibrary.Common.dll</HintPath>

</Reference>

<Reference Include="Microsoft.Practices.EnterpriseLibrary.Logging">

<HintPath>$(SolutionDir)packages\EnterpriseLibrary.Logging.6.0.1304.0\lib\NET45\Microsoft.Practices.EnterpriseLibrary.Logging.dll</HintPath>

</Reference>

<Reference Include="Microsoft.Practices.EnterpriseLibrary.TransientFaultHandling">

<HintPath>$(SolutionDir)packages\EnterpriseLibrary.TransientFaultHandling.6.0.1304.0\lib\portable-net45+win+wp8\Microsoft.Practices.EnterpriseLibrary.TransientFaultHandling.dll</HintPath>

</Reference>

<Reference Include="Microsoft.Practices.EnterpriseLibrary.TransientFaultHandling.WindowsAzure.Storage">

<HintPath>$(SolutionDir)packages\EnterpriseLibrary.TransientFaultHandling.WindowsAzure.Storage.6.0.1304.1\lib\NET45\Microsoft.Practices.EnterpriseLibrary.TransientFaultHandling.WindowsAzure.Storage.dll</HintPath>

</Reference>

<Reference Include="Microsoft.Practices.EnterpriseLibrary.WindowsAzure.TransientFaultHandling">

<HintPath>$(SolutionDir)packages\EnterpriseLibrary.WindowsAzure.TransientFaultHandling.5.1.1212.0\lib\NET4\Microsoft.Practices.EnterpriseLibrary.WindowsAzure.TransientFaultHandling.dll</HintPath>

</Reference>

<Reference Include="Microsoft.Practices.TransientFaultHandling.Core">

<HintPath>$(SolutionDir)packages\TransientFaultHandling.Core.5.1.1209.1\lib\NET4\Microsoft.Practices.TransientFaultHandling.Core.dll</HintPath>

</Reference>

<Reference Include="Microsoft.Practices.Unity">

<HintPath>$(SolutionDir)packages\Unity.3.5.1404.0\lib\net45\Microsoft.Practices.Unity.dll</HintPath>

</Reference>

<Reference Include="Microsoft.Practices.Unity.Configuration">

<HintPath>$(SolutionDir)packages\Unity.3.5.1404.0\lib\net45\Microsoft.Practices.Unity.Configuration.dll</HintPath>

</Reference>

<Reference Include="Microsoft.Practices.Unity.Interception">

<HintPath>$(SolutionDir)packages\Unity.Interception.3.0.1304.0\lib\Net45\Microsoft.Practices.Unity.Interception.dll</HintPath>

</Reference>

<Reference Include="Microsoft.Practices.Unity.Interception.Configuration">

<HintPath>$(SolutionDir)packages\Unity.Interception.3.0.1304.0\lib\Net45\Microsoft.Practices.Unity.Interception.Configuration.dll</HintPath>

</Reference>

<Reference Include="Microsoft.Practices.Unity.RegistrationByConvention">

<HintPath>$(SolutionDir)packages\Unity.3.5.1404.0\lib\net45\Microsoft.Practices.Unity.RegistrationByConvention.dll</HintPath>

</Reference>

<Reference Include="Microsoft.Web.Administration">

<Private>True</Private>

<HintPath>$(SolutionDir)packages\Microsoft.Web.Administration.7.0.0.0\lib\net20\Microsoft.Web.Administration.dll</HintPath>

</Reference>

<Reference Include="Microsoft.Web.Infrastructure">

<Private>True</Private>

<HintPath>$(SolutionDir)packages\Microsoft.Web.Infrastructure.1.0.0.0\lib\net40\Microsoft.Web.Infrastructure.dll</HintPath>

</Reference>

<Reference Include="Newtonsoft.Json">

<HintPath>$(SolutionDir)packages\Newtonsoft.Json.13.0.3\lib\net45\Newtonsoft.Json.dll</HintPath>

</Reference>

<Reference Include="Owin">

<HintPath>$(Sage300WebDir)\bin\Owin.dll</HintPath>

</Reference>

<Reference Include="RouteDebugger">

<HintPath>$(Sage300WebDir)\bin\RouteDebugger.dll</HintPath>

</Reference>

<Reference Include="System" />

<Reference Include="System.Buffers">

<HintPath>$(Sage300WebDir)\bin\System.Buffers.dll</HintPath>

</Reference>

<Reference Include="System.ComponentModel.Composition" />

<Reference Include="System.Data" />

<Reference Include="System.Data.DataSetExtensions" />

<Reference Include="System.Data.Services.Client" />

<Reference Include="System.DirectoryServices" />

<Reference Include="System.Drawing" />

<Reference Include="System.IO.Compression" />

<Reference Include="System.Memory">

<HintPath>$(Sage300WebDir)\bin\System.Memory.dll</HintPath>

</Reference>

<Reference Include="System.Net.Http">

</Reference>

<Reference Include="System.Net.Http.Extensions">

<HintPath>$(SolutionDir)packages\Microsoft.Net.Http.2.2.29\lib\net45\System.Net.Http.Extensions.dll</HintPath>

</Reference>

<Reference Include="System.Net.Http.Formatting">

<SpecificVersion>False</SpecificVersion>

<HintPath>$(SolutionDir)packages\Microsoft.AspNet.WebApi.Client.5.2.3\lib\net45\System.Net.Http.Formatting.dll</HintPath>

</Reference>

<Reference Include="System.Net.Http.Primitives">

<HintPath>$(SolutionDir)packages\Microsoft.Net.Http.2.2.29\lib\net45\System.Net.Http.Primitives.dll</HintPath>

</Reference>

<Reference Include="System.Numerics" />

<Reference Include="System.Numerics.Vectors">

<HintPath>$(Sage300WebDir)\bin\System.Numerics.Vectors.dll</HintPath>

</Reference>

<Reference Include="System.Runtime.Caching" />

<Reference Include="System.Runtime.CompilerServices.Unsafe">

<HintPath>$(Sage300WebDir)\bin\System.Runtime.CompilerServices.Unsafe.dll</HintPath>

</Reference>

<Reference Include="System.Runtime.Serialization" />

<Reference Include="System.Security" />

<Reference Include="System.ServiceModel.DomainServices.EntityFramework, Version=4.0.0.0, Culture=neutral, PublicKeyToken=31bf3856ad364e35, processorArchitecture=MSIL" />

<Reference Include="System.ServiceModel.Web" />

<Reference Include="System.Net.Http.WebRequest" />

<Reference Include="System.Spatial">

<HintPath>$(SolutionDir)packages\System.Spatial.5.6.4\lib\net40\System.Spatial.dll</HintPath>

</Reference>

<Reference Include="System.Text.Encodings.Web">

<HintPath>$(Sage300WebDir)\bin\System.Text.Encodings.Web.dll</HintPath>

</Reference>

<Reference Include="System.Threading.Tasks.Extensions">

<HintPath>$(Sage300WebDir)\bin\System.Threading.Tasks.Extensions.dll</HintPath>

</Reference>

<Reference Include="System.ValueTuple">

<HintPath>$(Sage300WebDir)\bin\System.ValueTuple.dll</HintPath>

</Reference>

<Reference Include="System.Web" />

<Reference Include="System.Web.Abstractions" />

<Reference Include="System.Web.DataVisualization" />

<Reference Include="System.ComponentModel.DataAnnotations" />

<Reference Include="System.Web" />

<Reference Include="System.Web.Abstractions" />

<Reference Include="System.Web.ApplicationServices" />

<Reference Include="System.Web.DynamicData" />

<Reference Include="System.Web.Entity" />

<Reference Include="System.Web.Extensions" />

<Reference Include="System.Web.Helpers">

<HintPath>$(SolutionDir)packages\Microsoft.AspNet.WebPages.3.2.3\lib\net45\System.Web.Helpers.dll</HintPath>

</Reference>

<Reference Include="System.Web.Http">

<HintPath>$(SolutionDir)packages\Microsoft.AspNet.WebApi.Core.5.2.3\lib\net45\System.Web.Http.dll</HintPath>

</Reference>

<Reference Include="System.Web.Http.WebHost">

<HintPath>$(SolutionDir)packages\Microsoft.AspNet.WebApi.WebHost.5.2.3\lib\net45\System.Web.Http.WebHost.dll</HintPath>

</Reference>

<Reference Include="System.Web.Mvc">

<HintPath>$(SolutionDir)packages\Microsoft.AspNet.Mvc.5.2.3\lib\net45\System.Web.Mvc.dll</HintPath>

</Reference>

<Reference Include="System.Web.Optimization">

<HintPath>$(SolutionDir)packages\Microsoft.AspNet.Web.Optimization.1.1.3\lib\net40\System.Web.Optimization.dll</HintPath>

</Reference>

<Reference Include="System.Web.Optimization.Less">

<HintPath>$(SolutionDir)packages\System.Web.Optimization.Less.1.3.3\lib\net40\System.Web.Optimization.Less.dll</HintPath>

</Reference>

<Reference Include="System.Web.Razor">

<HintPath>$(SolutionDir)packages\Microsoft.AspNet.Razor.3.2.7\lib\net45\System.Web.Razor.dll</HintPath>

</Reference>

<Reference Include="System.Web.Routing" />

<Reference Include="System.Configuration" />

<Reference Include="System.EnterpriseServices" />

<Reference Include="System.Web.WebPages">

<HintPath>$(SolutionDir)packages\Microsoft.AspNet.WebPages.3.2.3\lib\net45\System.Web.WebPages.dll</HintPath>

</Reference>

<Reference Include="System.Web.WebPages.Deployment">

<HintPath>$(SolutionDir)packages\Microsoft.AspNet.WebPages.3.2.3\lib\net45\System.Web.WebPages.Deployment.dll</HintPath>

</Reference>

<Reference Include="System.Web.WebPages.Razor">

<HintPath>$(SolutionDir)packages\Microsoft.AspNet.WebPages.3.2.3\lib\net45\System.Web.WebPages.Razor.dll</HintPath>

</Reference>

<Reference Include="System.Xml" />

<Reference Include="System.Xml.Linq" />

<Reference Include="WebGrease">

<HintPath>$(SolutionDir)packages\WebGrease.1.6.0\lib\WebGrease.dll</HintPath>

</Reference>

<Reference Include="WebMatrix.Data">

<HintPath>$(SolutionDir)packages\Microsoft.AspNet.WebPages.Data.3.2.3\lib\net45\WebMatrix.Data.dll</HintPath>

</Reference>

<Reference Include="WebMatrix.WebData">

<HintPath>$(SolutionDir)packages\Microsoft.AspNet.WebPages.WebData.3.2.3\lib\net45\WebMatrix.WebData.dll</HintPath>

</Reference>

<Reference Include="WindowsBase" />

5. In another editor, open the Web’s \*.csproj from one of the SDK samples and copy any ***References*** that are not ***Sage.CA.SBS.ERP***… or any of your partner assemblies.

The following is a list of the References and not an example as there are too many to enumerate of what was added back to the partner’s Web \*.csproj file:

<Reference Include="Antlr3.Runtime">

<HintPath>$(Sage300WebDir)\bin\Antlr3.Runtime.dll</HintPath>

</Reference>

<Reference Include="CEDataServiceContract">

<HintPath>$(Sage300WebDir)\bin\CEDataServiceContract.dll</HintPath>

<Private>True</Private>

</Reference>

<Reference Include="CrystalDecisions.CrystalReports.Engine">

<HintPath>$(Sage300WebDir)\bin\CrystalDecisions.CrystalReports.Engine.dll</HintPath>

</Reference>

<Reference Include="CrystalDecisions.ReportSource">

<HintPath>$(Sage300WebDir)\bin\CrystalDecisions.ReportSource.dll</HintPath>

</Reference>

<Reference Include="CrystalDecisions.Shared">

<HintPath>$(Sage300WebDir)\web\bin\CrystalDecisions.Shared.dll</HintPath>

</Reference>

<Reference Include="CrystalDecisions.Web">

<HintPath>$(Sage300WebDir)\bin\CrystalDecisions.Web.dll</HintPath>

</Reference>

<Reference Include="dotless.AspNet">

<HintPath>$(Sage300WebDir)\bin\dotless.AspNet.dll</HintPath>

</Reference>

<Reference Include="dotless.Core">

<HintPath>$(Sage300WebDir)\bin\dotless.Core.dll</HintPath>

</Reference>

<Reference Include="EntityFramework">

<HintPath>$(Sage300WebDir)\bin\EntityFramework.dll</HintPath>

</Reference>

<Reference Include="EntityFramework.SqlServer">

<HintPath>$(Sage300WebDir)\bin\EntityFramework.SqlServer.dll</HintPath>

</Reference>

<Reference Include="Microsoft.AspNet.SignalR.Core">

<HintPath>$(Sage300WebDir)\bin\Microsoft.AspNet.SignalR.Core.dll</HintPath>

</Reference>

<Reference Include="Microsoft.AspNet.SignalR.SystemWeb">

<HintPath>$(Sage300WebDir)\bin\Microsoft.AspNet.SignalR.SystemWeb.dll</HintPath>

</Reference>

<Reference Include="Microsoft.Bcl.AsyncInterfaces">

<HintPath>$(Sage300WebDir)\bin\Microsoft.Bcl.AsyncInterfaces.dll</HintPath>

</Reference>

<Reference Include="Microsoft.CSharp" />

<Reference Include="Microsoft.Data.Edm">

<HintPath>$(Sage300WebDir)\bin\Microsoft.Data.Edm.dll</HintPath>

</Reference>

<Reference Include="Microsoft.Data.OData">

<HintPath>$(Sage300WebDir)\bin\Microsoft.Data.OData.dll</HintPath>

</Reference>

<Reference Include="Microsoft.Data.Services.Client">

<HintPath>$(Sage300WebDir)\bin\Microsoft.Data.Services.Client.dll</HintPath>

</Reference>

<Reference Include="Microsoft.Extensions.DependencyInjection">

<HintPath>$(Sage300WebDir)\bin\Microsoft.Extensions.DependencyInjection.dll</HintPath>

</Reference>

<Reference Include="Microsoft.Extensions.DependencyInjection.Abstractions">

<HintPath>$(Sage300WebDir)\bin\Microsoft.Extensions.DependencyInjection.Abstractions.dll</HintPath>

</Reference>

<Reference Include="Microsoft.Extensions.Logging.Abstractions">

<HintPath>$(Sage300WebDir)\bin\Microsoft.Extensions.Logging.Abstractions.dll</HintPath>

</Reference>

<Reference Include="Microsoft.Owin">

<HintPath>$(Sage300WebDir)\bin\Microsoft.Owin.dll</HintPath>

</Reference>

<Reference Include="Microsoft.Owin.Host.SystemWeb">

<HintPath>$(Sage300WebDir)\bin\Microsoft.Owin.Host.SystemWeb.dll</HintPath>

</Reference>

<Reference Include="Microsoft.Owin.Security">

<HintPath>$(Sage300WebDir)\bin\Microsoft.Owin.Security.dll</HintPath>

</Reference>

<Reference Include="Microsoft.Practices.EnterpriseLibrary.Common">

<HintPath>$(Sage300WebDir)\bin\Microsoft.Practices.EnterpriseLibrary.Common.dll</HintPath>

</Reference>

<Reference Include="Microsoft.Practices.EnterpriseLibrary.Logging">

<HintPath>$(Sage300WebDir)\bin\Microsoft.Practices.EnterpriseLibrary.Logging.dll</HintPath>

</Reference>

<Reference Include="Microsoft.Practices.EnterpriseLibrary.TransientFaultHandling">

<HintPath>$(Sage300WebDir)\bin\Microsoft.Practices.EnterpriseLibrary.TransientFaultHandling.dll</HintPath>

</Reference>

<Reference Include="Microsoft.Practices.EnterpriseLibrary.TransientFaultHandling.WindowsAzure.Storage">

<HintPath>$(Sage300WebDir)\bin5\Microsoft.Practices.EnterpriseLibrary.TransientFaultHandling.WindowsAzure.Storage.dll</HintPath>

</Reference>

<Reference Include="Microsoft.Practices.EnterpriseLibrary.WindowsAzure.TransientFaultHandling">

<HintPath>$(Sage300WebDir)\bin\Microsoft.Practices.EnterpriseLibrary.WindowsAzure.TransientFaultHandling.dll</HintPath>

</Reference>

<Reference Include="Microsoft.Practices.TransientFaultHandling.Core">

<HintPath>$(Sage300WebDir)\bin\Microsoft.Practices.TransientFaultHandling.Core.dll</HintPath>

</Reference>

<Reference Include="Microsoft.Web.Administration">

<HintPath>$(Sage300WebDir)\bin\Microsoft.Web.Administration.dll</HintPath>

</Reference>

<Reference Include="Microsoft.Web.Infrastructure">

<HintPath>$(Sage300WebDir)\bin\Microsoft.Web.Infrastructure.dll</HintPath>

</Reference>

<Reference Include="Microsoft.Win32.Primitives">

<HintPath>$(SolutionDir)\Microsoft.Win32.Primitives.4.3.0\lib\net46\Microsoft.Win32.Primitives.dll</HintPath>

<Private>True</Private>

</Reference>

<Reference Include="Microsoft.Win32.Registry">

<HintPath>$(Sage300WebDir)\bin\Microsoft.Win32.Registry.dll</HintPath>

</Reference>

<Reference Include="Microsoft.WindowsAzure.Diagnostics">

<HintPath>$(Sage300WebDir)\bin\Microsoft.WindowsAzure.Diagnostics.dll</HintPath>

<Private>True</Private>

</Reference>

<Reference Include="Microsoft.WindowsAzure.ServiceDefinition">

<HintPath>$(Sage300WebDir)\bin\Microsoft.WindowsAzure.ServiceDefinition.dll</HintPath>

</Reference>

<Reference Include="Microsoft.WindowsAzure.ServiceModel">

<HintPath>$(Sage300WebDir)\bin\Microsoft.WindowsAzure.ServiceModel.dll</HintPath>

</Reference>

<Reference Include="Microsoft.WindowsAzure.ServiceRuntime">

<HintPath>$(Sage300WebDir)\bin\Microsoft.WindowsAzure.ServiceRuntime.dll</HintPath>

<Private>True</Private>

</Reference>

<Reference Include="NewRelic.Api.Agent">

<HintPath>$(Sage300WebDir)\bin\NewRelic.Api.Agent.dll</HintPath>

</Reference>

<Reference Include="Newtonsoft.Json">

<HintPath>$(Sage300WebDir)\bin\Newtonsoft.Json.dll</HintPath>

</Reference>

<Reference Include="Owin">

<HintPath>$(Sage300WebDir)\bin\Owin.dll</HintPath>

</Reference>

<Reference Include="Pipelines.Sockets.Unofficial">

<HintPath>$(Sage300WebDir)\bin\Pipelines.Sockets.Unofficial.dll</HintPath>

</Reference>

<Reference Include="RouteDebugger">

<HintPath>$(Sage300WebDir)\bin\RouteDebugger.dll</HintPath>

</Reference>

<Reference Include="System" />

<Reference Include="System.AppContext">

<HintPath>$(SolutionDir)packages\System.AppContext.4.3.0\lib\net463\System.AppContext.dll</HintPath>

<Private>True</Private>

</Reference>

<Reference Include="System.Buffers">

<HintPath>$(Sage300WebDir)\bin\System.Buffers.dll</HintPath>

</Reference>

<Reference Include="System.ComponentModel.Composition" />

<Reference Include="System.Configuration.ConfigurationManager">

<HintPath>$(Sage300WebDir)\bin\System.Configuration.ConfigurationManager.dll</HintPath>

</Reference>

<Reference Include="System.Console">

<HintPath>$(SolutionDir)packages\System.Console.4.3.1\lib\net46\System.Console.dll</HintPath>

<Private>True</Private>

</Reference>

<Reference Include="System.Data" />

<Reference Include="System.Data.DataSetExtensions" />

<Reference Include="System.Data.OracleClient" />

<Reference Include="System.Data.Services.Client" />

<Reference Include="System.Diagnostics.DiagnosticSource">

<HintPath>$(Sage300WebDir)\bin\System.Diagnostics.DiagnosticSource.dll</HintPath>

</Reference>

<Reference Include="System.Diagnostics.EventLog">

<HintPath>$(Sage300WebDir)\bin\System.Diagnostics.EventLog.dll</HintPath>

</Reference>

<Reference Include="System.Diagnostics.PerformanceCounter">

<HintPath>$(Sage300WebDir)\bin\System.Diagnostics.PerformanceCounter.dll</HintPath>

</Reference>

<Reference Include="System.Diagnostics.TraceSource">

<HintPath>$(SolutionDir)packages\System.Diagnostics.TraceSource.4.3.0\lib\net46\System.Diagnostics.TraceSource.dll</HintPath>

<Private>True</Private>

</Reference>

<Reference Include="System.Diagnostics.Tracing">

<HintPath>$(SolutionDir)packages\System.Diagnostics.Tracing.4.3.0\lib\net462\System.Diagnostics.Tracing.dll</HintPath>

<Private>True</Private>

</Reference>

<Reference Include="System.DirectoryServices" />

<Reference Include="System.Drawing" />

<Reference Include="System.Globalization.Calendars">

<HintPath>$(SolutionDir)packages\System.Globalization.Calendars.4.3.0\lib\net46\System.Globalization.Calendars.dll</HintPath>

<Private>True</Private>

</Reference>

<Reference Include="System.IO">

<HintPath>$(SolutionDir)packages\System.IO.4.3.0\lib\net462\System.IO.dll</HintPath>

<Private>True</Private>

</Reference>

<Reference Include="System.IO.Compression">

<HintPath>$(SolutionDir)packages\System.IO.Compression.4.3.0\lib\net46\System.IO.Compression.dll</HintPath>

<Private>True</Private>

</Reference>

<Reference Include="System.IO.Compression.FileSystem" />

<Reference Include="System.IO.Compression.ZipFile">

<HintPath>$(SolutionDir)packages\System.IO.Compression.ZipFile.4.3.0\lib\net46\System.IO.Compression.ZipFile.dll</HintPath>

<Private>True</Private>

</Reference>

<Reference Include="System.IO.FileSystem">

<HintPath>$(SolutionDir)packages\System.IO.FileSystem.4.3.0\lib\net46\System.IO.FileSystem.dll</HintPath>

<Private>True</Private>

</Reference>

<Reference Include="System.IO.FileSystem.Primitives">

<HintPath>$(SolutionDir)packages\System.IO.FileSystem.Primitives.4.3.0\lib\net46\System.IO.FileSystem.Primitives.dll</HintPath>

<Private>True</Private>

</Reference>

<Reference Include="System.IO.Pipelines">

<HintPath>$(Sage300WebDir)\bin\System.IO.Pipelines.dll</HintPath>

</Reference>

<Reference Include="System.Linq">

<HintPath>$(SolutionDir)packages\System.Linq.4.3.0\lib\net463\System.Linq.dll</HintPath>

<Private>True</Private>

</Reference>

<Reference Include="System.Linq.Expressions">

<HintPath>$(SolutionDir)packages\System.Linq.Expressions.4.3.0\lib\net463\System.Linq.Expressions.dll</HintPath>

<Private>True</Private>

</Reference>

<Reference Include="System.Memory">

<HintPath>$(Sage300WebDir)\bin\System.Memory.dll</HintPath>

</Reference>

<Reference Include="System.Net.Http" />

<Reference Include="System.Net.Http.Extensions">

<HintPath>$(Sage300WebDir)\bin\System.Net.Http.Extensions.dll</HintPath>

</Reference>

<Reference Include="System.Net.Http.Formatting">

<HintPath>$(Sage300WebDir)\bin\System.Net.Http.Formatting.dll</HintPath>

</Reference>

<Reference Include="System.Net.Http.Primitives">

<HintPath>$(Sage300WebDir)\bin\System.Net.Http.Primitives.dll</HintPath>

</Reference>

<Reference Include="System.Net.Sockets">

<HintPath>$(SolutionDir)packages\System.Net.Sockets.4.3.0\lib\net46\System.Net.Sockets.dll</HintPath>

<Private>True</Private>

</Reference>

<Reference Include="System.Numerics" />

<Reference Include="System.Numerics.Vectors">

<HintPath>$(Sage300WebDir)\bin\System.Numerics.Vectors.dll</HintPath>

</Reference>

<Reference Include="System.Reflection">

<HintPath>$(SolutionDir)packages\System.Reflection.4.3.0\lib\net462\System.Reflection.dll</HintPath>

<Private>True</Private>

</Reference>

<Reference Include="System.Reflection.TypeExtensions">

<HintPath>$(Sage300WebDir)\bin\System.Reflection.TypeExtensions.dll</HintPath>

</Reference>

<Reference Include="System.Runtime">

<HintPath>$(SolutionDir)packages\System.Runtime.4.3.1\lib\net462\System.Runtime.dll</HintPath>

<Private>True</Private>

</Reference>

<Reference Include="System.Runtime.Caching" />

<Reference Include="System.Runtime.CompilerServices.Unsafe">

<HintPath>$(Sage300WebDir)\bin\System.Runtime.CompilerServices.Unsafe.dll</HintPath>

</Reference>

<Reference Include="System.Runtime.Extensions">

<HintPath>$(SolutionDir)packages\System.Runtime.Extensions.4.3.1\lib\net462\System.Runtime.Extensions.dll</HintPath>

<Private>True</Private>

</Reference>

<Reference Include="System.Runtime.InteropServices">

<HintPath>$(SolutionDir)packages\System.Runtime.InteropServices.4.3.0\lib\net463\System.Runtime.InteropServices.dll</HintPath>

<Private>True</Private>

</Reference>

<Reference Include="System.Runtime.InteropServices.RuntimeInformation">

<HintPath>$(SolutionDir)packages\System.Runtime.InteropServices.RuntimeInformation.4.3.0\lib\net45\System.Runtime.InteropServices.RuntimeInformation.dll</HintPath>

<Private>True</Private>

</Reference>

<Reference Include="System.Runtime.Remoting" />

<Reference Include="System.Runtime.Serialization" />

<Reference Include="System.Security" />

<Reference Include="System.Security.AccessControl">

<HintPath>$(Sage300WebDir)\bin\System.Security.AccessControl.dll</HintPath>

</Reference>

<Reference Include="System.Security.Claims">

<HintPath>$(SolutionDir)packages\System.Security.Claims.4.3.0\lib\net46\System.Security.Claims.dll</HintPath>

<Private>True</Private>

</Reference>

<Reference Include="System.Security.Cryptography.Algorithms">

<HintPath>$(SolutionDir)packages\System.Security.Cryptography.Algorithms.4.3.1\lib\net463\System.Security.Cryptography.Algorithms.dll</HintPath>

<Private>True</Private>

</Reference>

<Reference Include="System.Security.Cryptography.Encoding">

<HintPath>$(SolutionDir)packages\System.Security.Cryptography.Encoding.4.3.0\lib\net46\System.Security.Cryptography.Encoding.dll</HintPath>

<Private>True</Private>

</Reference>

<Reference Include="System.Security.Cryptography.Primitives">

<HintPath>$(SolutionDir)packages\System.Security.Cryptography.Primitives.4.3.0\lib\net46\System.Security.Cryptography.Primitives.dll</HintPath>

<Private>True</Private>

</Reference>

<Reference Include="System.Security.Cryptography.X509Certificates">

<HintPath>$(SolutionDir)packages\System.Security.Cryptography.X509Certificates.4.3.2\lib\net461\System.Security.Cryptography.X509Certificates.dll</HintPath>

<Private>True</Private>

</Reference>

<Reference Include="System.Security.Permissions">

<HintPath>$(Sage300WebDir)\bin\System.Security.Permissions.dll</HintPath>

</Reference>

<Reference Include="System.Security.Principal.Windows">

<HintPath>$(Sage300WebDir)\bin\System.Security.Principal.Windows.dll</HintPath>

</Reference>

<Reference Include="System.ServiceModel.DomainServices.EntityFramework, Version=4.0.0.0, Culture=neutral, PublicKeyToken=31bf3856ad364e35, processorArchitecture=MSIL" />

<Reference Include="System.ServiceModel.Web" />

<Reference Include="System.ServiceProcess" />

<Reference Include="System.ServiceProcess.ServiceController">

<HintPath>$(Sage300WebDir)\bin\System.ServiceProcess.ServiceController.dll</HintPath>

</Reference>

<Reference Include="System.Spatial">

<HintPath>$(Sage300WebDir)\bin\System.Spatial.dll</HintPath>

</Reference>

<Reference Include="System.Text.Encodings.Web">

<HintPath>$(Sage300WebDir)\bin\System.Text.Encodings.Web.dll</HintPath>

</Reference>

<Reference Include="System.Text.RegularExpressions">

<HintPath>$(SolutionDir)packages\System.Text.RegularExpressions.4.3.1\lib\net463\System.Text.RegularExpressions.dll</HintPath>

<Private>True</Private>

</Reference>

<Reference Include="System.Threading.Channels">

<HintPath>$(Sage300WebDir)\bin\System.Threading.Channels.dll</HintPath>

</Reference>

<Reference Include="System.Threading.Tasks.Extensions">

<HintPath>$(Sage300WebDir)\bin\System.Threading.Tasks.Extensions.dll</HintPath>

</Reference>

<Reference Include="System.ValueTuple">

<HintPath>$(Sage300WebDir)\bin\System.ValueTuple.dll</HintPath>

</Reference>

<Reference Include="System.Transactions" />

<Reference Include="System.Web.DataVisualization" />

<Reference Include="System.Web.DynamicData" />

<Reference Include="System.Web.Entity" />

<Reference Include="System.Web.ApplicationServices" />

<Reference Include="System.ComponentModel.DataAnnotations" />

<Reference Include="System.Web.Extensions" />

<Reference Include="System.Web" />

<Reference Include="System.Web.Abstractions" />

<Reference Include="System.Web.Helpers">

<HintPath>$(Sage300WebDir)\bin\System.Web.Helpers.dll</HintPath>

</Reference>

<Reference Include="System.Web.Http">

<HintPath>$(Sage300WebDir)\bin\System.Web.Http.dll</HintPath>

</Reference>

<Reference Include="System.Web.Http.WebHost">

<HintPath>$(Sage300WebDir)\bin\System.Web.Http.WebHost.dll</HintPath>

</Reference>

<Reference Include="System.Web.Mvc">

<HintPath>$(Sage300WebDir)\bin\System.Web.Mvc.dll</HintPath>

</Reference>

<Reference Include="System.Web.Optimization">

<HintPath>$(Sage300WebDir)\bin\System.Web.Optimization.dll</HintPath>

</Reference>

<Reference Include="System.Web.Optimization.Less">

<HintPath>$(Sage300WebDir)\bin\System.Web.Optimization.Less.dll</HintPath>

</Reference>

<Reference Include="System.Web.Razor">

<HintPath>$(Sage300WebDir)\bin\System.Web.Razor.dll</HintPath>

</Reference>

<Reference Include="System.Web.Routing" />

<Reference Include="System.Web.WebPages">

<HintPath>$(Sage300WebDir)\bin\System.Web.WebPages.dll</HintPath>

</Reference>

<Reference Include="System.Web.WebPages.Deployment">

<HintPath>$(Sage300WebDir)\bin\System.Web.WebPages.Deployment.dll</HintPath>

</Reference>

<Reference Include="System.Web.WebPages.Razor">

<HintPath>$(Sage300WebDir)\bin\System.Web.WebPages.Razor.dll</HintPath>

</Reference>

<Reference Include="System.Xml" />

<Reference Include="System.Configuration" />

<Reference Include="System.Web.Services" />

<Reference Include="System.EnterpriseServices" />

<Reference Include="System.Net.Http.WebRequest">

</Reference>

<Reference Include="System.Xml.Linq" />

<Reference Include="System.Xml.ReaderWriter">

<HintPath>$(SolutionDir)packages\System.Xml.ReaderWriter.4.3.1\lib\net46\System.Xml.ReaderWriter.dll</HintPath>

<Private>True</Private>

</Reference>

<Reference Include="Unity.Abstractions">

<HintPath>$(Sage300WebDir)\bin\Unity.Abstractions.dll</HintPath>

</Reference>

<Reference Include="Unity.Container">

<HintPath>$(Sage300WebDir)\bin\Unity.Container.dll</HintPath>

</Reference>

<Reference Include="Unity.Interception">

<HintPath>$(Sage300WebDir)\bin\Unity.Interception.dll</HintPath>

</Reference>

<Reference Include="WebGrease">

<HintPath>$(Sage300WebDir)\bin\WebGrease.dll</HintPath>

</Reference>

<Reference Include="WebMatrix.Data">

<HintPath>$(Sage300WebDir)\bin\WebMatrix.Data.dll</HintPath>

</Reference>

<Reference Include="WebMatrix.WebData">

<HintPath>$(Sage300WebDir)\bin\WebMatrix.WebData.dll</HintPath>

</Reference>

<Reference Include="WindowsBase" />

6. Save the file

Notes about the changes: In this list, notice how the **Reference** changed from a package to a local reference.

* + 1. Web – Login.aspx.cs File

The VERSION\_DEFAULT constant needs to be “73A”

Load the Login.aspx.cs file in an editor and make the following change:

* **Change** “72A” to “73A”
* **Save** the file
  + 1. Web – Global.asax.cs File

Numerous sections have been modified and enhanced in the Global.asax.cs file. Instead of indicating what needs to be added, changed, etc. we will simply copy the file contents from one of the samples Global.asax.cs files and replace the contents. Note: The namespace will require restoration after the copy is performed.

Load the Global.asax.cs file in an editor and make the following change:

* **Copy** and save somewhere the namespace name for later restoration
* **Delete** the contents of the file after any copyright notice (if present)
* **Load** the Global.asax.cs file from one of the samples (i.e., Clear Statistics) into an editor and copy the contents from after the copyright notice
* **Paste** the copied contents into your Global.asax.cs file
* **Restore** the namespace value since it was overwritten with the namespace name from the sample
* **Save** the file
  + 1. Web – {module}WebBootstrapper.cs File

The Unity Nuget package was upgraded and the namespace in the using statement requires modification.

Load the {module}WebBootstrapper.cs file in an editor and make the following change:

* **Delete** using Microsoft.Practices.Unity;
* **Add** using Unity;
* **Add** using Unity.Injection;
* **Save** the file
  + 1. Services – {module}Bootstrapper.cs File

The Unity Nuget package was upgraded and the namespace in the using statement requires modification.

Load the {module}Bootstrapper.cs file in an editor and make the following change:

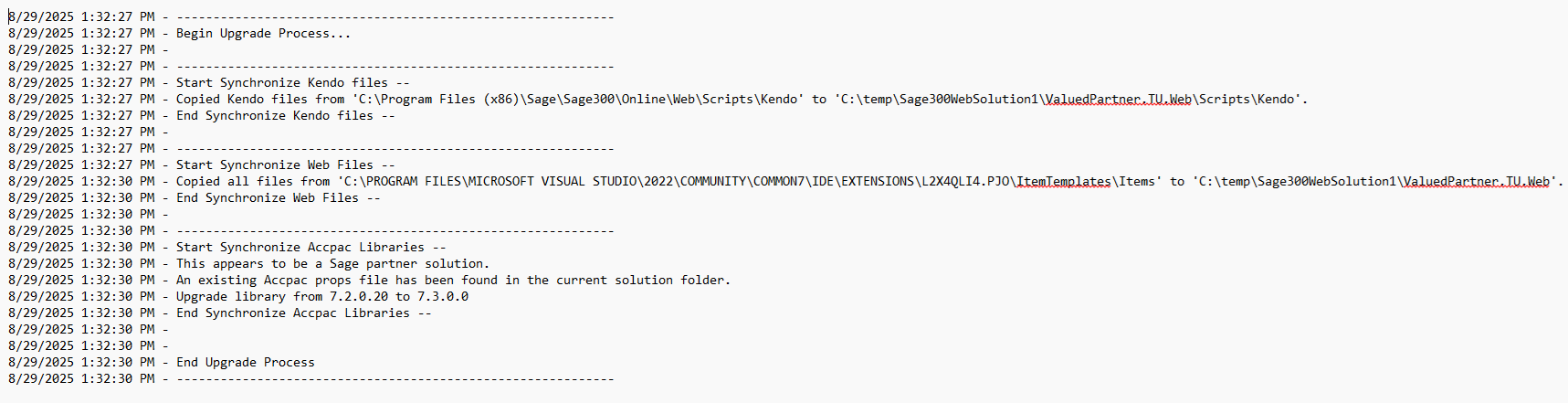
* **Delete** using Microsoft.Practices.Unity;
* **Add** using Unity;
* **Add** using Unity.Injection;
* **Save** the file
  + 1. Complete

The manual steps are complete. Load the project’s solution and re-compile to ensure all files have been modified successfully.

Note: Any partner Nuget packages that have been added to the project files since being generated by the Solution Wizard must be manually re-added.

1. Upgrade Log

Once the Upgrade Wizard has completed you have the option to ‘Show Log’ to view the upgrade log. The following is a screenshot of a typical upgrade log.



1. Compilation Troubleshooting
   1. Parser Error when loading Web project in browser

* Clean solution
* In Web project folder:
  + delete bin and obj folders
  1. Microsoft.Practices.Unity Reference

The namespace for **Microsoft.Practices.Unity** has changed to simply Unity

* Replace **using Microsoft.Practices.Unity** with **using Unity**
* Note: The Bootstrapper files have already been modified in a previous step and any remaining instances must be performed manually.
  1. New ParameterOverride Method missing

The **ParameterOverride** method has been deprecated and replaced with the **ContextParameter** method

* Replace **ParameterOverride(“context”, Context)** with **Utilities.ContextParameter(Context)**
* Note: It may also be necessary to add the following namespace **using Sage.CA.SBS.ERP.Sage300.Common.Web.Utilities;**