

# Migration – VS2013 and .NET 4.5

## 1 Introduction

We will be using VS2013 going forward as follows

- Jan 2015 release onwards
  - The solution and project files is upgraded to VS2013
  - Target framework of all projects in solution are set to compile in framework **4.5.2**
  - Changes to solution or project file **can be** committed.
  - Currently we will not use any features of 4.5 till maybe march release til build is stable.
- For all earlier versions (production as well as dev) code streams
  - The solution and project files **are not** upgraded to VS2013 unless agreed
  - Target framework of all projects in solution **should not** be changed and has to be compiled only in framework 3.5
  - Changes to solution or project file **should not** be committed.

## 2 Pre-Requisites

1. Install VS2013 and VS2013 update 4
2. Install extension for creating msi  
<https://visualstudiogallery.msdn.microsoft.com/9abe329c-9bba-44a1-be59-0fbf6151054d>

## 3 Issues faced during conversion to VS2013 and fixes

### 3.1 TSV2

No setting related errors encountered

### 3.2 TSDOTNETAPI

3 Errors encountered. Mainly DBML designer files get corrupted which can be easily fixed by getting the latest file from SVN after the migration is complete

Sr No	Issue	Issue Fix
1	Linq Project build error	Delete TSBDData.designer.cs file from Linq project and update svn to get the file
2	EndpointManager Project build error	Delete TSWSEndpointManager.designer.cs file from EndpointManager project and update svn to get the file.
3	assembly reference Microsoft.VisualStudio.TestTools.UnitTesting in QualityAssurance Project	Unticked "Quality Manager" from Build Menu-> Configuration Manager

### 3.3 B2CB2B API

2 Issues encountered

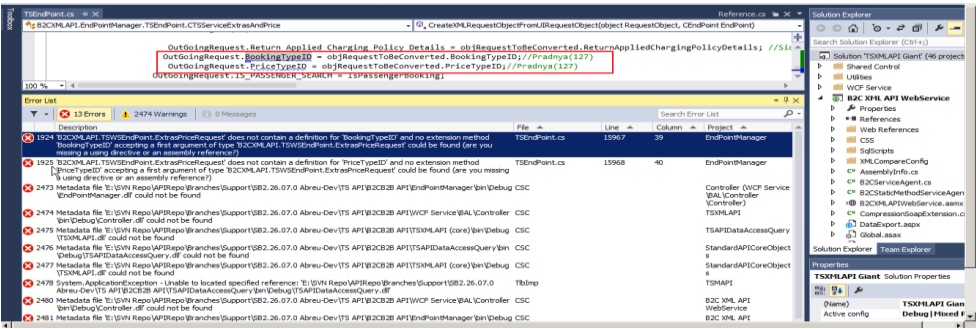
Sr No	Issue	Issue Fix
1	Linq Project build error	Delete TSBDData.designer.cs file from Linq project and update svn to get the file
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TSDOTNETAPI and B2CB2BAPI Issues found in dev streams

1. Abreu stream

File Path: ...TS API \B2CB2B API\EndPointManager\Web References\TSWSEndPoint\Reference.cs

Source Error: Screenshot below:



Resolved: by deleting and updating the Reference.cs file from SVN.

2. Travco stream

File Path: ...TS API\B2CB2B API\EndPointManager\Web References\TSWSEndPoint\Reference.cs

Source Error: Getting an error in file H2H.cs for the field ISSUPPRESS\_DAY\_WISE\_ALLOCATION.

Resolved: by deleting and updating the Reference.cs file from SVN.

3. TCA stream

File Path: ...TS API\TSDOTNET API\EndPointManager\Web References\TSWSEndPoint\Reference.cs

Source Error: Getting error in file B2CServiceAgent.cs because of field –ServiceRatingField in class “ServiceInformation”.

Resolved: by deleting and updating the Reference.cs file from SVN.

3.4 Fare Studio

No setting related errors encountered

3.5 FSDT – 1 Error

Sr No	Issue	Issue Fix
1	FSDTGDSConnectors Project build error	Delete Reference.cs file from FSDTGDSConnectors\Web References\GalileoXMLSelectWS and update svn to get the file.

4 Issues faced in framework 4.5 or using app-pool of 4.0 Integrated

You may get the following error for script Resource handler

# Server Error

Internet Information Services 7

Error Summary

## HTTP Error 500.19 - Internal Server Error

The requested page cannot be accessed because the related configuration data for the page is invalid.

Detailed Error Information

Module	IIS Web Core	Requested URL	http://localhost:80/B2CWSMigration/B2CXMLAPIWebService.asmx
Notification	BeginRequest	Physical Path	C:\inetpub\wwwroot\B2CWSMigration\B2CXMLAPIWebService.asmx
Handler	Not yet determined	Logon Method	Not yet determined
Error Code	0x800700b7	Logon User	Not yet determined
Config Error	There is a duplicate 'system.web.extensions/scripting/scriptResourceHandler' section defined		
Config File	\\?\C:\inetpub\wwwroot\B2CWSMigration\web.config		

Config Source

5: <sectionGroup name="scripting" type="System.Web.Configuration.ScriptingSectionGroup, System.Web.Extensions, Version=3.5.0.0, Culture=neutral, PublicKeyToken=31BF3856AD364E35">

6: <section name="scriptResourceHandler" type="System.Web.Configuration.ScriptingScriptResourceHandlerSection, System.Web.Extensions, Version=3.5.0.0, Culture=neutral, PublicKeyToken=31BF3856AD364E35" requirePermission="false" allowDefinition="MachineToApplication" />

7: <sectionGroup name="webServices" type="System.Web.Configuration.ScriptingWebServicesSectionGroup, System.Web.Extensions, Version=3.5.0.0, Culture=neutral, PublicKeyToken=31BF3856AD364E35">

Solution : Comment SectionGroup tags under ConfigSection in the web.config file. Screenshot below:

```
<?xml version="1.0"?>
<configuration>
  <configSections>
    <!-- <sectionGroup name="system.web.extensions" type="System.Web.Configuration.SystemWebExtensionsSectionGroup, System.Web.Extensions, Version=3.5.0.0, Culture=neutral, PublicKeyToken=31BF3856AD364E35">
    <sectionGroup name="scripting" type="System.Web.Configuration.ScriptingSectionGroup, System.Web.Extensions, Version=3.5.0.0, Culture=neutral, PublicKeyToken=31BF3856AD364E35">
      <section name="scriptResourceHandler" type="System.Web.Configuration.ScriptingScriptResourceHandlerSection, System.Web.Extensions, Version=3.5.0.0, Culture=neutral, PublicKeyToken=31BF3856AD364E35" requirePermission="false" allowDefinition="MachineToApplication" />
    </sectionGroup>
    <sectionGroup name="webServices" type="System.Web.Configuration.ScriptingWebServicesSectionGroup, System.Web.Extensions, Version=3.5.0.0, Culture=neutral, PublicKeyToken=31BF3856AD364E35">
      <section name="jsonSerialization" type="System.Web.Configuration.ScriptingJsonSerializationSection, System.Web.Extensions, Version=3.5.0.0, Culture=neutral, PublicKeyToken=31BF3856AD364E35" requirePermission="false" allowDefinition="MachineToApplication" />
      <section name="profileService" type="System.Web.Configuration.ScriptingProfileServiceSection, System.Web.Extensions, Version=3.5.0.0, Culture=neutral, PublicKeyToken=31BF3856AD364E35" requirePermission="false" allowDefinition="MachineToApplication" />
      <section name="authenticationService" type="System.Web.Configuration.ScriptingAuthenticationServiceSection, System.Web.Extensions, Version=3.5.0.0, Culture=neutral, PublicKeyToken=31BF3856AD364E35" requirePermission="false" allowDefinition="MachineToApplication" />
      <section name="roleService" type="System.Web.Configuration.ScriptingRoleServiceSection, System.Web.Extensions, Version=3.5.0.0, Culture=neutral, PublicKeyToken=31BF3856AD364E35" requirePermission="false" allowDefinition="MachineToApplication" />
    </sectionGroup>
    </sectionGroup>
  </configSections>
  <sectionGroup name="applicationSettings" type="System.Configuration.ApplicationSettingsGroup, System, Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089">
    <section name="B2CXMLAPI.Properties.Settings" type="System.Configuration.ClientSettingsSection, System, Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" />
  </sectionGroup>
</configuration>
<appSettings>
  <!--Use WebConfigEditor.exe to edit the settings and view comments -->
  <!--Basic settings -->
  <add key="ConnectionString" value="server=dev153; uid=sa; pwd=; database=ODLDemo;Connect Timeout=80000" />
  <add key="DatabaseTimeout" value="60" />
  <!--in Sec -->
  <add key="LicenceKey" value="LicenceKey" />
  <add key="PassengerBooking" value="true" />
</appSettings>
```

## 4.1 Debugging Issues (Out of memory)

You may also get out of memory in some cases like one shown below in TSV2: Booking->Service Search.

Unable to generate a temporary class (result=1).  
error CS0001: Internal compiler error (0xc00000fd)  
error CS0003: Out of memory

**Description:** An unhandled exception occurred during the execution of the current web request. Please review the stack trace for more information about the error and where it originated in the code.

**Exception Details:** System.InvalidOperationException: Unable to generate a temporary class (result=1).  
error CS0001: Internal compiler error (0xc00000fd)  
error CS0003: Out of memory

**Source Error:**

An unhandled exception was generated during the execution of the current web request. Information regarding the origin and location of the exception can be identified using the exception stack trace below.

**Stack Trace:**

```
[InvalidOperationException: Unable to generate a temporary class (result=1).
error CS0001: Internal compiler error (0xc00000fd)
error CS0003: Out of memory
]
System.Xml.Serialization.Compiler.Compile(Assembly parent, String ns, XmlSerializerCompilerParameters xmlParameters, Evidence evidence) +1267
System.Xml.Serialization.TempAssembly.GenerateAssembly(XmlMapping[] xmlMappings, Type[] types, String defaultNamespace, Evidence evidence, XmlSerializerCompilerParameters parameters) +125
System.Xml.Serialization.XmlSerializer.FromMappings(XmlMapping[] mappings, Type type) +813
System.Xml.Serialization.XmlSerializer.FromMappings(XmlMapping[] mappings, Type type) +139
System.ServiceModel.Description.SerializerGenerationContext.GenerateSerializers() +218
System.ServiceModel.Description.SerializerGenerationContext.GetSerializer(Int32 handle) +76
System.ServiceModel.Description.MessageInfo.getBodySerializer() +25
System.ServiceModel.Dispatcher.XmlSerializerOperationFormatter.SerializeBody(XmlDictionaryWriter writer, MessageVersion version, String action, MessageDescription messageDescription) +2252
[CommunicationException: There was an error in serializing body of message : 'Unable to generate a temporary class (result=1).
error CS0001: Internal compiler error (0xc00000fd)
error CS0003: Out of memory
'. Please see InnerException for more details.]
ServiceProxyManager.Factory.BookingPassenger.LoadTypesData() in c:\TSV2Release\TravelStudioDotNet\GUI\Shared Controls\ServiceProxyManager\Facory\Booking\BookingPassenger.cs
User.Controls_PaxDetails.LoadTypesData() +43
Pages.ServiceSearch_TSServiceSearch.LoadPaxDetails(Boolean bLoadOccupancies) +27
System.Web.UI.Page.ProcessRequestMain(Boolean includeStagesBeforeAsyncPoint, Boolean includeStagesAfterAsyncPoint) +2252
```

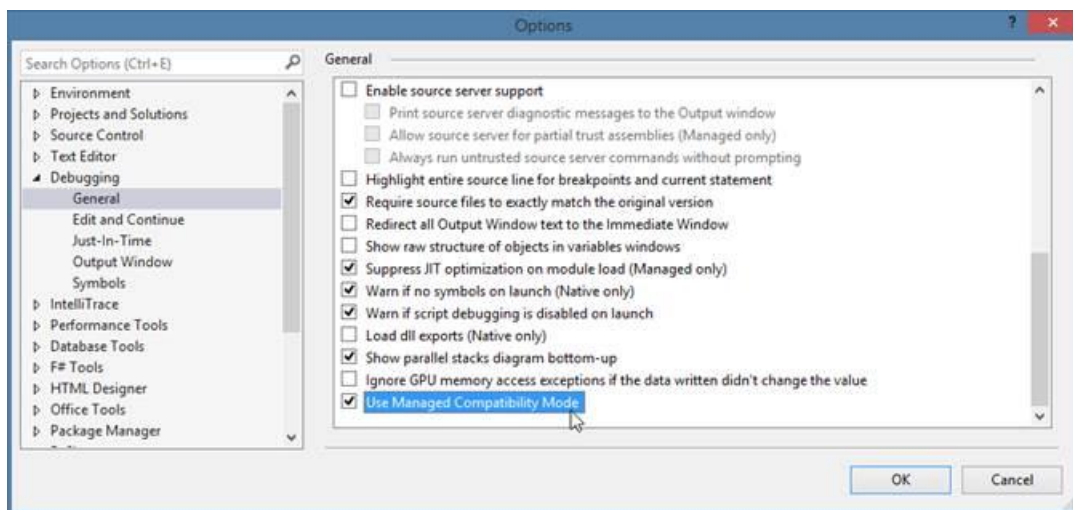
VS2013 uses IIS express by default.

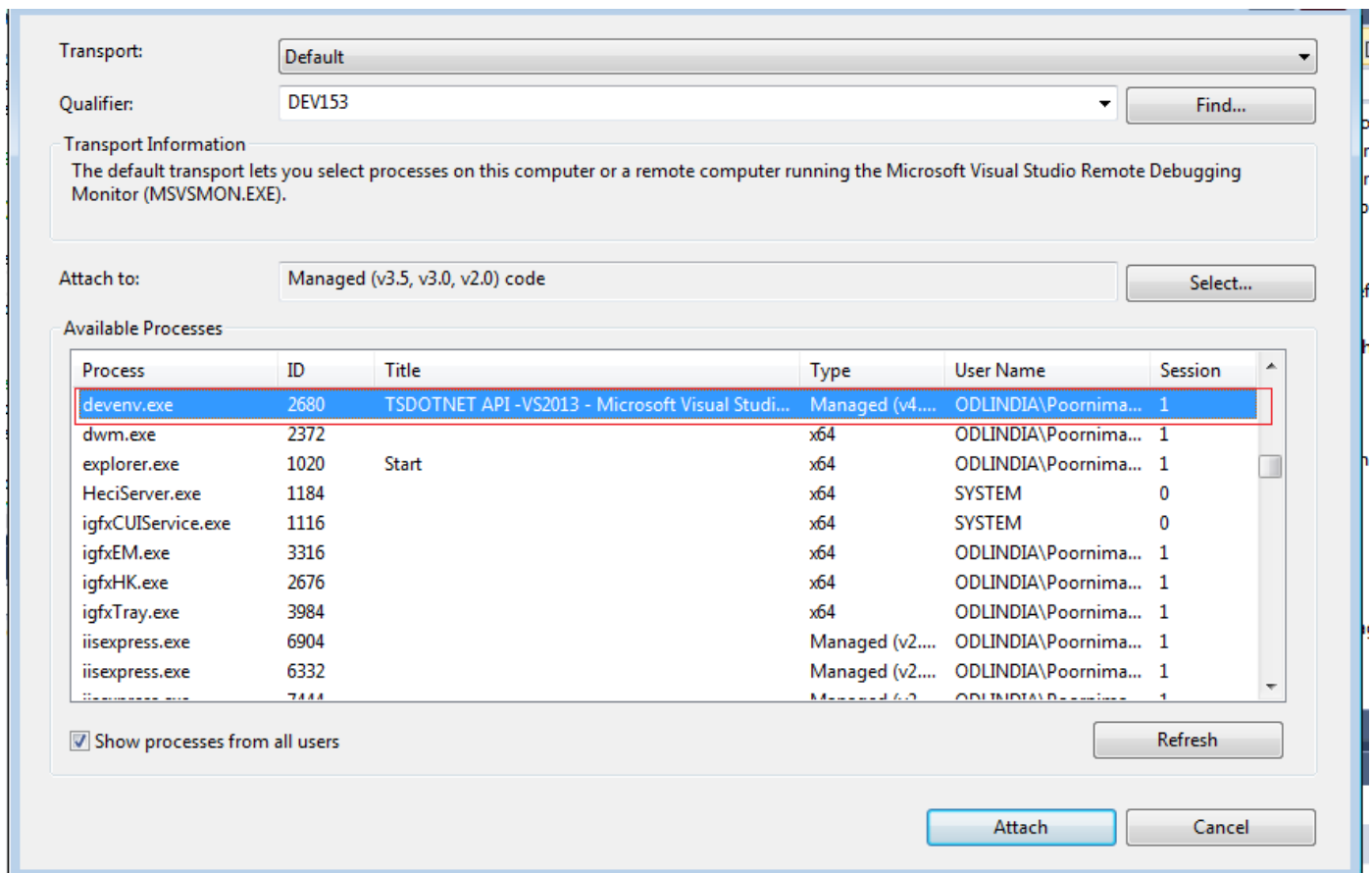
- Run TSV2 using Local IIS instead of IIS express and check if issue goes off. Setting is to be done in website projects property page
- Close IIS express, delete all breakpoints. Run and see if it works.
- If it does not work then right click login page and run it in browser. Log-in and check if it works. If it works then try running the solution in debug mode
- For debugging API attach the devenv.exe of TSDOTNETAPI project from TSV2 as show in the screenshot below :

Incase you are not able to debug code try the following setting

<http://weblog.west-wind.com/posts/2013/Nov/21/Visual-Studio-2013-Could-not-evaluate-Expression-Debugger-Abnormality>

This may be a temporary fix. We will check if this could be handled differently

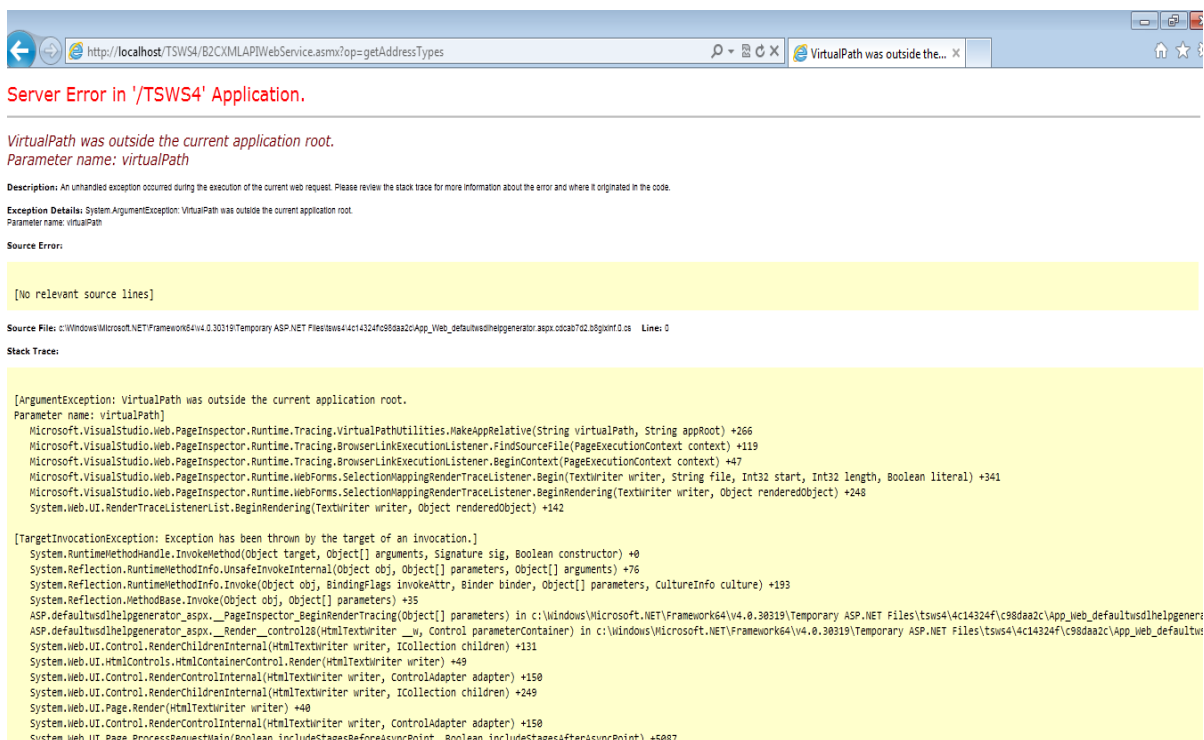




## 4.2 Runtime Errors .NET 4.5

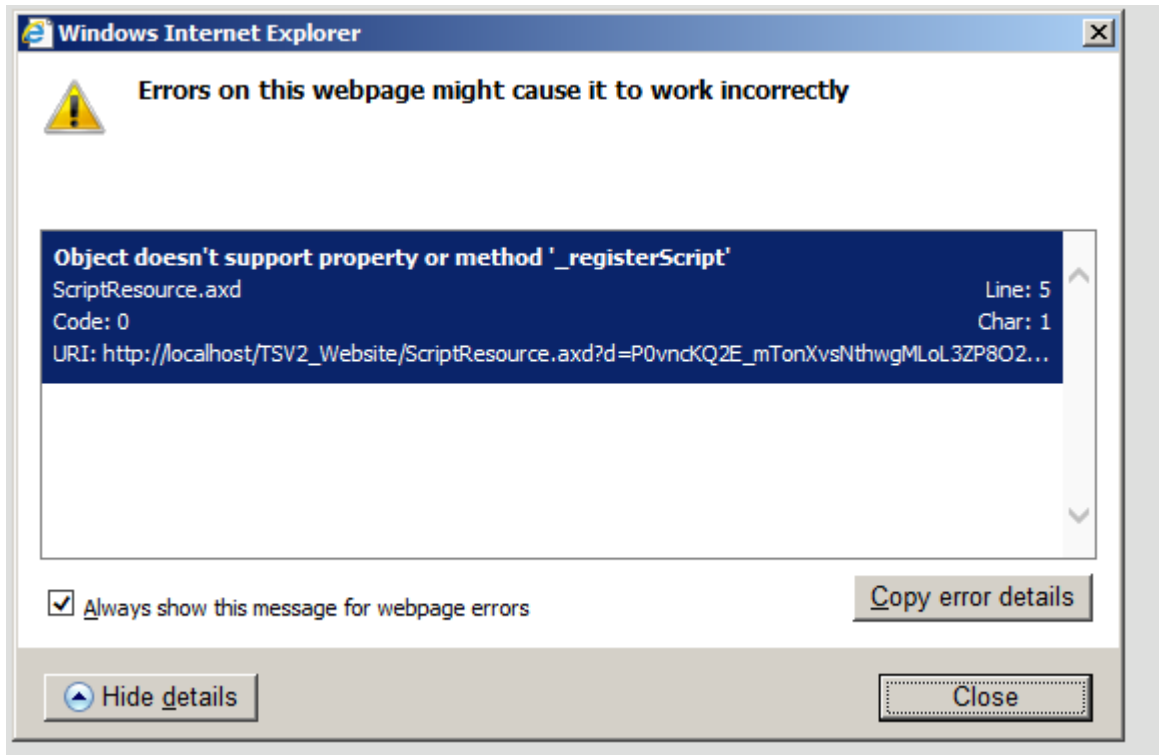
1. TSDOTNETAPI : On invoking a web method, get this following error:

Soln: <add key="vs:EnableBrowserLink" value="false"/> in the web.config file.



### 4.3 \_RegisterScript Javascript error Issue with Framework 4.5.2 testing in TSV2

In some places it may give javascript error for RegisterScript



Copy latest MicrosoftAjax.js file into the scripts folder of TSV2 to resolve the error



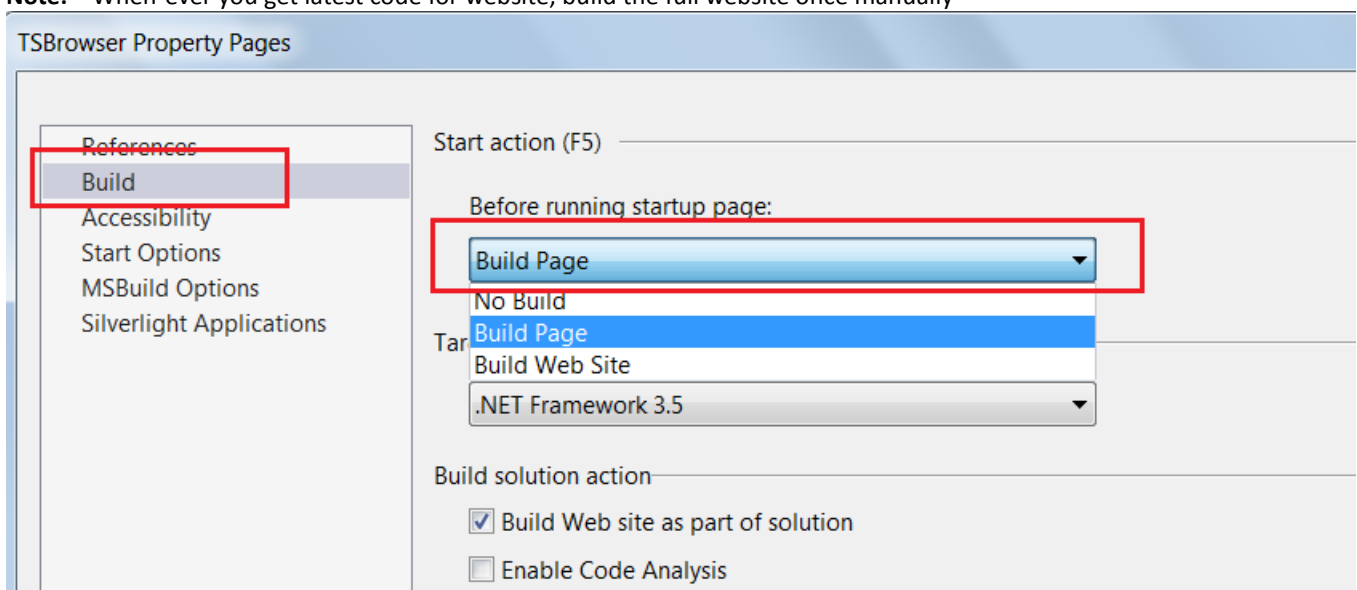
MicrosoftAjax.js

### 4.4 VS2013 is slow

#### Build Page

Website builds each and every folder. To speed up the build set the build to build page in Website project properties. This will only build the page at run-time which u are accessing.

**Note:** When-ever you get latest code for website, build the full website once manually



## Source Control

If source control is set as “Visual Studio Team Foundation” it may slow down the system.  
Set it o “AnkhSVN” and check

