Integration Objects'

.NET Toolkit for OPC DA/HDA/A&E Client Applications Development

OPC .NET Client Toolkit
Version 3.0 Rev.0

QUICK USER GUIDE

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ABOUT THIS USER GUIDE

This guide is a step by step guide that lists the main steps on how to install, configure and run OPC .Net Client Toolkit.

INSTALLATION PRE-REQUISITES

In order to properly run any OPC Client developed by using the OPC .NET Client Toolkit, install these software components on the target system:

- The OPC core components 3.00 which consist of all shared OPC modules including the DCOM proxy/stub libraries, the OPC Server Enumerator, .NET wrappers, etc.
  You can alternatively apply the OPC Core Components 3.00 Redistributable delivered with the current package or download it from the OPC Foundation site (www.opcfoundation.org).
- .NET Framework 4.6.1 or higher
- .NET Core 3.1 or higher.

INSTALLING OPC .NET CLIENT TOOLKIT

To install the OPC .NET Client Toolkit, run the installation executable using an administrator account and the wizard will take you through the different installation steps.

If you are evaluating the OPC .NET Client Toolkit, make sure to select demo version in the setup type dialog. Otherwise, select full version. The evaluation license allows you to use the toolkit for 30 days and limits the runtime to 2 hours.

COMPILING AND LINKING APPLICATIONS

This section provides the steps on how to compile and correctly link applications to develop a custom OPC clients using Integration Objects' OPC Client .NET Toolkit with Microsoft Visual Studio 2017.

For users who have to build the application in a **32-bit** machine, the target platform has to be **x86** as illustrated in the screenshot below.
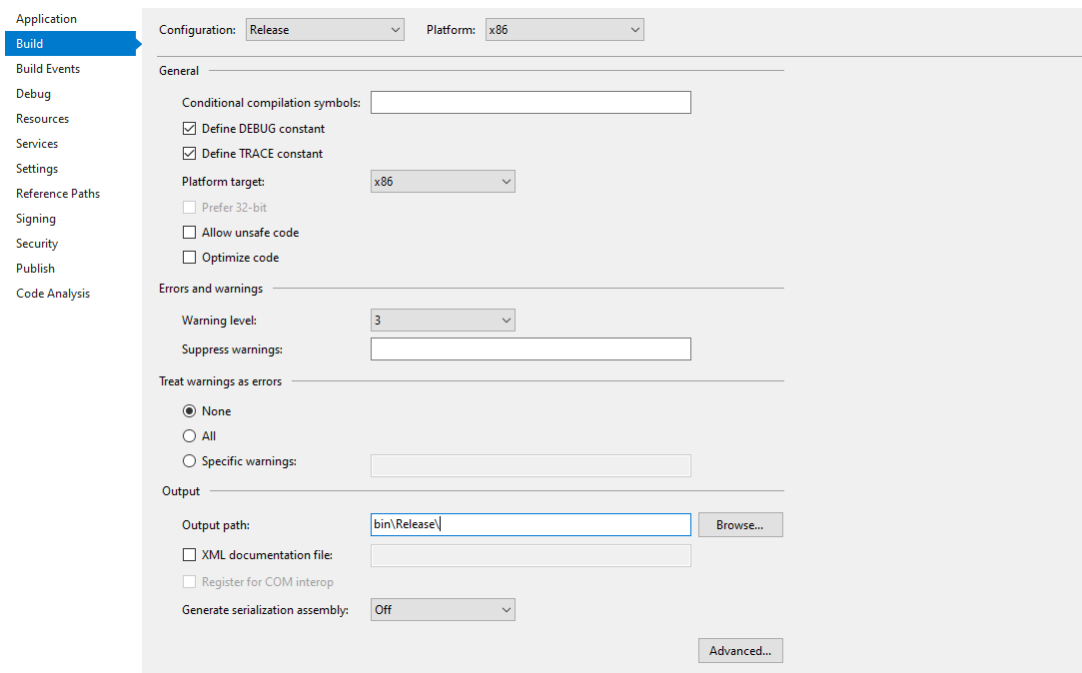
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Figure 1: Platform Target for 32-bit Machine

For users who have to build the application in a **64-bit** machine, the target platform has to be **Any CPU** as illustrated in the screenshot below.
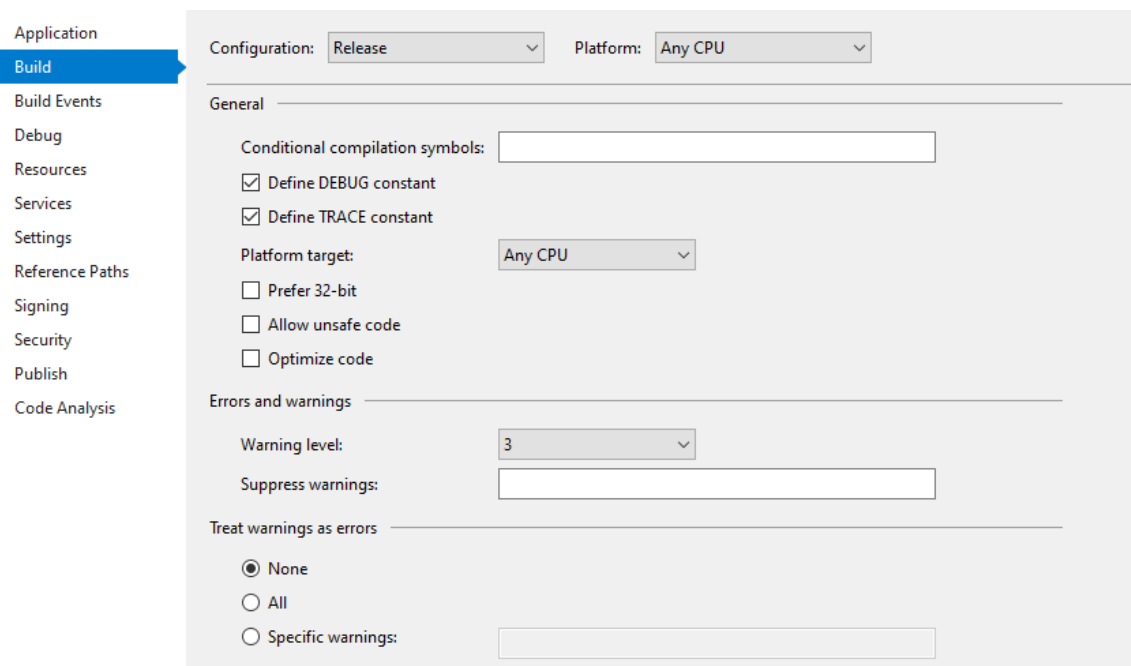

Figure 2: Platform Target for 64-bit Machine

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1.1. Step 1

Start Visual Studio 2017 and choose **New Project**. The following window will be displayed.
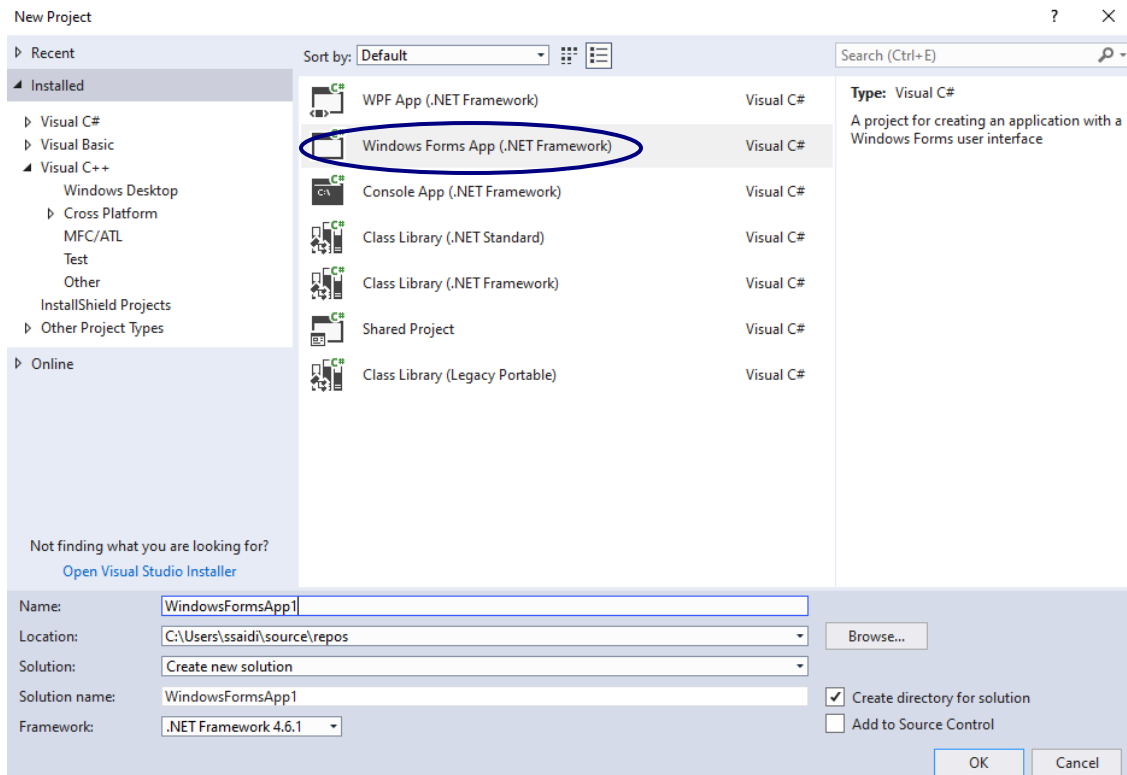

Figure 3: New Windows Forms Project

Choose Visual C# **Windows Forms Application** Project and then click **OK**.

1.2. Step 2

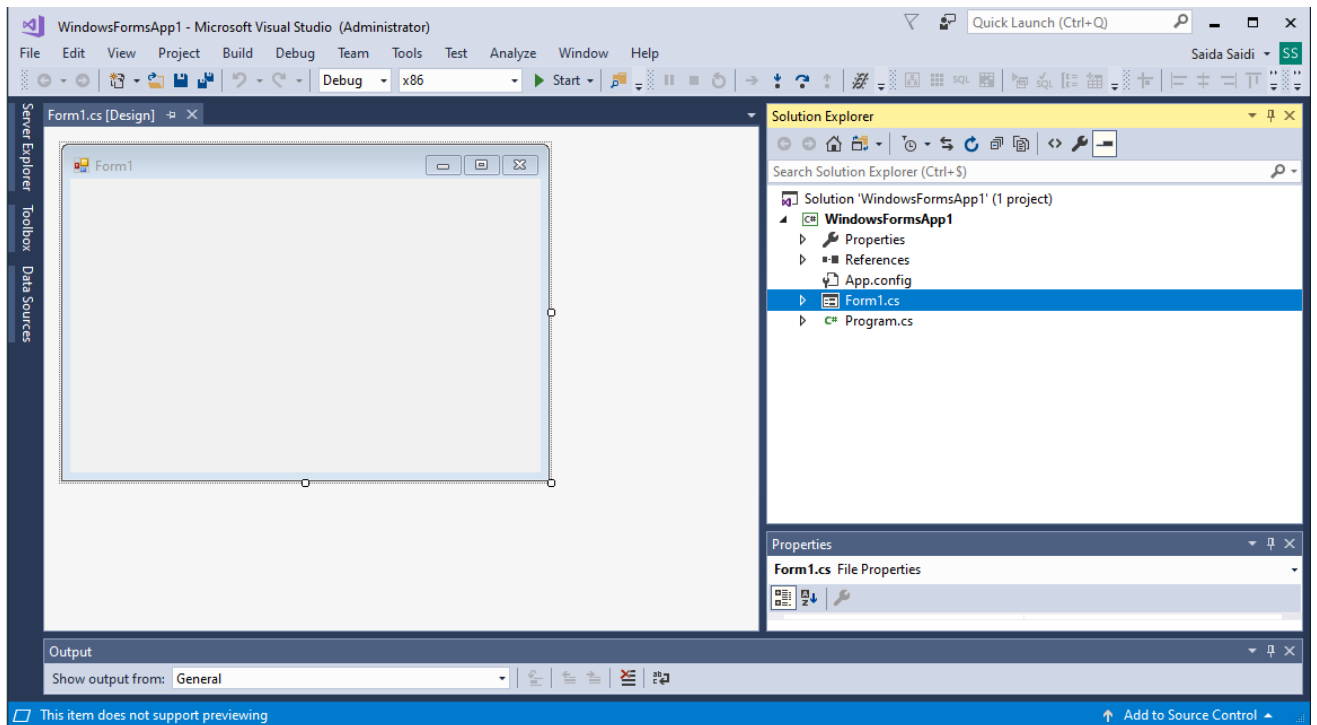A project named WindowsFormsApp1 with a form called Form1 will be automatically created.

Figure 4: Windows Forms Project Template

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1.3. Step 3

Add reference to the OPC .NET Client Toolkit as shown below.

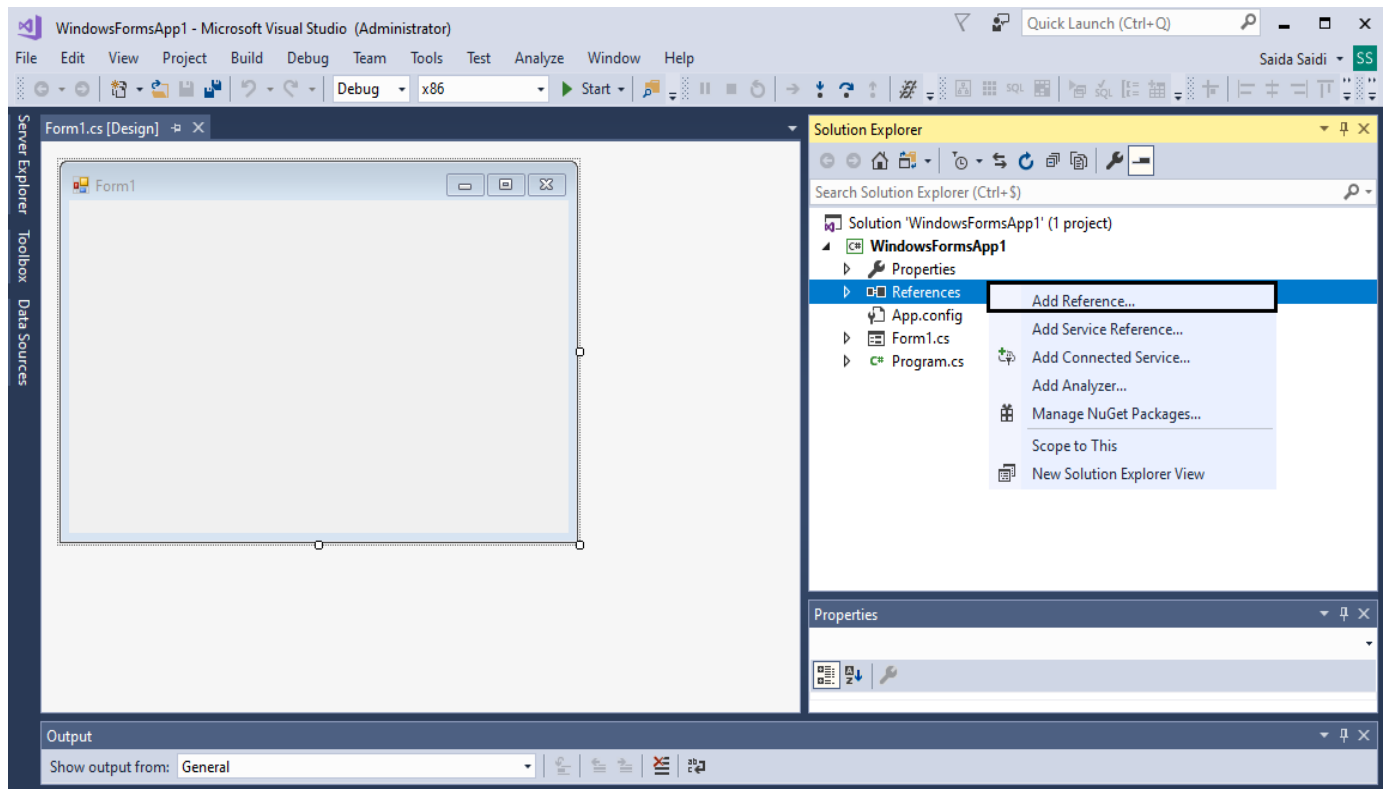1. Right click on References then click Add Reference… from the displayed menu.

Figure 5: Solution Explorer

2. Select Browse tab from the displayed Add Reference window.

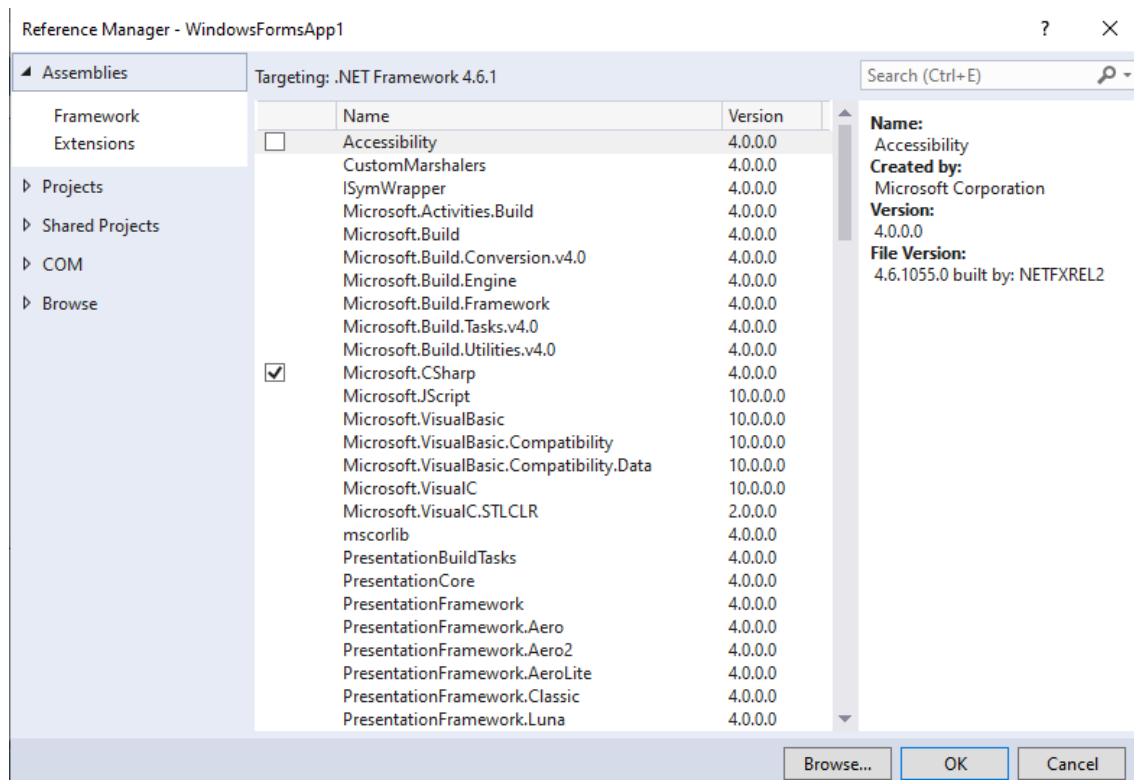customerservice@integrationobjects.com

Figure 6: Adding a Reference

3. Select **IntegrationObjects.OPCNetClientSDK.dll** located under: **.:\Program Files\Integration Objects\Integration Objects' OPC .NET Client Toolkit\bin**
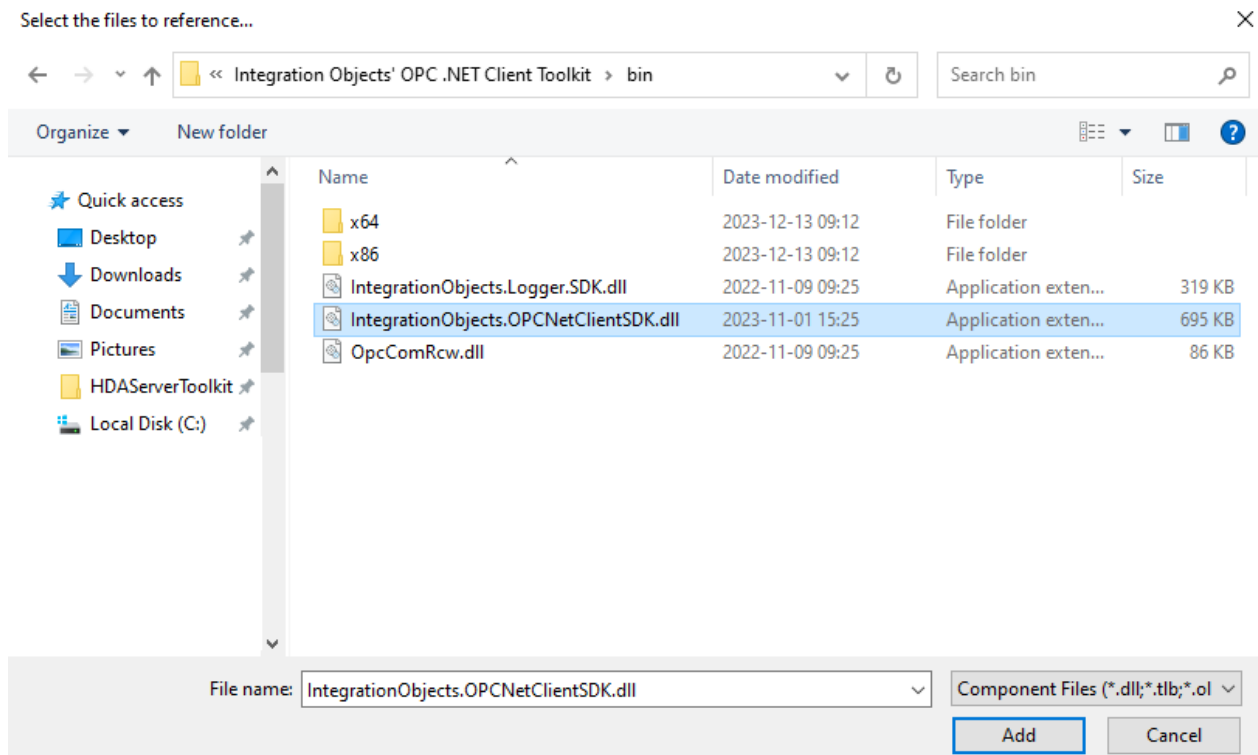
Figure 7: Choosing a Reference

> If OPC .NET Client Toolkit license changed to full license, make sure to reference the new full version .dll files on the application sample project or to copy them under the output folder.

DEPLOYING A RUNTIME DISTRIBUTION

In order to deploy the client application in the runtime machine, follow the steps below:
1. Create a new folder
2. Copy the following files to this new folder:
   - ConfigOPCClientSDK.ini
   - IntegrationObjects.Logger.SDK.dll
   - IntegrationObjects.OPCNetClientSDK.dll
   - License.dll
   - OpcComRcw.dll
   - The application executable and any other custom depending assembly
3. Move the folder to the runtime machine

> Make sure that OPC .NET Client Toolkit is not installed in the runtime machine and that the path of the application folder does not include the words "Debug" or "Release".

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For additional information on this guide, questions or problems to report, please contact:

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