Scanner library DEMO

Demo structure

This demo example is composed by:

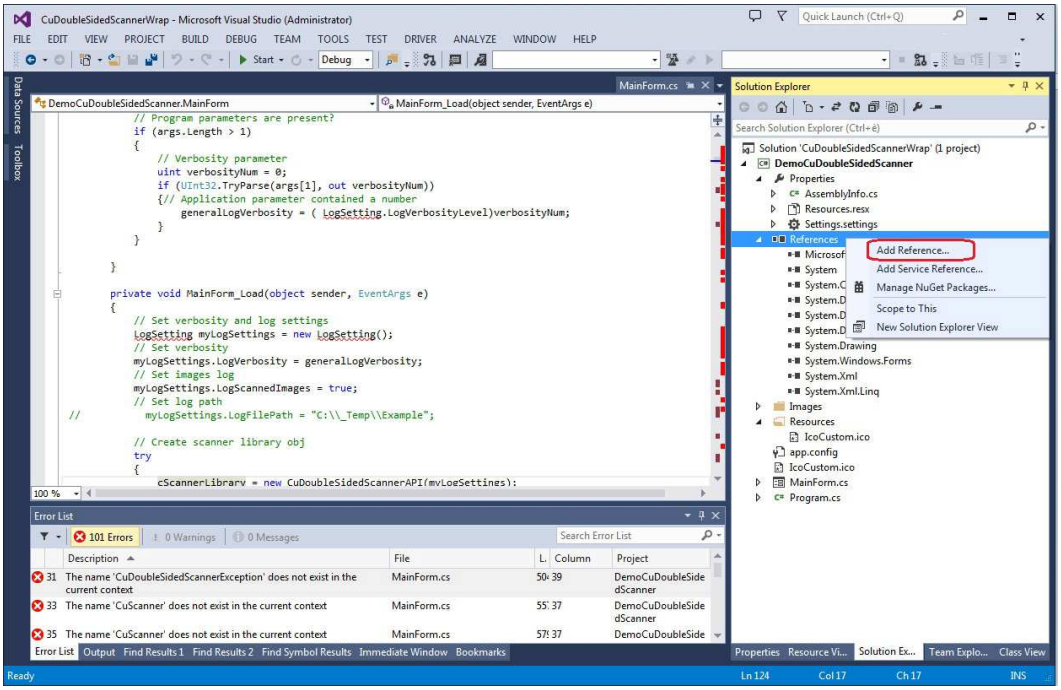
1. demo application DemoCuDoubleSidedScanner (including example code and project for Visual Studio 2013)
2. scanner library CuDoubleSidedScannerAPIWrap.dll (saved in subfolder “\Dll”), that will be loaded by the application
3. service library CuDoubleSidedScannerC.dll (saved in subfolder “\Dll”), used by CuDoubleSidedScannerAPIWrap.dll. Your application does not need to reference this service library.

Add reference

To develop your application, or build this demo, it is necessary to include the reference to CuDoubleSidedScannerAPIWrap.dll in your application project.
Do not insert CuDoubleSidedScannerC.dll in the references, it only has to stay in the same folder of CuDoubleSidedScannerAPIWrap.dll.

To load the reference, follow this steps:

1. Select “Add reference” from “Solution Explorer”



World Headquarters
CUSTOM S.p.A. *Via Berettine, 2/B - 43010 Fontevivo Parma ITALY / Tel. +39 0521 680111 - Fax +39 0521 610701*
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info@custom.biz - www.custom.biz

2. Select CuDoubleSidedScannerAPIWrap.dll from the folder “Dll\x86” or “Dll\x64”.

You need to add the reference to a x64/x86 library depending on the settings of your “Configuration Manager”: x86 library for x86 platform; x64 library for x64 platform.



3. When a reference is added, the related .dll is automatically copied into the debug and release folders.

Please remember to manually copy also the C++ dll “CuDoubleSidedScannerC.dll” to the same debug and release folders.

How to compile

DemoCuDoubleSidedScanner project can compile for x86 and x64 platforms.
The application must load the related CuDoubleSidedScannerAPIWrap.dll library: x86 library for x86 platform; x64 library for x64 platform.
AnyCPU platform is not advised, since its configuration could manage wrong data size exchanged to the library.

Software folder

The software will load the library found in the same folder, by default.
Then your application folder will contain

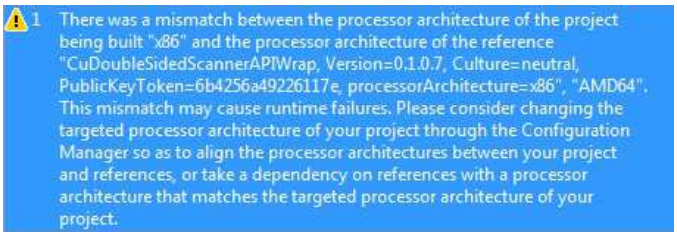
- your application
- CuDoubleSidedScannerAPIWrap.dll (you can find it in “Dll\x86” or “Dll\x64” folder)
- CuDoubleSidedScannerC.dll (you can find it in “Dll\x86” or “Dll\x64” folder)

Compile / Run issues

1. You run into this warning during compile:

“There was a mismatch between the processor architecture of the project being built "x86" and the processor architecture of the reference "CuDoubleSidedScannerAPIWrap, Version=0.1.0.7, Culture=neutral, PublicKeyToken=6b4256a49226117e, processorArchitecture=x86", "AMD64". This mismatch may cause runtime failures. Please consider changing the targeted processor architecture of your project through the Configuration

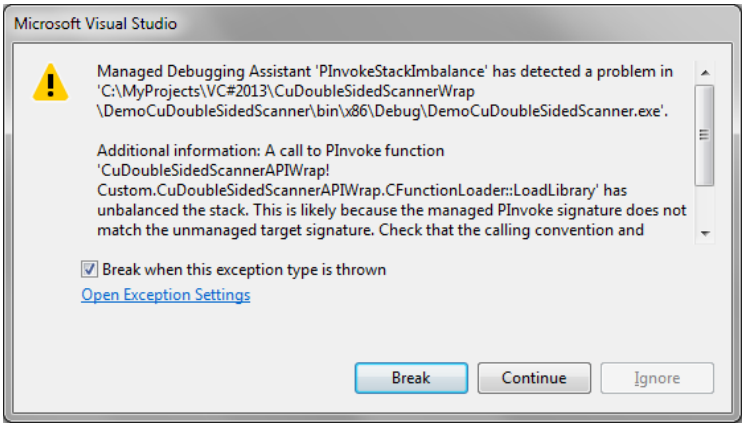
Manager so as to align the processor architectures between your project and references, or take a dependency on references with a processor architecture that matches the targeted processor architecture of your project."



It happens if you compile both x64 and x86 platforms, because it is not possible to debug x86 platform, if the system you are using is x64, and viceversa.

This issue is valid only for Visual Studio Debug; however it does not affect the built applications, both x64 and x86, that will be fully working in release mode.

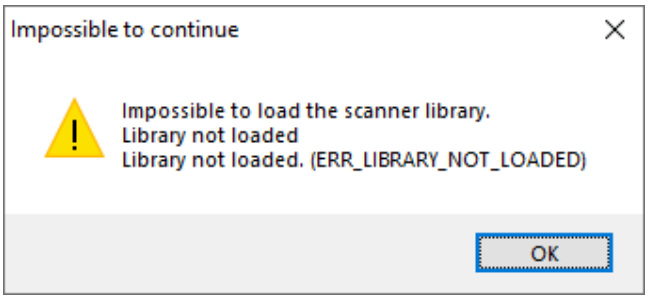
2. If you run into this message



it means that you are running a 64 bit application on a 32 bit based system, or viceversa.
Please modify the default platform from the Configuration Manager.

Once you have selected the correct platform you need to load the correct reference (x64 / x86).

3. If you run into this message



you have to copy the C++ dll (CuDoubleSidedScannerC.dll) in the same folder of CuDoubleSidedScannerAPIWrap.dll.
If you are running in Debug mode, check the debug folder where the exe is created.

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