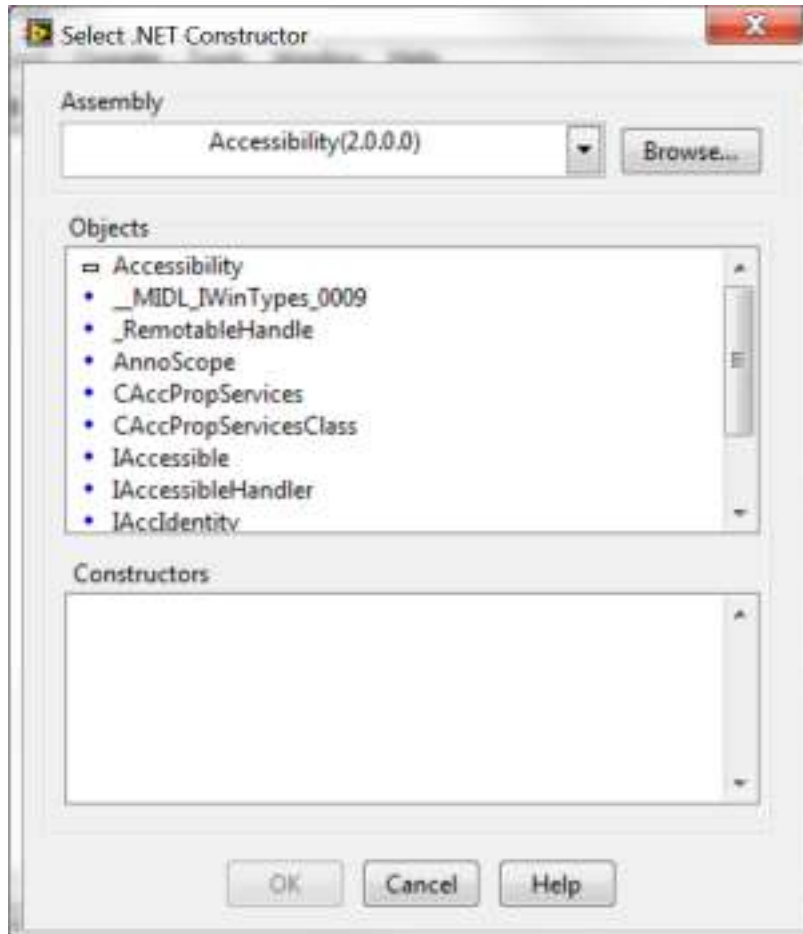


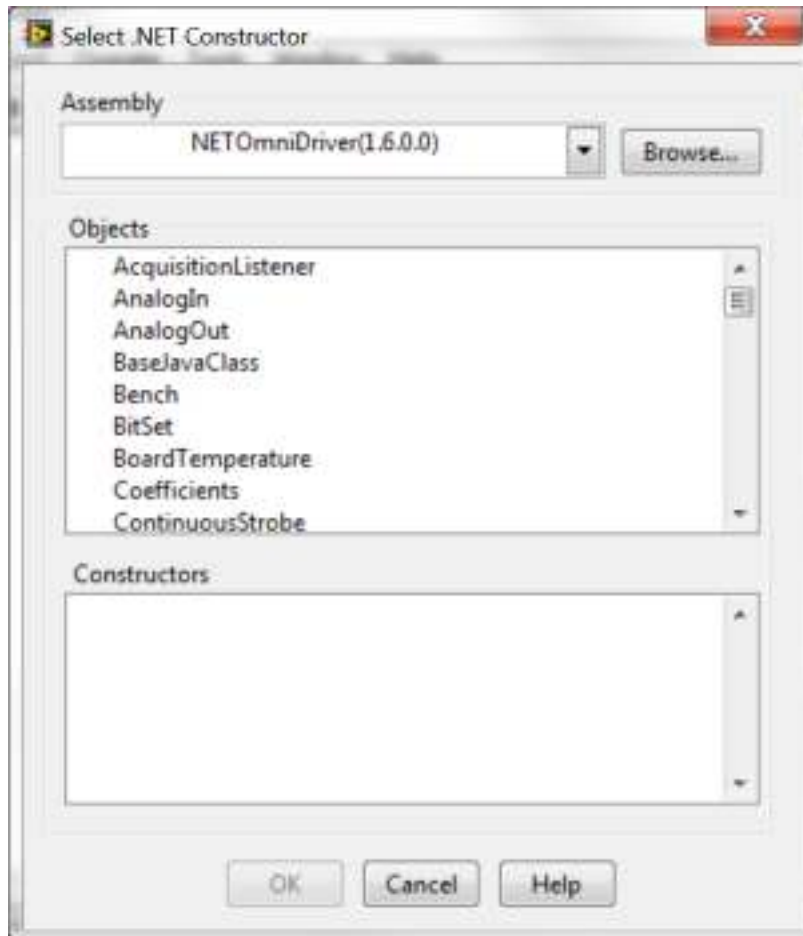
How to use the .NET interface to OmniDriver in LabVIEW

1. NETWrapper constructor

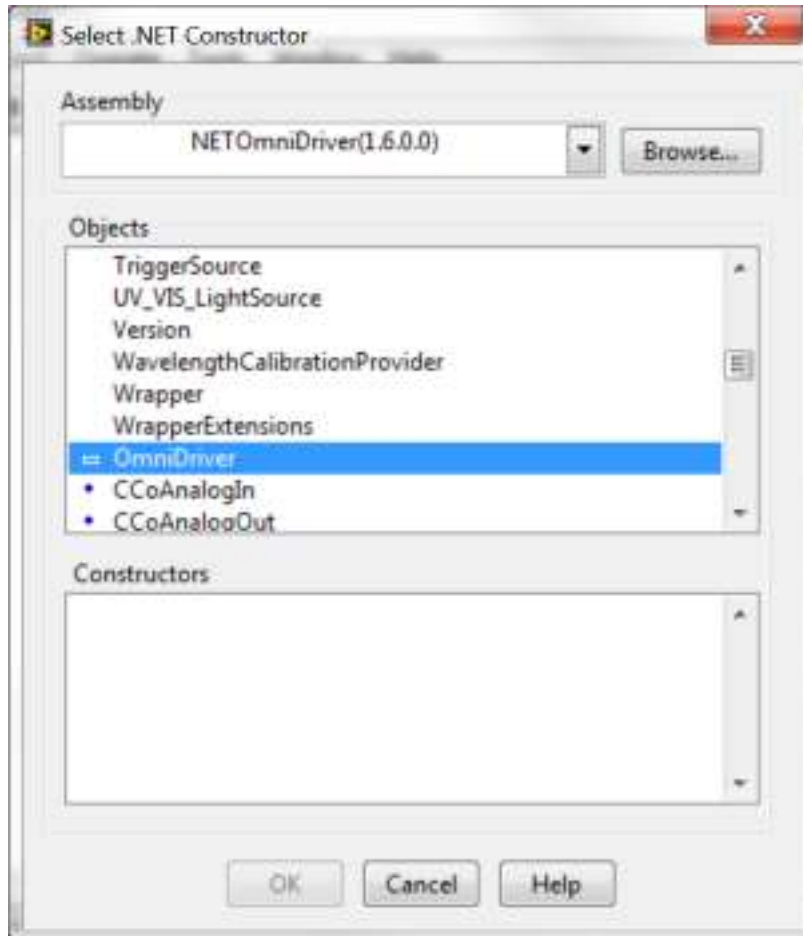
- a. Right click on a block diagram and select Connectivity / .NET / Constructor Node and then click on the block diagram.



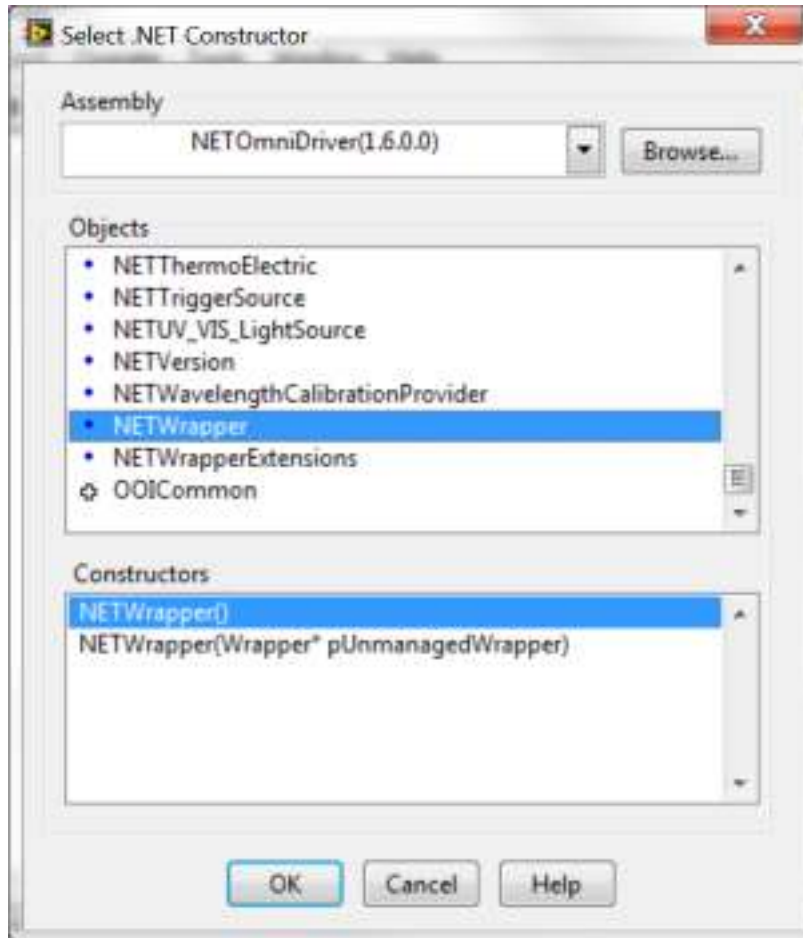
- b. Click the “Browse” button in the upper-right and navigate to the OOI_HOME directory and select the appropriate DLL file. For .NET 2.0 (LabVIEW 7.1-2012, use NETOmniDriver-20.dll and for .NET 4.0, use NETOmniDriver-40.dll (LabVIEW 2013), and useNETOmniDriver.dll for OmniDriver 2.20 or older where .NET 2.0 and .40 DLL files were located in separate installers.



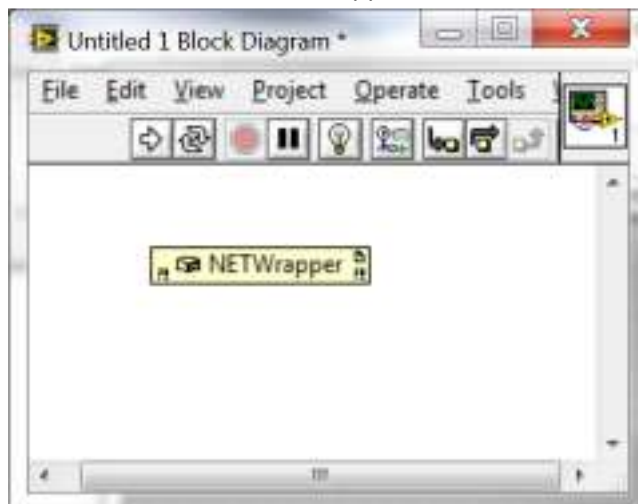
- c. In the “Objects” listbox, scroll all the way to the bottom and double-click the line that says “OmniDriver.”



- d. Again, scroll all the way to the bottom of the listbox and select “NETWrapper.” Then, click the “OK” button.

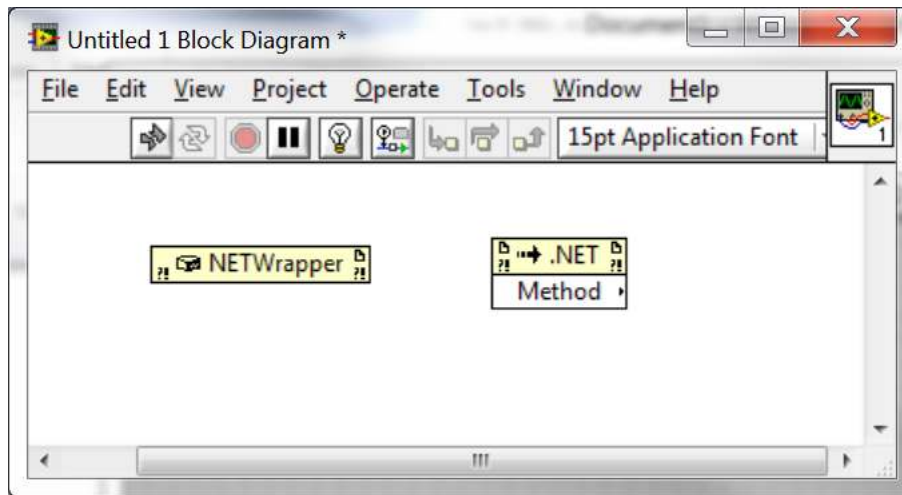


- e. You will then have a NETWrapper constructor.

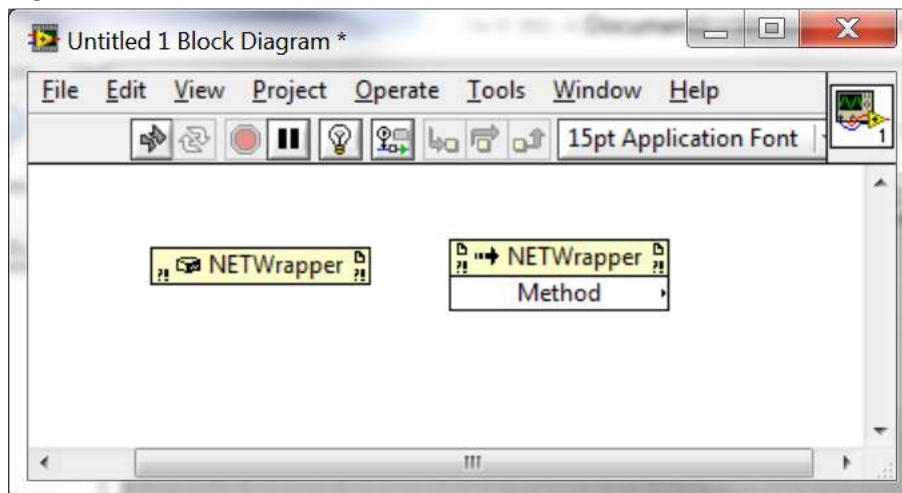


2. Methods

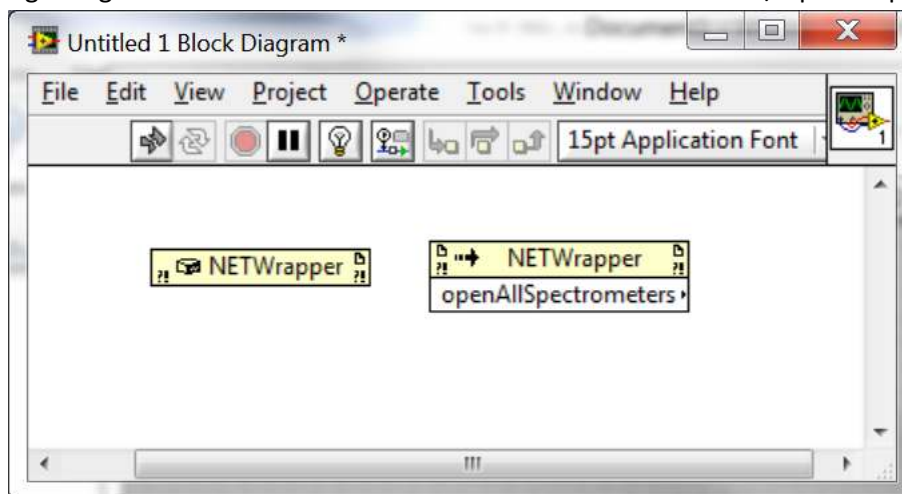
- a. Right click on the block diagram and select Connectivity / .NET / Invoke Node (.NET) and then click on the block diagram.



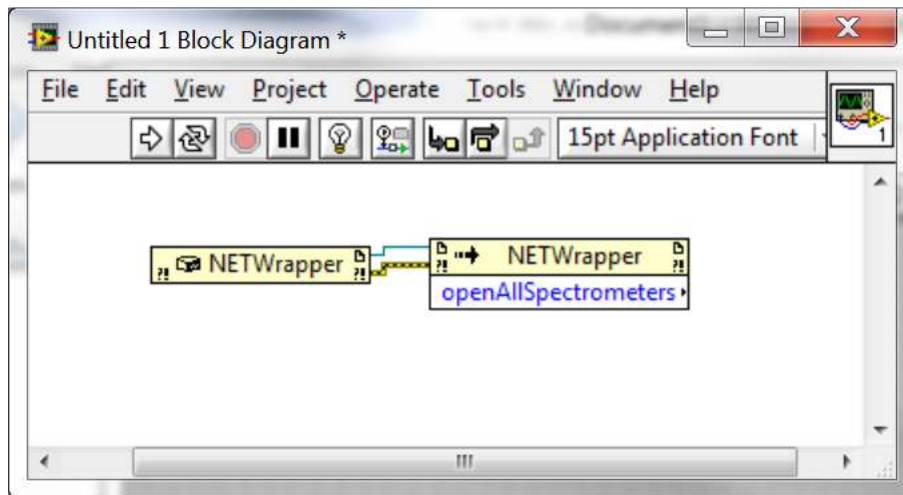
- b. Right-click on the invoke node and choose Select Class / .NET / OmniDriver.NETWrapper



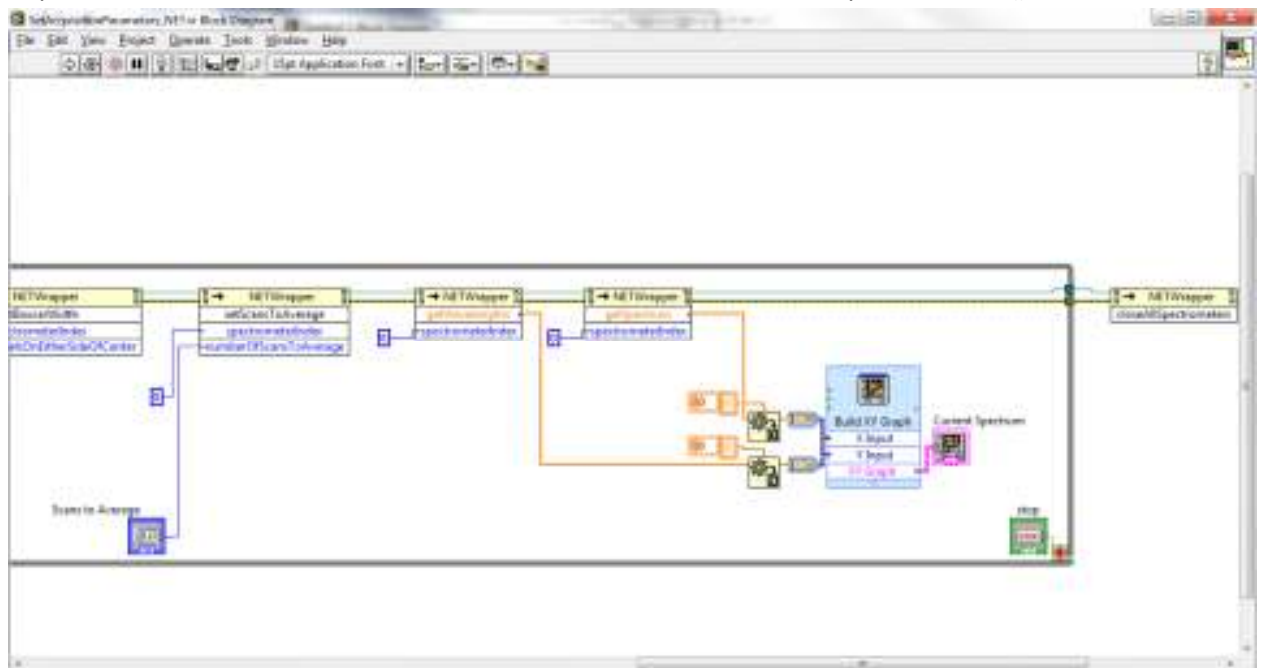
- c. Again right-click on the invoke node and choose Select Method / openAllSpectrometers().



- d. Connect the reference and error wires.

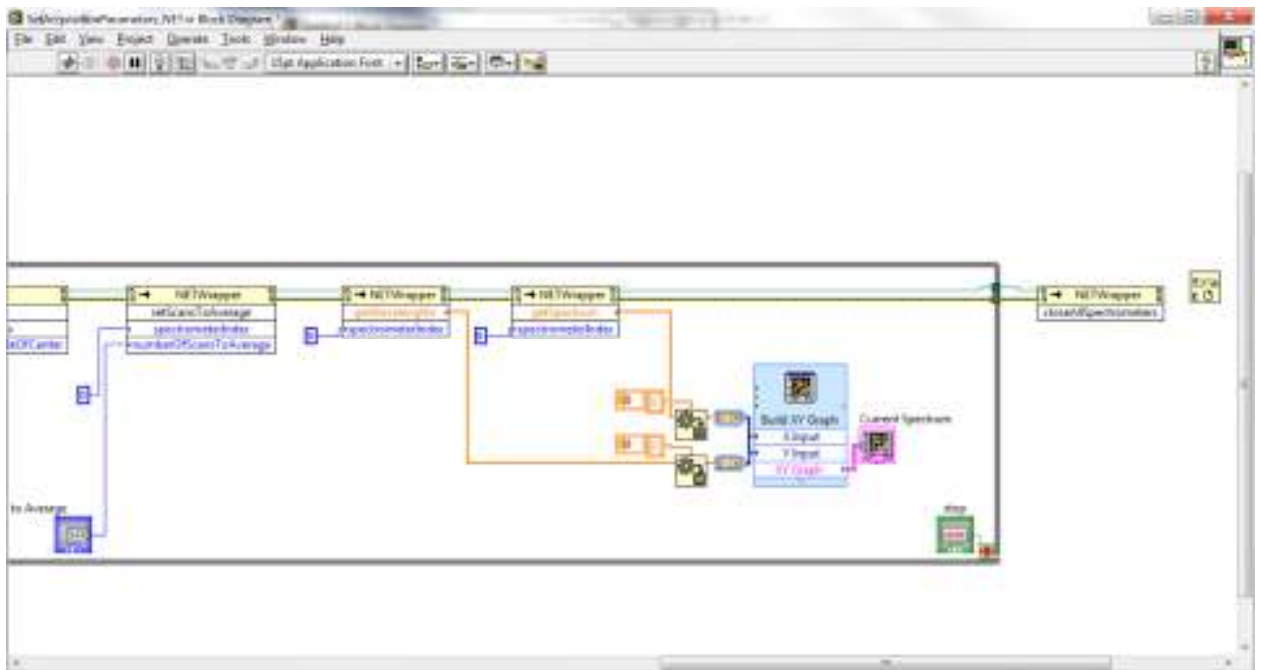


- e. Repeat until all needed methods are used. Place the method closeAllSpectrometers() at the end.



3. Close Reference

- a. Right click on the block diagram and select Connectivity / .NET / Close Reference and then click on the block diagram.



- b. Connect the reference and error wires to complete the VI.

