Manual for how to use the DLL

Write by Tommy

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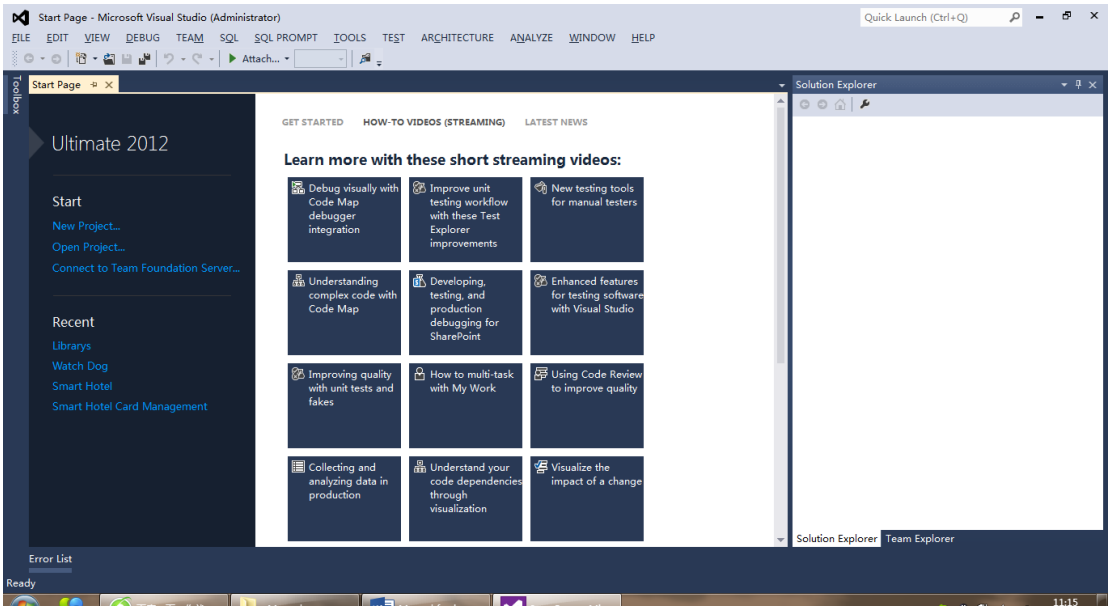
1. *Download the DLL from the internet*

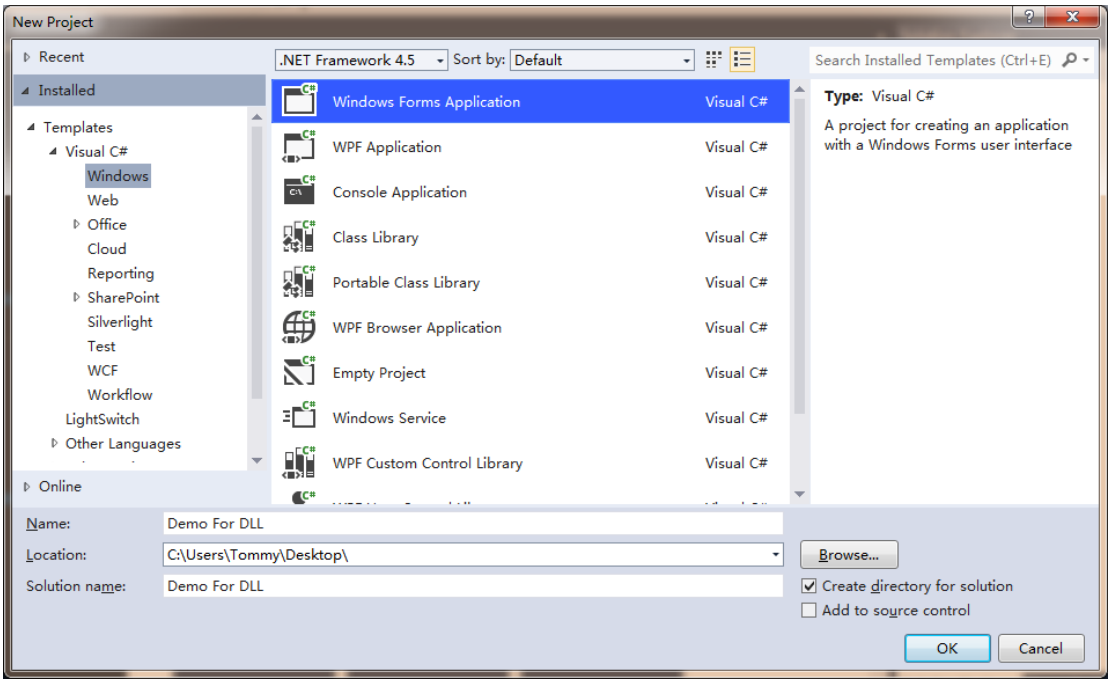
1> Download link as below
http://smarthomebus.com/dealers/Softwares/SmartBus%20Protocol/DLL%20for%20Smart%20Bus%20protocol.rar

2. *How to use the DLL in your project*

1> Open the Visual Studio 2012 or lower version tools



2> Click “New Project...”

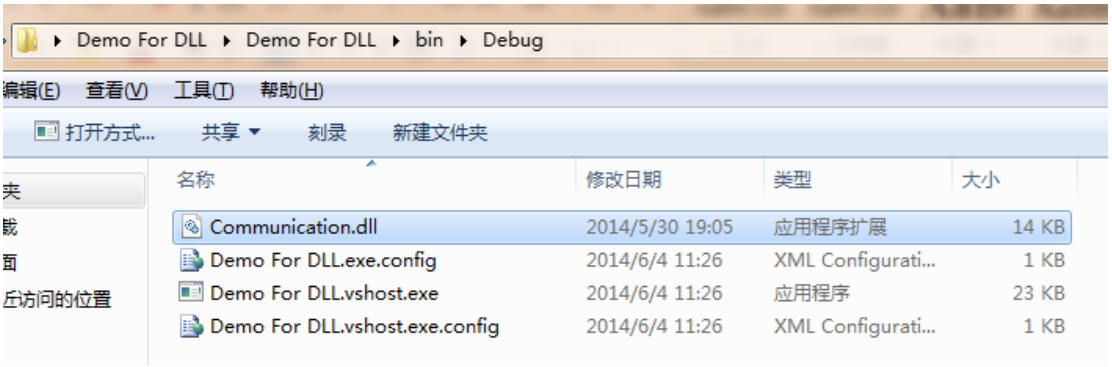


o> In order to choose “Installed” -> ” Templates” -> “Visual C#” -> “Windows” in the left panel

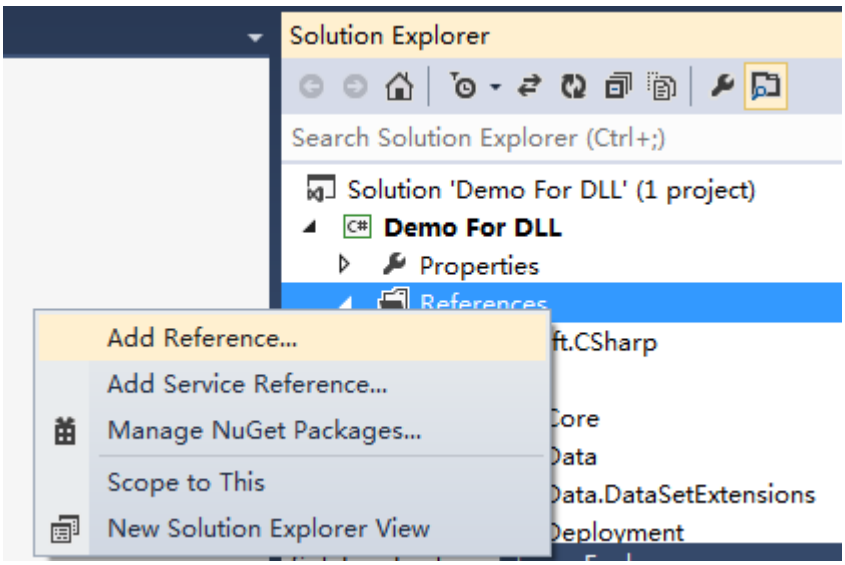
o> Choose “Windows Forms Application” in the middle part

o> Click the “OK” button after finish input the project name, location, solution name

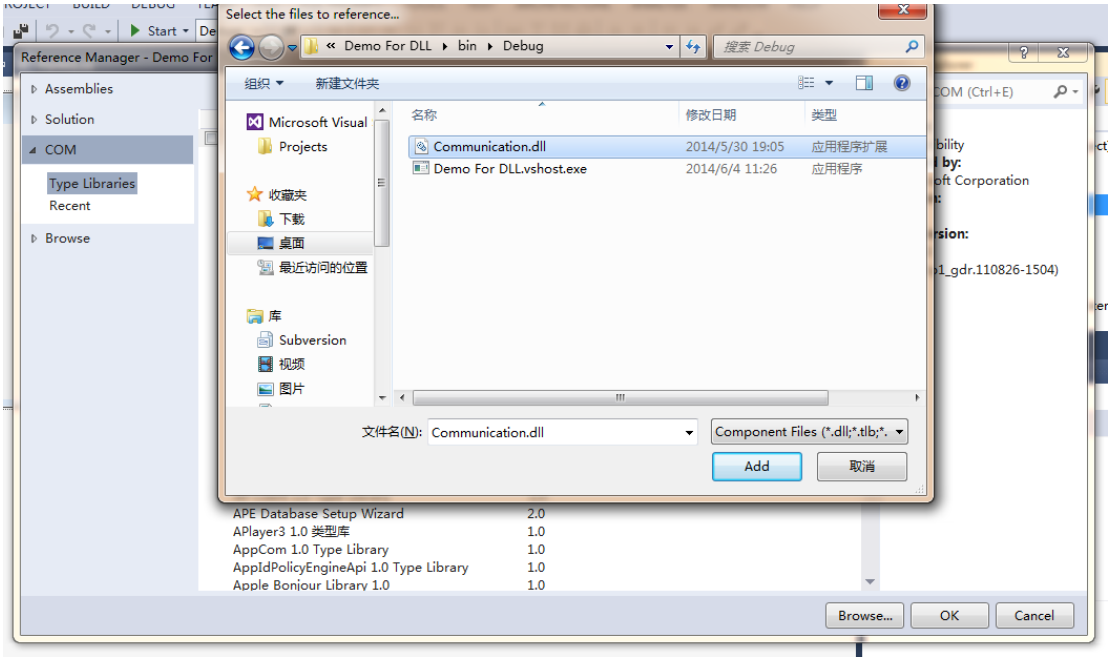
3> Copy the “Communication.dll” into your project



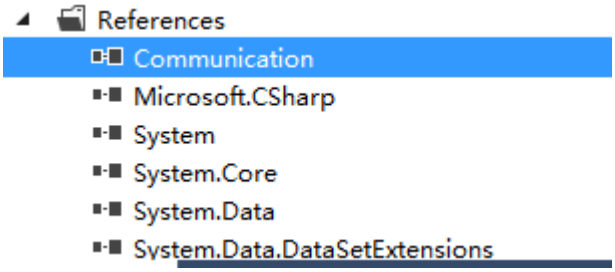
4> Open your project, right-click on the “References” and click “Add Reference...” menu



5> Click "Browse..." button, and find the location of the "Communication.dll", then click "Add" button



Then you will see a reference named "Communication"



3. *Definition of DLL*

1> Initialization the DLL

```
//Definition of a DLL instance variables
Communication.Communication com = new Communication.Communication();

//Set the local IP Address
com.localIPAddress = com.GetLocalIPAddressList()[0];

//Initialization the socket module by LAN model
com.InitSocket(Communication.Communication.PortType.PT_LAN);
```

2> Add intercept the callback event

```
//Add intercept the callback event
com.DataArrival += com_DataArrival;

//When a data packet arrived, this event will be trigger
void com_DataArrival(byte subnetID, byte deviceID, int deviceType, int
operateCode, int lengthOfAddtional, ref byte[] addtional)

{
      //Enter your code here
}
```

3> Example of the Lighting Control

```
//Open light
byte[] addtional = new byte[4];
addtional[0] = 255; //All channels
addtional[1] = 100; //Brightness 100%
addtional[2] = 0;   //Delay Time 0
addtional[3] = 0;   //Delay Time 0
com.Send_LAN(1, 75, 0x0031, ref addtional);

//Close light
byte[] addtional = new byte[4];
addtional[0] = 255; //All channels
addtional[1] = 0;   //Brightness 0%
addtional[2] = 0;   //Delay Time 0
addtional[3] = 0;   //Delay Time 0
com.Send_LAN(1, 75, 0x0031, ref addtional);
```

4> Example of scan device online

```
com.LAN_Scan_Device_Online();
com.LAN_Scan_Device_Online(1, 100);
```