

Manual for how to use the DLL

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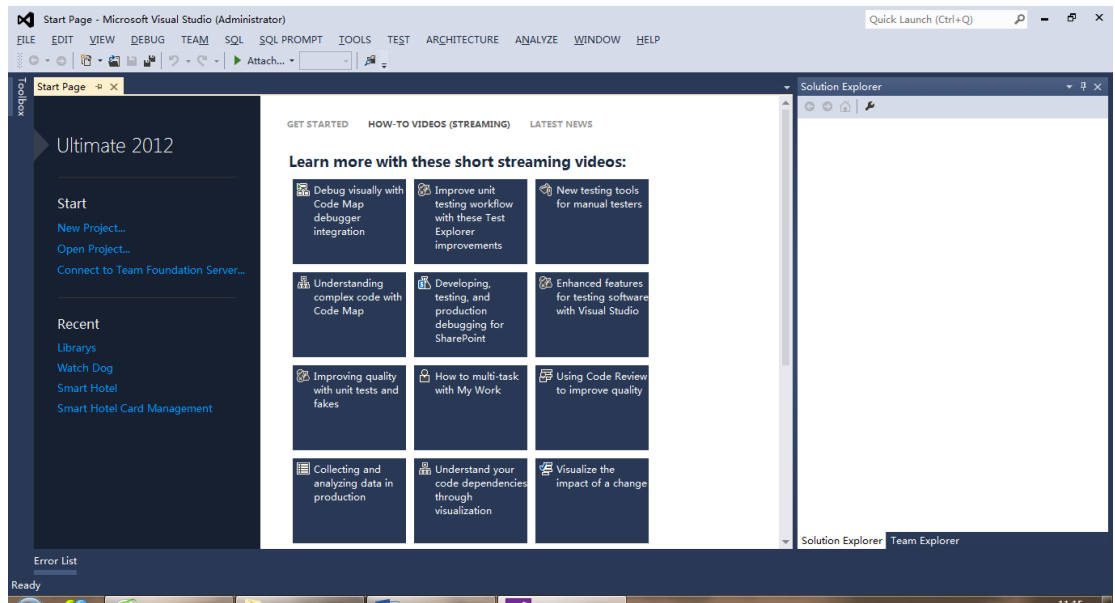
1. Download the DLL from the internet

1> Download link as below

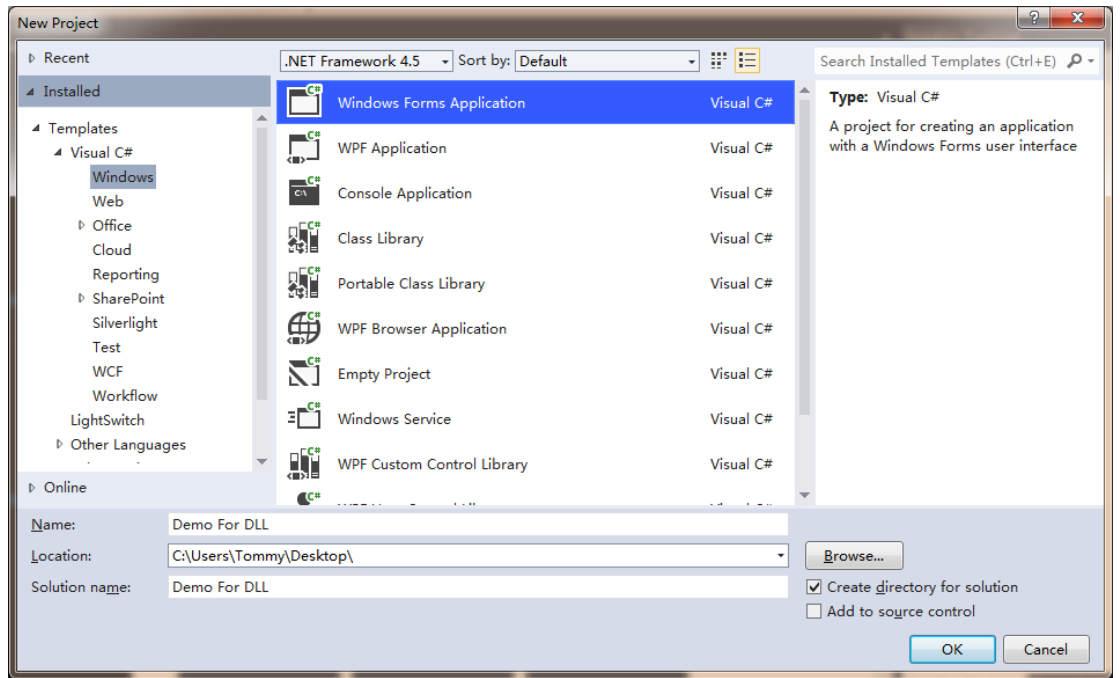
<http://smarhomebus.com/dealers/Softwares/SmartBus%20Protocol/DLL%20for%20Smart%20Bus%20protocol.rar>

2. How to use the DLL in your project

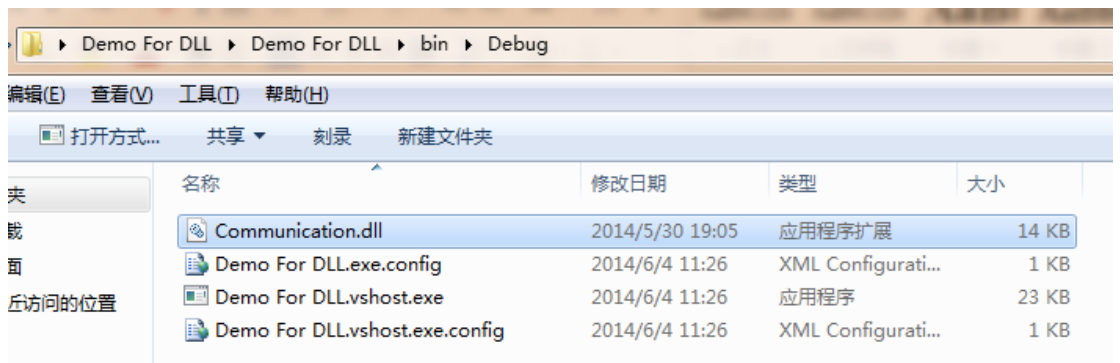
1> Open the Visual Studio 2012 or lower version tools



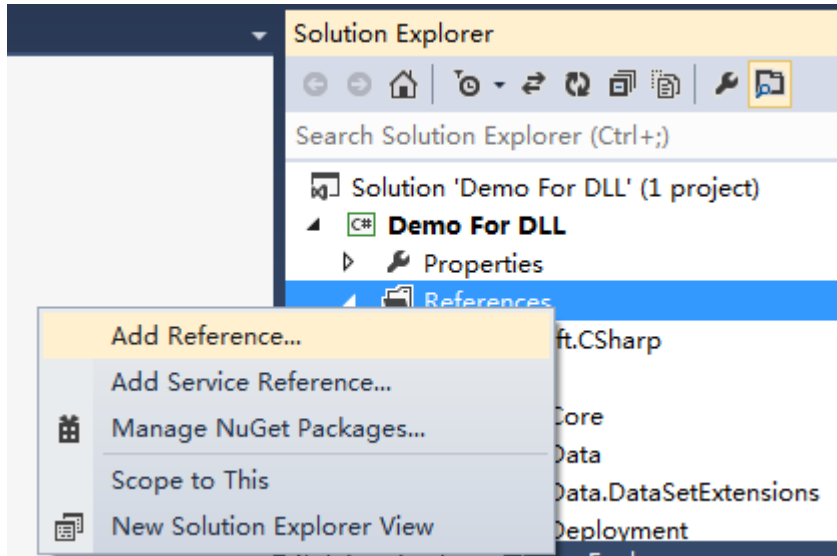
2> Click “New Project...”



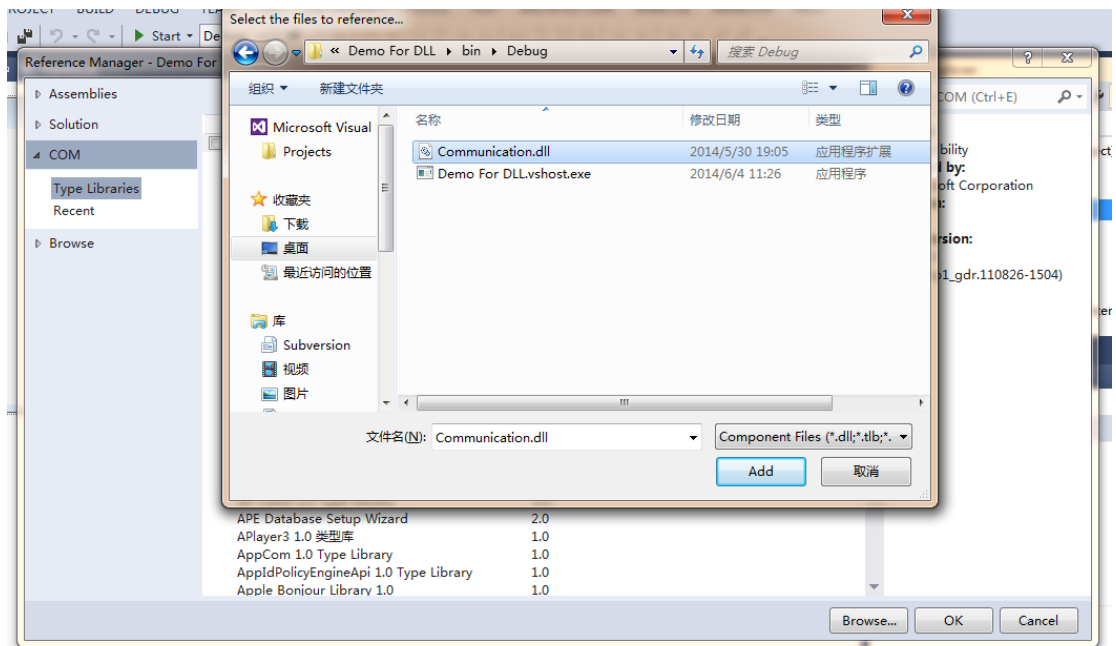
- o> In order to choose “Installed” -> ” Templates” -> “Visual C#” -> “Windows” in the left panel
- o> Choose “Windows Forms Application” in the middle part
- o> Click the “OK” button after finish input the project name, location, solution name
- 3> Copy the “Communication.dll” into your project



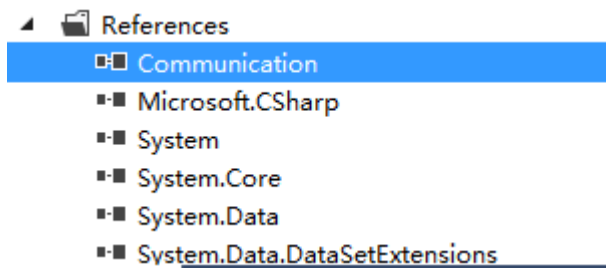
- 4> Open your project, right-click on the “References” and click “Add Reference...” menu



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 lengthOfAdditional, ref byte[] additional)

{
    //Enter your code here
}
3> Example of the Lighting Control
//Open light
byte[] additional = new byte[4];
additional[0] = 255; //All channels
additional[1] = 100; //Brightness 100%
additional[2] = 0; //Delay Time 0
additional[3] = 0; //Delay Time 0
com.Send_LAN(1, 75, 0x0031, ref additional);

//Close light
byte[] additional = new byte[4];
additional[0] = 255; //All channels
additional[1] = 0; //Brightness 0%
additional[2] = 0; //Delay Time 0
additional[3] = 0; //Delay Time 0
com.Send_LAN(1, 75, 0x0031, ref additional);
4> Example of scan device online
com.LAN_Scan_Device_Online();
com.LAN_Scan_Device_Online(1, 100);

```