

## Advantech AE Technical Share Document

Date	2017/10/11	SR#	1-3041345611
Category	■FAQ □SOP	Related OS	N/A
Abstract	WISE-40XX, How to use DIO function with library sample code		
Keyword	WISE, Comparison table, disconnection, system log		
Related Product	WISE-4012, WISE-4012E, , WISE-4050, WISE-4051, WISE-4060		

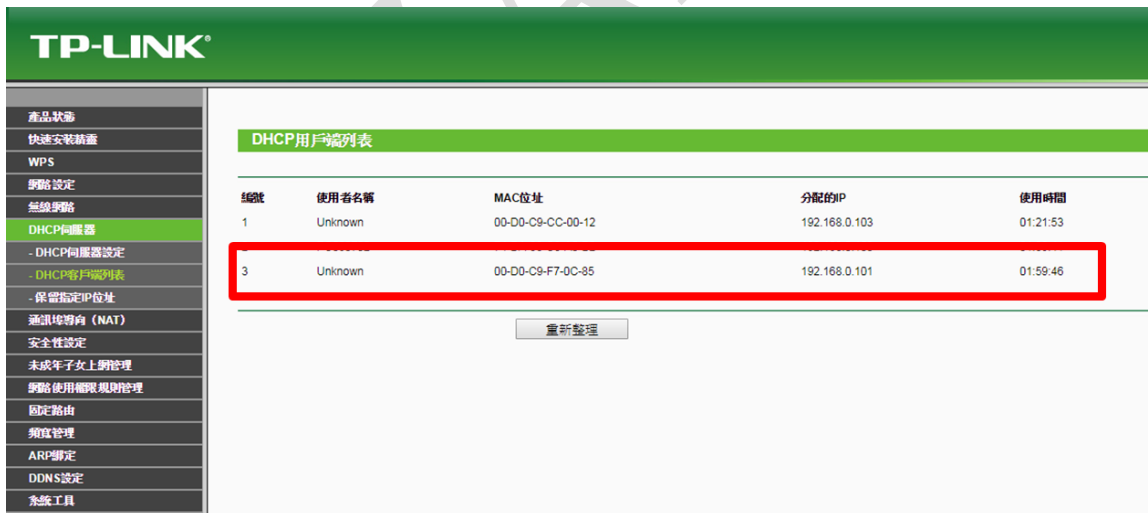
### ■ Problem Description:

There are only DI bottoms in .NET library sample code provided by Advantech after installed.  
What should I do if my module has DO? How to test DO function?

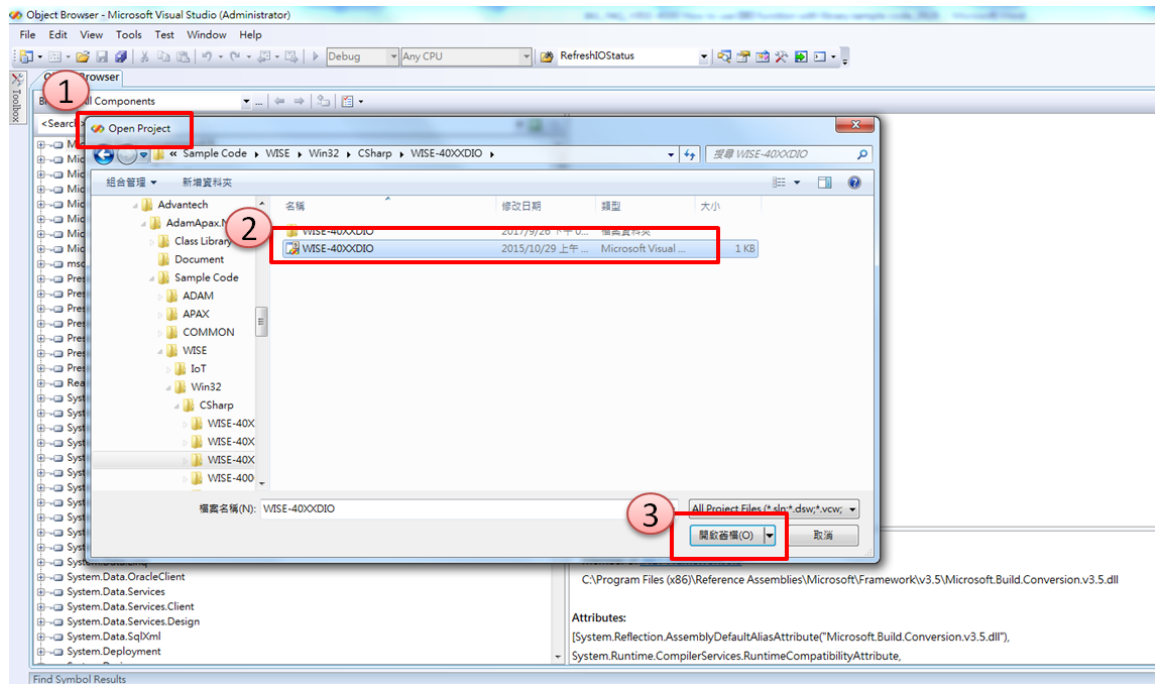
### ■ Brief Solution:

After installed the .NET library sample code provided by Advantech from following link:  
[http://support.advantech.com.tw/Support/DownloadSRDetail\\_New.aspx?SR\\_ID=1-1WMBN3&Doc\\_Source=Download](http://support.advantech.com.tw/Support/DownloadSRDetail_New.aspx?SR_ID=1-1WMBN3&Doc_Source=Download)

Step 1. Check the IP of WISE.



Step 2. Open the solution of the sample code of “WISE-40XXDIO”



Step 3. Make 3 changes in the code.

(A) The IP address of WISE according to step one.

```
// TODO: Add any constructor code after InitializeComponent call
//
m_bStart = false; // the action stops at the beginning
m_szIP = "192.168.0.101"; // device IP address
m_iPort = 80; // http port is 80
m_szAccount = "root"; // Login account
m_szPassword = "00000000"; // Login password
m_iPollingTime = 1000;
m_iSlot = 0; //Device localhost default slot is 0
```

(B) Change the model name corresponds with the one you are using.

```
//m_WISE4000Type = WISEType.WISE4050LAN; // the sample is for WISE-4050/LAN
m_WISE4000Type = WISEType.WISE4050; // the sample is for Wise-4050
//m_WISE4000Type = WISEType.WISE4051; // the sample is for Wise-4051
//m_WISE4000Type = WISEType.WISE4060LAN; // the sample is for Wise-4060/LAN
// m_WISE4000Type = WISEType.WISE4060; // the sample is for Wise-4060
```

(C) Modify the UI according to the module. WISE-4050 is used in this example. This module has 4-ch of DI and 4-ch of DO.

```
protected void IniWISE_DIO()
{
    int iDI = 0, iDO = 0;
    InitChannelItems(true, true, ref iDI, ref iDO, ref panelCh0, ref btnCh0);
    InitChannelItems(true, true, ref iDI, ref iDO, ref panelCh1, ref btnCh1);
    InitChannelItems(true, true, ref iDI, ref iDO, ref panelCh2, ref btnCh2);
    InitChannelItems(true, true, ref iDI, ref iDO, ref panelCh3, ref btnCh3);
    InitChannelItems(true, false, ref iDI, ref iDO, ref panelCh4, ref btnCh4);
    InitChannelItems(true, false, ref iDI, ref iDO, ref panelCh5, ref btnCh5);
    InitChannelItems(true, false, ref iDI, ref iDO, ref panelCh6, ref btnCh6);
    InitChannelItems(true, false, ref iDI, ref iDO, ref panelCh7, ref btnCh7);
    InitChannelItems(false, true, ref iDI, ref iDO, ref panelCh8, ref btnCh8);
    InitChannelItems(false, true, ref iDI, ref iDO, ref panelCh9, ref btnCh9);
    InitChannelItems(false, true, ref iDI, ref iDO, ref panelCh10, ref btnCh10);
    InitChannelItems(false, true, ref iDI, ref iDO, ref panelCh11, ref btnCh11);
    m_iDoTotal = iDO;
    m_iDiTotal = iDI;
}
```

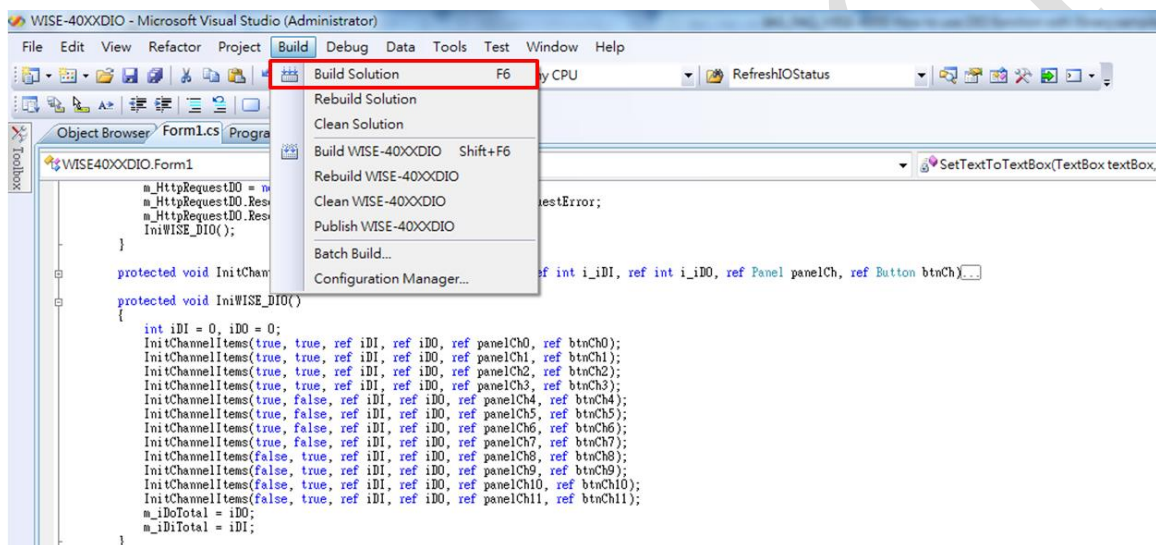
### Explanation:

The function "InitChannelItems()" is defined in another subroutine (green box). So, the first

parameter is to set the UI visible or not, and the second parameter is to set this bottom and text box work as DI or DO function.

```
protected void InitChannelItems(bool i_bVisible, bool i_bIsDI, ref int i_IDI, ref int i_IDO, ref Panel panelCh, ref Button btnCh)...
protected void IniWISE_DIO()
{
    int iDI = 0, iDO = 0;
    InitChannelItems(true, true, ref iDI, ref iDO, ref panelCh0, ref btnCh0);
    InitChannelItems(true, true, ref iDI, ref iDO, ref panelCh1, ref btnCh1);
    InitChannelItems(true, true, ref iDI, ref iDO, ref panelCh2, ref btnCh2);
    InitChannelItems(true, true, ref iDI, ref iDO, ref panelCh3, ref btnCh3);
    InitChannelItems(true, false, ref iDI, ref iDO, ref panelCh4, ref btnCh4);
    InitChannelItems(true, false, ref iDI, ref iDO, ref panelCh5, ref btnCh5);
    InitChannelItems(true, false, ref iDI, ref iDO, ref panelCh6, ref btnCh6);
    InitChannelItems(true, false, ref iDI, ref iDO, ref panelCh7, ref btnCh7);
    InitChannelItems(false, true, ref iDI, ref iDO, ref panelCh8, ref btnCh8);
    InitChannelItems(false, true, ref iDI, ref iDO, ref panelCh9, ref btnCh9);
    InitChannelItems(false, true, ref iDI, ref iDO, ref panelCh10, ref btnCh10);
    InitChannelItems(false, true, ref iDI, ref iDO, ref panelCh11, ref btnCh11);
    m_iDoTotal = iDO;
    m_iDiTotal = iDI;
}
```

Step 4. After all the related setting and modification are done, please save the project and build the solution.



Step 5. Execute the .exe application, and user can monitor DI/DO of WISE-4050.

