

Advantech AE Technical Share Document

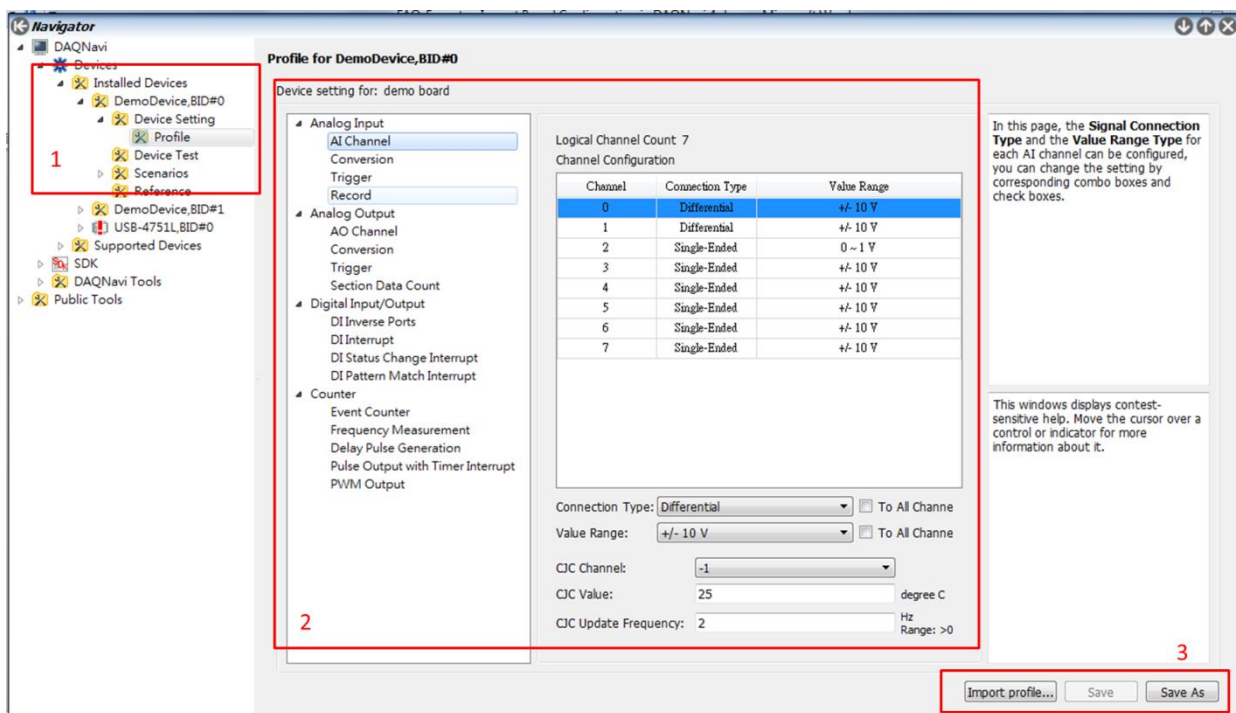
Date	2016/8/4	SR#	1-2522883081
Category	■ FAQ □ SOP	Related OS	Windows
Abstract	Export or Import Board Configuration in Advantech DAQNav 4		
Keyword	DAQNavi 4.0, Profile, Save Configuration, Load Configuration		
Related Product	PCI-1706, PCI-1710U/HGU/UL, PCI-1711U/UL, PCI-1712, PCI-1712L, PCI-1713U, PCI-1714U/UL, PCI-1715U, PCI-1716, PCI-1718HGU/GU, PCI-1720U, PCI-1721, PCI-1723, PCI-1724U, PCI-1727U, PCI-1730U, PCI-1733, PCI-1734, PCI-1735U, PCI-1737U, PCI-1739U, PCI-1741U, PCI-1742U, PCI-1747U, PCI-1750, PCI-1751, PCI-1752U, PCI-1753, PCI-1754, PCI-1756, PCI-1758UDI, PCI-1758UDIO, PCI-1758UDO, PCI-1760U, PCI-1761, PCI-1762, PCI-1780U, PCI-1784U, PCIE-1730, PCIE-1751, PCIE-1752, PCIE-1753, PCIE-1754, PCIE-1756, PCIE-1760, PCIE-1802, PCIE-1810, PCIE-1816/H, PCIE-1840, PCM-3718H, PCM-3718HO, PCM-3724, PCM-3725, PCM-3730, PCM-3730I, PCM-3753I, PCM-3761I, PCM-3810I, PCM-3813I, PCM-27D24DI, USB-4702, USB-4704, USB-4711A, USB-4716, USB-4718, USB-4750, USB-4751, USB-4751L, USB-4761		

DAQNavi 4.0 provides an easy way to configure DAQ devices. Different from the previous version that the configuration should be done in either Navigator then saved or in the application program, the configuration can be exported or imported easily through API and Navigator.

■ Brief Solution - Step by Step:

1. Save the configuration

The configuration can be exported to a XML file that saves all the information of the device. This is the **ONLY** way to save the configuration.



Three steps to configure and export the configuration:

Step1. Choose the device and select “Profile” to set the configuration.

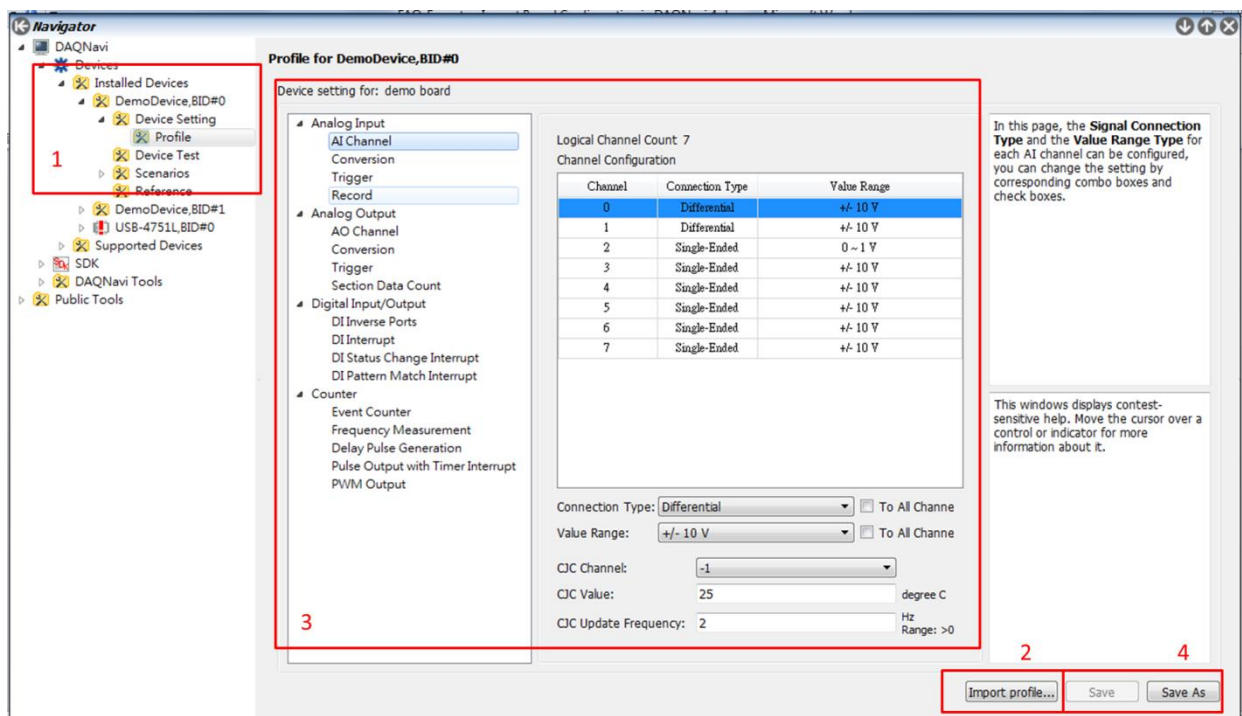
Step2. Set up the configuration.

Step3. If you select “Save”, the change would be saved to

“C:\Advantech\DAQNavi\NavigatorPlugin\Explorer\Profile” which is the default directory that the configuration is saved to or loaded from. If you click on “Save As”, a pop-up dialog would ask you to choose the directory to save the XML file to then the file would be exported to the directory you select.

2. Load the configuration and revise

Navigator would load the profile (configuration) from default directory as every time it's opened. If you want to revise a pre-configured profile, you can load (import) the profile into Navigator then make changes and save.



Step1. Choose the device and select “Profile” to set the configuration.

Step2. Click on “Import profile” then a load-file dialog would jump up to let you select from the corresponded XML file.

Step3. Change to desired property.

Step4. Save a new one or save to the original one.

3. Load a configuration in user program

DAQNavi SDK provides APIs to load profile in user program. Here are the prototypes and usages of the functions in different programming languages:

Visual Basic (Declaration)

```
Public Function LoadProfile(ByVal fileName As String) As ErrorCode
```

Visual Basic (Usage)

```
Dim instance As DaqCtrlBase
Dim myProfile As String = "c:\my_demo_profile"
instance.LoadProfile(myProfile)
```

C#

```
public ErrorCode LoadProfile(string fileName)
```

Java

```
public ErrorCode LoadProfile(String fileName);
```

C++

```
public:  
    ErrorCode LoadProfile(wchar_t const *fileName);
```

The ErrorCode would be returned as the file doesn't exist under the entered file path. Here's the possible return error codes and the possible reason:

Error Code**Description**

Success	The operation is completed successfully.
ErrorFuncNotInited	No device is selected.
ErrorPrivilegeNotHeld	The device is opened with 'ModeRead' and cannot execute this operation.
ErrorFuncBusy	Some function is already running, so this method can't be executed.
ErrorPropAllFailed	All properties of a property set are failed to be written into device.
WarningPropPartialFailed	Some properties of a property set are failed to be written into device.
WarningProfileNotValid	The specified profile is not valid. The device will be initialized with the default value stored in DB.

■ Reference: