

# Drive Wizard

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Installation Manual for  
Software Version 2.5

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## 1. Overview

Drive Wizard (DW) V2.5 provides the following implemented improvements:

- A new search facility on the toolbar which allows the user to search for an object in the tree view by **hexadecimal** index, parameter name, object name, section name or on all of these categories.
- Implementation of IXXAT driver VCI V3.
- A new F5 Refresh button, allowing the user to re-read all data currently displayed by forcing a re-read of all shown objects for a connected device.
- Enhanced programmer handling, making bootloader programming more reliable.
- A more graphical communications configuration screen for setting up PDOs.
- Duplicate EDS and XML file handling.
- Duplicate node handling.
- Extensible SEVCON OBJECT and SEVCON SECTION compatibility, ensuring the future compatibility of all new Sevcon EDS and XML files.
- Improved Sevcon Display and Nano controller compatibility.

Before installing DW, first ensure that the IXXAT driver is installed correctly by following Section 3.

## 2. Support

In case of unresolved issues with DW, please contact [engineering@sevcon.com](mailto:engineering@sevcon.com).

## 3. Installation of VCI V3

Drive Wizard uses an IXXAT USB-to-CAN compact adapter to connect the PC USB interface to the vehicle/controller CANbus. This IXXAT adapter requires a driver to form the interface between the DW application and the IXXAT CAN interface.

It is vital that DW has the corresponding version of the IXXAT driver installed.

- For DW V2.5 onwards, IXXAT driver V3.1.4.1784 or newer must be installed.
- For all previous versions of DW, IXXAT driver V2.18 must be installed.
- If there is another application installed on your PC which requires a different version of the IXXAT driver (e.g. older versions DVT), both driver versions may be installed and the user is required to switch manually between them.

For more details on how to install the IXXAT driver, see IXXAT documentation “vci31\_4.02.0250.20000\_[Installation]\_1.3.pdf” for installing V3 or “vci\_218\_4.02.0250.20010.pdf” for installing V2.

Switching between versions of the driver is also detailed in these documents.

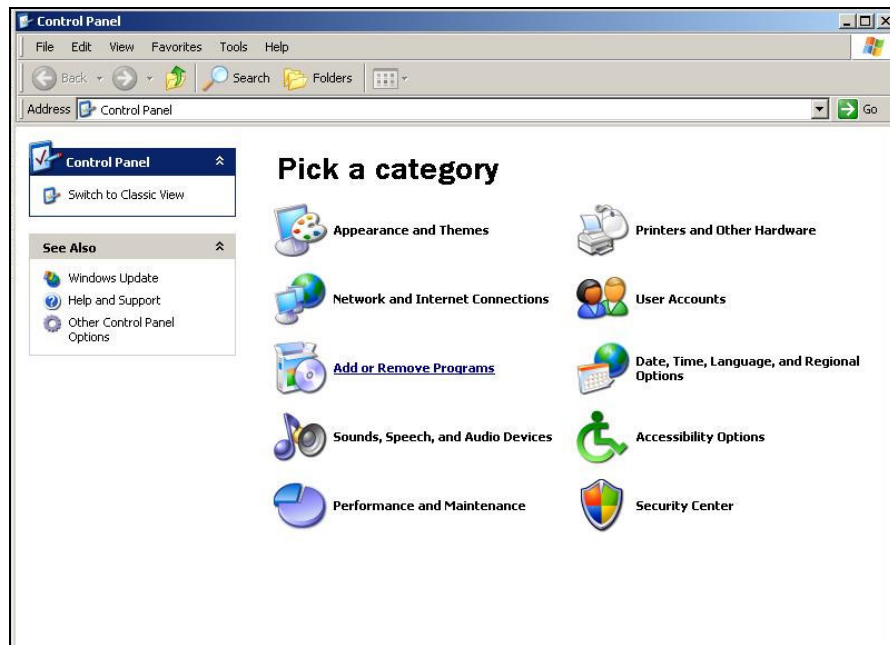
## 4. Installation of Drive Wizard

### 4.1. *Removal of Older Versions of Drive Wizard*

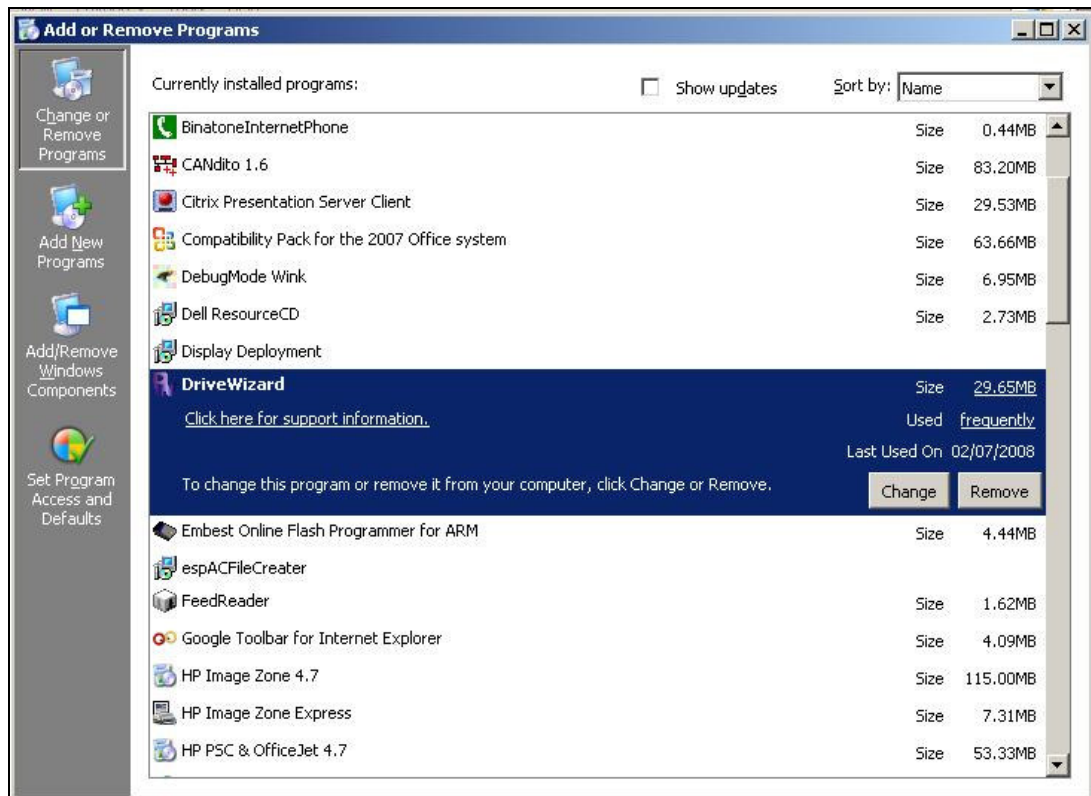
If you already have a version of Drive Wizard installed, it is necessary to remove this prior to the installation of the new version.

#### 4.1.1. **Uninstall On Windows XP**

Open the Control Panel from the Start Menu and click on the “Add or Remove Programs”.



When the window is populated, scroll down the list and select the DriveWizard entry then click on the “Remove” button to start the uninstall DW wizard.



Follow the options, selecting to retain your DriveWizard user files.

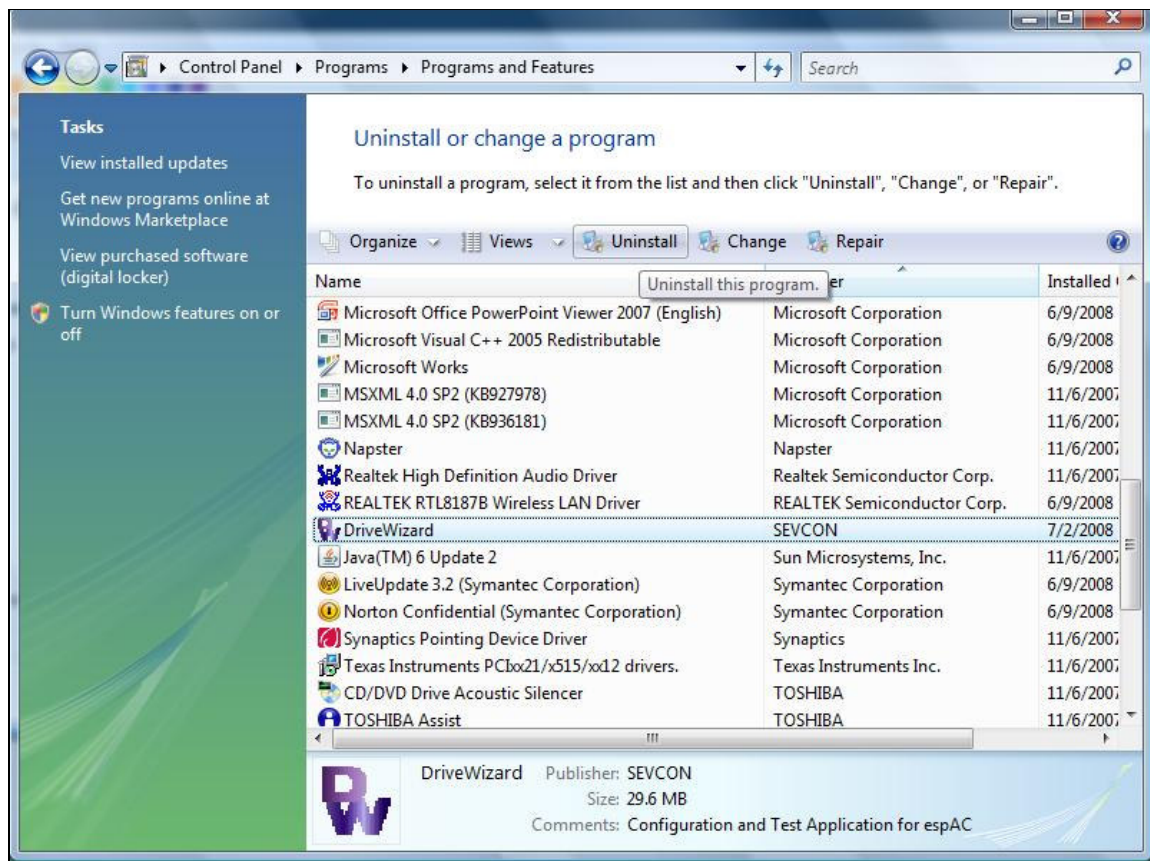


### 4.1.2. Uninstall On Windows Vista

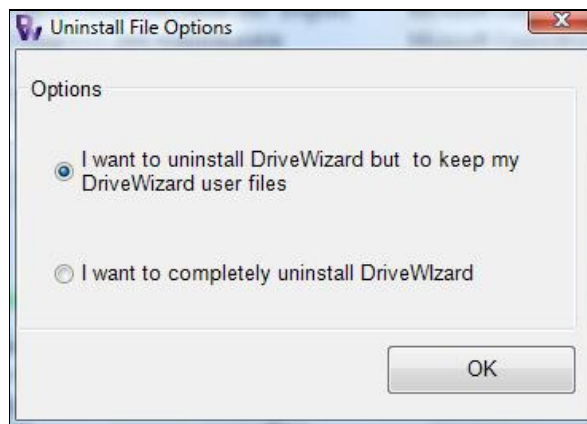
Open the Control Panel from the Start Menu and click on the “Uninstall Program” under the “Programs” icon (or “Programs and Features” in the Classic view).



When the window is populated, scroll down the list and select the DriveWizard entry and click on the “uninstall” icon in the window’s toolbar.



Follow the options, selecting to retain your DriveWizard user files.



#### 4.2. Older Drive Wizard File Compatibility

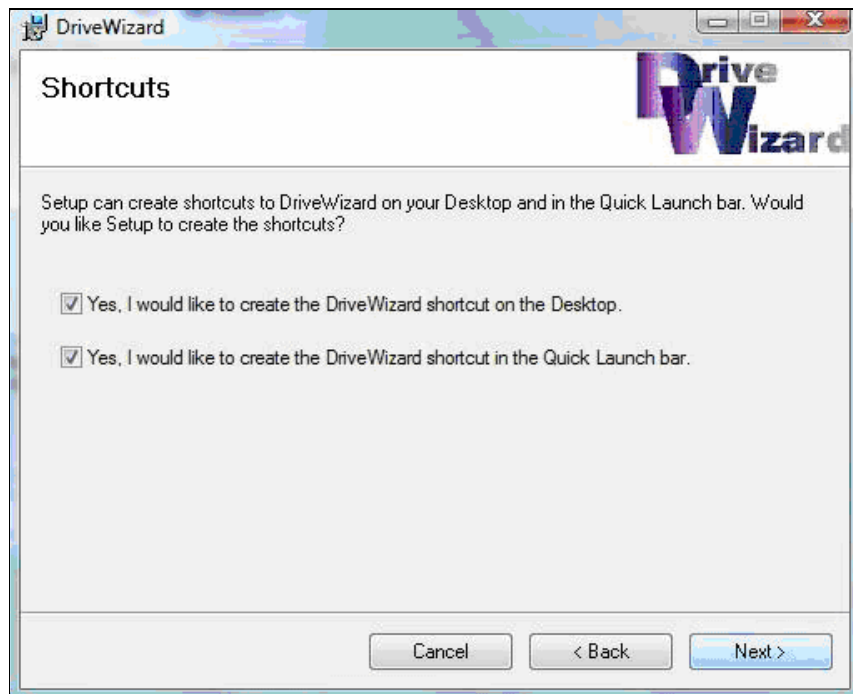
If older versions of Drive Wizard have been run on the PC, it is important to note that the following files will no longer be compatible:

- monitor XML files, created by the user to save monitored objects and stored data to disk file. Unfortunately, additional information has been added to these files, making previous versions incompatible.

All other files remain compatible and should be retained during the removal of the old version of DW.

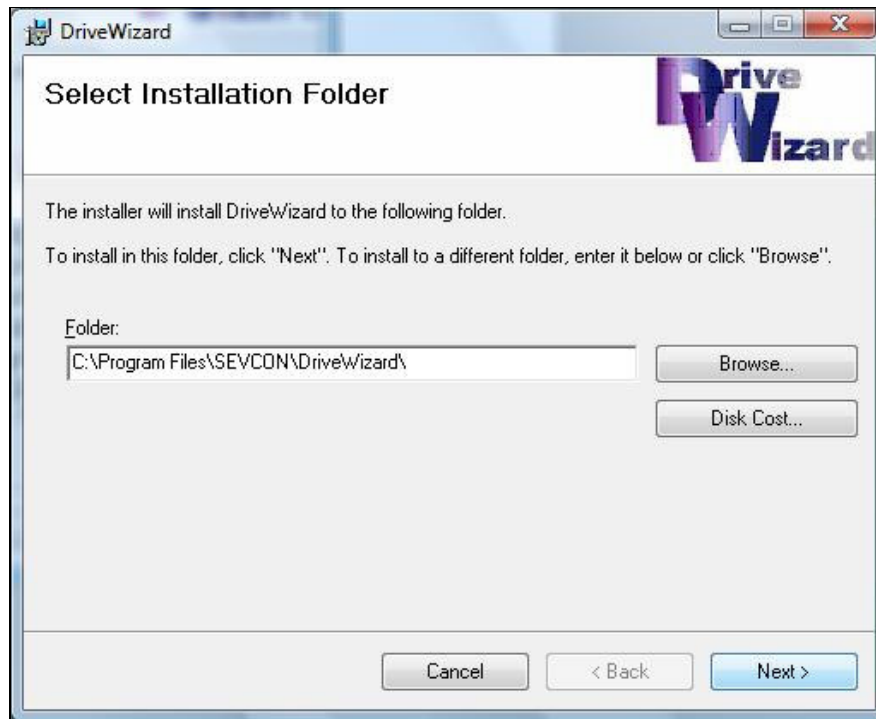
### **4.3.        *Installation of Drive Wizard Version 2.5***

The Drive Wizard installation process is identical for both Windows XP and Windows Vista. To start the setup wizard, locate the “setup.exe” file using the Windows Explorer and double click it. Follow the on-screen options, which take you through a Welcome screen, then a screen to select which type of shortcuts you require:

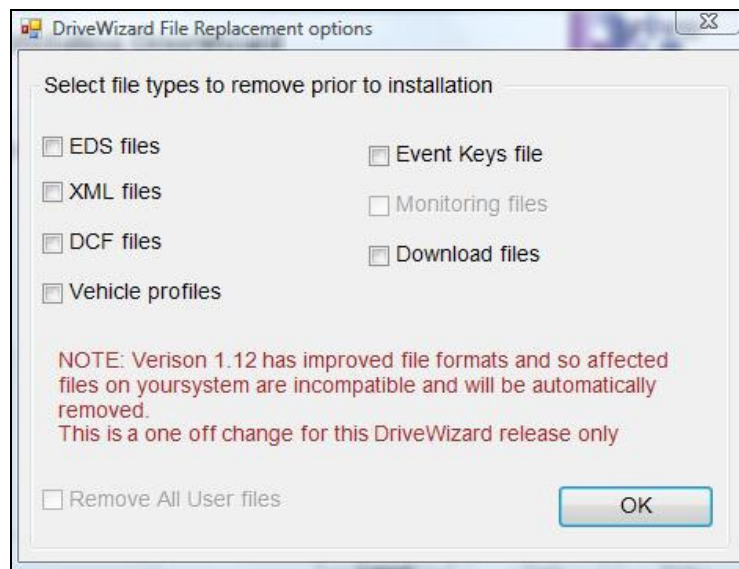


This is followed by a language selection screen (choose English), a license agreement screen which requires agreement in order to proceed with the installation, and then a screen which allows the selection of a suitable installation folder for DW:

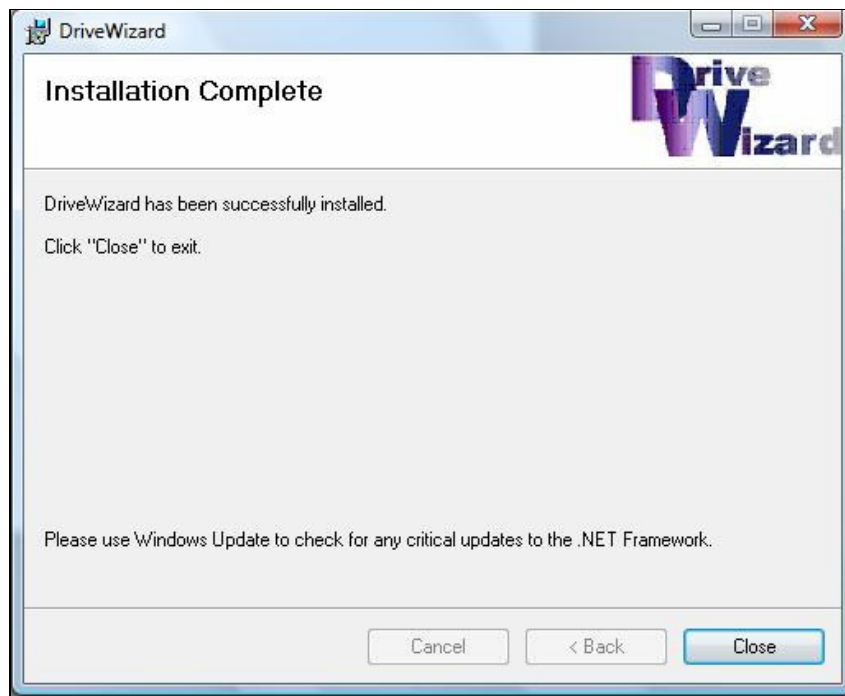




A confirmation screen is then displayed, and once “next” is selected, the installation commences. After a few moments, the user is prompted which existing user files should be removed from the hard drive. It is not necessary to remove any, and the selection is entirely optional to the user.



The final screen shows that the installation has successfully been completed.



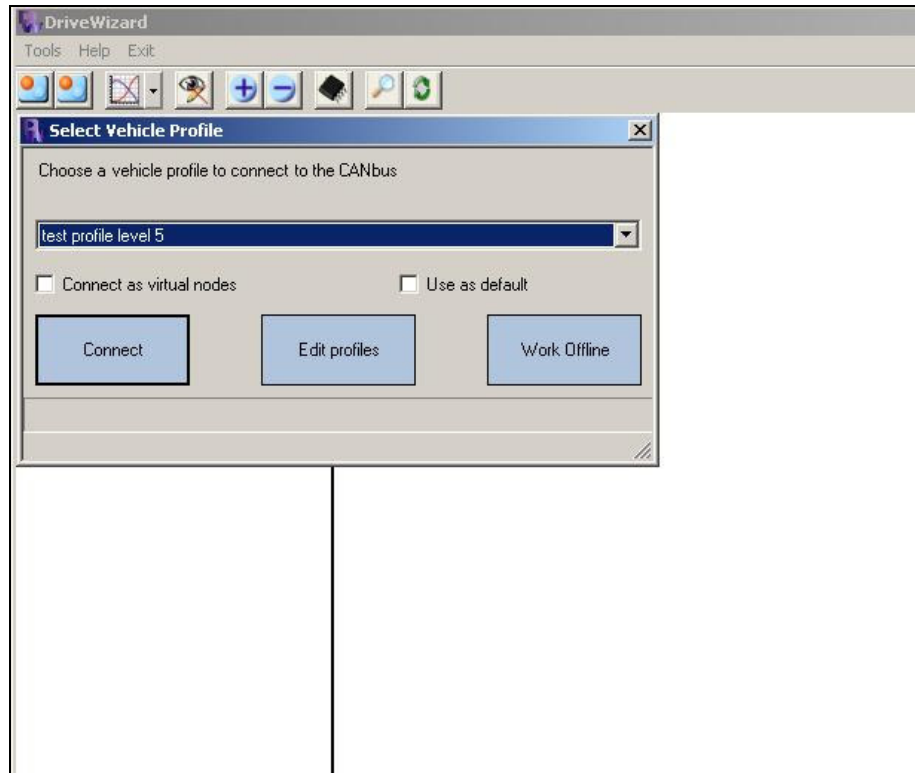
#### **4.4.      *Checking Drive Wizard Is Installed Correctly***

To start Drive Wizard, select the appropriate shortcut from the desktop or from the Programs menu.

The Warning splash screen should appear, then click the “continue” button.



If Drive Wizard was previously installed and the user retained their vehicle configuration files, the “Select Vehicle Profile” window will appear, showing the default profile in the listbox.



To confirm that the correct version of Drive Wizard is installed, click on the “Work Offline” button then select Help>About DriveWizard from the menu options and confirm that “V2.5 Alpha” is displayed.

The correct version of Drive Wizard is installed correctly.

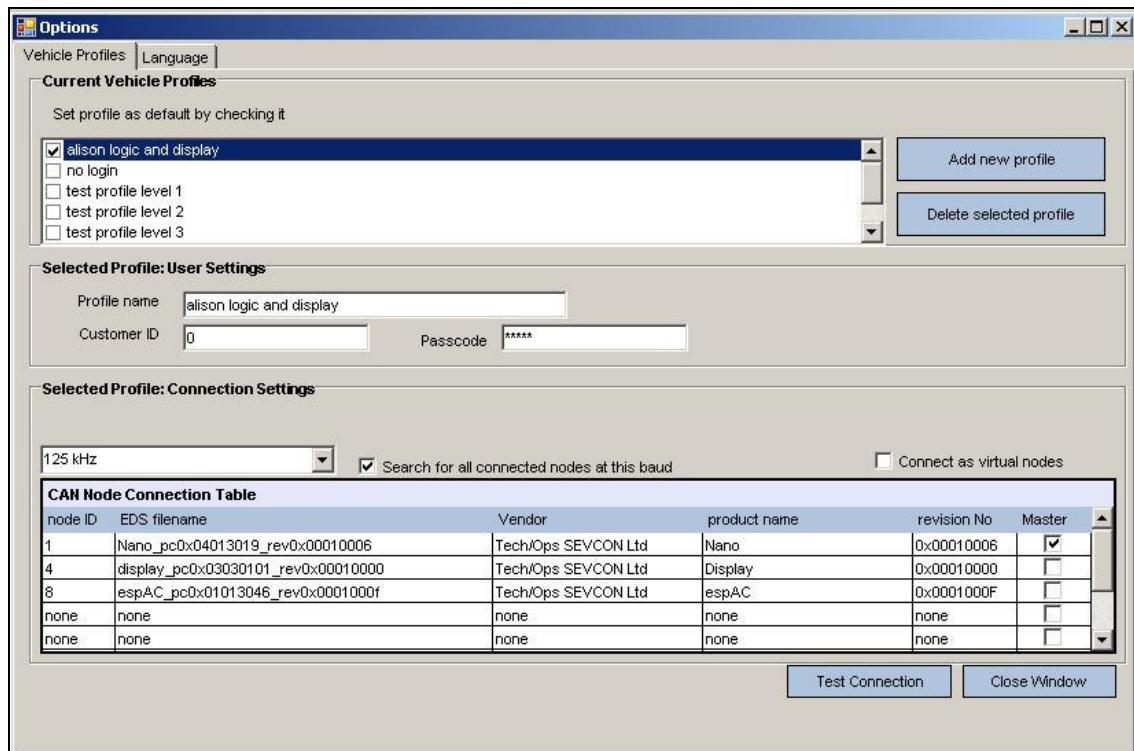
It is possible to three modes:

- offline - this allows the user to review previously saved DCF and monitoring data files to review without being connected to any real system and does not require an IXXAT adapter
- virtual – this allows the user to configure an unconnected system and save it to a DCF file, ready for downloading to the real system at a later date. This does not require an IXXAT adapter.
- Connect to a real system – this allows the user to communicate to a real CANbus system with controllers via the IXXAT adapter



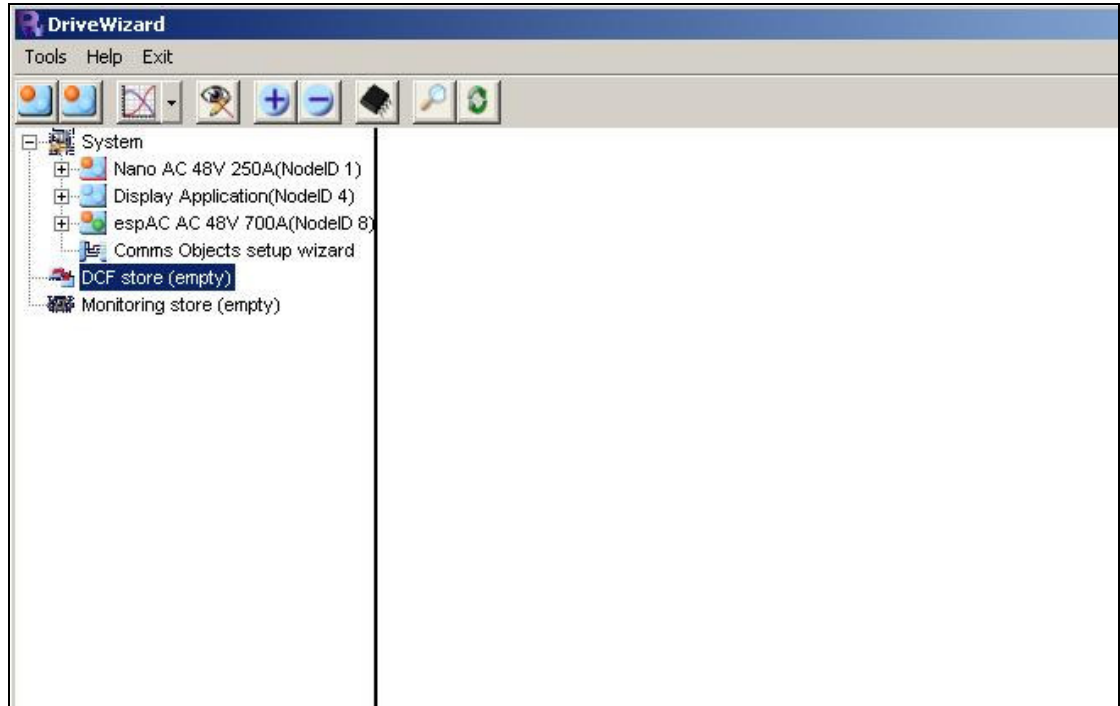
To connect to a CAN network with Sevcon controllers, an IXXAT USB-to-CAN compact adapter must be inserted into the USB port of the PC in which it was inserted into when the IXXAT driver was installed.

Selecting the Tools|Options main window menu item will open the “Options” window. This allows the user to configure or select the connection settings which match their connected CANbus system. Clicking on the “Test Connection” button searches for connected nodes, which are then displayed in the “CAN node connection table” located at the bottom of the window.



Alternatively, at Drive Wizard startup, the user may select an existing profile from the “Select Vehicle Profile” Window and click the “Connect button” to establish the connection with the physical nodes. This window will automatically close after a few seconds and the main window is updated to display the connected nodes in the tree view on the left hand side by expanding the “System” node.

Once this screen is displayed, Drive Wizard has been installed correctly and has a profile to match the user’s system.



## 4.5. Troubleshooting

### 4.5.1. .NET Framework Errors

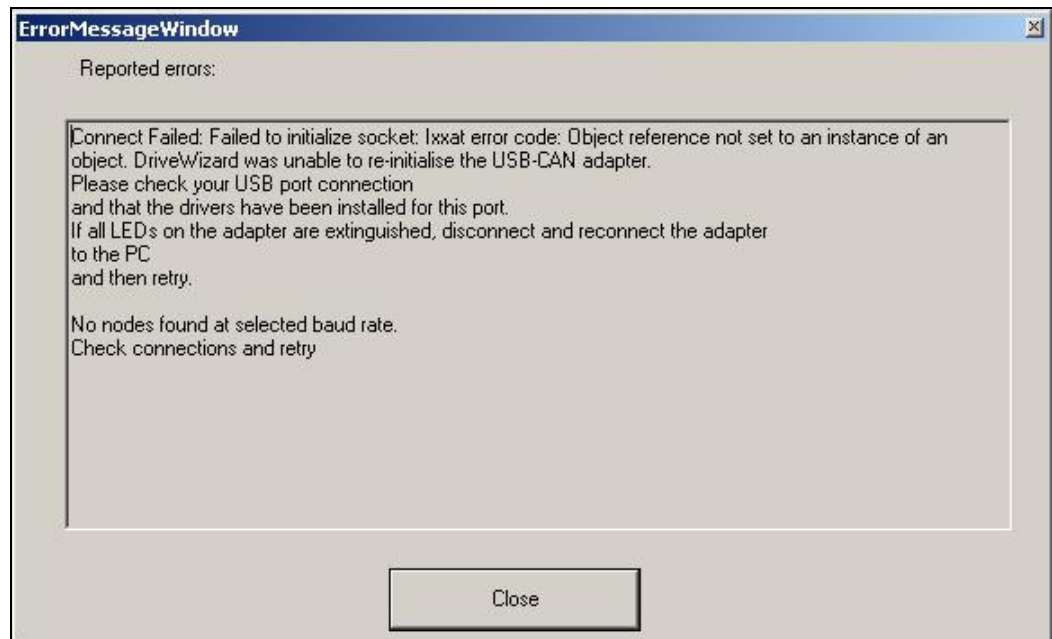
If during the installation process or the running of Drive Wizard an error message window appears to indicate a .net framework error, go to the Microsoft Download Centre Webpage and download the .NET Framework Version 2.0 Redistributable Package appropriate to your system then run the setup, following the options. Once this has been installed and the PC restarted, Drive Wizard should run correctly.

### 4.5.2. USB-to-CAN adapter Errors

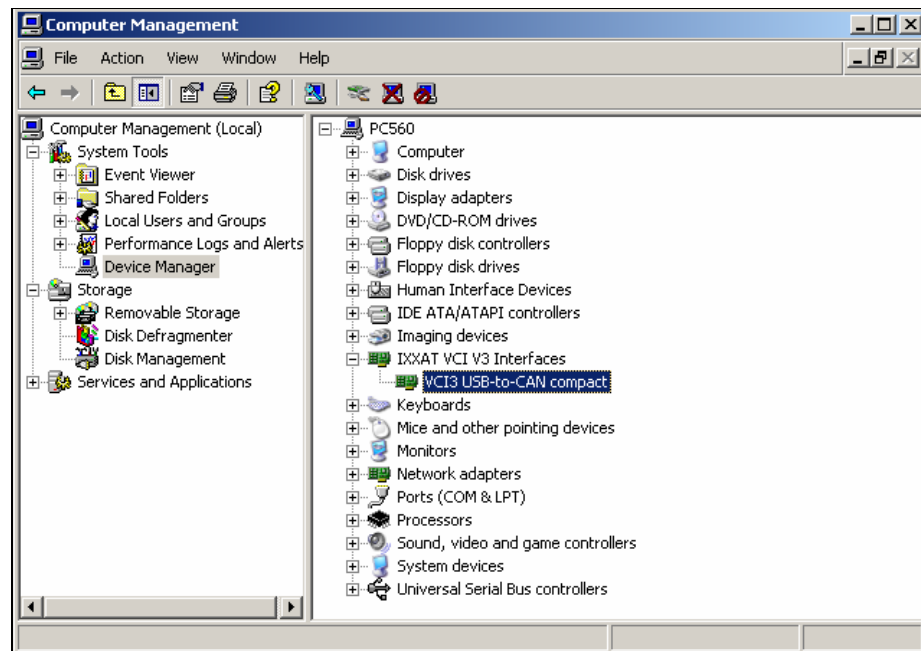
#### **Missing Adapter, Adapter Connected to the Wrong USB Port or Wrong IXXAT Driver Version Selected or Installed**

If the IXXAT adapter is missing or connected to a different port from the one in which it was plugged during the IXXAT driver installation, the error window below is displayed after a connection attempt fails. Place the IXXAT adapter into the correct

USB port and attempt to reconnect using “Test Connection” in the “options” window or “Connect” in the “Select Vehicle Profile” window.



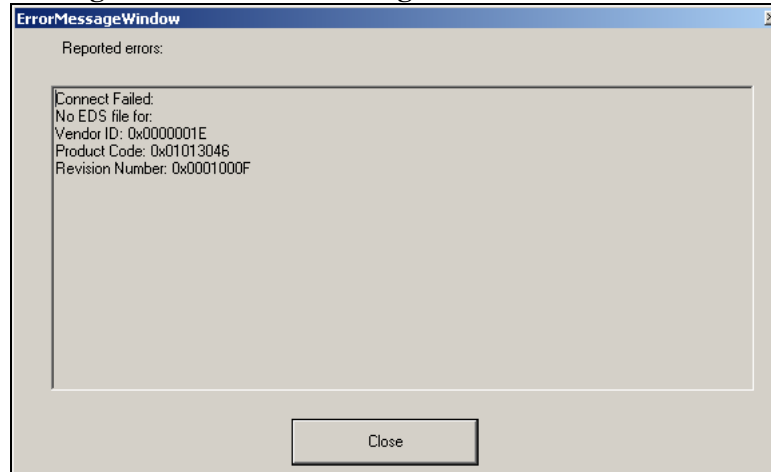
If this window is still shown, check the version of the IXXAT driver selected for use. To do this, open Windows Explorer and select Manage from the context menu shown for “My computer”. Expand the “Device Manager” and confirm under IXXAT that VCI3 of the USB-to-CAN compact is selected for use. If it is not, open the “Update driver” from the context menu to initiate the installation/selection of the VCI3 driver.



### 4.5.3. Missing EDS or XML Files

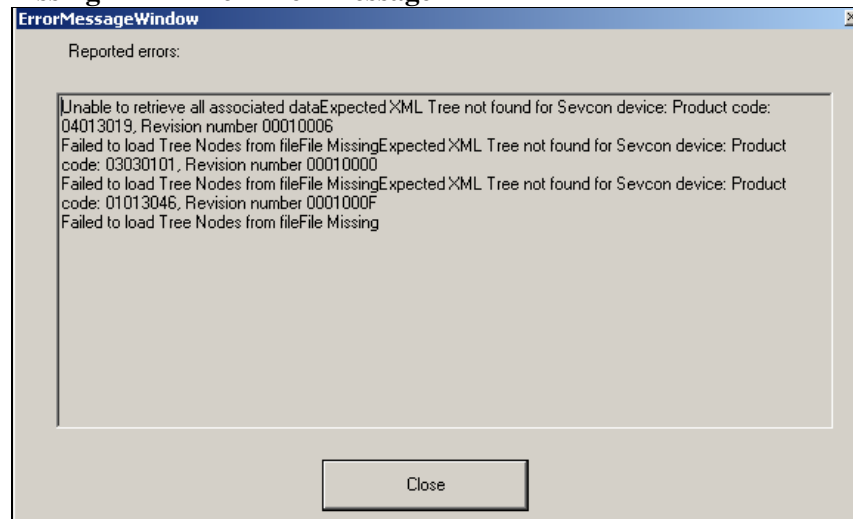
If during the connection process, an error window of the following type is displayed, this indicates that the installation of Drive Wizard does not have an EDS and/or XML file to match one of the devices found on the CANbus network.

#### Missing EDS File Error Message



Note the vendor ID, product code and revision number then close Drive Wizard. Obtain the missing EDS file from the relevant manufacturer (NOTE: a vendor ID of 0x0000001E is Sevcon) and copy into the EDS sub-directory under the user directory location detailed in Section 4.6.

#### Missing XML File Error Message



In the event of an XML file missing, note the product code and revision number and contact Sevcon to obtain a copy of the file and place into the EDS sub-directory under the user directory location detailed in Section 4.6.

#### 4.5.4. No Nodes Found

If no nodes are found when Drive Wizard attempts to connect to a system i.e. no nodes are displayed in the “CAN node connection table” at the bottom of the “Options” window, check the following:

- the green LED next to “USB” on the IXXAT USB-to-CAN compact adapter is lit
- the LED next to “CAN” on the adapter should blink green when set to the baud rate matching the CANbus nodes
- if the LED next to “CAN” on the adapter goes to red, the baud rate selected by Drive Wizard does not match the connected nodes. Select another baud rate from the drop-down list box on the “Options” window then click on “Test connection”.
- if unsure of the node IDs of the connected controllers, check the “search for all connected nodes at this baud” before clicking on “Test connection”. The “autodetect baud” baud rate option will only work if the connected nodes emit unsolicited communications e.g. heartbeats if they are setup. If this is not the case or you are unsure, manually select the system baud rate from the drop-down list box and re-attempt to connect by clicking on the “Test connection” button.
- If none of the above fix the problem, check the CANbus wiring harness between the controllers and the USB-to-CAN compact adapter. If in doubt, please refer to the relevant controller product manual to ensure the CAN connections are correct and the necessary termination resistors are in place.

#### 4.6. User-Created Files Location

If the user wishes to locate any created files for opening or transfer, they can be found using Windows Explorer under their user profile area. These files will only be displayed if the user has selected for hidden files to be shown. For Windows XP, the directory location is:

C:\Documents and Settings\[*UserName*]\Application Data\SEVCON\Drive Wizard

And for Windows Vista it is:

Desktop\[*UserName*]\AppData\Roaming\Sevcon\Drive Wizard