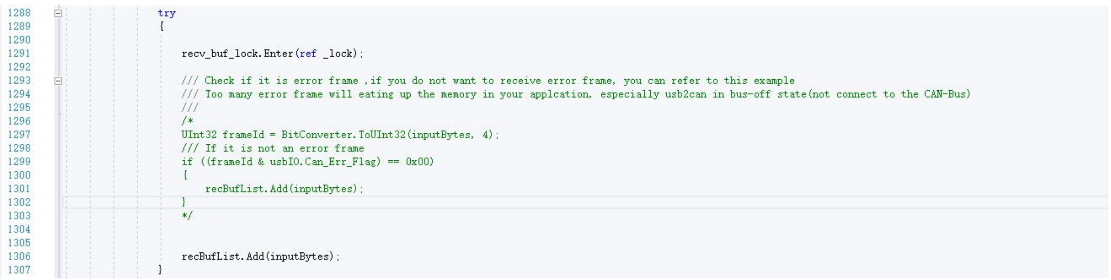
USB2CAN C# demo V1.3 Update Description

1. Error Frame

If the usb2can module go into bus-off state, especially not CAN-BUS connection, It will auto send error frame to PC consistently. So if you do not filiter the error frame. Too many error frame will eating up the memory in your applcation.

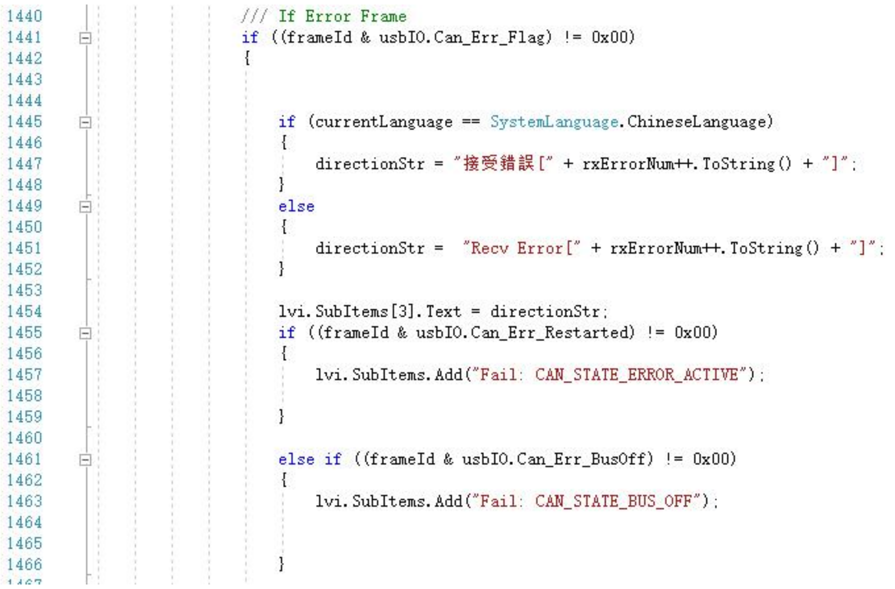
Pls refer to the commented out code. This code can help to filiter out the error frame.

```
void inputFromDev(object source, System.Timers.ElapsedEventArgs e)
```



```
try
{

    recv_buf_lock.Enter(ref _lock);

    /// Check if it is error frame ,if you do not want to receive error frame, you can refer to this example
    /// Too many error frame will eating up the memory in your applcation, especially usb2can in bus-off state(not connect to the CAN-Bus)
    ///
    /*
    UInt32 frameId = BitConverter.ToUInt32(inputBytes, 4);
    /// If it is not an error frame
    if ((frameId & usbIO.Can_Err_Flag) == 0x00)
    {
        recBufList.Add(inputBytes);
    }
    */


    recBufList.Add(inputBytes);
}
```

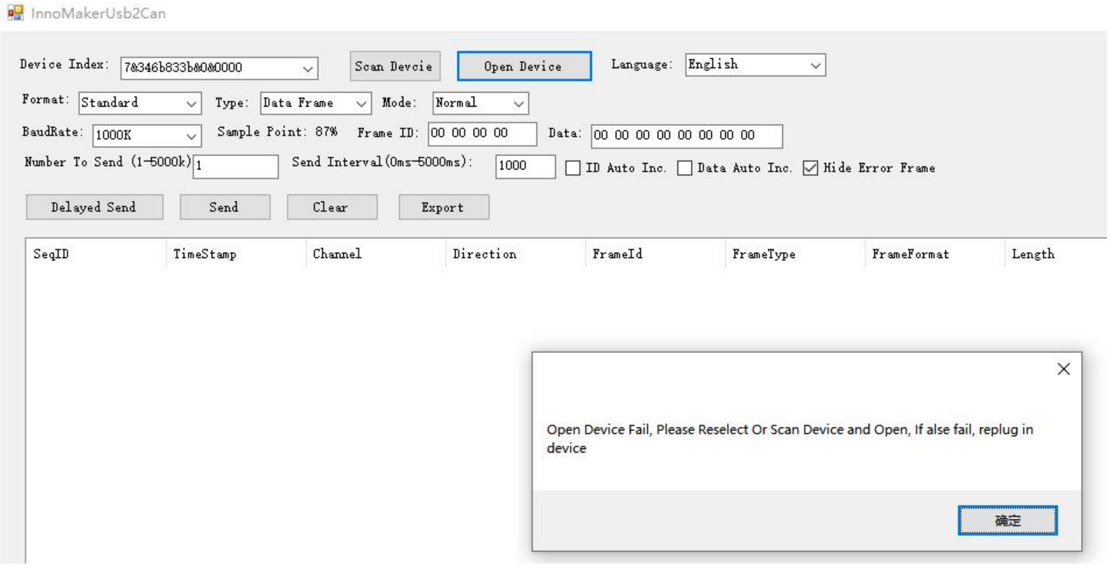
```
ListViewItem getListViewItem(Byte[] inputBytes):
```



```
/// If Error Frame
if ((frameId & usbIO.Can_Err_Flag) != 0x00)
{


    if (currentLanguage == SystemLanguage.ChineseLanguage)
    {
        directionStr = "接受錯誤[" + rxErrorNum++.ToString() + "]";
    }
    else
    {
        directionStr =  "Recv Error[" + rxErrorNum++.ToString() + "]";
    }

    lvi.SubItems[3].Text = directionStr;
    if ((frameId & usbIO.Can_Err_Restarted) != 0x00)
    {
        lvi.SubItems.Add("Fail: CAN_STATE_ERROR_ACTIVE");

    }

    else if ((frameId & usbIO.Can_Err_BusOff) != 0x00)
    {
        lvi.SubItems.Add("Fail: CAN_STATE_BUS_OFF");


    }
```

2. Unexpected Application Shutdowns and not release the device

If your application has closed unexpectedly. The WinUsb driver will not release the USB2CAN deivce. So you can’t re-open or close this device, Only re-plug the USB2CAN can solve this problem.



InnoMakerUsb2Can

Device Index: 7&346b833b&0&0000

Language: English

Format: Standard

Type: Data Frame

Mode: Normal

BaudRate: 1000K

Sample Point: 87%

Frame ID: 00 00 00 00

Data: 00 00 00 00 00 00 00 00

Number To Send (1-5000k): 1

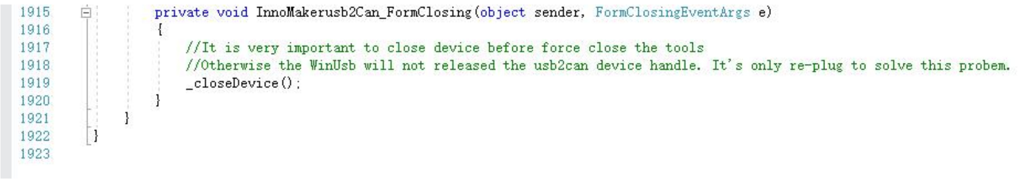
Send Interval(0ms-5000ms): 1000

□ ID Auto Inc. □ Data Auto Inc. ☑ Hide Error Frame

SeqID	TimeStamp	Channel	Direction	FrameId	FrameType	FrameFormat	Length

Open Device Fail, Please Reselect Or Scan Device and Open, If alse fail, replug in device

So added closeDevice() when the form close.



```
        private void InnoMakerusb2Can_FormClosing(object sender, FormClosingEventArgs e)
        {
            //It is very important to close device before force close the tools
            //Otherwise the WinUsb will not released the usb2can device handle. It's only re-plug to solve this probem.
            _closeDevice();
        }
    }
}
```