

Re: URGENT – InvalidOperationException on UDP ReceiveFrom call in

Source:

<http://www.tech-archive.net/Archive/DotNet/microsoft.public.dotnet.framework.compactframework/2005-05/msg002>

- *From:* "Stressed Out Developer" <StressedOutDeveloper@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Thu, 5 May 2005 10:08:05 -0700
-

"Paul G. Tobey [eMVP]" wrote:

> I doubt that it's a 'bug', although it might be something which is
> unsupported. Can you send a smaller example that shows the problem. Bits
> and pieces of code aren't really helpful in this situation.
>
> You're saying that the Windows CE device connects to the server or the
> server connects to the Windows CE device with a stream socket? The Windows
> CE device then opens a datagram socket and receives data from the server?
> Remember that ReceiveFrom() doesn't prevent you from receiving from other
> hosts; it just returns which host the packet came from. What is the network
> physical layer here? Ethernet? Wireless Ethernet?
>
> Paul T.
>
> "Stressed Out Developer" <StressedOutDeveloper@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
> wrote in message news:E0D2D9A8-E06A-4F68-9E9F-24D7AFC0BC07@xxxxxxxxxxxxxxxxxxxx
> > I have an application that we are porting from Unmanaged C++ to VB.NET
> > that involves sockets. There are two pieces to the code. One piece is
> > a one to one TCP call to a server which is working fine. The second
> > piece receives streaming data from the server on a regular basis via
> > UDP. My problem is that I can not make the ReceiveFrom call work.
> > This code is multithreaded and I don't know if that has any bearing on
> > it or not.
> >
> > First off, I make a call to the function "OpenStreaming" which does the
> > following:
> >
> > m_StreamSocket = New Socket(AddressFamily.InterNetwork,
> > SocketType.Dgram, ProtocolType.Udp)
> >
> > Dim sockaddr_in As New
> > System.Net.SocketAddress(AddressFamily.InterNetwork)
> > Dim sep As New System.Net.IPEndPoint(System.Net.IPAddress.Any, nPort)
> > globalPort = nPort

Re: URGENT – InvalidOperationException on UDP ReceiveFrom call in

```
>> m_StreamSocket.Bind(sep.Create(sockaddr_in))
>>
>> Dim stws As New StreamThreadWithState(Me)
>> m_hStreamThread = New System.Threading.Thread(AddressOf
>> stws.StreamThread)
>> m_hStreamThread.Start()
>>
>> "StreamThread" runs with the following code:
>>
>> While (1)
>>
>> Dim nResult As System.Int32
>>
>> ' Call StreamHandler(), the main worker function of
>> this thread
>> nResult = pThis.StreamHandler
>>
>> ' Check for error. Timeout errors are okay in this
>> instance.
>> If (((O22SIOMM.SIOMM_OK <> nResult) And
>> (O22SIOMM.SIOMM_TIME_OUT <>
>> nResult))) Then
>> Exit While
>> End If
>>
>> ' Check flag to see if we should keep looping
>> If pThis.m_bListenToStreaming = False Then
>> ' Stop looping
>> nResult = O22SIOMM.SIOMM_OK
>> Exit While
>> End If
>>
>> ' Check the timeouts of all stream items
>>
>> pThis.CheckStreamTimeouts()
>>
>> pThis.m_hStreamThread.Sleep(1)
>>
>> End While
>>
>> The "StreamHandler" code is as follows:
>>
>> Dim ecode As Int32
>> Dim nResult As System.Int32
>> Dim bCriticalSectionFlag As Boolean = True
>>
>> Try
>> If (m_StreamSocket Is Nothing) Then
>> StreamHandler = SIOMM_ERROR_NOT_CONNECTED
>> Exit Function
>> End If
```

Re: URGENT – InvalidOperationException on UDP ReceiveFrom call in

```
>> Catch e As SocketException
>> m_O22UTILS.writeOptoErrorToLog(Me.GetType.Name &
>> ".StreamHandler",
>> e.Message, e.ErrorCode)
>> StreamHandler = SIOMM_TIME_OUT
>> Exit Function
>> Catch e As ObjectDisposedException
>> m_O22UTILS.writeOptoErrorToLog(Me.GetType.Name &
>> ".StreamHandler",
>> e.Message)
>> StreamHandler = SIOMM_TIME_OUT
>> Exit Function
>> Catch e As Exception
>> m_O22UTILS.writeOptoErrorToLog(Me.GetType.Name &
>> ".StreamHandler",
>> e.Message)
>> StreamHandler = SIOMM_TIME_OUT
>> Exit Function
>> End Try
>>
>> ' Creates an IpEndPoint to capture the identity of the
>> sending host.
>> Dim sender As New
>> System.Net.IPEndPoint(System.Net.IPAddress.Any, 0)
>> Dim SourceAddr As System.Net.EndPoint = CType(sender,
>> System.Net.EndPoint)
>> Try
>> Dim lep As System.Net.EndPoint
>> Dim lipep As System.Net.IPEndPoint
>> Dim lip As System.Net.IPAddress
>> lip = New
>>
System.Net.IPAddress(System.Net.IPAddress.Parse(System.Net.Dns.GetHostByName(System.Net.Dns.GetHostName
>> lipep = New System.Net.IPEndPoint(lip, globalPort)
>> lep = lipep
>> ' lep = New
>> System.Net.IPEndPoint(lip, globalPort)
>> ' lep = New
>> System.Net.IPEndPoint(System.Net.IPAddress.Any,
>> globalPort)
>> ' m_StreamSocket.Bind(lep)
>> Dim testbytes() As Byte
>> ReDim testbytes(100)
>> Dim idx
>> For idx = LBound(testbytes) To UBound(testbytes)
>> testbytes(idx) = New Byte
>> testbytes(idx) = 0
>> Next idx
>> 'm_StreamSocket.SendTo(testbytes, SourceAddr)
>> 'Result =
>> m_StreamSocket.ReceiveFrom(m_pbyLastStreamBlock,
```

Re: URGENT – InvalidOperationException on UDP ReceiveFrom call in

```
>> m_nStreamLength, SocketFlags.None, SourceAddr)
>>
>> 'NOTE: I have already called BIND from OpenStreaming function
>> 'HERE IS WHERE I BLOW UP
>> nResult =
>> m_StreamSocket.ReceiveFrom(m_pbyLastStreamBlock, 660,
>> SocketFlags.None, SourceAddr)
>> Catch e As SocketException
>> m_O22UTILS.writeOptoErrorToLog(Me.GetType.Name &
>> ".StreamHandler",
>> "m_StreamSocket.Bind : " & e.Message, e.ErrorCode)
>> nResult = e.ErrorCode
>> StreamHandler = SIOMM_ERROR
>> Exit Function
>> Catch e As ObjectDisposedException
>> StreamHandler = SIOMM_ERROR
>> m_O22UTILS.writeOptoErrorToLog(Me.GetType.Name &
>> ".StreamHandler",
>> "m_StreamSocket.Bind : " & e.Message)
>> Exit Function
>> Catch e As Exception
>> m_O22UTILS.writeOptoErrorToLog(Me.GetType.Name &
>> ".StreamHandler",
>> "m_StreamSocket.Bind : " & e.Message)
>> StreamHandler = SIOMM_ERROR
>>
>> Exit Function
>> End Try
>>
>> Next I make a call to "StartStreamListening" which does: (I don't think
>> this is important because I am not even getting data from the server
>> yet because of the receiveFrom failure)
>>
>> m_StreamCriticalSection.WaitOne()
>> Checks a list of classes for data. Each class is supposed to have data
>> or they will not be in the list
>> m_StreamCriticalSection.ReleaseMutex()
>>
>> I have to ship this product by Friday 5/6/2005 and I am panicking
>> because this function is the only item left to port before thorough
>> testing can begin.
>>
>> Please , Please, Please can someone help.
>>
>> This is being run on Windows CE but when I run it on my desktop as a
>> normal
>> windows app, I don't get the InvalidOperationException. Is this a bug in
>> compact frameworks?
>>
>> Thanks,
>> Mike Dixon
```

Re: URGENT – InvalidOperationException on UDP ReceiveFrom call in

Re: URGENT – InvalidOperationException on UDP ReceiveFrom call in

>
>
>

Paul,

Thanks for your response. It will take me a few minutes to get a simple example built and then I will post it. To answer your other questions:

You are correct that the WinCE device opens a datagram socket and will receive data from the server (when receiveFrom or alternative works). This is a closed network so there will only be one server on it and in the case of multiple servers, we will be coding for that. The network is a cat5 based ethernet system that is totally isolated from the rest of the world. I will post some shorter code in a few minutes.

Thanks,
Mike Dixon

• ***Follow-Ups:***

- ◆ ***Re: URGENT – InvalidOperationException on UDP ReceiveFrom call in***
◇ *From: Paul G. Tobey [eMVP]*

• ***References:***

- ◆ ***URGENT – InvalidOperationException on UDP ReceiveFrom call in Wind***
◇ *From: Stressed Out Developer*
- ◆ ***Re: URGENT – InvalidOperationException on UDP ReceiveFrom call in Wind***
◇ *From: Paul G. Tobey [eMVP]*

- Prev by Date: ***Re: app icon in start menu***
- Next by Date: ***Re: Testing that the DllImport worked just fine.***
- Previous by thread: ***Re: URGENT – InvalidOperationException on UDP ReceiveFrom call in Wind***
- Next by thread: ***Re: URGENT – InvalidOperationException on UDP ReceiveFrom call in***
- Index(es):
 - ◆ ***Date***
 - ◆ ***Thread***