

## Re: Can RCW and CCW be used together?

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*Source:*

<http://www.tech-archive.net/Archive/DotNet/microsoft.public.dotnet.framework.interop/2006-07/msg00061.html>

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- *From:* "Marcus Heege" <nospam@xxxxxxxxxx>
  - *Date:* Wed, 12 Jul 2006 16:09:27 +0200
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From your explanations it is not clear where the exception is thrown. The code that you show seems to be VB6 code, but the exception must be thrown somewhere in managed code.

Marcus

\* w

"TW" <twestley@xxxxxxxxxx> wrote in message  
<news:1152709966.708655.319160@xx>

This is what I started out assuming. I can successfully add my .NET component project reference to my client project and build.

I can successfully create an instance of my .NET component via automation calls to the ActiveX container. Then, I cast the created object to my class. Upon accessing any property or method in this object, I get a Remoting exception:

"This remoting proxy has no channel sink which means either the server has no registered server channels that are listening, or this application has no suitable client channel to talk to the server."

I can access properties and methods in the object returned from the ActiveX container, just not on my object class. I can also access properties and methods of non-.NET ActiveX controls provided by the vendor after I've cast them to the right type.

Here's a snippet of VB code as an example of what I'm doing:

```
' Start IADS
Dim iads As IadsAutomationLib.Application
iads = CreateObject("Iads.Application")

' Load configuration
Dim iadsConfigFile As String
```

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```
iadsConfigFile = "pfConfig"
iads.Configuration.LoadConfiguration(iadsConfigFile)

' Create an analysis window
Dim aw As IadsAutomationLib.AnalysisWindow
aw = iads.ActiveDesktop.AnalysisWindows.Add("Free Space View")
aw.WindowState =
IadsAutomationLib.IadsWindowStateType.iadsMaximized
aw.Visible = True

' Add an IADS Primitives item and test setting a property
Dim display As IadsAutomationLib.DataDisplay
display = aw.DataDisplays.Add("IadsPrimitives.IadsCircle", 0,
0, 100, 100, 0, "circle")
Dim circle As IADSPRIMITIVESLib.IadsCircle
circle = display.ControlUnknown
circle.TranslateX = 100

' Add my Cart control and set a property
display = aw.DataDisplays.Add("ITIP.IADS.MonitorCart", 0, 0,
100, 100, 0, "cart")
Dim mc As ITIP.IADS.MonitorCart
mc = display.ControlUnknown

' This will crash with Remoting exception
Try
Console.WriteLine(mc.PosXfeet)
Catch ex As Exception
Console.WriteLine(ex.Message)
End Try
```

The only thing I'm doing to make my .NET component assembly work with COM is to set "Register for COM interop" to true in VS.NET 2003. Perhaps I'm missing something.

Thanks.

Marcus Heege wrote:

Hi TW,

COM interop is smart enough to not create a RCW that talks to a CCW to talk

to your .NET object, but to give you a direct reference to the .NET object

instead. There is no need to reference other things apart from your problem-domain specific assemblies and the assemblies for the RCW-Interop

type info (e. g. the Primary Interop Assemblies).

Marcus Heege

Re: Can RCW and CCW be used together?

"TW" <twestley@xxxxxxxx> wrote in message  
[news:1152664093.591020.99900@xx](mailto:news:1152664093.591020.99900@xx)

We're C# .NET developers who must use an ActiveX container (not IE) to create and contain our components. We'd like both the component and the client to be C# .NET code.

But, it appears that you cannot do this. To do this, the RCW of my client code would have to be able to talk to the CCW of my component. I can't see how to do this. And, when I try to add my .tlb as a reference to a .Net assembly, I get an error saying that a CLR assembly cannot be used in this way.

Is there any solution short of changing the component code to C++ and ATL? Is it possible to use .NET remoting to communicate between my .NET client and .NET component even though it is an ActiveX container that creates the component?

--TW