

## Re: Replace a VB ocx using a new MFC ocx

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- *From:* "Alexander Nickolov" <[agnickolov@xxxxxxxx](mailto:agnickolov@xxxxxxxx)>
  - *Date:* Tue, 17 Oct 2006 13:37:58 -0700
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MFC does not natively support implementing dual interfaces. There's a trick to do it, but I'm not familiar with MFC much. I suggest you ask this at the MFC COM group:

microsoft.public.vc.mfcole

At any rate, you can kiss goodbye to the ClassWizard.

Personally I'd advise you to use ATL instead of MFC...

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"Yu" <[Yu@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:Yu@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)> wrote in message  
[news:5D65119D-96FF-4452-8EDE-57C9BA87276D@xxxxxxxxxxxxxxxx](mailto:news:5D65119D-96FF-4452-8EDE-57C9BA87276D@xxxxxxxxxxxxxxxx)

Thanks Alexander.

I am using the IDL from the VB6 control in my MFC ActiveX now. I've got one question:

The MFC ActiveX control is called C\_MFC. The interface MFC wizard created is called \_DC\_MFC. Normally, I can add method to this interface on Class View in IDE. It will automatically add the method to a class called CC\_MFCtrl. Then I can just modify the implementation of the method in the CC\_MFCtrl.cpp file. I am not sure if this CC\_MFCtrl class implements interface \_DC\_MFC, but I found code like "InitializeIIDs(&IID\_DC\_MFC, &IID\_DC\_MFCEvents)" in CC\_MFCtrl class constructor.

Now, I've removed \_DC\_MFC interface from the control. But how can I

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associate the new interface XXX\_Control with the CC\_MFCCtrl class? For all the method defined in XXX\_Control interface, I will implement them in CC\_MFCCtrl class. But what else do I need to do?

Thank you very much!

"Alexander Nickolov" wrote:

You should get rid of that interface the MFC wizard created for you and implement the interface the VB6 control implements (XXX\_Control according to your post). You can copy/paste it into your IDL (ODL?) file from the OleView IDL source view of the VB6 control's type library.

Now, the next problem to solve is persistence. Unfortunately, I don't know of any documentation how VB6 controls persist their data in binary form. You may have to reverse-engineer it. If the client is under your control I'd advise you to simply regenerate the persistent state and recompile it (for example remove and re-add the control on its form/dialog).

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"Yu" <Yu@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message  
[news:5E64E96F-2A30-4E8C-BBD1-04C1D18E71F3@xxxxxxxxxxxxxxxxxxxx](mailto:news:5E64E96F-2A30-4E8C-BBD1-04C1D18E71F3@xxxxxxxxxxxxxxxxxxxx)

Thanks for your reply. Sorry for lack of information, here is more description of this problem:

I use the OLE/COM Object Viewer in VS2003 to view the VB control. The interface it supports are:  
IConnectionPointContainer, IDataObject, IDispatch, IOleContainer, IOleControl, IOleInPlaceActiveObject, IOleInPlaceFrame, IOleInPlaceObject, IOleInPlaceUIWindow, IOleObject, IOleWindow, IParseDisplayName, IPerPropertyBrowsing, IPersist, IPersistPropertyBag, IPersistStorage, IPersistStreamInit, IProvideClassInfo, IQuickActivate,

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IServiceProvider,  
ISpecifyPropertyPages, ISupportErrorInfo, IUnknown,  
IViewObject,  
IViewObject2,  
and another interface called XXX\_Control(same name as the  
ocx)

### Description of Problem:

1. I've got the VB ocx file called A.ocx, and a compiled  
application  
called  
B.exe, which uses A.ocx. When B.exe is running, I can press  
a button to  
invoke a method called TestMethod(in string, out ret long) in  
A.ocx.

2. I build a MFC control called C\_MFC.ocx, the VS IDE  
generated a  
interface  
called \_DC\_MFC for me. I added TestMethod to this  
interface.

3. In the C\_MFC project, I modify C\_MFC.idl, C\_MFC.cpp  
and  
C\_MFCCtrl.cpp  
files to change the CLSID, TypeLib ID, and ProgID to the  
same as A.ocx  
control.

4. Unregister A.ocx, register C\_MFC.ocx.

5. Run B.exe. It starts up ok, but when I click the button to  
call  
TestMethod(), it pops up a box saying "can't find  
member".

I've also tried to use ATL ActiveX control instead of MFC  
ActiveX  
control.

But this time the B.exe application doesn't even start. I debug  
into  
the  
mfc  
source code. It shows that when the application starts, it  
called  
PersistStreamInit::Load to load a image. (I guess it should be  
the  
image  
ofocx control). But this call failed.

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Thank you very much!

"Alexander Nickolov" wrote:

What interface do you expose? This would only work with a pure dispinterface. Otherwise you must make sure your new object implements the same interface the old one did. FYI VB6 creates dual interfaces for its objects.

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Alexander Nickolov  
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=====

"Yu" <Yu@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>  
wrote in message  
<news:203A2CF6-B007-4E20-A558-17D0B0EF605D@xxxxxxxxxxxxxxxxxxxx>

Hi,

We released a VB ocx to a customer 2 months ago, and they used this ocx in their VC application. Now we are releasing new MFC ocx, but the customer doesn't want to recompile their application.

So I made the new MFC ocx same clsid as the old VB ocx, and also the same progID. I ask the customer to unregister their old VB ocx and register this

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new MFC ocx. I presume  
their application will call the  
method in the  
new  
MFC  
ocx using same clsid.(all the  
method format are same in  
both ocx).  
But  
it  
doesn't work. It seems like  
the application can not find  
the right  
member  
method.

Could you guys please help  
with this?

Thanks a lot