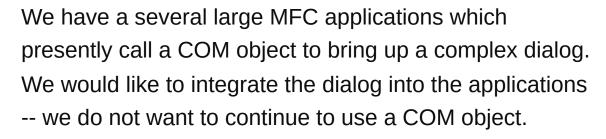
## How can I call a .NET form from an MFC application?

Asked 15 years, 8 months ago Modified 14 years, 1 month ago Viewed 4k times



2









I'm investigating the possibility of building the dialog in .NET as a separate project (using Windows forms, not WPF) and providing a second C++/CLI project which calls it and which can be called from ordinary C++ code. This structure is so that the several applications that need to incorporate the dialog can just pick up the projects in their solutions. (The apps are legacy apps, and rewriting them extensively is not possible -- we're slowly moving them to .NET, but this is a multi-year project. Converting the apps to C++/CLI is not an option.)

I've built this and tested it from a model application, but so far I'm unable to get it to work in the simplest of the large apps, and based on some things I've read, I'm beginning to doubt that it is possible. (See <a href="this link">this link</a>, especially. I'm aware of <a href="this Stackoverflow question">this Stackoverflow question</a>, but it does not seem to be relevant.)

So. Is this even possible? Any suggestions on how to proceed?





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Encapsulate your Windows Forms controls in a User Control and embed them in your MFC app using DDX ManagedControl:



http://msdn.microsoft.com/enus/magazine/cc163605.aspx





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answered Apr 3, 2009 at 1:07





Have you been successful in getting the C++/CLI project to call into your .NET component? I would try to narrow

down between which of the two layers it is failing to get through.

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Since C++ code can call COM components, you could just compile the .NET dll with COM support. I haven't done COM in C++ though myself, so I can't tell you the nitty details. But I've made lots of COM exposed .NET DLLs and that side of it is fairly easy. Normally just a couple checkboxes in the Project Properties (i think under an advanced button in assembly tab).

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answered Apr 2, 2009 at 21:22



AaronLS

**38.3k** • 23 • 148 • 214

We already have a C++-based COM component. The point of this project is to eliminate the need for COM. — mlo Apr 2, 2009 at 21:23

I get failures in the OLE initialization before execution ever gets near the code in question. Googling that error led me to the first link. — mlo Apr 2, 2009 at 21:26



Why do you need the middleman? Why not just

0

Native C++ app --> C++/CLI class library



The C++/CLI library provides a native wrapper around a CWinFormsView or CWinFormsDialog.





But, why do you need to eliminate COM? It's plenty fast and once you're good at implementing the interfaces the ceremony isn't too bad.

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answered Apr 3, 2009 at 1:05



Aidan Ryan 11.6k • 13 • 59 • 87

xisting COM object I'd

There is a lot of C++ code in the existing COM object I'd rather not port to .NET. The structure I'm using has two complicated dialogs as separate C# projects called from the bulk of the code which is the old C++ code. That's called from the main app just as now. — mlo Apr 7, 2009 at 21:25

OK then I'm confused as to what the question is. Do you have this working or not? – Aidan Ryan Apr 8, 2009 at 2:24



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I finally solved this problem with the help of a very good Microsoft support specialist. There were two problems, one was that the Boost library's threading is incompatible with C++/CLI in its default state. One solution is to compile with a different set of flags and then statically link it. The other is to use it as a dynamically linked DLL, which is what I wound up doing.

The second part of the solution is to set CLR threading in the linking property to STA, since OLE initializations fails with an unhelpful message if you don't.

answered Oct 26, 2010 at 19:20

