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Subject: Re: Interfacing IDL and COM objects

Posted by [Jim Pendleton](#) on Fri, 13 Apr 2012 20:56:49 GMT

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On Friday, April 13, 2012 8:15:57 AM UTC-6, rohit bhat wrote:

> Hi,  
>  
> I was trying to interface Import a COM object into IDL. I have no  
> knowledge of COM but I do have the source code with me.  
> There are a few methods defined with the keywords [propput]. I used  
> IDL's SetProperty method and it worked on them.  
>  
> Then there are few methods that have nothing defined in them . Eg:  
> GetInfo( In nIndex, BSTR \_RPC\_FAR \*pStudy\_Info )  
> where Study\_Info is a structure that has fields like  
> {  
> int nIndex  
> char Pname[128]  
> char Date [32]  
> int Status  
> char Description[128]  
> char ID[128]  
> }  
>  
> When I call this method in IDL, using Obj -> GetInfo, 0I, S  
> 1. Error when I put S as "structure", "pointer to a structure" on the  
> IDL side  
> 2. Nothing returned when S is a "string", "byte" on the IDL side  
>  
> Does the presence of keywords like [retval], [in] make it easier for  
> IDL to interface with COM?  
> or  
> Is it that IDL does not understand the datatype that COM sends? (non-  
> compatibility with structures, pointers, strings)  
>  
> Please let me know.  
>  
> Thanks,  
> Rohit

Just a guess, but what if you specify the parameter, on the IDL side, as a BYTARR() of the correct number of bytes? If this works, you'll need to use IDL's FIX function on the returned byte vector to extract your data, via the offset parameter and TYPE keyword.

Be careful of the definition for char in this context. Is it really a 1-byte C-style char or is it multibyte or Unicode?

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Subject: Re: Interfacing IDL and COM objects  
Posted by [rohit bhat](#) on Thu, 26 Apr 2012 18:21:08 GMT  
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On Apr 13, 4:56 pm, jimmyleependle...@gmail.com wrote:

> On Friday, April 13, 2012 8:15:57 AM UTC-6,rohitbhatwrote:

>> Hi,

>

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>> knowledge of COM but I do have the source code with me.

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>

> Be careful of the definition for char in this context. Is it really a 1-byte C-style char or is it multibyte or Unicode?- Hide quoted text -

>

> - Show quoted text -

Jimmy,

Thanks for your reply. I tried sending a Byte array but it comes back empty.

The funny part is even when I pass the first argument in IDL (which is declared as an Int on the COM side), as a long, ulong, int, uint, float, string, (anything)...it does not crash or give any error.

Does it mean that IDL or COM are not able to understand each-other here?

( The first argument will always be less than a number I get from a previous operation. Suppose a database has two employees and I query through IDL-COM. Then, nIndex (first arguemnt) should be 0 or 1 in the procedure

GetInfo( Int nIndex, BSTR \_RPC\_FAR \*pInfo )

So, If I input anything more than that, even then it doesnt work. or doesnt crash)

Thanks,  
Rohit

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