
Subject: Java and IDL
Posted by [pushyar](#) on Mon, 14 Jun 2004 18:37:16 GMT
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Hello

I have some questions about integrating Java and IDL. If I wanted to create a GUI in java and call pre-written IDL code(and methods too), from the GUI, is the possible? Any help or pointers in the right direction will be appreciated.

Thanks

Subject: Re: Java and IDL
Posted by [Haje Korth](#) on Tue, 15 Jun 2004 11:52:18 GMT
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You should look at the IDL External Development Guide under section "Callable IDL".

Cheers,
Haje

"Pushya" <pushyar@yahoo.com> wrote in message
news:39e6dba3.0406141037.4667df67@posting.google.com...

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Subject: Re: Java and IDL
Posted by [Michael Wallace](#) on Tue, 15 Jun 2004 14:42:16 GMT
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Actually, an easier route is to go to Chapter 8 of the External Development Guide and read up on Java-IDL integration. There is an example of a program which uses Java for the GUI and IDL for the processing underneath. The only gotcha is that the main program needs to be written in IDL and Java is called from IDL.

Use Callable IDL only if you really need to call IDL from Java. Keep in mind that this is a much more difficult route since there is no direct way to use callable IDL in Java. You'd need handle the callable IDL in C and then create JNI mappings from Java to the C library just created.

Neither Callable IDL or JNI are that easy to work with if you've never touched them before.

-Mike

Haje Korth wrote:

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Subject: Re: Java and IDL

Posted by [p.sommer](#) on Tue, 15 Jun 2004 22:51:33 GMT

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We have used Callable and the JNI to create a small native Java object that wraps IDL's (Callable) Execute String method. The one catch is that no array data is passed. Strings and scalar args are fine, as are behavioral keywords, but reorganizing array layouts from Java to IDL is not easily handled in a general sense and went far beyond what I needed at the time.

This Callable/JNI wrapper was built for a prospect who simply needed to call an IDL .sav file that took a string for an arg (filename). IDL did some processing and then wrote the result out to 'filename' on disk (NOTE:No array data passing and will not run under IDL's Virtual Machine).

Remember too that ION (IDL On the Net) would work for you (and you can

pass data as well as display IDL graphics in a native Java Canvas).
It's based on a client/server model which is primarily used for web
enabled apps, but you can also use this tech for desktop, JFrame apps.
Contact your RSI Sales Rep for more info if you want to evaluate ION.
In the meantime, I will try and get the Callable/JNI example out on
our IDL User Contrib site by weeks end. Stay tuned...

-Paul

Michael Wallace <mwallace.no.spam@no.spam.swri.edu.invalid> wrote in message
news:<10cu2mkq0bmk14d@corp.supernews.com>...

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