

Conversion Tools - Feature #6661

OCX: Implement support for conversion of VARTYPE parameters and properties

08/09/2022 09:08 AM - Hynek Cihlar

Status:	New	Start date:	
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:		vendor_id:	GCD
billable:	No		
Description			

History

#1 - 08/09/2022 09:28 AM - Hynek Cihlar

Implement conversion and runtime support for the polymorphic VARTYPE data type used in OCX interfaces.

A possible approach (for a hypothetical method foo declaring a VARTYPE parameter):

1. Identify all the concrete types foo supports on runtime for the VARTYPE parameter.
2. Define number of foo methods in the target Java legacy interface. One overload per concrete data type identified in previous step. If the concrete types are an int and a pointer then the overloads will be foo(integer) and foo(handle).
3. The OCX conversion rules will try to match one of the declared methods depending on the argument type. If it finds a match, it will emit native Java method call, otherwise (when the argument is BaseDataType for example) it will emit ComObject.call.

To be resolved:

How to handle the cases when OCX method declares multiple (many) VARTYPE parameters? The number of required overloads could easily get out of control.

#2 - 08/09/2022 12:18 PM - Vladimir Tsichevski

Hynek Cihlar wrote:

... If it finds a match, it will emit native Java method call

It must be an error if more than one matches found.

How to handle the cases when OCX method declares multiple (many) VARTYPE parameters? The number of required overloads could easily get out of control.

That is the point.