

EvtWmiInstanceExecuteMethod OutBufferSize problem

Source:

<http://www.tech-archive.net/Archive/Development/microsoft.public.development.device.drivers/2007-11/msg00435.html>

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Hello,

I wrote a driver which supports a WMI ExecuteMethod. I wrote a Vbscript program to test the method but the OutBufferSize in the EvtWmiInstanceExecuteMethod is always 5 which is not big enough for the return data. The method takes inputs and returns parameters including and array of data.

Why is the OutBufferSize always 5 ? Is there away to tell the Swbemobject what size I want the Output buffer to be ? Usually the input buffer is the output buffer from the EvtWmiInstanceExecuteMethod point of view but I don't know how SWBemojbject come up with a OutBuffersize of 5. What am I doing wrong ?

vbscript and mof below

thanks in advance

--- vbscript

```
On Error Resume Next
Dim Locator
Dim Service
Dim Collection
Dim InstancePaths()
Dim InstanceCount
Dim CurrentInstanceIndex

Set S = CreateObject("WbemScripting.SWbemNamedValueSet")
Set Locator = CreateObject("WbemScripting.SWbemLocator")
Set Service = Locator.ConnectServer( "root\wmi")
Service.Security_.ImpersonationLevel=3
Set Collection = Service.InstancesOf ("Microsoft_IPMI")

InstanceCount = 0
Err.Clear
```

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```
for each Instance in Collection
if Err.Number = 0 Then
InstanceCount = InstanceCount + 1
ReDim Preserve InstancePaths(InstanceCount)
Set ObjectPath = Instance.Path_
InstancePaths(InstanceCount) = ObjectPath.Path
'MsgBox Instance.Path_
Else
MsgBox Err.Description
End If
next 'Instance
```

```
Err.Clear
if InstanceCount = 0 Then
MsgBox "No instances available for this class"
Else
CurrentInstanceIndex = 1
Set Instance = Service.Get(InstancePaths(InstanceCount))
Call RequestResponse
End if
```

Sub RequestResponse

```
' Obtain an InParameters object specific to
' the IpmiInterface.RequestResponse method.
```

```
Set objInParam = Instance.Methods_("RequestResponse").inParameters
```

```
Wscript.Echo objInParam.Properties_.Count
Wscript.Echo objInParam.Properties_.item("RequestData").CIMType
Wscript.Echo objInParam.Properties_.item("RequestData").Name
```

```
' Add the input parameters.
```

```
' ipmi get device id
objInParam.Properties_.item("NetworkFunction") = 6
objInParam.Properties_.item("Lun") = 0
objInParam.Properties_.item("ResponderAddress") = 32
objInParam.Properties_.item("Command") = 1
objInParam.Properties_.item("RequestDataSize") = 0
objInParam.Properties_.item("RequestData") = Array
```

```
' Call RequestResponse
```

```
Set objOutParams = Instance.ExecMethod_("RequestResponse", objInParam)
Wscript.Echo objOutParams.ReturnValue
If Error = 0 Then
Wscript.Echo "RequestResponse.Ccode =" _
```

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```
& objOutParams.CompletionCode  
Else  
Wscript.Echo "RequestResponse error "  
End If  
End Sub
```

---- mof snippet of method RequestResponse

```
[Implemented, WmiMethodId(1), Description ("") : amended ]  
void RequestResponse(  
  

```

```
[in,  
Description("Network Function for this IPMI request.")  
: amended  
] uint8 NetworkFunction,  
  

```

```
[in,  
Description("Logical Unit number to send IPMI request  
to") : amended  
] uint8 Lun,  
  

```

```
[in,  
Description("Responder address to send IPMI request  
to") : amended  
] uint8 ResponderAddress,  
  

```

```
[in,  
Description("IPMI request command") : amended  
] uint8 Command,  
  

```

```
[in,  
Description("Bytes for IPMI request data") : amended  
] uint32 RequestDataSize,  
  

```

```
[in,  
WmiSizeIs("RequestDataSize"),  
Description("IPMI request data") : amended  
] uint8 RequestData[],  
  

```

```
[out,  
Description("Completion code for status of request  
response") : amended,  
ValueMap { "0","192","193","194","195",  
"196","197","198","199","200",  
"201","202","203","204","205",  
"206","207","208","209","210",
```

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```
"211","212","213","255",
"1..126","128..190",".." },
Values { "Command Completed Normally",
"Node Busy",
"Invalid Command",
"Command invalid for given LUN",
"Timeout while processing command",
"Out of space",
"Reservation Canceled or Invalid Reservation ID",
"Request data truncated",
"Request data length invalid",
"Request data field length limit exceeded",
"Parameter out of range",
"Cannot return number of requested data bytes",
"Requested Sensor, data, or record not present",
"Invalid data field in Request",
"Command illegal for specified sensor or record type",
"Command response could not be provided",
"Cannot execute duplicated request",
"Command response could not be provided. SDR
Repository in update mode",
"Command response could not be provided. Device in
firmware update mode",
"Command response could not be provided. BMC
initialization or initialization agent in progress",
"Destination unavailable",
"Cannot execute command. Insufficient privilege level",
"Cannot execute command. Command, or request
parameter(s), not supported in present state",
"Unspecified error",
"Device specific (OEM) completion codes",
"Standard command-specific codes",
"reserved" }
] uint8 CompletionCode,

[out,
Description("Bytes for IPMI response data. Completion
code is present in response data size.") : amended
] uint32 ResponseDataSize,

[out,
WmiSizeIs("ResponseDataSize"),
Description("IPMI response data. Completion code is
present in response data.") : amended
] uint8 ResponseData[]
);
```
