EnumPorts() returns strange error on some machines

Asked 16 years, 2 months ago Modified 10 years, 3 months ago Viewed 2k times



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I maintain an application that uses the win32 EnumPorts() function to help determine the set of serial ports installed on the computer. I have seen cases on some computers where the call to get this information fails with a GetLastError() code of 1722 (RPC server is unavailable). I assume that this has something to do with either registry settings or a required service being disabled but my search so far has been rather fruitless. Has anyonw else encountered this issue?

In answer to Euro Micelli's comments. I am specifically attempting to fill a pick list that will allow the user to choose an available picklist. To begin with, I relied exclusively on EnumPorts() to provide me a list of potential serial port names. It has proven to be unreliable, however in several senses: It has not always provided the complete set of port names and, as I have recently seen, it can fail to function altogether when the "RPC service is unavailable". Why RPC is needed to find out what ports are available on the local machine is completely beyond me but there it is. This latter problem was the final straw. So far as relying completely on the list of names provided, i filter these names using the

GetDefaultCommConfig() function to determine the exact nature of each of the names that I came up with.

In my experience, the list of names provided by the previously mentioned registry key has been the most reliable method for getting port names. As a matter of fact, I can see the key get updated as I disable port drivers in the device device manager. Under normal experiences, I would agree with the assessment that relying upon a particular key is fraught with peril. In this case, however, M\$ has never provided a decent mechanism to evaluate the names of available ports.

I should point out that I have already replaced the call to EnumPorts() with an algorithm that scans the registry key:

HKEY_LOCAL_MACHINE\HARDWARE\DEVICEMAP\SE RIALCOMM for serial port names. This should resolve the issue once my software is released. What I am after is pointers that can be given to customers who are using the released package at the present.

c++ winapi

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edited Aug 29, 2014 at 19:24

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I'm not an expert on EnumPorts, but I strongly advice against relying on registry keys.

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• Key definitions might not be what you think.



• There might be ways to "be a serial port" which don't include those keys.



• The keys might not reflect up-to-date status, etc. etc.

You should always rely on the APIs available.

If an API doesn't behave for you, let's try to figure out why. Maybe with a little extra information we can help better:

What is it exactly that you need to do with the serial port?

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answered Oct 17, 2008 at 1:14





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There are a lot of weird serial ports these days: USB serial cables, Bluetooth, cell phone modems with GPS,... It might be something plugged into the computer and long forgotten since.





To find out which port is causing the problem you could try going into device manager, select "Show hidden devices" in the "View" tab and deleting them until the problem goes away. That might allow you to zero in on the problem.

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answered Oct 8, 2008 at 19:42



I have tried that to no avail. The problem appears to be that EnumPorts() isn't able to connect to the local machine (I assume that is why the RPC server is relevant)

Jon Trauntvein Oct 8, 2008 at 20:01



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I know it's not a direct answer to your question, but have you considered using a different method for enumerating the serial ports? In my applications I use the Setup API, using code from P J Naughter's website:

http://www.naughter.com/enumser.html, and I find it works well.





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answered Oct 8, 2008 at 22:24

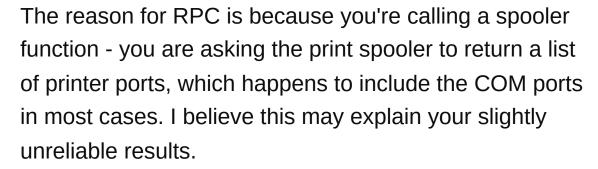




I know this question is extremely old, but I stumbled onto it today, and noticed no-one gave an explanation.









RPC is used to pass the request from your process to the active spooler process, and the RPC server is unavailable message occurs when the spooler service is not running (or not responding properly).

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answered Aug 11, 2014 at 1:39

Valdar Moridin

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