

Re: How to force usbser.sys to re-enumerate the device

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Maybe it is a good idea to avoid such resets?

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"Hapary" <hapary@xxxxxxxxxx> wrote in message
<news:1165599925.894241.229970@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>

Hello all,

I'm implementing an external USB device, which supports a minimal CDC and is seen as a virtual serial port from windows.

The external device might get reset as a result of a watch dog or some other cause. After the reset, the device loses its USB address (as it is stored in its RAM) and other settings, and the USB controller on the device is also reset. Consequently, although windows thinks that every thing is fine, and the connection is ok, the device is waiting for enumeration.

Unfortunately I don't have access to USB pull-ups to cause a bus reset and force the windows to re-enumerate the device. Also although disconnecting the USB cable and connecting it again can fix everything, but this can't be done as well (as a requirement from my boss).

I can send anything to the host either just before the reset (where the device is in addressed state, or after it (where the device is waiting for enumeration). Is there anything in CDC standard that I can use ? Is there anything in usbser.sys that might be beneficial for me ? I know that I can do a soft-replug in windows (by devcon for example), but is there any way to do that from a USB device ?

I know that one option is writing a device driver, but I want to avoid that as much as possible.

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Thanks in advance,