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Windows USB Power Management – Disabling (or enabling)

After upgrade to Windows 10 there is a feature that's introduced to allow the OS to selectively suspend the USB ports. This was done to save power on Laptop and some Desktops. This is handy feature for disabling the power scheme that may take a USB device offline at a most inopportune time, such as the HRI-200 in a listening mode by going into power-save mode and then fails to return from power save. At least it may explain why the Wires-X software sometimes fails either with unexplainable timeout errors or program hangs.

The Power Management would also be the cause of the USB problems. Windows is set to shut down your USB controller to save power by default, sometimes it won't be able to power it back up. So the following are some steps to prevent Windows from "managing" power to your USB controller or the devices.

1. Right-Click 🖽 then click to select Control Panel...e.g.



Figure 1select "Control Panel"

2. Click on "System and Security" from Control Panel...



Figure 2select "System and Security"

3 Click on "Change when the computer sleeps" ...



Figure 3 Select Change when the computer sleeps

4. Click on "Change advanced power settings" ...

< → × 1	Hardware and Sound >	Power Options	Edit Plan Settings	~ õ
	Change settings for the p	lan: WIESX		
	Choose the sleep and display set	tings that you wan	t your computer to use	L.
	Turn off the display:	Never	~	
	9 Put the computer to sleep:	Never	~	
	Change advanced power settings			

Figure 4 Select Change advanced power settings

5. Expand the "USB settings" and you see, "USB selective suspend setting" ...

Server Options	?	×
Advanced settings		
Select the power plan that you want to customis choose settings that reflect how you want your of to manage power.	comput	ter
WIESX [Active] ~		
 □ Turn off hard disk after Setting: 20 Minutes □ Internet Explorer ① Desktop background settings ③ Wireless Adapter Settings ③ Sleep □ USB selective suspend setting ⑤ USB selective suspend setting ⑤ USB selective suspend setting ⑤ USB selective suspend setting ⑥ USB selective suspend setting ⑥ Intel(R) Graphics Settings ○ Denuer settions and lief 		~
Expanded view of Restore plan defined the USB Settings	ults	
OK Cancel	App	ły

Figure 5 USB expanded Settings

This is the default setting for Windows 10. Click on the drop down and select "Disabled" to not allow Windows power management to suspend or power down the USB port ...

Power Options	7	×
Advanced settings		
Select the power plan that you want to choose settings that reflect how you wa to manage power.	customise, the ant your comp	in uter
WIESX [Active]		
Turn off hard disk after		
Internet Explorer Desktop background sattinAnd select Workers Adapter Settin	down ar ct "Disal	row bled
Sleep US8 settings US8 settings		
Solvercive objects entry Setting Enabled Intel(R) Graphic Disabled Dense buttors (Enabled		*
Restore	plan defaults	
OK Car	ncel A	ppky

Figure 6 Disabling USB suspend

6. Click "OK" to save setting and close all open Windows.

This disables the Suspend capability of Windows 10. This may or may not fix the problem of the WiRES X software from occasionally hiccupping, but if eliminates a potential problem.

There is another method to disable the Power Management of the USB. Windows is set to shut down your USB controller to save power by default, sometimes it won't be able to power it back up. So the following steps to prevent Windows from "managing" power to your USB controller or the devices. This is true for all versions of Windows.

1. Open the Device Manager by right click the 🖽 and select "Device Manager" ...



Figure 7 Open the "Device Manager"

2. Expand the "Universal Bus Controller" ...

🛃 Device Manager		×
File Action View Help		
> 📮 Display adapters	 	^
> Firmware		
DE ATA/ATAPI controllers		
> Imaging devices		
Intel(R) Dynamic Platform and Thermal Framework		
> 🔤 Keyboards		
> I Mice and other pointing devices		
> 🥅 Monitors		
> 🔄 Network adapters		
> 🚍 Print queues		
> Processors		
> III SD host adapters Click to expand		
> Security devices		
> Sensors		
Software device Double Click to open		
Properties window		
y and recontrollers		
Viju Universal Serial Bus controllers		
Intel(R) USB 3.0 eXtensible / controller - 1.0 (Microsoft)		
USB Composite Device		
USB Composite Frice		
USB Root Hub (xHCI)		
		*

Figure 8 Expand USB controller

3. Click on the "Power Management" Tab ...

ĺ	USB Root Hub (xHCl) Properties	<
r	General Driver Details Events Power Management	
	USB Root Hub (xHCI)	
	Allow the computer to turn off this device to save power	
	Allow this device to wake the computer	
×		
51		
2	1	
f		
1		
1		
i		
3		
c		
c	OK Cancel	

Figure 9 Power Management tab

4. Uncheck to turn off the Allow the computer to turn off this device to save power option, and click OK button. Hopefully this will help. Please refer to the following for further information...

Windows disable USB power saving (DisableSelectiveSuspend) by Gordy B Stronach.

Fix issue: After upgrade system to Windows 10, USB ports don't work

Demystifying USB Selective Suspend

These are a few of the articles that have further information on Windows USB Power Management.

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