



USB Ethernet RNDIS Troubleshooting

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1. Introduction

This document explains how to troubleshoot a USB Ethernet/RNDIS connection between a controller and host computer.

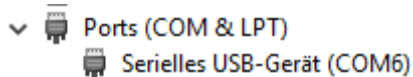
2. Problem Description

With a USB connection between the system port of a controller and a host computer, the device comes up as a COM port in Device Manager instead of as “USB Ethernet/RNDIS Gadget”

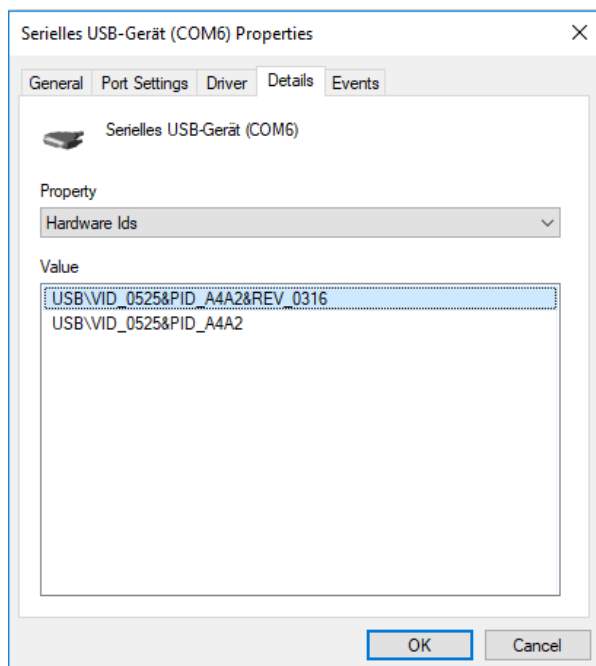
3. Solution

1. Run Device Manager by typing ‘devmgmt.msc’ in the Windows search box.

If the problem description above is true, it should look something like this:



2. Right-click the device and select “Properties”, and navigate to the “Details” tab:



3. Select the Hardware Ids Property, and copy one of the values (you only need one).
4. Run Local Group Policy Editor by typing ‘gpedit.msc’ in the Windows search box.

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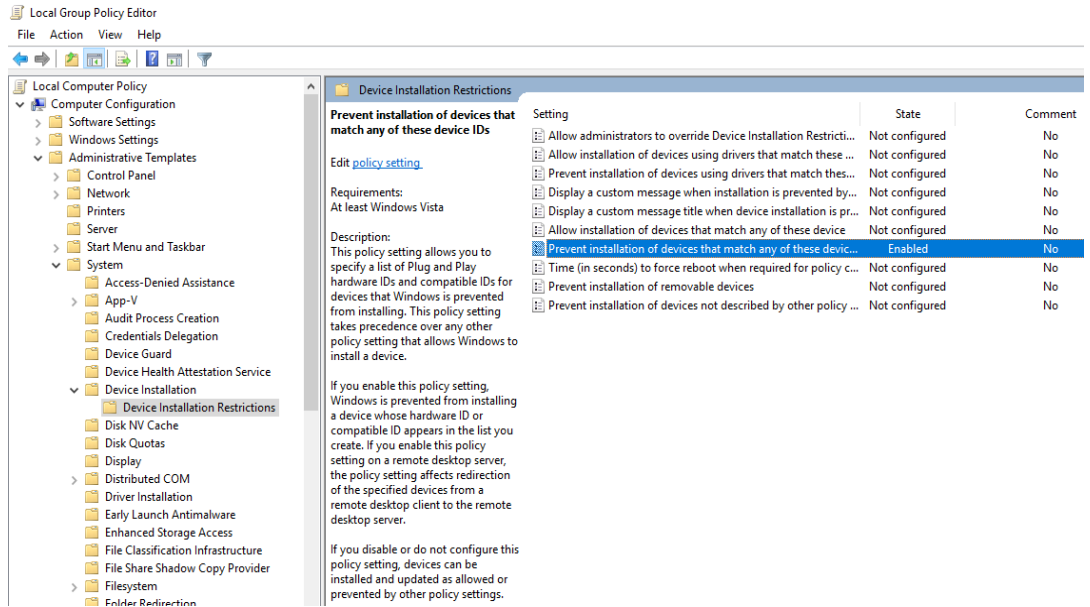
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5. Navigate to Computer Configuration > Administrative Templates > System > Device Installation > Device Installation Restrictions:



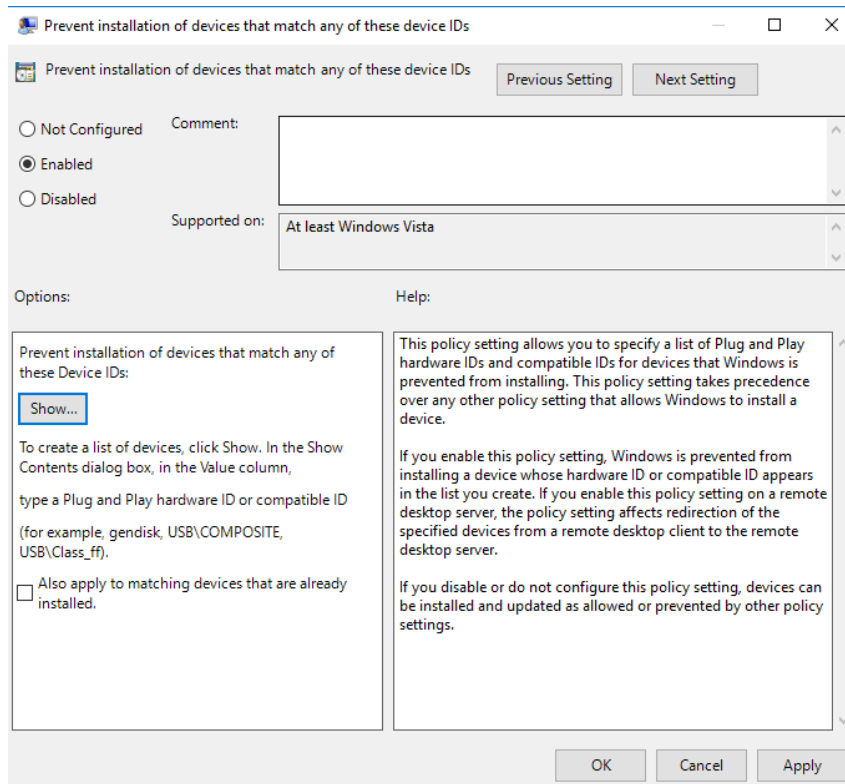
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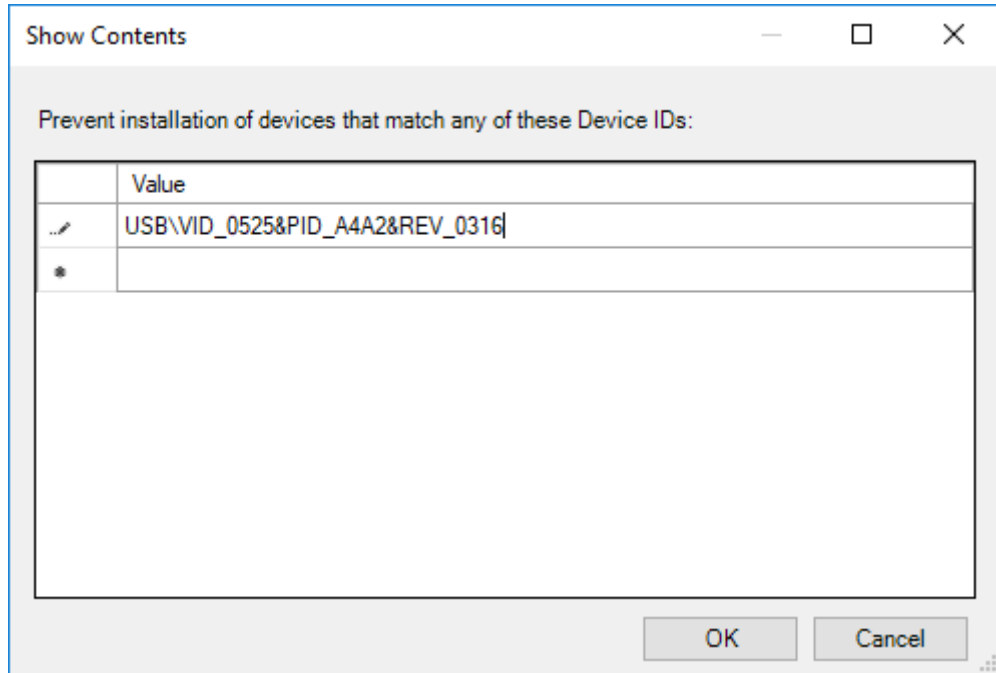
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6. Double-click on "Prevent installation of devices that match any of these device IDs".
7. Switch the status of the preference to 'enabled':



8. Click on “Show...” in the Options pane and the following window will show up:



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9. Copy the Hardware ID from earlier into this entry and click OK.
10. Download the correct driver for USB Ethernet/RNDIS Gadget, Version 1.0.0.0, which can be located at <http://www.driverscape.com/download/usb-ethernet-rndis-gadget>
11. Return to Device Manager. Right-click the device and select “Uninstall device”.
12. Right-click anywhere in Device Manager and select “Scan for hardware changes”.
13. Right-click the unidentified device (it should have a warning symbol on it) and select “Update driver”.
14. Click “Browse my computer for driver software”:

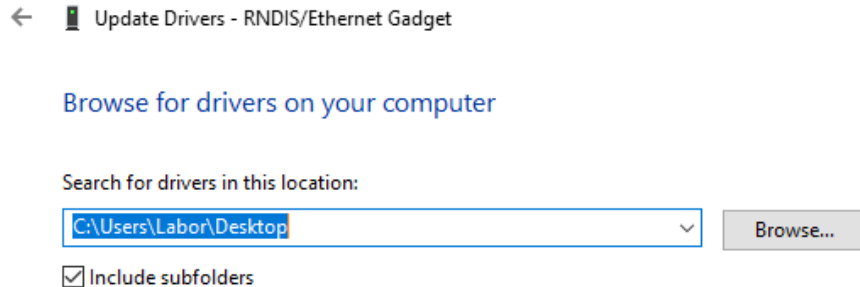
← Update Drivers - RNDIS/Ethernet Gadget

How do you want to search for drivers?

→ Search automatically for updated driver software
Windows will search your computer and the Internet for the latest driver software for your device, unless you've disabled this feature in your device installation settings.

→ Browse my computer for driver software
Locate and install driver software manually.

15. Click “Let me pick from a list of available drivers on my computer”:

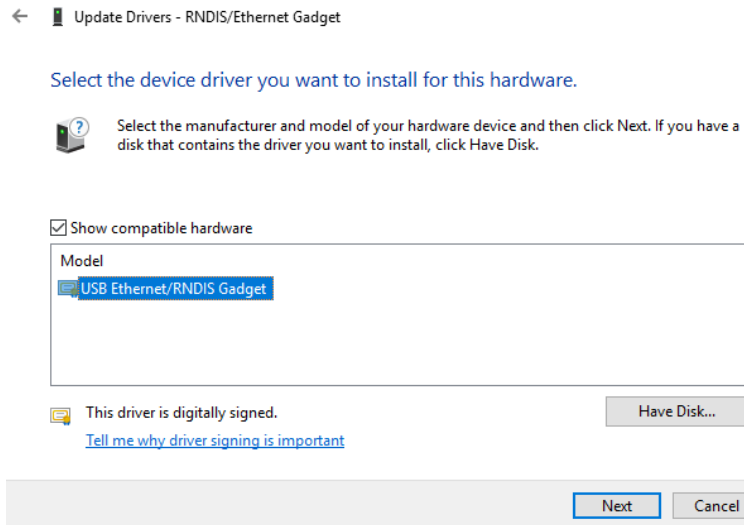


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→ Let me pick from a list of available drivers on my computer
This list will show available drivers compatible with the device, and all drivers in the same category as the device.

16. Click “Have Disk...” and browse for the driver downloaded earlier. Select it and something like the following should appear:

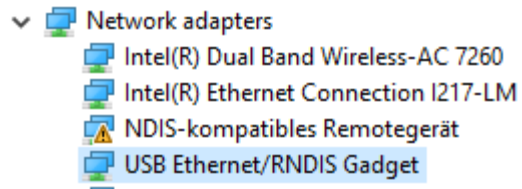


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17. Before clicking ‘Next’, go back to Local Group Policy Editor and select ‘Disabled’ for the policy that was enabled earlier.



18. Click 'Next' on the Update Driver window and install the driver and it should show up as something like this:



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