



RAVENNA Virtua Sound Card:

Network Interface Driver Update after Windows 10 Update





1 Problem Description

Following certain Windows 10 system updates it may be required to re-install the ALC NetworX IEEE1588-2008 network interface driver, as Windows Update routines may have reset the network interface driver setting to the original Intel driver.

A clear indicator for this requirement is the PTP icon in the task bar staying grey, with no PTP interface being selected in the RAVENNA PTP network interface selection box (right-click on PTP icon in task bar):

RAVENNA PTP Network Interface Selection		×
Select PTP network interface		
No IEEE 1588 enabled NIC available		-
	ОК	Cancel



2 Re-installing the RAVENNA IEEE1588-2008 network interface driver

These steps assume that the RAVENNA Virtual Sound Card had been successfully installed and was running before. You may either simply re-install the RVSC or follow these steps (which usually are quicker and do not require the installer to be executed again):

1. Open the Network and Sharing Center and select "Change adapter settings"

Dentrol Panel\All Control Panel	Items\Network and Sharing Center		- 🗆 X
← → ✓ ↑ 🛂 → Control P	anel > All Control Panel Items > Network and S	Sharing Center	✓ O Search Control Panel 🔎
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp			🔲 📜 👗 🖻 📋 🗙 🛩 📼 🍯
Control Panel Home	View your basic network informati	ion and set up connections	
Change adapter settings Change advoce of change settings	View your active networks	Access type: Internet HomeGroup: Ready to create Connections: U Ethernet	
	Unidentified network Public network	Access type: No network access Connections: 📱 82574L	
	Change your networking settings		
	Set up a new connection or networ Set up a broadband, dial-up, or VPI Troubleshoot problems Diagnose and repair network proble	ik N connection; or set up a router or access point. ems, or get troubleshooting information.	
See also			
HomeGroup			
Internet Options Windows Firewall			
0 items			Computer

2. Select the correct network interface and choose "properties" from the contextsensitive menu





3. From the properties dialog, choose "configure"

82574L Properties	×
Networking Sharing	
Connect using:	
2574L IEEE1588 Adapter	
Configure	\supset
This connection uses the following items:	
	~
Install Uninstall Properties	
Description Allows your computer to access resources on a Microsoft network.	
OK Cano	el

4. From the adapter properties dialog choose "update driver"

82574L IE	EE1588 Ada	pter Pro	perties				×
General	Advanced	Driver	Details	Even	ts		
	82574L IEEE1588 Adapter						
Driver Provider:		ALC NetworX GmbH					
Driver Date:		e:	06/22/20	016			
	Driver Vers	ion:	18.14.24	.3			
	Digital Sign	ner:	ALC Net	worX G	mbH		
Driver Details To view details about the driver files.							
Update Driver To update the driver software for this device.							
<u>Roll Back Driver</u> If the device fails after updating the driver, roll back to the previously installed driver.							
	Disable Disables the selected device.						
ļ	<u>J</u> ninstall	install To uninstall the driver (Advanced).					
					OK	Cance	I



5. Select "browse my computer for driver software" and select "... pick from a list ..."



6. Select the matching IEEE1588 adapter and hit "next"

		\times
←	Update Driver Software - 82574L IEEE1588 Adapter	
	Select the device driver you want to install for this hardware.	
	Select the manufacturer and model of your hardware device and then click Next. If you have disk that contains the driver you want to install, click Have Disk.	l.
	Show <u>c</u> ompatible hardware	
	Model	4
	🕞 82574L IEEE1588 Adapter	
	🔄 Intel(R) 82574L Gigabit Network Connection	
	📮 Intel(R) 82574L Gigabit Network Connection	
	🔄 Intel(R) Gigabit CT Desktop Adapter	
	This driver has an Authenticode(tm) signature.	
	Tell me why driver signing is important	
	<u>N</u> ext Cance	



7. Windows is now re-installing the IEEE1588 driver to the selected network interface and should come up with this box:



8. Hit "close", close all other Network Adapter and Center dialogs and open PTP Interface selection from the PTP icon context menu in the tray bar; select the corresponding IEEE1588 Adapter and hit "OK".

RAVENNA PTP Network Interface Selection		×
Select PTP network interface		
82574L IEEE 1588 Adapter MAC:68:05:CA:39:E0:B9		-
82574L IEEE 1588 Adapter MAC:68:05:CA:39:E0:B9		
	ОК	Cancel

The PTP tray icon should now turn red, indicating proper PTP service initiation. After a while, it should turn green, indication PTP sync (given, that a PTP Grandmaster is present on the network and that PTP settings are properly configured – see RVSC Installation Manual for further details).