



# Mellanox WinOF-2 Known Issues

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# 1 Archived Known Issues

The following table describes archived known issues in the former releases on WinOF-2.

**Table 1 - Archived Known Issues (Sheet 1 of 5)**

Internal Ref.	Issue
1121688	<p><b>Description:</b> Mellanox WinOF-2 Device Diagnostics and Mellanox WinOF-2 PCI Device Diagnostics counters in Perfmon are available only on the adapter that was initialized first, which is the counters' owner.</p> <p>In case both adapters are viewed in Perfmon:</p> <ol style="list-style-type: none"> <li>1. The owner will receive correct values, while the second adapter will only receive zeros.</li> <li>2. If the owner goes down, the ownership will move to the second adapter.</li> </ol>
	<b>Workaround:</b> N/A
	<b>Keywords:</b> WinOF-2 Device Diagnostics, Mellanox WinOF-2 PCI Device Diagnostics, Perfmon, ownership
	<b>Detected in version:</b> 1.70.0.1
961251	<p><b>Description:</b> On a dual port device, when the first port is IPoIB and the second port is Ethernet, the device will not start over iSCSI and Windows 2012 in the Ethernet port.</p>
	<b>Workaround:</b> N/A
	<b>Keywords:</b> IPoIB port, Ethernet port, iSCSI, Windows 2012
	<b>Detected in version:</b> 1.70
1000390	<p><b>Description:</b> Configuring a different RoCE mode between VF and PF is not supported</p>
	<b>Workaround:</b> N/A
	<b>Keywords:</b> RoCE, VF, PF
	<b>Detected in version:</b> 1.70
917856	<p><b>Description:</b> All folders under %PROGRAMFILES%Mellanox\MLNX_WINOF2 are deleted in case of upgrade failure. The old driver remains, and no connectivity loss should occur. The issue occurs only when the upgrade fails after the old version was removed.</p>
	<b>Workaround:</b> Following the upgrade failure, reinstall the new package folder.
	<b>Keywords:</b> Installation, setup, missing folders
	<b>Detected in version:</b> 1.70
915981	<p><b>Description:</b> On IPoIB adapters, the network adapter and task manager network counters count all port traffic when only non-RDMA traffic should be shown.</p>
	<b>Workaround:</b> N/A
	<b>Keywords:</b> IPoIB, counters, RDMA
	<b>Detected in version:</b> 1.60
939227	<p><b>Description:</b> When upgrading from WinOF-2 1.50 to 1.60 or later, the MAC address used for the IPoIB interface changes.</p>
	<b>Workaround:</b> N/A
	<b>Keywords:</b> IPoIB, MAC address
	<b>Detected in version:</b> 1.60

**Table 1 - Archived Known Issues (Sheet 2 of 5)**

Internal Ref.	Issue
928999	<b>Description:</b> When installing a new driver, driver version queries via WMI may not be up-to-date, due to information caching in the WMI service.
	<b>Workaround:</b> Stop and restart the WMI service, running the following CMD commands: net stop winmgmt net start winmgmt
	<b>Keywords:</b> Driver version queries, WMI, information caching
	<b>Detected in version:</b> 1.60
964973	<b>Description:</b> SRQ limit event is not supported in the ND and NDK RDMA programming interfaces.
	<b>Workaround:</b> N/A
	<b>Keywords:</b> SRQ, ND, NDK RDMA
	<b>Detected in version:</b> 1.60
900928	<b>Description:</b> The packet sniffer is currently not supported in InfiniBand mode.
	<b>Workaround:</b> N/A
	<b>Keywords:</b> InfiniBand, packet sniffer
	<b>Detected in version:</b> 1.50
-	<b>Description:</b> The installation process or restart of the driver does not close any RoCE user space applications running in the background, and may cause a bug check as a result of a stuck cmd
	<b>Workaround:</b> It is recommended to close all running RoCE user space applications prior to upgrading the driver.
	<b>Keywords:</b> Installation/Upgrade
-	<b>Description:</b> Installation/upgrade fails due to PNP failure to copy the driver files to the driver store, and the following text is printed in the event logs: Fault bucket, type 0 Event Name: PnPDriverImportError Response: Not available Attached Files: C:\Users\ <user>\AppData\Local\Temp\DMI151A.tmp.log.xml C:\Program Files\Mellanox\MLNX_WinOF2\Drivers\“Current OS”\mlx5.inf</user>
	<b>Workaround:</b> Reboot the machine and reinstall.
	<b>Keywords:</b> Installation/Upgrade
-	<b>Description:</b> Installing both WinOF for ConnectX-3 and ConnectX-3 Pro, and WinOF-2 for ConnectX-4 is supported only from WinOF version 5.00 and above.
	<b>Workaround:</b> N/A
	<b>Keywords:</b> Installation/Upgrade

**Table 1 - Archived Known Issues (Sheet 3 of 5)**

Internal Ref.	Issue
654674	<b>Description:</b> When trying to uninstall the mlx5 driver manually (by using pnputil/DPINST or DIFX API), additional hardware scan will be required before viewing the device in the Device Manager or before reinstalling. This used to happen due to a bug in the NetCfgx.dll. (Microsoft case ID is: 115020112345121).
	<b>Workaround:</b> Rescan the hardware after performing the uninstallation.
	<b>Keywords:</b> Installation/Upgrade
650489	<b>Description:</b> While installing the driver on Windows Server 2012, and if SR-IOV mode is disabled in the BIOS and enabled in the firmware, the server might reboot, and the BIOS will hang while loading.
	<b>Workaround:</b> To work in SR-IOV mode, enable SR-IOV in BIOS. Otherwise, disable SR-IOV in the firmware using mlxconfig. For further information on how to enable/disable SR-IOV, please refer to the “Single Root I/O Virtualization (SR-IOV)” section in the User Manual.
	<b>Keywords:</b> Installation/Upgrade
-	<b>Description:</b> On machines configured with NVGRE encapsulation with the encapsulation task offload enabled, incoming VXLAN traffic on the interface may be reported with wrong checksum status.
	<b>Workaround:</b> N/A
	<b>Keywords:</b> Virtualization
-	<b>Description:</b> Running Ntttcp without the “-a X” flag (X > 1) in a NIC configured with 10GbE may cause low bandwidth in TCP single stream
	<b>Workaround:</b> Run Ntttcp with “-a 8” for best performance
	<b>Keywords:</b> Performance
-	<b>Description:</b> RDMA read on single QP 100GbE RoCE cannot achieve more than 50Gb/s.
	<b>Workaround:</b> <ul style="list-style-type: none"> <li>• Use more than one QP</li> <li>• Use Jumbo packets (4K)</li> </ul>
	<b>Keywords:</b> Performance
576556	<b>Description:</b> “TCP RSC Average Packet Size” counter under network adapter does not count correctly. This is a known operating system issue.
	<b>Workaround:</b> N/A
	<b>Keywords:</b> GeneralWorkaround

**Table 1 - Archived Known Issues (Sheet 4 of 5)**

Internal Ref.	Issue
683840	<p><b>Description:</b> In Windows Server 2016, the following RDMA counters for VPorts that were created to use RDMA capability will show statistics for all the VPorts connected to the same interface and not for a specific VPort:</p> <ul style="list-style-type: none"> <li>• RDMA Inbound Bytes/sec</li> <li>• RDMA Inbound Frames/sec</li> <li>• RDMA Outbound Bytes/sec</li> <li>• RDMA Outbound Frames/sec</li> </ul>
	<b>Workaround:</b> N/A
	<b>Keywords:</b> RDMA
786035	<p><b>Description:</b> Running applications on top of MS MPI may result in failure.</p>
	<b>Workaround:</b> N/A
	<b>Keywords:</b> RDMA
877750	<p><b>Description:</b> Occasionally, the adapter card shows an error of duplicate IPv4 address when disabling and enabling the adapter through Device Manager.</p>
	<b>Workaround:</b> Reboot the machine instead of disabling and enabling it in the Device Manager.
	<b>Keywords:</b> Device Manager, IPv4
825154	<p><b>Description:</b> Mellanox WinOF-2 Device Diagnostic and PCI Device Diagnostic counters reported in PerfMon are per device. The counters that are reported per adapter under these sets show the counters for all the devices and not only for the specific adapter.</p>
	<b>Workaround:</b> N/A
	<b>Keywords:</b> perfmon, counters
894614	<p><b>Description:</b> The nd_*_bw and nd_*_lat tools do not work on Windows server 2012, Windows 8.1 and Windows Server 2012 R2. An error message appears, notifying that the api-ms-win-crt.dll is missing.</p>
	<p><b>Workaround:</b> Windows update kb2999226 must be downloaded and installed, in order to obtain the universal c run time dlls. To download the update, go to <a href="https://support.microsoft.com/en-us/kb/2999226">https://support.microsoft.com/en-us/kb/2999226</a>. To verify that the update is installed, run the following powershell command: get-hotfix -id kb2999226</p>
	<b>Keywords:</b> nd tools, Windows 2012, Windows 2012 R, missing dll, Universal C Runtime
899853	<p><b>Description:</b> Uninstallation of the driver does not reset all network adapter configurations to the default values.</p>
	<p><b>Workaround:</b> Upon completion of the uninstallation process, run the following powershell command for each network adapter, while replacing &lt;AdapterName&gt; with the name of the relevant network adapter: Reset-NetAdapterAdvancedProperty -Name "&lt;AdapterName&gt;" -DisplayName "*" "</p>
	<b>Keywords:</b> Uninstallation, network adapter configurations, Windows Server 2016, Windows 10



**Table 1 - Archived Known Issues (Sheet 5 of 5)**

Internal Ref.	Issue
778631	<b>Description:</b> IB utils are currently not a part of the WinOF-2 package
	<b>Workaround:</b> Fabric diagnostic can be done from a managed switch or a different node in the fabric with IB utils support.
	<b>Keywords:</b> InfiniBand, IB utils, fabric diagnostic