



Mellanox WinOF-2 Bug Fixes

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1 Archived Bug Fixes

Table 1 lists the archived bug fixes of all former WinOF-2 releases.

Table 1 - Archived Bug Fixes

Internal Ref.	Issue
1091022	Description: Fixed an issue where high memory utilization and fake transmit stuck detection could occur in times of heavy outgoing traffic, due to completion queue starvation.
	Keywords: high memory utilization, transmit stuck, completion queue starvation
	Discovered in Release: 1.60
	Fixed in Release: 1.70 FUR 1
1093185	Description: Fixed an issue where observing RSS statistics counters during RSS base processor change could cause a driver crash.
	Keywords: RSS statistics counters, RSS base processor, driver crash
	Discovered in Release: 1.70
	Fixed in Release: 1.70 FUR 1
958895	Description: Fixed an issue where traffic counters were not updated between two consequential reads, in case they were read more than once within 100ms.
	Keywords: Traffic counters
	Discovered in Release: 1.70
	Fixed in Release: 1.70 FUR 1
969892	Description: Fixed the issue where driver required auto-negotiation by default. This could cause link connectivity problems with devices that do not support auto-negotiation.
	Keywords: Link connectivity, "SavedLinkSpeedValue"
	Discovered in Release: 1.45
	Fixed in Release: 1.70
945026 / 960950	Description: SR-IOV VFs drivers are not removed correctly in case of live migration or host driver restart.
	Keywords: SR-IOV, VFs drivers, live migration, host driver restart
	Detected in version: 1.60
	Fixed in Release: 1.70
953622	Description: Running the mlx5cmd -sniffer tool with more than 8 command line arguments results in failure.
	Keywords: mlx5cmd -sniffer
	Detected in version: 1.60
	Fixed in Release: 1.70

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Internal Ref.	Issue
964137	<p>Description: The installation/uninstallation process fails in case the event viewer is open and the mlx5.sys is locked.</p> <p>Keywords: Installation, uninstallation, event viewer, mlx5.sys</p> <p>Detected in version: 1.60</p> <p>Fixed in Release: 1.70</p>
1072611	<p>Description: Fixed a BSOD issue when opening RSS counters on perfmon while the machine had only one RSS core that was different from 0.</p> <p>Keywords: RSS, counters</p> <p>Discovered in Release: 1.60</p> <p>Fixed in Release: 1.70</p>
960900	<p>Description: Fixed the traffic counter name from "Packets Received Discarded" to "Packets Received Discarded - No Receive WQEs", as it counts only packets that were dropped due to a lack of receive WQEs.</p> <p>Keywords: traffic counter, Receive WQE</p> <p>Discovered in Release: 1.70</p> <p>Fixed in Release: 1.70</p>
964551	<p>Description: Fixed an issue where the WinOF-2 driver was not loaded on an adapter with an enabled SR-IOV, when the port mode was set to InfiniBand. An error message appeared, stating that the firmware does not support IPoIB.</p> <p>Keywords: SR-IOV, IPoIB</p> <p>Discovered in Release: 1.60</p> <p>Fixed in Release: 1.70</p>
962960	<p>Description: Fixed an issue were in InfiniBand mode, non-default prefix was not supported.</p> <p>Keywords: InfiniBand, not-default prefix</p> <p>Discovered in Release: 1.60</p> <p>Fixed in Release: 1.70</p>
960941	<p>Description: Fixed an issue that caused the command line parsing of mlx5cmd -sniffer to fail when many arguments were provided.</p> <p>Keywords: mlx5cmd -sniffer</p> <p>Discovered in Release: 1.60</p> <p>Fixed in Release: 1.70</p>
969764	<p>Description: Fixed an issue that caused the values of the "Minor Stall Watermark Reached" and "Critical Stall Watermark Reached" pause resiliency counters to be reported as zero in some cases, regardless of the real values.</p> <p>Keywords: "Minor Stall Watermark Reached", "Critical Stall Watermark Reached"</p> <p>Discovered in Release: 1.60</p> <p>Fixed in Release: 1.70</p>

Table 1 - Archived Bug Fixes

Internal Ref.	Issue
1048938	Description: Fixed an issue that could cause an installation failure when installing the same package twice with the following argument: ADDLOCAL=All.
	Keywords: Installation
	Discovered in Release: 1.60.51000
	Fixed in Release: 1.60.53000
951130	Description: Fixed an issue which caused driver unload failure and blue screen with code 9F, when shutting down a machine while NDK traffic is running.
	Keywords: RDMA, unload, blue screen, shutdown, NDK
	Discovered in Release: 1.60
	Fixed in Release: 1.60
926267	Description: Fixed an issue which caused VLAN tagging to not operate on ConnectX-5 family devices.
	Keywords: VLAN tagging, ConnectX-5
	Discovered in Release: 1.50
	Fixed in Release: 1.60
903536	Description: Fixed an issue where Environment variables were added only to the current user and not to all users
	Keywords: Environment variables
	Discovered in Release: 1.50
	Fixed in Release: 1.60
704364	Description: Fixed an issue which caused a failure to remove ND providers upon uninstallation of the driver.
	Keywords: Uninstallation, ND providers
	Discovered in Release: 1.35
	Fixed in Release: 1.60
894229	Description: Fixed an issue which led to a false report of event log Error Number 66.
	Keywords: False error, event log
	Discovered in Release: 1.45
	Fixed in Release: 1.50
859577	Description: Fixed an error message on bad command line arguments.
	Keywords: Sniffer
	Discovered in Release: 1.45
	Fixed in Release: 1.50

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Internal Ref.	Issue
858620	Description: Fixed an issue which caused the link speed to be persistent over machine reboots when setting it using mlx5cmd.
	Keywords: mlx5cmd, link speed
	Discovered in Release: 1.45
	Fixed in Release: 1.50
842953	Description: Fixed a wrong RSS hash calculation for encapsulated traffic which led to the wrong usage of RSS CPUs.
	Keywords: RSS hash calculation
	Discovered in Release: 1.45
	Fixed in Release: 1.50
803652	Description: Fixed an issue which caused the driver to request more resources from the OS than it actually requires.
	Keywords: General
	Discovered in Release: 1.45
	Fixed in Release: 1.50
778145	Description: Fixed an issue which prevented adapters with customized device description containing a back slash character not to have counter instances in perfmon. Note: For the fix to take effect, the machine must be rebooted after driver update.
	Keywords: perfmon, counters
	Discovered in Release: 1.45
	Fixed in Release: 1.50
767939	Description: Removed the registry key that reported the MUP version from the mlx5.inf file in Windows Server 2016.
	Keywords: MUP, INF, Installation
	Discovered in Release: 1.45
	Fixed in Release: 1.50
689176	Description: Fixed an issue which cause the driver unload process on a machine with many adapter cards to take longer than required.
	Keywords: General
	Discovered in Release: 1.45
	Fixed in Release: 1.50
828869	Description: Fixed an issue which prevented VxlanUDPPortNumber update from the driver "Advance properties" tab.
	Keywords: GUI
	Discovered in Release: 1.40
	Fixed in Release: 1.45

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Internal Ref.	Issue
823973	Description: Fixed an issue where changing the priority on a server while running SMB Direct traffic could cause a blue screen (BSOD).
	Keywords: RDMA
	Discovered in Release: 1.40
	Fixed in Release: 1.45
824167	Description: Fixed an issue in Windows Server 2016 which caused a PowerShell query to get stuck and cause the installer to hang.
	Keywords: Installation, setup
	Discovered in Release: 1.40
	Fixed in Release: 1.45
751204	Description: Fixed an issue which caused some connections to fail if the IP source port requested was 0 when running many concurrent ND or NDK connections.
	Keywords: RDMA
	Discovered in Release: 1.35
	Fixed in Release: 1.40
752051	Description: Removed the "VPI" from Network Device's description. The Network Device's description is now "Mellanox ConnectX-4 Adapter" instead of "Mellanox ConnectX-4 VPI Adapter".
	Keywords: Network Adapters
	Discovered in Release: 1.35
	Fixed in Release: 1.40
778372	Description: Fixed an issue causing VMQ VMs multicast traffic to be duplicated when traffic ran on the same physical host.
	Keywords: VMQ VMs multicast traffic
	Discovered in Release: 1.35
	Fixed in Release: 1.40
768279	Description: Fixed a BSOD issue when NDK consumers posted to a Queue Pair more work requests than the Queue Pair's size without polling for completions.
	Keywords: NDK
	Discovered in Release: 1.35
	Fixed in Release: 1.40

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Internal Ref.	Issue
689041	<p>Description: Fixed an issue causing Virtual Machines' incoming and outgoing tagged traffic to be dropped by the internal eSwitch when QoS policy traffic classes were customized by the user (using, for example, TCP port or EtherType).</p> <p>Keywords: Virtualization</p> <p>Discovered in Release: 1.35</p> <p>Fixed in Release: 1.40</p>
752616	<p>Description: Fixed an issue that caused VLAN priority tagging (IEEE 802.1p class of service) not to be added into RDMA packets when VLAN ID is set to 0 (no VLAN).</p> <p>Keywords: General</p> <p>Discovered in Release: 1.35</p> <p>Fixed in Release: 1.40</p>
690163	<p>Description: Fixed an issue that resulted in the message below when enabling/disabling ECN and causing the driver to perform a miniport reset: <code>"FW command fails. op 0x822, status 0x3, errno -22, syndrome 0x507ee9"</code> <code>"mstdump %SystemRoot%\Temp\<<filename>.log was created after fatal error"</code></p> <p>Keywords: Performance</p> <p>Discovered in Release: 1.35</p> <p>Fixed in Release: 1.40</p>
654655	<p>Description: Fixed the issue where there was no traffic when configuring VLAN over an SRIOV vSwitch.</p> <p>Keywords: SR-IOV</p> <p>Discovered in Release: 1.30</p> <p>Fixed in Release: 1.35</p>
614123	<p>Description: Fixed the issue where the receive counters of "Mellanox WinOF-2 VPort Traffic Counters" in Perfmon tool included packets that have been discarded in layers above the link layer.</p> <p>Keywords: SR-IOV</p> <p>Discovered in Release: 1.30</p> <p>Fixed in Release: 1.35</p>
664227	<p>Description: Fixed the issue where firmware upgrade did not work in unattended mode.</p> <p>Keywords: Installation</p> <p>Discovered in Release: 1.30</p> <p>Fixed in Release: 1.35</p>

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Internal Ref.	Issue
591753	Description: Fixed QoS counters to count properly.
	Keywords: General
	Discovered in Release: 1.20
	Fixed in Release: 1.30
536727	Description: Fixed the issue of when Get-NetAdapterQoS PowerShell command did not return correct values once traffic classes were configured.
	Keywords: General
	Discovered in Release: 1.10
	Fixed in Release: 1.30
515408	Description: Fixed the issue of when traffic counters in the “Task Manager” may show higher numbers than the actual number.
	Keywords: Ethernet
	Discovered in Release: 1.10
	Fixed in Release: 1.20
-	Description: Fixed some general stability issues.
	Keywords: Ethernet
	Discovered in Release: 1.10
	Fixed in Release: 1.20
515406	Description: Fixed the issue of when running performance benchmarks for a short period of time (< 1 sec), this may provide bad latency in Ethernet.
	Keywords: Performance
	Discovered in Release: 1.10
	Fixed in Release: 1.20
574565	Description: Fixed the issue of when there is a pressure in TCP connection establishments, some of these connections may fail.
	Keywords: Performance
	Discovered in Release: 1.10
	Fixed in Release: 1.20