

Mellanox WinOF VPI Archived Bug Fixes

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1 Archived Bug Fixes

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

Table 1 - Archived Bug Fixes

Internal Ref.	Issue
897752	Description: Fixed an issue which reported a false error for successful netsh tcp settings via performance tuning
	Keywords: netsh tcp, performance tuning
	Discovered in Release: 5.22
	Fixed in Release: 5.30
1071899	Description: Fixed an issue that limited the OS from using groups other than Group 0, by removing the *RssMaxProcNumber registry key from the INF.
	Keywords: Groups, *RssMaxProcNumber registry key, INF
	Discovered in Release: 5.30 (fifth fast update release)
	Fixed in Release: 5.30.12921 (sixth fast update release)
915545	Description: Fixed an issue which caused a crash in the MAD cleanup error flow upon driver unload.
	Keywords: MAD cleanup, unload
	Discovered in Release: 5.30
	Fixed in Release: 5.30 (Fast Updated Release)
915558	Description: Fixed a crash on the VF initialization error-flow.
	Keywords: VF initialization
	Discovered in Release: 5.25
	Fixed in Release: 5.30
910414	Description: Added support for Mellanox (hardware) VF triggered comm channel reset.
	Keywords: SR-IOV, comm channel reset
	Discovered in Release: 5.30
	Fixed in Release: 5.30 (Fast Updated Release)
909392	Description: Deactivated the RDMA statistics counters query for vPorts for which RDMA is not enabled.
	Keywords: RDMA, vPorts
	Discovered in Release: 5.25
	Fixed in Release: 5.30



Table 1 - Archived Bug Fixes

Internal Ref.	Issue
	Description: Removed unsupported OS from an installer condition message for the Windows 2012R2 package.
	Keywords: Installer, Windows 2012R2
	Discovered in Release: 5.25
	Fixed in Release: 5.30
909837	Description: Fixed an issue that omitted both ports of a dual-port device from the RSS counters report, even when only one of the ports was disabled.
	Keywords: RSS counters
	Discovered in Release: 5.30
	Fixed in Release: 5.30 (Fast Updated Release)
844201	Description: Fixed the manual configuration of SriovPortMode to allow VF creation on a second port via set-MlnxPCIDeviceSriovSetting.
	Keywords: SR-IOV
	Discovered in Release: 5.25
	Fixed in Release: 5.30
852485	Description: Fixed an issue that caused occasional failures of the execution of OID_QOS_OFFLOAD_CURRENT_CAPABILITIES on Windows 2016.
	Keywords: QOS
	Discovered in Release: 5.20
	Fixed in Release: 5.30
888501	Description: Fixed an issue that caused traffic loss following an upgrade of Windows 2016 VM to 5.20 driver version.
	Keywords: Upgrade, traffic loss
	Discovered in Release: 5.20
	Fixed in Release: 5.30
898427	Description: Fixed an issue where certain incoming packets had redundant 32 bytes at the end, as a result of an incorrect checksum advertisement from the driver to the NDIS
	Keywords: Received packets, 32 bytes, checksum
	Discovered in Release: 5.02
	Fixed in Release: 5.30



Table 1 - Archived Bug Fixes

Internal Ref.	Issue
873686	Description: Updated VEPA settings to apply on the physical port only when SR-IOV is enabled, in order to prevent possible RDMA issues.
	Keywords: VEPA, loopback, SR-IOV
	Discovered in Release: 5.02
	Fixed in Release: 5.30
902856	Description: Fixed the issue which caused the failure of the powershell command Get_MLNXNetAdapterSettings and the command Get_MLNXNetAdapterFlowControlSettings on servers with Connectx3/Pro and ConnectX4/LX devices.
	Keywords: CIM, powershell, Get_MLNXNetAdapterSettings, Get_MLNXNetAdapterFlowControlSettings,
	Discovered in Release: 5.20
	Fixed in Release: 5.30
842752	Description: Fixed a crash on the initial stage of the driver's startup.
	Keywords: mlx4_bus, crash on startup
	Discovered in Release: 5.25
	Fixed in Release: 5.30
844372	Description: Fixed an issue where the SriovPorts settings were not deleted in the process of the driver's uninstallation.
	Keywords: Uninstallation, SriovPorts settings
	Discovered in Release: 5.25
	Fixed in Release: 5.30
896496	Description: Fixed an issue where the network adapter configuration was not deleted in the process of the driver's uninstallation.
	Keywords: Uninstallation, network adapter configuration
	Discovered in Release: 5.25
	Fixed in Release: 5.30
897970	Description: Fixed an issue where the nd providers were not removed in the process of the driver's uninstallation.
	Keywords: Uninstallation, nd providers
	Discovered in Release: 5.25
	Fixed in Release: 5.30



Table 1 - Archived Bug Fixes

Internal Ref.	Issue
832138/ 839713	Description: Fixed an issue which caused the tools' folder not to be added to the path environment variable when installing the driver on a VM.
	Keywords: mlx4_bus, Load failure
	Discovered in Release: 5.25
	Fixed in Release: 5.30
836302	Description: Fixed an issue that generated and sent the following message to the Windows event log when using firmware 2.36.5000, whenever "Mellanox WinOF Bus Counters" was selected in Perfmon: "SingleFunc_196_0_0: Execution of FW command failed. op 0x68, status 0x2, errno -1"
	Keywords: ECN, counters
	Discovered in Release: 5.22
	Fixed in Release: 5.30
781323	Description: Fixed an issue that occasionally caused system-hang when TCP offload parameters were updated dynamically (in SR-IOV machines only).
	Keywords: SR-IOV machines, TCP offload parameters
	Discovered in Release: 5.25
	Fixed in Release: 5.30
831100	Description: Fixed an issue that occasionally caused system-hang upon bus driver disabling, when the encapsulation parameters were updated dynamically (in SR-IOV machines only).
	Keywords: SR-IOV machines, bus driver, encapsulation parameters
	Discovered in Release: 5.10
	Fixed in Release: 5.30
856330	 Description: Updated the port type configuration as described below for adapter cards that do not support an IB port type: ETH_roce_1_25:ETH_roce_1_25 for ConnectX-3 ETH_rroce_2:ETH_rroce_2 for ConnectX-3 Pro
	Keywords: Port type
	Discovered in Release: 5.25
	Fixed in Release: 5.30



Table 1 - Archived Bug Fixes

Internal Ref.	Issue
848108/ 848622	Description: Fixed an issue where the VF RDMA was not functional when vSwitch was attached to port 2. Now RDMA over VF is supported only when the vSwitch is attached to port 1.
	Keywords: RDMA over VF, vSwitch
	Discovered in Release: 5.25
	Fixed in Release: 5.30
861801	Description: Fixed an issue which caused the driver to hang during installation process due to a deadlock.
	Keywords: Installation, deadlock
	Discovered in Release: 5.20
	Fixed in Release: 5.30
826684	Description: Fixed an issue which caused AcceptGREbyOuterMAC to remain disabled even after installing the Azure package on Windows Server 2016.
	Keywords: AcceptGREbyOuterMAC , VXLAN, Windows Server 2016
	Discovered in Release: 5.19
	Fixed in Release: 5.25
851705	Description: Fixed an issue which occasionally caused system crash while disabling the Physical Interface in a setup where the VM switch was attached to the Melanox interface and the vNic was created with RDMA Network Direct enabled.
	Keywords: RDMA Network Direct, vNIC
	Discovered in Release: 5.22
	Fixed in Release: 5.25
815512	Description: Fixed a lock handling on IPoIB VMQ creation error flow which caused the machine to hang due to an attempt to require a lock that was already held.
	Keywords: IPoIB VMQ, lock handling
	Discovered in Release: 5.22
	Fixed in Release: 5.25
829994/ 843730	Description: Fixed an issues which caused the bus driver to fail to start up with an old firmware (like 2.11.500) when the firmware supported a not-a-power-of-two amount of statistic counters.
	Keywords: Startup, Counter
	Discovered in Release: 5.22
	Fixed in Release: 5.25



Table 1 - Archived Bug Fixes

Internal Ref.	Issue
845965	Description: Fixed an issues which caused system crash during multicast re-registrations on a setup with 2 ports both configured as IPoIB, when one of the IPoIB ports was disabled, and the SM was restarted on the second port.
	Keywords: IPoIB, SM
	Discovered in Release: 5.22
	Fixed in Release: 5.25
767937	Description: Removed the MUP registry keys for the mlx4_bus INF for Windows Server 2016.
	Keywords: Bus INF, MUP package, Windows Server 2016
	Discovered in Release: 5.19
	Fixed in Release: 5.25
824828	Description: Fixed an issue which caused the <code>sriovPort1NumVFs</code> and <code>srio-vPort2NumVFs</code> fields of the <code>Get-MLNXPciDeviceSriovSetting</code> command to show the value from the registry and not the actual value set by the driver.
	Keywords: CIM, Powershell
	Discovered in Release: 5.19
	Fixed in Release: 5.25
826650	Description: Fixed an issue which caused part_man tool to not function on an adapter with mixed case characters.
	Keywords: part_man, IPoIB
	Discovered in Release: 5.19
	Fixed in Release: 5.25
834347	Description: Fixed an issue which occasionally caused BSOD when enabling VMMQ on a vport while having traffic from the VM's vport to another host. The vmswitch was created with SR-IOV enabled but the vport was not.
	Keywords: VMMQ
	Discovered in Release: 5.19
	Fixed in Release: 5.25
828768	Description: Fixed an issue which prevented VXLAN port from being set from the UI of the network adapter.
	Keywords: VXLAN
	Discovered in Release: 5.19
	Fixed in Release: 5.25



Table 1 - Archived Bug Fixes

Internal Ref.	Issue
786158	Description: Fixed an issue where the mlx4_fif folder remained in the driver's folder after uninstallation.
	Keywords: Setup, mlx4_fif
	Discovered in Release: 5.20
	Fixed in Release: 5.22
775438	Description: Fixed an issue where faulty CM reject messages were sent on the wire when unicast flooding was set in switch.
	Keywords: RoCE, Endure
	Discovered in Release: 5.10
	Fixed in Release: 5.22
666989	Description: Fixed an issue which caused ND not to function properly in Endure-ROCE loopback between VMs on the same host.
	Keywords: RoCE, Endure
	Discovered in Release: 5.10
	Fixed in Release: 5.22
787139	Description: Fixed an issue that caused the perf_tuning.exe tool to crash in Windows Server 10 when running a dual-port configuration.
	Keywords: Tools, performance tuning, Windows Server 10
	Discovered in Release: 5.10
	Fixed in Release: 5.22
667374	Description: Old SriovEnable registry key is now obsolete. SR-IOV is now enabled by default.
	Keywords: SR-IOV
	Discovered in Release: 5.10
	Fixed in Release: 5.22
600519	Description: Fixed an issue which caused the system to crash due to a wrong detection of the Forwarding scenario.
	Keywords: Ethernet
	Discovered in Release: 5.10
	Fixed in Release: 5.22



Table 1 - Archived Bug Fixes

Internal Ref.	Issue
687363	Description: Improved the notification about the port type settings events in the Windows systrem event Logs.
	Keywords: SR-IOV
	Discovered in Release: 5.10
	Fixed in Release: 5.22
685039	Description: Fixed an issue where the RDSH service had to be disabled even if the CIM provider was not selected as part of the installation.
	Keywords: Installation
	Discovered in Release: 5.10
	Fixed in Release: 5.22
691489	Description: Fixed an issue which resulted in BSOD 0x1E (KMODE_EXCEP-TION_NOT_HANDLED) when the machine had multiple network port (whether a single physical card with multiple network ports or multiple single-port cards) with some ports configured with SR-IOV enabled, and some with SR-IOV disabled.
	Keywords: SR-IOV
	Discovered in Release: 5.10
	Fixed in Release: 5.22
742103	Description: Fixed a wrong multicast attach flow in IPoIB which caused both ports to receive multicast messages sent for one of them. Those packets were dropped later on and had no effect on the receiving traffic in the wrong destination, but it did increment the "Packets Received Error" counter.
	Keywords: IPoIB
	Discovered in Release: 5.10
	Fixed in Release: 5.22
694482	Description: Fixed the NetworkDirect API INDAdapter::Listen() return status when the requested port was already in use. Changed the status from the non-compliant ND_INVALID_PARAMETER to the specification-compliant ND_AD-DRESS_ALREADY_EXISTS.
	Keywords: ND/NDK
	Discovered in Release: 4.95
	Fixed in Release: 5.22



Table 1 - Archived Bug Fixes

Internal Ref.	Issue
750419	Description: Added a mechanism to ensure that listeners will not receive the same ephemeral port. The driver uses the default range of ephemeral ports 49152 to 65535.
	Keywords: ND/NDK
	Discovered in Release: 5.10
	Fixed in Release: 5.22
755012	Description: Fixed an ND applications return status when a Send request failed with RNR. Changed the status from the non-compliant STATUS_DATA_NOTACCEPTED to the specification-compliant STATUS_IO_TIMEOUT.
	Keywords: ND
	Discovered in Release: 5.10
	Fixed in Release: 5.22
768149	Description: Fixed a race in IPoIB multicast management which caused an interface not to re-register on a multicast group after an SM restart. Such behavior resulted in traffic loss.
	Keywords: IPoIB
	Discovered in Release: 5.10
	Fixed in Release: 5.22
777590	Description: Fixed an issue which prevented the 'ibdiagnetget_cable_info' command from showing information on the cables in remote nodes.
	Keywords: Tools
	Discovered in Release: 4.95
	Fixed in Release: 5.22
777708	Description: Fixed an issue which disabled VXLAN offload when received OID_TCP_OFFLOAD_PARAMETERS with EncapsulationPacketTaskOffload Enabled and the VxlanUDPPortNumber set to 0.
	Keywords: VXLAN
	Discovered in Release: 5.10
	Fixed in Release: 5.22
784798	Description: Fixed wrong counting of MTT-pages shown under "Mellanox WinOF Bus Counters".
	Keywords: Counters
	Discovered in Release: 5.10
	Fixed in Release: 5.22



Table 1 - Archived Bug Fixes

Internal Ref.	Issue
785118	Description: Fixed an issue which caused the CIM provider installation to fail when another provider which uses the same classes was installed.
	Keywords: CIM
	Discovered in Release: 5.10
	Fixed in Release: 5.22
785384	Description: Fixed an IPoIB initialization error flow cleanup which caused a crash in the timer execution when the cleanup started before IPoIB initialization was completed successfully.
	Keywords: IPoIB
	Discovered in Release: 5.10
	Fixed in Release: 5.22
798908	Description: Fixed an issue which resulted in BSOD when the NIC received illegal OID_RECEIVE_FILTER_QUEUE_PARAMETERS value with QueueID higher than reported.
	Keywords: VMQ
	Discovered in Release: 5.10
	Fixed in Release: 5.22
774101	Description: Fixed an issue which prevented the TEAM interface and the VLAN interface to send and receive traffic at the same time. Now both the TEAM and the VLAN interfaces work at the same time where the TEAM interface handles all untagged frames and the VLAN interface handles the tagged frames.
	Keywords: Teaming
	Discovered in Release: 4.95
	Fixed in Release: 5.22
695898	Description: Fixed an issue causing BSOD upon driver restart in VM.
	Keywords: General
	Discovered in Release: 4.95
	Fixed in Release: 5.22
681220	Description: Added to VSTAT the ability to show the ports' state in all port configurations (e.g. Ethernet, RoCE) and for several cards.
	Keywords: Tools
	Discovered in Release: 5.10
	Fixed in Release: 5.22



Table 1 - Archived Bug Fixes

Internal Ref.	Issue
679691	Description: Fixed an issue that caused the system to hang when the driver was installed and RDMA applications were opened.
	Keywords: Setup
	Discovered in Release: 5.10
	Fixed in Release: 5.22
669086	Description: Disabled encapsulation offload capabilities for VFs regardless of the device capability to support it.
	Keywords: Ethernet
	Discovered in Release: 5.10
	Fixed in Release: 5.22
665352	Description: Added event-viewer message to identify "PortType" registry in case the port is configured for a unsupported type. For example if the device supports only Ethernet and the port is configured for IB the event-viewer message will be displayed.
	Keywords: SR-IOV
	Discovered in Release: 4.95
	Fixed in Release: 5.22
654942	Description: Fixed a bluescreen issue caused by calling NDK_FN_DISCONNECT on a not connected NDK_CONNECTOR.
	Keywords: NDK
	Discovered in Release: 5.10
	Fixed in Release: 5.22
648323	Description: Fixed an issue causing the IP fragmentation not to function properly, consequently discarding large packets, when SR-IOV was turned ON and the "Jumbo Packet" field on the "Advanced" tab of the Ethernet driver's properties (in device manager) was set to 9602 or more.
	Keywords: Ethernet
	Discovered in Release: 5.10
	Fixed in Release: 5.22



Table 1 - Archived Bug Fixes

Internal Ref.	Issue
644775	Description: Modified the event viewer-log message displayed when the PCI virtualization does not support SR-IOV. The new message is: "SR-IOV cannot be enabled due to an error in the PCI_VIRTUALIZATION_INTERFACE. Possible reason, the machine does not support SR-IOV."
	Keywords: SR-IOV
	Discovered in Release: 5.10
	Fixed in Release: 5.22
644495	Description: Fixed an issue causing the system to crash when creating a team from the GUI.
	Keywords: Teaming, GUI
	Discovered in Release: 5.10
	Fixed in Release: 5.22
642433	Description: Fixed an issue where the TTL setting for the RDMA traffic could not be changed. The current solution is now defined as follows: 1. The driver will look for private parameter in ibbus\parameters\DefaultTTL b. If it does not exist, it will take it from TCP/IP configuration (tcpip\parameters\DefaultTTL) c. If not found, it will use TCP/IP default of 128
	Keywords: RDMA
	Discovered in Release: 5.10
	Fixed in Release: 5.22
630887	Description: Fixed an issue which resulted in interface disabling failure, and system crash when disabling the system, when multi-streams of sent fragmented/small packets could not be sent/returned to the OS.
	Keywords:
	Discovered in Release: 5.10
	Fixed in Release: 5.22
630050	Description: Fixed an issue causing a Black Screen in Windows guest OS running over non-Windows SR-IOV Hypervisor with two IPoIB adapters when the OpenSM was not running.
	Keywords: SR-IOV
	Discovered in Release: 5.10
	Fixed in Release: 5.22



Table 1 - Archived Bug Fixes

Internal Ref.	Issue
623391	Description: Fixed wrong packets handling when the number of fragments equals the maximum allowed which resulted in a crash when the fragments array was higher then the allowed value.
	Keywords: Ethernet, IPoIB
	Discovered in Release: 5.10
	Fixed in Release: 5.22
623175	Description: Fixed an OpenSM issue which caused the driver to crash.
	Keywords: InfiniBand
	Discovered in Release: 5.10
	Fixed in Release: 5.22
611718	Description: Fixed an issue which caused the drivers to not work properly or crash as a result of setting values lower than the their default value.
	Keywords: General
	Discovered in Release:
	Fixed in Release: 5.22
550545	Description: Fixed an issue causing memory leakage when uninstalling the PF driver when vSwitch is connected to the device.
	Keywords: SR-IOV
	Discovered in Release:
	Fixed in Release: 5.22
587553	Description: Fixed a performance tuning issue when using the "Performance" tab in the Advanced property page. Performance tuning did not work as expected on certain systems that have processor groups enabled. Users saw unexpected RSS CPU's assigned.
	Now the following event log can be seen in logs: "Detected issues with Processor groups on the system that may cause performance degradation. Disable processor groups for best results."
	Keywords: Performance
	Discovered in Release: 4.95
	Fixed in Release: 5.22



Table 1 - Archived Bug Fixes

Internal Ref.	Issue
443600	Description: Fixed an issue where NDv2 adapter query reported MaxInlineData-Size as zero regardless of the device's capability.
	Keywords: RDMA
	Discovered in Release: 4.90
	Fixed in Release: 5.22
653552	Description: Fixed synchronization issue between NDK OIDs and driver's halt command. The driver started unloading before all the NDK OIDs were completed causing unexpected behavior in the system.
	Keywords: NDK
	Discovered in Release: 4.95
	Fixed in Release: 5.22
639974	Description: Fixed an issue that caused the system to hang when the driver failed to allocate contiguous memory on driver load.
	Keywords: General
	Discovered in Release: 5.10
	Fixed in Release: 5.22
550471	Description: Fixed wrong MAC creation from GUIDs that start with E4 D1 D2. In addition to applying the GUIDMask, the bug used to alternate the first byte of the created MAC. This alternation may have caused problems in communication with DHCP for IP address acquiring.
	Keywords: General
	Discovered in Release: 5.10
	Fixed in Release: 5.22
618647	Description: Fixed an issue where the ND applications provided with the driver package would fail to run when running on a server with WinOF-2 driver package installed.
	Keywords: RDMA
	Discovered in Release: 5.10
	Fixed in Release: 5.22
649996	Description: Fixed a rare issue where system would crash when miniport driver is reset.
	Keywords: Ethernet
	Discovered in Release: 5.10
	Fixed in Release: 5.22



Table 1 - Archived Bug Fixes

Internal Ref.	Issue
669610	Description: Fixed an issue where driver could falsely indicate that the device is stuck in extreme CPU load conditions.
	Keywords: Ethernet
	Discovered in Release: 5.10
	Fixed in Release: 5.22
651029	Description: Fixed the issue of VF miniport reset that used to be caused by OID-timeout of OID_GEN_CURRENT_PACKET_FILTER.
	Keywords: Ethernet
	Discovered in Release: 5.10
	Fixed in Release: 5.22
665229	Description: Fixed RSS functionality in VM guests with SR-IOV enabled and VMs running in VMQ mode with SR-IOV enabled on host. This used to result in poor performance.
	Keywords: Ethernet
	Discovered in Release: 5.10
	Fixed in Release: 5.22
668295	Description: Fixed the issue where encapsulation settings (NVGRE+VLXAN) were not restored after reset.
	Keywords: Encapsulation
	Discovered in Release: 5.10
	Fixed in Release: 5.22
607939	Description: Fixed possible system crash when upgrading from v5.00 to a newer version.
	Keywords: WPP
	Discovered in Release: 5.10
	Fixed in Release: 5.22
623187	Description: Fixed a race between VMQ and pkey table initialization. This issue may have occurred on a setup on which a V-Switch is defined on a virtual interface (created via the part_man tool) with a non default pkey.
	Keywords: InfiniBand
	Discovered in Release: 5.10
	Fixed in Release: 5.22



Table 1 - Archived Bug Fixes

Internal Ref.	Issue
625294	Description: Fixed the issue where it was possible to install the Microsoft Azure 2012R2 package on older Operating Systems.
	Keywords: Installation
	Discovered in Release: 5.10
	Fixed in Release: 5.22
666988	Description: Fixed a mismatch in the way the performance tuning and IPoIB create a MAC from a device GUID. This mismatch may have caused the performance tuning to fail finding the correct MAC for GUIDs that do not start with 0002c9, which used to result in a failure to choose the best NUMA for them.
	Keywords: IPoIB
	Discovered in Release: 5.10
	Fixed in Release: 5.22
657047	Description: Fixed an error which could cause a freeze of the drivers in the startup in a VM with several VFs.
	Keywords: SR-IOV
	Discovered in Release: 5.10
	Fixed in Release: 5.22
678607	Description: Fixed the issue where deleting a team that has VLANs attached to it would fail on Windows 10 Operating System.
	Keywords: Teaming
	Discovered in Release: 5.10
	Fixed in Release: 5.22
687332	Description: Fixed the issue where if the driver fails to allocate contiguous memory on driver load, the system could crash.
	Keywords: General
	Discovered in Release: 5.00
	Fixed in Release: 5.02
744273	Description: Fixed wrong MAC creation from GUIDs that start with E4 D1 D2. In addition to applying the GuidMask, the bug used to alternate the first byte of the created MAC. This alternation may have caused problems in communication with DHCP for IP address acquiring.
	Keywords: General
	Discovered in Release: 5.00
	Fixed in Release: 5.02

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Table 1 - Archived Bug Fixes

Internal Ref.	Issue
743744	Description: Fixed the issue of when setting values lower than the default value, the driver did not function properly.
	Keywords: General
	Discovered in Release: 5.00
	Fixed in Release: 5.02
733431	Description: Fixed an issue that used to cause a BSOD (BUG Check 0xA) after driver tear down.
	Keywords: General
	Discovered in Release: 5.00
	Fixed in Release: 5.02
753462	Description: Fixed the issue where the registry key that enables/disables SR-IOV was not removed during uninstallation.
	Keywords: General
	Discovered in Release: 5.00
	Fixed in Release: 5.02
739505	Description: Fixed an issue where the snapshot tool did not work in CLI.
	Keywords: General
	Discovered in Release: 5.00
	Fixed in Release: 5.02
687327	Description: Fixed a rare issue where system would crash when miniport driver is reset.
	Keywords: Ethernet
	Discovered in Release: 5.00
	Fixed in Release: 5.02
693056	Description: Fixed RSS functionality in VM guests with SR-IOV enabled and VMs running in VMQ mode with SR-IOV enabled on host. This used to result in poor performance.
	Keywords: Ethernet
	Discovered in Release: 5.00
	Fixed in Release: 5.02



Table 1 - Archived Bug Fixes

Internal Ref.	Issue
744269	Description: Fixed wrong packets handling when the number of fragments was equal to the maximum number allowed. This issue may have caused a crash if the fragments array was filled outside its boundaries.
	Keywords: Ethernet
	Discovered in Release: 5.00
	Fixed in Release: 5.02
744263	Description: Fixed an issue where driver could falsely indicate that the device is stuck in extreme CPU load conditions.
	Keywords: Ethernet
	Discovered in Release: 5.00
	Fixed in Release: 5.02
695149	Description: Fixed the issue where Ethernet interface load in VM was prevented when running on Hyper visor in SR-IOV mode with more than 5 VFs.
	Keywords: SR-IOV
	Discovered in Release: 5.00
	Fixed in Release: 5.02
687331	Description: Fixed the event viewer-log message in case PCI does not support SR-IOV. The previous misleading message about FW version is now changed to: "SRIOV can't be enabled due to error on PCI virtualization. Possible reason - the machine is not supporting SRIOV."
	Keywords: SR-IOV
	Discovered in Release: 5.00
	Fixed in Release: 5.02
691450	Description: Fixed the issue of when a machine has more than one Mellanox network port (whether a single physical card with multiple network ports or multiple single-port cards) with some configured with SR-IOV enabled and some with SR-IOV disabled may result in a Blue Screen of Death (BSOD) 0x1E (KMODE_EXCEPTION_NOT_HANDLED).
	Keywords: SR-IOV
	Discovered in Release: 5.00
	Fixed in Release: 5.02
-	Description: Fixed some SR-IOV stability issues.
	Keywords: SR-IOV
	Discovered in Release: 5.00
	Fixed in Release: 5.02



Table 1 - Archived Bug Fixes

Internal Ref.	Issue
695034	Description: Fixed an issue that used to cause a BSOD upon a bus driver restart in VM. The BSOD can happen only in a race condition, where the driver receives an event on one processor, and is simultaneously unloaded on another processor.
	Keywords: SR-IOV
	Discovered in Release: 5.00
	Fixed in Release: 5.02
749572	Description: Fixed the issue where FW used to read invalid WQE while QP is in a retransmission state. Vendor specific syndrome is now returned upon WQE completion.
	Keywords: SR-IOV
	Discovered in Release: 5.00
	Fixed in Release: 5.02
740728	Description: Fixed potential resource leakage in SR-IOV error handling scenario which could cause VF tear-down failure.
	Keywords: SR-IOV
	Discovered in Release: 5.00
	Fixed in Release: 5.02
686813	Description: Fixed a BSOD issue that could occur when a VF call fails and reset is initiated.
	Keywords: SR-IOV
	Discovered in Release: 5.00
	Fixed in Release: 5.02
741829	Description: Fixed the issue where VMQoS was not supported on a non-default VPort, which used to cause the driver to not function properly.
	Keywords: SR-IOV
	Discovered in Release: 5.00
	Fixed in Release: 5.02
687321	Description: Fixed the issue where encapsulation settings (NVGRE+VLXAN) were not restored after reset.
	Keywords: NVGRE
	Discovered in Release: 5.00
	Fixed in Release: 5.02



Table 1 - Archived Bug Fixes

Internal Ref.	Issue
697649	Description: Fixed the issue where BSOD 0xc2 (BAD_POOL_CALLER) would appear as a result of a race between two ND processes that try to bind to an adapter at the same time.
	Keywords: ND
	Discovered in Release: 5.00
	Fixed in Release: 5.02
700112	Description: Fixed a BSOD (WDF_VIOLATION (10d)) that could happen when a Network Direct application terminates without explicitly releasing all ND resources (for example, when a process is killed).
	Keywords: ND
	Discovered in Release: 5.00
	Fixed in Release: 5.02
743625	Description: Fixed a BSOD issue caused by calling NDK_FN_DISCONNECT on a disconnected NDK_CONNECTOR.
	Keywords: NDK
	Discovered in Release: 5.00
	Fixed in Release: 5.02
690204	Description: Fixed the issue where if working in VMQ mode and reset is performed in the middle of adding a new Receive Queue, packets are no longer received.
	Keywords: VMQ
	Discovered in Release: 5.00
	Fixed in Release: 5.02
736696	 Description: Fixed handling of the following incorrect VMQoS OID requests: Create or delete the default SQ Update of a non-existing Vport Update QoS parameters for a PF's Vport
	Keywords: Virtualization
	Discovered in Release: 5.00
	Fixed in Release: 5.02
746182	Description: Fixed the issue where enabling VXLAN offload caused RX traffic to be received on a wrong VMQ.
	Keywords: Virtualization
	Discovered in Release: 5.00
	Fixed in Release: 5.02



Table 1 - Archived Bug Fixes

Internal Ref.	Issue
746046	Description: Fixed an issue where VMQoS settings were not restored upon Miniport Reset.
	Keywords: Virtualization
	Discovered in Release: 5.00
	Fixed in Release: 5.02
764185	Description: Fixed an issue where following the initialization of VMQs/PF VPorts, high bursts of traffic may result in a BSOD due to a race condition in filling of the receive buffer rings for the first time. This issue occurs due to an illegal memory reference by a prefetching mechanism during receive completion processing.
	Keywords: Virtualization
	Discovered in Release: 5.00
	Fixed in Release: 5.02
744272	Description: Fixed a race between VMQ and Pkey table initialization. This issue may have occurred on a setup on which a VSwitch was defined on a virtual interface (created via the part_man tool) with a non-default Pkey.
	Keywords: InfiniBand
	Discovered in Release: 5.00
	Fixed in Release: 5.02
748549	Description: Fixed the issue where releasing a mad twice could lead to a crash. The issue could happen when running ibdiagnet on a server running on OpenSM.
	Keywords: InfiniBand
	Discovered in Release: 5.00
	Fixed in Release: 5.02
743740	Description: Fixed the issue where TTL settings for RDMA traffic could not be changed. Settings are now defined as follows: 1. First the driver will look for a private parameter in the following path: ibbus\parameters\DefaultTTL; b. If the parameter does not exist, the driver will look for it in the following path: TCP/IP configuration (tcpip\parameters\DefaultTTL); c. If the parameter is still not found, it will use TCP/IP default of 128.
	Keywords: RDMA
	Discovered in Release: 5.00
	Fixed in Release: 5.02



Table 1 - Archived Bug Fixes

Internal Ref.	Issue
742102	Description: Fixed the issue where transmission scheduling of CM packets over RoCE was not done according to the Priority/DSCP value in the packet header. This could lead to packet drops on the connected switch due to buffer overrun.
	Keywords: RDMA
	Discovered in Release: 5.00
	Fixed in Release: 5.02
739312	Description: Fixed the issue of when having dual-port cards, and one of the ports is configured for PFC and the other is not, Perfmon would not expose the number of PFC pause counters.
	Keywords: Performance
	Discovered in Release: 5.00
	Fixed in Release: 5.02
-	Description: Fixed the issue where loopback did not work (there was no traffic between VMs on the same host).
	Keywords: Endure
	Discovered in Release: 5.00
	Fixed in Release: 5.02
-	Description: Fixed some issues with MAC registration and deregistration.
	Keywords: Endure
	Discovered in Release: 5.00
	Fixed in Release: 5.02