



## Bug Fixes History

This table lists the bugs fixed in the last three major GA releases. For a list of old bug fixes, please refer to the release notes of the desired version.

Internal Reference Number	Description
3663363	<b>Description:</b> Fixed an issue where an error was triggered in case devlink reload was attempted when there were allocated subfunctions.
	<b>Keywords:</b> devlink reload, allocated subfunctions
	<b>Discovered in Release:</b> 23.10-0.5.5.0
	<b>Fixed in Release:</b> 23.10-1.1.9.0
3660998	<b>Description:</b> Resolved an issue on ConnectX-4 Lx, where the VF state was not configured correctly following the activation of SR-IOV.
	<b>Keywords:</b> ConnectX-4 Lx, VF state
	<b>Discovered in Release:</b> 23.10-0.5.5.0
	<b>Fixed in Release:</b> 23.10-1.1.9.0
3653417	<b>Description:</b> Fixed an issue where changing the steering mode to firmware steering was unsupported for policy IPsec rules.
	<b>Keywords:</b> Firmware steering
	<b>Discovered in Release:</b> 23.10-0.5.5.0
	<b>Fixed in Release:</b> 23.10-1.1.9.0

Internal Reference Number	Description
3602955	<b>Description:</b> Fixed an issue that occurred when a VF was set to get allmulti traffic. The issue caused the steering rules to send the multicast traffic received by the NIC back to the uplink.
	<b>Keywords:</b> VF, allmulti traffic

Internal Reference Number	Description
	<b>Discovered in Release:</b> 23.07-0.5.0.0
	<b>Fixed in Release:</b> 23.10-0.5.5.0
3553766	<b>Description:</b> Fixed an issue where the enable_remote_dev_reset Devlink parameter was not supported on kernel versions below v5.10.
	<b>Keywords:</b> Devlink parameter
	<b>Discovered in Release:</b> 23.07-0.5.0.0
	<b>Fixed in Release:</b> 23.10-0.5.5.0
3546694	<b>Description:</b> Fixed an issue where MAC address configuration for PFs could fail if SR-IOV was enabled at the same time.
	<b>Keywords:</b> PF, MAC address, SR-IOV
	<b>Discovered in Release:</b> 23.07-0.5.0.0
	<b>Fixed in Release:</b> 23.10-0.5.5.0
3538018	<b>Description:</b> Fixed an issue where firmware sync reset (with the 'mlx5fwreset -d <device> -l 3 r --sync 1' command) could fail on a system configured for hotplug on the PCIe slot on which the mlx5 card was mounted.
	<b>Keywords:</b> Firmware sync reset, mlx5 card
	<b>Discovered in Release:</b> 23.07-0.5.0.0
	<b>Fixed in Release:</b> 23.10-0.5.5.0
3587834	<b>Description:</b> Fixed an issue where the enable_remote_dev_reset Devlink parameter was not supported on kernel versions below v5.10.
	<b>Keywords:</b> Devlink parameter
	<b>Discovered in Release:</b> 23.07-0.5.0.0
	<b>Fixed in Release:</b> 23.10-0.5.5.0
3576351	<b>Description:</b> Resolved a warning that was triggered when starting the openibd service, which pertained to an unidentified 'ExecRestart' value within the 'Service' section.

Internal Reference Number	Description
	<p><b>Keywords:</b> openibd, warning</p> <p><b>Discovered in Release:</b> 23.07-0.5.0.0</p> <p><b>Fixed in Release:</b> 23.10-0.5.5.0</p>
3557482	<p><b>Description:</b> Fixed an issue where the 'mlnx_tune -l' list of supported operating systems did not include several operating systems that were actually supported, such as RHEL8.6 and Ubuntu 22.04.</p> <p><b>Keywords:</b> mlnx_tune -l</p> <p><b>Discovered in Release:</b> 23.07-0.5.0.0</p> <p><b>Fixed in Release:</b> 23.10-0.5.5.0</p>
3549684	<p><b>Description:</b> Fixed a signature-related issue that occurred when installing DOCA on SLES15SP4 using the repository.</p> <p><b>Keywords:</b> DOCA, SLES15SP4</p> <p><b>Discovered in Release:</b> 23.07-0.5.0.0</p> <p><b>Fixed in Release:</b> 23.10-0.5.5.0</p>
3380263	<p><b>Description:</b> Fixed an issue where users who attempted to use OFED with Device ID NVD0000000033, had to install the firmware manually.</p> <p><b>Keywords:</b> Device ID NVD0000000033</p> <p><b>Discovered in Release:</b> 23.07-0.5.0.0</p> <p><b>Fixed in Release:</b> 23.10-0.5.5.0</p>
3228788	<p><b>Description:</b> Fixed an issue where running rx-tls-offload over Korg6.0 as its TLS module did not work properly.</p> <p><b>Keywords:</b> NetDev, TLS</p> <p><b>Discovered in Release:</b> 23.07-0.5.0.0</p> <p><b>Fixed in Release:</b> 23.10-0.5.5.0</p>

Internal Reference Number	Description
3546304	<b>Description:</b> Resolved the kernel crash resulting from sysfs calls to profiles lacking TC (Traffic Control) support.
	<b>Keywords:</b> sysfs calls, Traffic Control
	<b>Discovered in Release:</b> 23.04-0.5.3.3
	<b>Fixed in Release:</b> 23.07-0.5.0.0
3531986	<b>Description:</b> Fixed an issue that prevented OS booting following an installation of the EN and RoCE drivers.
	<b>Keywords:</b> OS booting, EN, RoCE
	<b>Discovered in Release:</b> 23.04-0.5.3.3
	<b>Fixed in Release:</b> 23.07-0.5.0.0
3489233	<b>Description:</b> Fixed an issue in SLES 15 SP4 where the openibd service failed to start automatically after system boot.
	<b>Keywords:</b> SLES 15 SP4,openibd, system boot
	<b>Discovered in Release:</b> 23.04-0.5.3.3
	<b>Fixed in Release:</b> 23.07-0.5.0.0
3431430	<b>Description:</b> Fixed an issue that prevented the installation of OFED on RHEL systems using a non-default Python version.
	<b>Keywords:</b> Installation, RHEL, Python
	<b>Discovered in Release:</b> 5.9-0.5.6
	<b>Fixed in Release:</b> 23.07-0.5.0.0
3422823	<b>Description:</b> Fixed an OFED installation issue on BCLinux 21.10 that occurred when using the "--add-kernel-support" installation flag.
	<b>Keywords:</b> Installation, BCLinux 21.10, "--add-kernel-support"
	<b>Discovered in Release:</b> 5.9-0.5.6
	<b>Fixed in Release:</b> 23.07-0.5.0.0
3264588	<b>Description:</b> Resolved a problem where the system boot process would hang when more than two Network Interface Cards were

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	installed.
	<b>Keywords:</b> System boot, Network Interface Cards
	<b>Discovered in Release:</b> <a href="#">5.7-1.0.2.0</a>
	<b>Fixed in Release:</b> 23.07-0.5.0.0
3499136	<b>Description:</b> Fixed an issue where the sysfs PHY counters displayed outdated information.
	<b>Keywords:</b> sysfs PHY counters
	<b>Discovered in Release:</b> 23.04
	<b>Fixed in Release:</b> 23.07-0.5.0.0

Internal Reference Number	Description
2883451	<b>Description:</b> Installing mlnx_tune on Python3 did not work properly. mlnx_tune now supports Python3 in addition to Python2.
	<b>Keywords:</b> Installation, mlnx_tune, Python3
	<b>Discovered in Release:</b> 5.5-1.0.3.2
	<b>Fixed in Release:</b> 23.04-0.5.3.3
3219842	<b>Description:</b> When creating a bond interface for all ports on a ConnectX-7 4-port HCA, the wrong bond name appeared in ibdev2netdev.
	<b>Keywords:</b> RDMA, Bond Name, ibdev2netdev, ConnectX-7
	<b>Discovered in Release:</b> 5.8- 1.0.1.1
	<b>Fixed in Release:</b> 23.04-0.5.3.3
3333919	<b>Description:</b> Changing traffic class via the sysfs while modifying QPs in parallel causes a deadlock.
	<b>Keywords:</b> RDMA, TC, Sysfs, QP

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	<b>Discovered in Release:</b> 5.0-2.1.8.0
	<b>Fixed in Release:</b> 23.04-0.5.3.3
3406019	<b>Description:</b> Due to a bug in the emulation layer, performance degradation might be experienced when running GPUDirect over Virtual Functions.
	<b>Keywords:</b> RDMA, GPUDirect, performance, VF
	<b>Discovered in Release:</b> 5.9-0.5.6.0
	<b>Fixed in Release:</b> 23.04-0.5.3.3
3233799	<b>Description:</b> debugfs directories cannot be created for representors and sub-functions, thus the log might show error warning for either of the scenarios.
	<b>Keywords:</b> NetDev, debugfs, SF, logging
	<b>Discovered in Release:</b> 5.8- 1.0.1.1
	<b>Fixed in Release:</b> 23.04-0.5.3.3
1892663/18006 33/2883451	<b>Description:</b> mlnx_tune script does not support Python3 interpreter.
	<b>Keywords:</b> mlnx_tune, Python3
	<b>Discovered in Release:</b> 4.7-1.0.0.1
	<b>Fixed in Release:</b> 23.04-0.5.3.3
3340542	<b>Description:</b> The version number for perftest was not-standard resulting in some distribution packages receiving a higher version number than the OFED version for no good reason. Changed the naming of perftest to MAJOR.MINOR.PATCH.
	<b>Keywords:</b> Installation, perftest
	<b>Fixed in Release:</b> 23.04-0.5.3.3
3428775	<b>Description:</b> knem did not fully support RHEL8.7 and newer releases.
	<b>Keywords:</b> Installation, knem, RHEL
	<b>Discovered in Release:</b> 5.8- 1.0.1.1

Internal Reference Number	Description
	<b>Fixed in Release:</b> 23.04-0.5.3.3
3431430	<b>Description:</b> Installing MLNX_OFED on a RHEL system that uses a non-default version of Python (e.g., Python3.9 on RHEL8.6, where the default is 3.6) may fail with an error that mlnx-tools is missing a dependency on 'python(abi)'. mlnx-tools includes a single script, mlnx_qos, that depends on a specific version of python. In such a case, after the fix, it may fail to run with such a non-standard version of Python.
	<b>Keywords:</b> Installation, Python, RHEL, mlnx-tools
	<b>Discovered in Release:</b> 5.9-0.5.6.0
	<b>Fixed in Release:</b> 23.04-0.5.3.3

Internal Reference Number	Description
3247519	<b>Description:</b> On an Ubuntu 22.04 system, when installing using the apt install method to install MLNX_OFED including Open vSwitch, and if the distribution Open vSwitch package was previously installed, the install may fail because of a left-over systemd generated file: the symbolic link /etc/systemd/system/openswitch-switch.service.requires/ovs-record-hostname.service -> /lib/systemd/system/ovs-record-hostname.service .
	<b>Keywords:</b> Installation, Ubuntu 22.04, Open vSwitch
	<b>Discovered in Release:</b> 5.8- 1.0.1.1
	<b>Fixed in Release:</b> 5.9-0.5.6.0
3296578	<b>Description:</b> Dapltest on RHEL9.x (ppc64le) could fail to run with a segmentation fault.
	<b>Keywords:</b> Installation, RHEL9.x, Dapltest
	<b>Discovered in Release:</b> 5.7-1.0.2.0



Internal Reference Number	Description
	<b>Fixed in Release:</b> 5.9-0.5.6.0
3261289	<b>Description:</b> The host driver probe does not check whether there are existing SFs which are present in the device. As such, the host driver did not re-create those SFs.
	<b>Keywords:</b> Core, Scalable Functions
	<b>Fixed in Release:</b> 5.9-0.5.6.0
3228719	<b>Description:</b> If there are multiple encapsulations and not all neighbors are valid, the kernel will go into panic mode.
	<b>Keywords:</b> ASAP <sup>2</sup> , Kernel Panic
	<b>Discovered in Release:</b> 5.7-1.0.2.0
	<b>Fixed in Release:</b> 5.9-0.5.6.0
2946873	<b>Description:</b> Moving to switchdev mode while deleting namespace may cause a deadlock.
	<b>Keywords:</b> ASAP <sup>2</sup> , Switchdev, Namespace
	<b>Discovered in Release:</b> 5.6-1.0.3.3
	<b>Fixed in Release:</b> 5.9-0.5.6.0
3239291	<b>Description:</b> In some topologies, like logical partitions, mlxfwreset is not supported.
	<b>Keywords:</b> Core, mlxfwreset
	<b>Discovered in Release:</b> 5.8- 1.0.1.1
	<b>Fixed in Release:</b> 5.9-0.5.6.0
3220855	<b>Description:</b> Creating external SFs on BF ARM when the host (x86) operating system does not support SFs may cause the host to crash.
	<b>Keywords:</b> Core, Scalable Functions
	<b>Discovered in Release:</b> 5.8- 1.0.1.1
	<b>Fixed in Release:</b> 5.9-0.5.6.0

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3253500	<b>Description:</b> The redundant freeing of a list item could lead to memory corruption, potentially causing the application to crash or incorrect traffic handling.
	<b>Keywords:</b> Steering, Memory Corruption, List, Pattern/Argument
	<b>Fixed in Release:</b> 5.8- 1.1.2.1
3214161	<b>Description:</b> The knem-dkms package explicitly requires GCC to build the knem driver (at install times). Under some circumstances, on Debian systems, the apt install method may result in a system that has only gcc-<version> (e.g., gcc-10) installed.
	<b>Keywords:</b> Installation, Debian, GCC
	<b>Fixed in Release:</b> 5.8- 1.1.2.1
3230613	<b>Description:</b> Installing MLNX_OFED_LINUX on an Ubuntu system with CUDA (version < 11.6) may result in an automatic installation of the ucx-cuda package that will fail with an error message in the log file ucx-cuda.debinstall.log about missing dependencies.
	<b>Keywords:</b> Installation, Ubuntu, CUDA
	<b>Fixed in Release:</b> 5.8- 1.1.2.1
3235521	<b>Description:</b> The host driver probe did not check whether there are existing SFs which are present in the device, causing the host driver to not recreate those SFs.
	<b>Keywords:</b> Core, Scalable Functions
	<b>Fixed in Release:</b> 5.8- 1.1.2.1
3228357	<b>Description:</b> If there are multiple encapsulations and not all neighbors are valid, the kernel will go into panic mode.
	<b>Keywords:</b> ASAP <sup>2</sup> , Encapsulation
	<b>Discovered in Release:</b> 5.5-1.0.3.2, 5.7-1.0.2.0
	<b>Fixed in Release:</b> 5.8- 1.1.2.1
3232445	<b>Description:</b> When using BlueField with old kernels, multiple OVS meter do not work.

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	<b>Keywords:</b> ASAP <sup>2</sup> , BlueField, Meter, OVS, Offload
	<b>Fixed in Release:</b> 5.8- 1.1.2.1

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3234066	<p><b>Description:</b> When configuring IPsec full offload, after sending traffic for approximately 30 minutes, the traffic stops at some point and the connection gets lost.</p> <p><b>Keywords:</b> Steering, SMFS, Matcher Disconnect</p> <p><b>Fixed in Release:</b> 5.8- 1.0.1.1</p>
3179535	<p><b>Description:</b> SMFS will try to merge flow rules with the same matching criteria (as they share the same matcher) into one multi-destination rule. If merging fails, the matcher is disconnected by mistake.</p> <p><b>Keywords:</b> Steering, SMFS, Matcher Disconnect</p> <p><b>Fixed in Release:</b> 5.8- 1.0.1.1</p>
3214198	<p><b>Description:</b> ibv_reg_mr for huge pages was optimized in kernel &gt;= 5.12</p> <p><b>Keywords:</b> RDMA, ibv_reg_mr</p> <p><b>Discovered in Release:</b> 5.7-1.0.2.0</p> <p><b>Fixed in Release:</b> 5.8- 1.0.1.1</p>
2984134	<p><b>Description:</b> Moving to SwitchDev mode while deleting namespace over Linux-6.0 can sometimes cause a deadlock.</p> <p><b>Keywords:</b> RDMA, SwitchDev</p> <p><b>Discovered in Release:</b> 5.5-1.0.3.2</p> <p><b>Fixed in Release:</b> 5.8- 1.0.1.1</p>
3106228	<p><b>Description:</b> A net device validation issue prevented running IPv6 traffic using an RDMA communication manager between two interfaces on same host with same subnet.</p>

Internal Reference Number	Description
	<b>Keywords:</b> RDMA, IPv6, Communication Manager
	<b>Discovered in Release:</b> 5.6-1.0.3.3
	<b>Fixed in Release:</b> 5.8- 1.0.1.1
3151843	<b>Description:</b> In mlx5dv_mkey_check manpage, there is an inaccurate description of signature error handling flow.
	<b>Keywords:</b> RDMA, manpage
	<b>Discovered in Release:</b> 5.7-1.0.2.0
	<b>Fixed in Release:</b> 5.8- 1.0.1.1
3229002	<b>Description:</b> Creating and deleting MRs, caused a kernel slab cache leak issue.
	<b>Keywords:</b> RDMA, Cache
	<b>Discovered in Release:</b> 5.7-1.0.2.0
	<b>Fixed in Release:</b> 5.8- 1.0.1.1
3236217	<b>Description:</b> The rdma res show cm_id command does not list all cm_ids when some of them are in LISTEN state.
	<b>Keywords:</b> RDMA, cm_ids
	<b>Discovered in Release:</b> 5.0-1.0.0.0
	<b>Fixed in Release:</b> 5.8- 1.0.1.1
3146128	<b>Description:</b> In older kernel version, PTP was not supported over VLAN interfaces.
	<b>Keywords:</b> NetDev, PTP, VLAN
	<b>Discovered in Release:</b> 5.7-1.0.2.0
	<b>Fixed in Release:</b> 5.8- 1.0.1.1
2969772	<b>Description:</b> HW-GRO feature was blocked due to firmware limitations.
	<b>Keywords:</b> NetDev, HW-GRO
	<b>Discovered in Release:</b> 5.6-1.0.3.3

Internal Reference Number	Description
	<b>Fixed in Release:</b> 5.8- 1.0.1.1
3096393	<b>Description:</b> STP packets failed to be transmitted.
	<b>Keywords:</b> NetDev, STP
	<b>Discovered in Release:</b> 5.5-1.0.3.2
	<b>Fixed in Release:</b> 5.8- 1.0.1.1
3236984	<b>Description:</b> When using sysfs to read the hash function used to distribute the traffic between the T I R s ( Transport Interface Receive) , on occasion, the server crashed.
	<b>Keywords:</b> NetDev, sysfs
	<b>Discovered in Release:</b> 5.7-1.0.2.0
	<b>Fixed in Release:</b> 5.8- 1.0.1.1
3126000	<b>Description:</b> Upgrading from version 5.6-2 to 5.7 failed.
	<b>Keywords:</b> Installation
	<b>Discovered in Release:</b> 5.6-2.0.9.0
	<b>Fixed in Release:</b> 5.8- 1.0.1.1
3230524	<b>Description:</b> Building with KMP enabled fails due to missing packages. OFED packages will now be built with KMP disabled.
	<b>Keywords:</b> Installation, KMP
	<b>Fixed in Release:</b> 5.8- 1.0.1.1
3158725	<b>Description:</b> The script <a href="#">install.pl</a> , used for (re)building kernel modules, used the name "kernel-source" as the package of the kernel-source on SLES systems.
	<b>Keywords:</b> Installation, SLES
	<b>Discovered in Release:</b> 5.6-1.0.3.3
	<b>Fixed in Release:</b> 5.8- 1.0.1.1
3142212	<b>Description:</b> Starting firmware version xx.34.0350, a new NVCONFIG has been added to the ARM side only: MANAGEMENT_PF_MODE.

Internal Reference Number	Description
	<p>If this config is on, the user will see a PCI Function (PF) which failed to probe:</p> <pre data-bbox="337 394 1463 982"> [ 6.837102] mlx5_core 0000:03:00.2: mlx5_cmd_check:756:(pid 206): ENABLE_HCA(0x104) op_mod(0x0) failed, status bad parameter(0x3), syndrome (0x6ca1f5) [ 6.864227] mlx5_core 0000:03:00.2: mlx5_peer_pf_init:40:(pid 206): Failed to enable peer PF HCA err(-22) [ 6.883453] mlx5_core 0000:03:00.2: mlx5_load:1129:(pid 206): Failed to init embedded CPU [ 8.261268] mlx5_core 0000:03:00.2: init_one:1365:(pid 206): mlx5_load_one failed with error code -22  [ 8.280056] mlx5_core: probe of 0000:03:00.2 failed with error -22 </pre> <p><b>Keywords:</b> Installation</p> <p><b>Discovered in Release:</b> 5.7-1.0.2.0</p> <p><b>Fixed in Release:</b> 5.8- 1.0.1.1</p>
3174928	<p><b>Description:</b> Using a 1-CPU system casues possible command flush deadlock.</p> <p><b>Keywords:</b> Core</p> <p><b>Discovered in Release:</b> 5.6-1.0.3.3</p> <p><b>Fixed in Release:</b> 5.8- 1.0.1.1</p>
3228721/ 3228357	<p><b>Description:</b> An incorrect termination table was used with the uplink-to-uplink forward rule.</p> <p><b>Keywords:</b> ASAP<sup>2</sup>, eSwitch</p> <p><b>Discovered in Release:</b> 5.7-1.0.2.0</p> <p><b>Fixed in Release:</b> 5.8- 1.0.1.1</p>
3220120	<p><b>Description:</b> In old kernels, when a VXLAN tunnel is set up on one OVS bridge and PF is up on another OVS bridge, traffic does not offload as</p>

Internal Reference Number	Description
	expected.
	<b>Keywords:</b> ASAP <sup>2</sup> , VXLAN
	<b>Discovered in Release:</b> 5.4-3.0.3.0
	<b>Fixed in Release:</b> 5.8- 1.0.1.1

Internal Reference Number	Description
3032335	<p><b>Description:</b> Creating multiple steering rules that modify a packet and match on the same packet headers can cause an error to be displayed in dmesg when deleting the steering rules.</p> <p><b>Keywords:</b> Steering Rules</p> <p><b>Fixed in Release:</b> 5.7-1.0.2.0</p>
3011368	<p><b>Description:</b> Some IB spec QP state behaviour on post_send()/recv() is not being fully enforced. The fix makes the QP complaint to IB spec about when it is allowed to post_send()/recv() and when it should return an error.</p> <p><b>Keywords:</b> RDMA, IB spec QP</p> <p><b>Fixed in Release:</b> 5.7-1.0.2.0</p>
3075125	<p><b>Description:</b> When changing trust state from PCP to DSCP, the TC number changes by default to 8, in some cases, disrupting traffic prioritization if trust state is changed back to PCP.</p> <p><b>Keywords:</b> NetDev, QoS</p> <p><b>Discovered in Release:</b> 5.4-1.0.3.0</p> <p><b>Fixed in Release:</b> 5.7-1.0.2.0</p>

Internal Reference Number	Description
3054413	<b>Description:</b> In the current release, the following OPNs/PSIDs should be manually upgraded: MCX753106AS-HEA-N NVD0000000023 MCX75310AAS-HEA-N NVD0000000024
	<b>Keywords:</b> ConnectX-7, Upgrade
	<b>Discovered in Release:</b> 5.6-1.0.3.3
	<b>Fixed in Release:</b> 5.7-1.0.2.0
3070653	<b>Description:</b> In versions of MLNX_OFED before 5.7, the xpmem kernel module was not signed. When it was installed on systems (mostly RHEL and other compatible systems) the following error message would appear: "xpmem: loading out-of-tree module taints kernel."
	<b>Keywords:</b> Installation, xpmem
	<b>Discovered in Release:</b> 5.6-1.0.3.3
	<b>Fixed in Release:</b> 5.7-1.0.2.0
3075357	<b>Description:</b> In Debian-based distributions, in /etc/init.d/openibd, the path to enable the firmware tracer is /sys/kernel/debug/tracing/events/mlx5/fw_tracer/enable instead of /sys/kernel/debug/tracing/events/mlx5/mlx5_fw/enable . As a result, firmware tracer will never get enabled even when supported.
	<b>Keywords:</b> Installation, Kernel Trace Debug
	<b>Discovered in Release:</b> 5.6-1.0.3.3
	<b>Fixed in Release:</b> 5.7-1.0.2.0
2688191	<b>Description:</b> The minimum Tx rate limit is not supported with link speed of 1Gb/s.
	<b>Keywords:</b> Rate Limit, 1Gb/s
	<b>Discovered in Release:</b> 5.6-1.0.3.3
	<b>Fixed in Release:</b> 5.7-1.0.2.0
3044255	<b>Description:</b> Destroying mlxdevm group while SF is attached to it is not supported.



Internal Reference Number	Description	
	<b>Keywords:</b> ASAP <sup>2</sup> , mlxdevm, QoS, Group, Scalable Functions	
	<b>Discovered in Release:</b> 5.6-1.0.3.3	
	<b>Fixed in Release:</b> 5.7-1.0.2.0	
3047142	<b>Description:</b> Using OVS offload with NIC mode (non switchdev mode) causes traffic to drop.	
	<b>Keywords:</b> ASAP <sup>2</sup> , Offload, NIC Mode, OVS	
	<b>Discovered in Release:</b> 5.6-1.0.3.3	
	<b>Fixed in Release:</b> 5.7-1.0.2.0	
	3123986	<b>Description:</b> In some cases VF metering configuration failure caused a deadlock.
		<b>Keywords:</b> ASAP <sup>2</sup> , VF Metering
<b>Discovered in Release:</b> 5.5-1.0.3.2		
	<b>Fixed in Release:</b> 5.7-1.0.2.0	
	3053842	<b>Description:</b> A race condition may cause some connection aging to set to 24 hours instead of 30 seconds.
		<b>Keywords:</b> ASAP <sup>2</sup> , Connection Tracking, Aging
<b>Discovered in Release:</b> 5.5-1.0.3.2		
	<b>Fixed in Release:</b> 5.7-1.0.2.0	

Internal Reference Number	Description
3079038	<b>Description:</b> When an already-loaded 'non-mellanox' auxiliary device on the auxiliary bus OFED driver exists, load may fail and cause kernel

Internal Reference Number	Description
	panic.
	<b>Keywords:</b> Driver Load
	<b>Discovered in Release:</b> 5.6-1.0.3.3
	<b>Fixed in Release:</b> 5.6-2.0.9.0
3066233	<b>Description:</b> On SLES15 systems that have both python3 and python2 installed, rebuilding kernel modules fails with an error in the mlnx-tools package, and specifically in the mlnx-tools build log, about missing ib2ibsetup.8.
	<b>Keywords:</b> Installation
	<b>Discovered in Release:</b> 5.6-1.0.3.3
	<b>Fixed in Release:</b> 5.6-2.0.9.0

Internal Reference Number	Description
2697443	<b>Description:</b> Reloading devlink in NetDev profile caused deadlock.
	<b>Keywords:</b> Devlink
	<b>Discovered in Release:</b> 5.0-1.0.0.0
	<b>Fixed in Release:</b> 5.6-1.0.3.5
2771739	<b>Description:</b> Gratuitous ARP during rdma_connect is not handled properly.
	<b>Keywords:</b> Gratuitous ARP
	<b>Fixed in Release:</b> 5.6-1.0.3.5
2820245	<b>Description:</b> Crypto offload of UDP traffic on top of IPv6 was unsupported.
	<b>Keywords:</b> IPsec, Crypto, Offload
	<b>Discovered in Release:</b> 5.5-1.0.3.2

Internal Reference Number	Description
	<b>Fixed in Release:</b> 5.6-1.0.3.5
2869109	<b>Description:</b> IPsec crypto offload for non TCP/UDP encapsulated traffic broke.
	<b>Keywords:</b> IPsec, Crypto, Offload
	<b>Discovered in Release:</b> 5.5-1.0.3.2
	<b>Fixed in Release:</b> 5.6-1.0.3.5
2905896	<b>Description:</b> Leaving a multicast group (rdma_leave_multicast) used the wrong address and left the interface in the multicast group.
	<b>Keywords:</b> RoCE, Multicast
	<b>Discovered in Release:</b> 5.5-1.0.3.2
	<b>Fixed in Release:</b> 5.6-1.0.3.5
2939691	<b>Description:</b> Unsupported parameters were ignored. Now, when using unsupported syntax or unsupported command line parameters, the application will fail with an error message.
	<b>Keywords:</b> Command Line, Parameters
	<b>Fixed in Release:</b> 5.6-1.0.3.5
2939037	<b>Description:</b> Ethtool that is part of the original EN package failed to dump correct EEPROM values when using -m flag.
	<b>Keywords:</b> Ethtool, EEPROM
	<b>Discovered in Release:</b> 5.5-1.0.3.2
	<b>Fixed in Release:</b> 5.6-1.0.3.5
2979137	<b>Description:</b> An increment of count variable was missing when looping over output buffer in mlx5e_self_test(). As a result, the garbage value of ethtool -t was resolved.
	<b>Keywords:</b> ethtool, selftest
	<b>Discovered in Release:</b> 5.5-1.0.3.2
	<b>Fixed in Release:</b> 5.6-1.0.3.5

Internal Reference Number	Description
2752622	<p><b>Description:</b> On SLES 15, the inbox modules in the directory mlxsw (such as mlxsw_spectrum) was not supported. When they were installed when installing MLNX_EN, they no longer worked (as they depend on a different version of the mlx* modules) and could cause an error at time of installation.</p>
	<p><b>Keywords:</b> Installation</p>
	<p><b>Discovered in Release:</b> 5.4-3.0.3.0</p>
	<p><b>Fixed in Release:</b> 5.6-1.0.3.5</p>
2984013	<p><b>Description:</b> When uninstalling the kmod-xpmmem package, xpmmem module was not unloaded. From now on, after uninstalling, xpmmem module will be removed automatically.</p>
	<p><b>Keywords:</b> Installation, xpmmem</p>
	<p><b>Discovered in Release:</b> 5.5-1.0.3.2</p>
	<p><b>Fixed in Release:</b> 5.6-1.0.3.5</p>
2984098	<p><b>Description:</b> OFED installation modified file "/etc/yum.conf" to exclude some packages from the Yum repositories. As of RHEL 8, /etc/yum.conf is a symlink to /etc/dnf.conf and this edit breaks the symlink. As there is no use in such an edit, OFED no longer edits this file.</p>
	<p><b>Keywords:</b> Installation, Yum Repositories, RHEL</p>
	<p><b>Discovered in Release:</b> 5.5-1.0.3.2</p>
	<p><b>Fixed in Release:</b> 5.6-1.0.3.5</p>
2946450	<p><b>Description:</b> In some cases, the firmware tracer did not work with NEO-Host.</p>
	<p><b>Keywords:</b> NEO-Host, Firmware Tracer</p>
	<p><b>Fixed in Release:</b> 5.6-1.0.3.5</p>
2947645	<p><b>Description:</b> current_link_speed sysfs was missing.</p>
	<p><b>Keywords:</b> sysfs</p>
	<p><b>Discovered in Release:</b> 5.5-1.0.3.2</p>

Internal Reference Number	Description
	<b>Fixed in Release:</b> 5.6-1.0.3.5
3025582	<b>Description:</b> If the commands were not entered in the correct order when setting buffer size and allocation using the mlnx_qos command, on some occasions, the xoff_threshold calculation broke pausing functionality.
	<b>Keywords:</b> Driver, xoff, Buffer
	<b>Discovered in Release:</b> 5.5-1.0.3.2
	<b>Fixed in Release:</b> 5.6-1.0.3.5
2936867	<b>Description:</b> Creating a TC rules with more than 30 actions caused kernel panic.
	<b>Keywords:</b> ASAP <sup>2</sup> , Call Trace, TC
	<b>Discovered in Release:</b> 5.5-1.0.3.2
	<b>Fixed in Release:</b> 5.6-1.0.3.5
3016685	<b>Description:</b> IP-in-IP packets received in one queue instead of hashing to multi queues.
	<b>Keywords:</b> NetDev, Tunneling, RSS
	<b>Discovered in Release:</b> 5.4-1.0.3.0
	<b>Fixed in Release:</b> 5.6-1.0.3.5
3023304	<b>Description:</b> Fixed compatibility issue of mlnx_qos for python3.9 deprecated tostring/fromstring.
	<b>Keywords:</b> Python3, Compatibility
	<b>Fixed in Release:</b> 5.6-1.0.3.5
2887387	<b>Description:</b> IPsec flow tables design caused the number of IPsec tunnels to be limited to 16K. Changed the flow tables design to support up to 32K IPsec tunnels per protocol (IPv4/IPv6).
	<b>Keywords:</b> IPsec
	<b>Discovered in Release:</b> 5.4-1.0.3.0

Internal Reference Number	Description
	<b>Fixed in Release:</b> 5.6-1.0.3.5
2887394/2887381	<b>Description:</b> When configuring over 1000 IPsec sessions caused performance issues.
	<b>Keywords:</b> IPsec
	<b>Discovered in Release:</b> 5.5-1.0.3.2
	<b>Fixed in Release:</b> 5.6-1.0.3.5
2906002	<b>Description:</b> Hairpin rules failed to send packet back to wire when IPsec full offload is enabled.
	<b>Keywords:</b> IPsec Full Offload, Hairpin
	<b>Discovered in Release:</b> 5.5-1.0.3.2
	<b>Fixed in Release:</b> 5.6-1.0.3.5
2890024	<b>Description:</b> Under certain conditions, incorrect handling of resources caused memory corruption over software steering resources leading to failure of OVS to offloaded the traffic to the hardware.
	<b>Keywords:</b> ASAP <sup>2</sup> , Steering, OVS, Memory
	<b>Discovered in Release:</b> 5.5-1.0.3.2
	<b>Fixed in Release:</b> 5.6-1.0.3.5
2874200	<b>Description:</b> Using hairpin tunnel traffic, caused incorrect TC rules to be created. Example: tunnel(tun_id=0x65,src=10.10.11.3,dst=10.10.11.2,ttl=0/0,tp_dst=4789,flags(+key)),...,in_port(vxlan_sys_4789),..., actions:set(tunnel(tun_id=0x66,src=10.10.12.2,dst=10.10.12.3,tp_dst=4789,flags(key))),vxlan_sys_4789
	<b>Keywords:</b> ASAP <sup>2</sup> , Hairpin, OVS, SwitchDev
	<b>Discovered in Release:</b> 5.5-1.0.3.2
	<b>Fixed in Release:</b> 5.6-1.0.3.5
2891499	<b>Description:</b> Adding a route with next hop object caused a warning in dmesg and could possibly lead to kernel panic.

Internal Reference Number	Description
	<b>Keywords:</b> ASAP <sup>2</sup> , Route, SwitchDev, Call Trace, NextHop
	<b>Discovered in Release:</b> 5.5-1.0.3.2
	<b>Fixed in Release:</b> 5.6-1.0.3.5

Internal Reference Number	Description
2842077	<b>Description:</b> Between scripts there was a possibility for Inconsistency in python3 header line (shebang line) because some distributions may no longer have /usr/bin/python.
	<b>Keywords:</b> Python3
	<b>Discovered in Release:</b> 5.4-1.0.3.0
	<b>Fixed in Release:</b> 5.5-1.0.3.2
2792432	<b>Description:</b> The driver did not set the PCP-based priority for DCT, hence DCT response packets were transmitted without user priority.
	<b>Keywords:</b> User Priority, DCT
	<b>Fixed in Release:</b> 5.5-1.0.3.2
2792480	<b>Description:</b> Running tcpdump on bonding standby port caused to lose the network.
	<b>Keywords:</b> NetDev
	<b>Discovered in Release:</b> 5.4-1.0.3.0
	<b>Fixed in Release:</b> 5.5-1.0.3.2
2782406	<b>Description:</b> Running yum update will upgrade kylin-release to a higher version. The version of this package is used for kylin10sp2 detection so the script will detect kylin 10 instead of kylin10sp2 and use its repository by mistake.
	<b>Workaround:</b> Upgrade, kylin
	<b>Discovered in Release:</b> 5.4-3.0.3.0

Internal Reference Number	Description
	<b>Fixed in Release:</b> 5.5-1.0.3.2
2823700	<b>Description:</b> xpmem driver is not supported on PowerPC.
	<b>Keywords:</b> Installation, xpmem, PowerPC
	<b>Fixed in Release:</b> 5.5-1.0.3.2
2802508	<b>Description:</b> Suspend flow freed the VLAN data so the data was not restored during the resume flow.
	<b>Keywords:</b> VLAN, Suspend Flow, Resume Flow
	<b>Fixed in Release:</b> 5.5-1.0.3.2
2796010	<b>Description:</b> Connection tracking rules with fragmentation had 0 stats.
	<b>Keywords:</b> BlueField, Connection Tracking, Fragments, ASAP <sup>2</sup>
	<b>Discovered in Release:</b> 5.4-2.4.1.3
	<b>Fixed in Release:</b> 5.5-1.0.3.2
2803403	<b>Description:</b> Traffic failed to pass when OVS bridge is configured with bond interface and IP is configured over the OVS internal (bridge) port.
	<b>Keywords:</b> Bond, VF LAG, OVS, Internal Port, ASAP <sup>2</sup>
	<b>Discovered in Release:</b> 5.2-1.0.4.0
	<b>Fixed in Release:</b> 5.5-1.0.3.2
2438392	<b>Description:</b> VXLAN with IPsec crypto offload does not work.
	<b>Keywords:</b> VXLAN; IPsec crypto
	<b>Discovered in Release:</b> 5.3-1.0.0.1
	<b>Fixed in Release:</b> 5.5-1.0.3.2
2677225	<b>Description:</b> Conducting a driver restart while in VF LAG mode may cause unwanted behaviour such as kernel crashes.
	<b>Keywords:</b> ASAP <sup>2</sup> , Bonding, Driver Restart, VF LAG
	<b>Discovered in Release:</b> 5.4-1.0.3.0



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	<b>Fixed in Release:</b> 5.5-1.0.3.2

Internal Reference Number	Description
2852904	<b>Description:</b> In version 5.4, there was some offload breakage when using OVS.
	<b>Keywords:</b> TSO, UDP Tunnels
	<b>Discovered in Release:</b> 5.4-1.0.3.0
	<b>Fixed in Release:</b> 5.4-3.1.0.0
2792480	<b>Description:</b> Running tcpdump on a bonding standby port resulted in the loss of the network.
	<b>Keywords:</b> NetDev
	<b>Discovered in Release:</b> 5.4-1.0.3.0
	<b>Fixed in Release:</b> 5.4-3.0.3.0
2696789	<b>Description:</b> Redesigned the locks around peer MR invalidation flow to avoid a potential deadlock as Peer-direct patch may cause deadlock due to lock inversion. <b>Notes:</b>
	<ul style="list-style-type: none"> <li>• For GPU drivers prior to r470, the user should update <code>nv_peer_mem</code> to the next version, probably 1.2.</li> <li>• For GPU drivers from r470 or later branches shipped with <code>nvidia-peermem</code>, the driver will have an option to update to newer releases which take advantage of the redesigned MLNX_OFED support.</li> </ul>
	<b>Keywords:</b> lock inversion, <code>nv_peer_mem</code>
	<b>Discovered in Release:</b> 5.4-1.0.3.0
2739689	<b>Fixed in Release:</b> 5.4-3.0.3.0
	<b>Description:</b> A race that resulted in a QCE with an error, caused errors in UMR QP. To prevent the UMR QP from getting into error, we fixed the MR

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	deregistration flow (e.g., Peer lkey which is always revoked before destroying it).
	<b>Keywords:</b> QCE, UMR
	<b>Discovered in Release:</b> 5.4-1.0.3.0
	<b>Fixed in Release:</b> 5.4-3.0.3.0
2691656	<b>Description:</b> When using bonding, ibdev2netdev would sometimes match the infiniband device to the net device bonding interface, and sometimes to the underlying Infiniband net device interface. ibdev2netdev now skips InfiniBand net device bonding interfaces, and always matches InfiniBand devices to the underlying InfiniBand net device interfaces.
	<b>Keywords:</b> ibdev2netdev Bonding
	<b>Discovered in Release:</b> 5.0-1.0.0.0
	<b>Fixed in Release:</b> 5.4-3.0.3.0
2687643	<b>Description:</b> Fixed Decap flows inner IP_ECN match to take into account software modification of the match value according to RFC 6040 4.2.
	<b>Keywords:</b> decap, ASAP <sup>2</sup> , ECN, RoCE
	<b>Discovered in Release:</b> 5.4-1.0.3.0
	<b>Fixed in Release:</b> 5.4-3.0.3.0
2691081	<b>Description:</b> Removed metadata from the rpm package mlnx-ofa_kernel where it claimed to Provide an older version of rdma-core. This made sense in older versions where we needed to avoid installing rdma-core. But does not make sense anymore. And caused problems to some users installing rdma-core-devel through meta-packages.
	<b>Keywords:</b> Installation
	<b>Discovered in Release:</b> 5.4-1.0.3.0
	<b>Fixed in Release:</b> 5.4-3.0.3.0
2727062	<b>Description:</b> Removed manual build-time file list generation in mlnx-tools. Only keep it for python-installed files. And avoid guessing the

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	<p>version of python we use and the directory to which we install.</p> <p><b>Keywords:</b> Installation</p> <p><b>Discovered in Release:</b> 5.4-1.0.3.0</p> <p><b>Fixed in Release:</b> 5.4-3.0.3.0</p>
2708220	<p><b>Description:</b> Removed useless build-time editing of uninstall.sh in ofed-scripts that caused the build to fail (in the case of --add-kernel-support) in some rare cases.</p> <p><b>Keywords:</b> Installation</p> <p><b>Discovered in Release:</b> 5.4-1.0.3.0</p> <p><b>Fixed in Release:</b> 5.4-3.0.3.0</p>
2730547	<p><b>Description:</b> Some Dell OFED Factory Installation packages were missing dependencies. Removed the package rdma-core-devel from the Dell MLNX_OFED packages as it was not needed and some of its dependencies are not included.</p> <p><b>Keywords:</b> Installation, Dell</p> <p><b>Discovered in Release:</b> 5.4-1.0.3.0</p> <p><b>Fixed in Release:</b> 5.4-3.0.3.0</p>
2699662	<p><b>Description:</b> MLNX_OFED build scripts fixed to also build hcoll with CUDA support on RHEL8 x86_64 platforms.</p> <p><b>Keywords:</b> Installation, CUDA</p> <p><b>Discovered in Release:</b> 5.4-1.0.3.0</p> <p><b>Fixed in Release:</b> 5.4-3.0.3.0</p>
2686877	<p><b>Description:</b> Changing mtu takes too long. Reduced number of calls to synchronize_net to once for all channels.</p> <p><b>Keywords:</b> mtu, synchronize_net</p> <p><b>Discovered in Release:</b> 5.4-1.0.3.0</p> <p><b>Fixed in Release:</b> 5.4-3.0.3.0</p>

Internal Reference Number	Description
2748328	<p><b>Description:</b> When trying to upgrade a kmp package, it conflicts and needs user help to choose whether to replace it or not. The fix avoids conflicts from /usr/lib/rpm/kernel-module-subpackage script which was changed in the builder. Building the packages with kmp enabled on the other image will cause the issue to reproduce.</p>
	<p><b>Keywords:</b> Upgrade, kmp Package</p>
	<p><b>Discovered in Release:</b> 5.4-1.0.3.0</p>
	<p><b>Fixed in Release:</b> 5.4-3.0.3.0</p>
2707023	<p><b>Description:</b> On Ubuntu and Debian systems for openvswitch-switch (in case installing using e.g. --ovs-dpdk or --with-openvswitch), the installer misses a run-time dependency of libpcap0.8.</p>
	<p><b>Keywords:</b> Installation, Ubuntu, Debian</p>
	<p><b>Discovered in Release:</b> 5.4-1.0.3.0</p>
	<p><b>Fixed in Release:</b> 5.4-3.0.3.0</p>
2563366	<p><b>Description:</b> The full path to the directory that contains the installer must not contain a space or any similar white-space character, otherwise the installer will fail.</p>
	<p><b>Keywords:</b> Installation, White Space</p>
	<p><b>Discovered in Release:</b> 5.3-1.0.0.1</p>
	<p><b>Fixed in Release:</b> 5.4-3.0.3.0</p>

Internal Reference Number	Description
2684302	<b>Description:</b> To support scalability, function representor channels were limited to 4. However in scenarios when SF are not used, certain use cases require representors to support a large number of channels. Hence, representor channel limit to 4 is applicable only when a PCI device, such as Scalable Function support, is enabled.
	<b>Keywords:</b> Representor Channels
	<b>Discovered in Release:</b> 5.3-1.0.0.1
	<b>Fixed in Release:</b> 5.4-1.0.3.0
2644217	<b>Description:</b> Matching on ipv4_ihl (internet header length) was supported only for outer headers. Support has been added for inner headers too.
	<b>Keywords:</b> Internet Header Length, ipv4_ihl
	<b>Fixed in Release:</b> 5.4-1.0.3.0
2626906	<b>Description:</b> When using one counter for both pop/push VLAN actions, the counter value is incorrect. Split the counter for pop_vlan_action_counter and push_vlan_action_counter.
	<b>Keywords:</b> Pop/Push VLAN
	<b>Fixed in Release:</b> 5.4-1.0.3.0
2653382	<b>Description:</b> Incorrect L3 decapsulation occurs when the original inner frame is small and was padded to comply with minimum frame size of 64-bytes.
	<b>Keywords:</b> SW Steering, Decapsulation, Padding
	<b>Fixed in Release:</b> 5.4-1.0.3.0
2612725	<b>Description:</b> dapl and libmlx4 are needed by libdat2 and libdpdk. In order to remove or update dapl, its dependencies need to be removed.
	<b>Keywords:</b> dapl, libmlx4
	<b>Discovered in Release:</b> 5.2-1.0.4.0
	<b>Fixed in Release:</b> 5.4-1.0.3.0

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2649134	<b>Description:</b> An override of log_max_qp by other devices occurs if the devices share the same mlx5_core module.
	<b>Keywords:</b> log_max_qp, mlx5_core
	<b>Fixed in Release:</b> 5.4-1.0.3.0
2638029	<b>Description:</b> A synchronization issue where closing and opening channels (which may happen on configuration changes such as changing number of channels) may cause null pointer dereference in function mlx5e_select_queue.
	<b>Keywords:</b> mlx5e_select_queue, Synchronization, Tx
	<b>Fixed in Release:</b> 5.4-1.0.3.0
2678982	<b>Description:</b> Enabling tx-udp_tnl-csum-segmentation has no effect on the driver. tx-udp_tnl-csum-segmentation has been moved to "off [fixed]".
	<b>Keywords:</b> tx-udp_tnl-csum-segmentation
	<b>Discovered in Release:</b> 5.4-0.5.1.1
	<b>Fixed in Release:</b> 5.4-1.0.3.0
2610870	<b>Description:</b> Some MLNX_OFED dkms packages ignored (install-time) build errors and considered the packages properly built. Those errors are now not ignored and indicated as package installation errors.
	<b>Keywords:</b> dkms, Installation
	<b>Discovered in Release:</b> 5.2-2.2.0.0
	<b>Fixed in Release:</b> 5.4-1.0.3.0
2617820	<b>Description:</b> Old udevd versions could get stuck renaming network devices, leaving interfaces named eth* instead of enp*. Updating the systemd version resolves this issue. For example, if an issue detected on RHEL 7.6 with systemd-219-62, updating the systemd version to systemd-219-67 resolves the issue.
	<b>Keywords:</b> udev, systemd, RHEL

Internal Reference Number	Description
	<b>Discovered in Release:</b> 5.4-0.5.1.1
	<b>Fixed in Release:</b> 5.4-1.0.3.0
2632768	<b>Description:</b> Flows with t commit action with ct state -trk are not be offloaded (i.e., table=0,ct_state=-trk,ip actions=ct(commit,table=1)).
	<b>Keywords:</b> ASAP <sup>2</sup> , Connection Tracking
	<b>Fixed in Release:</b> 5.4-1.0.3.0
2247143	<b>Description:</b> Connection tracking over VF LAG with tunnel encapsulation/decapsulation is not supported and may cause traffic drop.
	<b>Keywords:</b> ASAP <sup>2</sup> , Connection Tracking, VF LAG, Tunnel
	<b>Discovered in Release:</b> 5.0-1.0.0.0
	<b>Fixed in Release:</b> 5.4-1.0.3.0
2597327	<b>Description:</b> When stack size is limit to 1024, OFED compilation fails.
	<b>Keywords:</b> Compilation, Stack
	<b>Discovered in Release:</b> 5.3-1.0.0.1
	<b>Fixed in Release:</b> 5.4-1.0.3.0
2609641	<b>Description:</b> Setting rate/burst values higher than 2,147,483,648 are rejected.
	<b>Keywords:</b> VF Metering
	<b>Discovered in Release:</b> 5.3-1.0.0.1
	<b>Fixed in Release:</b> 5.4-1.0.3.0
2626920	<b>Description:</b> Offloaded remote mirroring flows on tunnel device caused forwarded traffic to VF to not be decapsulated.
	<b>Keywords:</b> ASAP <sup>2</sup> , Offload, Remote Mirroring, Tunnel
	<b>Discovered in Release:</b> 5.3-1.0.0.1
	<b>Fixed in Release:</b> 5.4-1.0.3.0

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2660247	<b>Description:</b> Trying to set VPort match mode on VF (cat/sys/class/net/enp8s0f2/compat/devlink/vport_match_mode), leads to kernel crash.
	<b>Keywords:</b> ASAP <sup>2</sup> , Kernel Crash
	<b>Discovered in Release:</b> 5.3-1.0.0.1
	<b>Fixed in Release:</b> 5.4-1.0.3.0
2667484	<b>Description:</b> OVS flows are not being offloaded over socket-direct devices.
	<b>Keywords:</b> ASAP <sup>2</sup> , Socket-Direct
	<b>Discovered in Release:</b> 5.3-1.0.0.1
	<b>Fixed in Release:</b> 5.4-1.0.3.0
2663042	<b>Description:</b> When VXLAN is configured and illegal route is added, the system crashes with call trace.
	<b>Keywords:</b> ASAP <sup>2</sup> , Offload, Tunnel, Call Trace
	<b>Discovered in Release:</b> 5.3-1.0.0.1
	<b>Fixed in Release:</b> 5.4-1.0.3.0
2354761	<b>Description:</b> If any traffic is sent before the netdev goes up for the first time, a division by zero caused by a modulo operation may occur in ndo_select_queue, leading to a kernel panic.
	<b>Keywords:</b> NetDev; ndo_select_queue
	<b>Discovered in Release:</b> 5.3-1.0.0.1
	<b>Fixed in Release:</b> 5.4-1.0.3.0
2562053/2667551	<b>Description:</b> After restarting driver, the x86 host may be in grace period and may not recover on its own. As part of the fix, 5 FW_fatal recoveries are allowed within the 20-minute grace period. As a result, the grace period in the devlink health show command will appear as 0 for FW_fatal reporter.
	<b>Keywords:</b> BlueField Reload, recovery, reset flow



Internal Reference Number	Description
	<b>Discovered in Release:</b> 5.2-2.2.0.0
	<b>Fixed in Release:</b> 5.4-1.0.3.0

Internal Reference Number	Issue
2393352	<b>Description:</b> Using "--with-openswitch" flag during MLNX_EN installation may not work on Debian 10 systems.
	<b>Keywords:</b> --with-openswitch, Debian
	<b>Discovered in Release:</b> 5.2-1.0.4.0
	<b>Fixed in Release:</b> 5.3-1.0.0.1
2445058	<b>Description:</b> ib_uverbs module parameter disable_raw_qp_enforcement is deprecated and should no longer be used.
	<b>Keywords:</b> disable_raw_qp_enforcement, ib_uverbs
	<b>Discovered in Release:</b> 5.2-2.2.0.0
	<b>Fixed in Release:</b> 5.3-1.0.0.1
2434650	<b>Description:</b> Fixed an issue in ConnectX-5 and earlier that when the module is missing, the driver reported a connector type that is different than OTHER.
	<b>Keywords:</b> Module, Connector Type
	<b>Discovered in Release:</b> 5.2-2.2.0.0
	<b>Fixed in Release:</b> 5.3-1.0.0.1
2434650	<b>Description:</b> Solved a compilation error by fixing a backport issue with unpin_user_pages_dirty_lock function.
	<b>Keywords:</b> Memory, unpin_user_pages_dirty_lock
	<b>Discovered in Release:</b> 5.2-2.2.0.0
	<b>Fixed in Release:</b> 5.3-1.0.0.1

Internal Reference Number	Issue
2505615	<b>Description:</b> Fixed an issue where VLAN header was not popped on VF Rx when the eSwitch priority tagging was configured.
	<b>Keywords:</b> ASAP <sup>2</sup> , Priority Tagging, VLAN
	<b>Discovered in Release:</b> 5.2-2.2.0.0
	<b>Fixed in Release:</b> 5.3-1.0.0.1
2494257	<b>Description:</b> Fixed connection tracking (CT) offload in NIC mode by using correct steering domain for the rules.
	<b>Keywords:</b> ASAP <sup>2</sup> , Connection Tracking, NIC Mode
	<b>Discovered in Release:</b> 5.2-2.2.0.0
	<b>Fixed in Release:</b> 5.3-1.0.0.1
2461213	<b>Description:</b> Fixed an issue where offload of rules from OVS internal port to uplink failed.
	<b>Keywords:</b> ASAP <sup>2</sup> , OVS
	<b>Discovered in Release:</b> 5.2-2.2.0.0
	<b>Fixed in Release:</b> 5.3-1.0.0.1
2444523	<b>Description:</b> Fixed an issue in the tunnel mishandling that can happen when the tunnel overlay device is an OVS internal port.
	<b>Keywords:</b> ASAP <sup>2</sup> , OVS internal port offloading
	<b>Discovered in Release:</b> 5.2-2.2.0.0
	<b>Fixed in Release:</b> 5.3-1.0.0.1
2566354	<b>Description:</b> Fixed incorrect parsing of network configuration when the option --net (-n) was given to mlnxofedinstall: get network configuration from the output of 'ip' instead of 'ifconfig'.
	<b>Keywords:</b> Installation
	<b>Fixed in Release:</b> 5.3-1.0.0.1
2495065	<b>Description:</b> Dropped unsupported devices from OFED rdma-core description.

Internal Reference Number	Issue
	<b>Keywords:</b> rdma-core
	<b>Discovered in Release:</b> 5.2-2.2.0.0
	<b>Fixed in Release:</b> 5.3-1.0.0.1
2482696	<b>Description:</b> Backported MLNX_EN kernel to support elrepo 5.8 kernel.
	<b>Keywords:</b> add-kernel-support
	<b>Discovered in Release:</b> 5.2-1.0.4.0
	<b>Fixed in Release:</b> 5.3-1.0.0.1
2481104	<b>Description:</b> Fixed ability to build xpmem on kernel version 5.6.
	<b>Keywords:</b> add-kernel-support, xpmem
	<b>Discovered in Release:</b> 5.2-1.0.4.0
	<b>Fixed in Release:</b> 5.3-1.0.0.1
2440062	<b>Description:</b> Fixed an issue where kernel build on SLES 15 systems that configures scripts assume SLES 15 systems have /etc/SuSE-release or /etc/SUSE-brand. These files no longer exist on SLES 15.
	<b>Keywords:</b> add-kernel-support, SLES 15
	<b>Discovered in Release:</b> 5.2-1.0.4.0
	<b>Fixed in Release:</b> 5.3-1.0.0.1
2445146	<b>Description:</b> Fixed an issue where running data on Geneve tunnel on a VF may result in CQE error and a failure t to transmit data.
	<b>Keywords:</b> Virtual Function
	<b>Discovered in Release:</b> 5.2-1.0.4.0
	<b>Fixed in Release:</b> 5.3-1.0.0.1
2494008	<b>Description:</b> Fixed an issue where the driver silently ignores the settings of an already-set ECN value (0->0, 1->1) via sysfs.
	<b>Keywords:</b> RDMA, ECN

Internal Reference Number	Issue
	<b>Discovered in Release:</b> 5.2-1.0.4.0
	<b>Fixed in Release:</b> 5.3-1.0.0.1
2581127	<b>Description:</b> Fixed an issue where KVS offload, under certain conditions, takes too long. Improved malloc performance by increasing the memory reuse and reducing the stress on malloc and free.
	<b>Keywords:</b> MLNX5DR, Software Steering
	<b>Discovered in Release:</b> 5.2-1.0.4.0
	<b>Fixed in Release:</b> 5.3-1.0.0.1
2502564	<b>Description:</b> Fixed an issue where when using switchdev mode with SMFS, inserting duplicate rules from userspace was not supported (required when there are a few instances of the same application). As part of the fix, added support for update_fte which is called in case a duplicate rule is being added.
	<b>Keywords:</b> SwitchDev, Steering
	<b>Fixed in Release:</b> 5.3-1.0.0.1
2433351	<b>Description:</b> Fixed an issue where creating 127 ports on each VF may fail as the current kernel does not support an RDMA device with more than 255 ports.
	<b>Keywords:</b> VF, RDMA, virtualization
	<b>Discovered in Release:</b> 5.2-2.2.0.0
	<b>Fixed in Release:</b> 5.3-1.0.0.1
2333971	<b>Description:</b> Fixed an issue where changing the "other" channels count by "ethtool -L other " command on Kernel 5.10 may cause a kernel panic.
	<b>Keywords:</b> Kernel 5.10, kernel panic, ethtool, "other" channels
	<b>Discovered in Release:</b> 5.2-1.0.4.0
	<b>Fixed in Release:</b> 5.3-1.0.0.1

Internal Reference Number	Issue
1731939	<b>Description:</b> Get/Set Forward Error Correction FEC configuration is not supported on ConnectX-6 HCAs with 200GbE speed rate.
	<b>Workaround:</b> N/A
	<b>Discovered in Release:</b> 4.6-1.0.1.1
	<b>Fixed in Release:</b> 5.3-1.0.0.1
2454952	<b>Description:</b> Fixed an issue where MLNX_EN cannot be built on top of Kernel 5.4.87.
	<b>Workaround:</b> operating system, kernel
	<b>Discovered in Release:</b> 5.2-2.2.0.0
	<b>Fixed in Release:</b> 5.3-1.0.0.1
2383355	<b>Description:</b> Fixed an issue where Switch and eSwitch offloads are not supported for SR-IOV and its sub functions when installing MLNX_EN over upstream kernel v5.10 or higher.
	<b>Keywords:</b> eSwitch, Kernel, SR-IOV
	<b>Discovered in Release:</b> 5.2-1.0.4.0
	<b>Fixed in Release:</b> 5.3-1.0.0.1
2083942	<b>Description:</b> Fixed the issue where the content of file <code>/sys/class/net/ /statistics/multicast</code> may have been out of date and may have displayed values lower than the real values.
	<b>Keywords:</b> Multicast counters
	<b>Discovered in Release:</b> 5.0-1.0.0.0
	<b>Fixed in Release:</b> 5.2-1.0.4.0
2282316	<b>Description:</b> Fixed the issue where ERSPAN protocol was available only when turning off Tx checksum offload.
	<b>Keywords:</b> ERSPAN, TX checksum offload
	<b>Discovered in Release:</b> 5.1-2.5.8.0
	<b>Fixed in Release:</b> 5.2-1.0.4.0

Internal Reference Number	Issue
2310695	<b>Description:</b> Fixed a udev script issue which caused non-NVIDIA devices to be renamed.
	<b>Keywords:</b> udev, naming
	<b>Discovered in Release:</b> 5.0-1.0.0.0
	<b>Fixed in Release:</b> 5.2-1.0.4.0
2334518	<b>Description:</b> Fixed missing representor statistics when using ifconfig.
	<b>Keywords:</b> SwitchDev, representor, statistics, ifconfig
	<b>Discovered in Release:</b> 5.1-2.5.8.0
	<b>Fixed in Release:</b> 5.2-1.0.4.0
2342348	<b>Description:</b> Fixed wrong value of skb mark of received packets on representors.
	<b>Keywords:</b> SwitchDev, skb mark
	<b>Discovered in Release:</b> 5.1-2.5.8.0
	<b>Fixed in Release:</b> 5.2-1.0.4.0
2363982	<b>Description:</b> Fixed an issue which caused second port representors to be named as first port representors.
	<b>Keywords:</b> SwitchDev, udev, representor
	<b>Discovered in Release:</b> 5.1-2.5.8.0
	<b>Fixed in Release:</b> 5.2-1.0.4.0
2020260	<b>Description:</b> Fixed the issue of when changing the Trust mode to DSCP, there was an interval between the change taking effect in the hardware and updating the inline mode of the SQ in the driver. If any traffic was transmitted during this interval, the driver would not inline enough headers, resulting in a CQE error in the NIC.
	<b>Keywords:</b> DSCP, inline, SQ, CQE
	<b>Discovered in Release:</b> 5.0-1.0.0.0
	<b>Discovered in Release:</b> 5.1-1.0.4.0

Internal Reference Number	Issue
2105631	<b>Description:</b> Removed IBV_FLOW_ATTR_FLAGS_ALLOW_LOOP_BACK flag as it is not used by the kernel.
	<b>Keywords:</b> IBV_FLOW_ATTR_FLAGS_ALLOW_LOOP_BACK
	<b>Discovered in Release:</b> 4.7-1.0.0.1
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2099043	<b>Description:</b> Added QP isolation to improve SW steering performance under high packet load. This will allow SW steering RC QP to be executed on a separate scheduling queue without competing over hardware resources.
	<b>Keywords:</b> Software steering, ASAP, connection tracking, CT
	<b>Discovered in Release:</b> 5.0-1.0.0.0
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2097045	<b>Description:</b> Userspace Software Steering using mlx5dv_dr API support on ConnectX-6 Dx adapter cards is now at GA level.
	<b>Keywords:</b> Software Steering, SW, mlx5dv_dr, ConnectX-6 Dx
	<b>Discovered in Release:</b> 5.0-1.0.0.0
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2132332	<b>Description:</b> Fixed a sporadic reporting bandwidth issue in case of running with --run_infinately flag.
	<b>Keywords:</b> perftest, bandwidth
	<b>Discovered in Release:</b> 5.0-1.0.0.0
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2151658	<b>Description:</b> Optimized XRC target lookup by modifying the locking scheme to enable multiple readers and changing the linked list that holds the QPs to xarray.
	<b>Keywords:</b> XRC, QP, xarray
	<b>Discovered in Release:</b> 5.0-1.0.0.0

Internal Reference Number	Issue
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2196118	<b>Description:</b> Fixed a driver issue that led to panic after DPDK application crashes.
	<b>Keywords:</b> DPDK, panic
	<b>Discovered in Release:</b> 5.0-1.0.0.0
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2245228	<b>Description:</b> Fixed an issue of a crash when attempting to access roce_enable sysfs in unprobed VFs.
	<b>Keywords:</b> roce_enable, unprobed VFs
	<b>Discovered in Release:</b> 5.0-1.0.0.0
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2061294	<b>Description:</b> Fixed a race of commands executed by command interface in parallel to AER recovery causing the kernel to crash.
	<b>Keywords:</b> mlx5e, AER
	<b>Discovered in Release:</b> 4.7-1.0.0.1
	<b>Fixed in Release:</b> 5.1-1.0.4.0
1731005	<b>Description:</b> Regenerated package repository in the correct location after rebuilding the kernel using add-kernel-support. This allows for installing the newly generated packages with a package manager.
	<b>Keywords:</b> add-kernel-support, RPM, deb
	<b>Discovered in Release:</b> 5.0-1.0.0.0
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2172130	<b>Description:</b> Fixed an issue with metadata packages generation in the eth-only directory. This allows using the directory as a repository for package managers.
	<b>Keywords:</b> Metadata packages
	<b>Discovered in Release:</b> 5.0-1.0.0.0



Internal Reference Number	Issue
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2214543	<b>Description:</b> Moved ibdev2netdev script from /usr/bin to /usr/sbin in the RPM package to avoid package conflict with RHEL 8 and consequent MLNX_EN installation failure on some systems.
	<b>Keywords:</b> ibdev2netdev, RPM, RHEL, RedHat
	<b>Discovered in Release:</b> 5.0-1.0.0.0
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2211311	<b>Description:</b> Fixed an issue where Rx port buffers cell size was wrong, leading to wrong buffers size reported by mlnx_qos/netdev qos/buffer_size sysfs.
	<b>Keywords:</b> mlx5e, RX buffers, mlnx_qos
	<b>Discovered in Release:</b> 5.0-1.0.0.0
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2111349	<b>Description:</b> Fixed the issue where ethtool --show-fec/--get-fec were not supported over ConnectX-6 and ConnectX-6 Dx adapter cards.
	<b>Keywords:</b> Ethtool, ConnectX-6 Dx
	<b>Discovered in Release:</b> 5.0-1.0.0.0
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2165668	<b>Description:</b> Fixed an issue related to mlx5 command interface that in some scenarios caused the driver to hang.
	<b>Keywords:</b> ConnectX-5, mlx5, panic
	<b>Discovered in Release:</b> 4.6-1.0.1.1
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2119984	<b>Description:</b> Fixed the issue where IPsec crypto offloads did not work when ESN was enabled.
	<b>Keywords:</b> IPsec, ESN
	<b>Discovered in Release:</b> 5.0-1.0.0.0

Internal Reference Number	Issue
	<b>Fixed in Release:</b> 5.1-1.0.4.0
1630228	<b>Description:</b> Fixed the issue where tunnel stateless offloads were wrongly forbidden for E-Switch manager function.
	<b>Keywords:</b> Stateless offloads cap
	<b>Discovered in Release:</b> 4.6-1.0.1.1
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2089996	<b>Description:</b> Fixed the issue where dump flows were not supported and may have been corrupted when using tc tool with connection tracking rules.
	<b>Keywords:</b> ASAP, iproute2, tc, connection tracking
	<b>Discovered in Release:</b> 5.0-1.0.0.0
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2094216	<b>Description:</b> Fixed the issue of when one of the LAG slaves went down, LAG deactivation failed, ultimately causing bandwidth degradation.
	<b>Keywords:</b> RoCE LAG
	<b>Discovered in Release:</b> 4.7-3.2.9.0
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2133778	<b>Description:</b> The mlx5 driver maintains a subdirectory for every open eth port in /sys/kernel/debug/. For the default network namespace, the sub-directory name is the name of the interface, like "eth8". The new convention for the network interfaces moved to the non-default network namespaces is the interfaces name followed by "@" and the port's PCI ID. For example: "eth8@0000:af:00.3".
	<b>Keywords:</b> Namespace
	<b>Discovered in Release:</b> 4.7-3.2.9.0
	<b>Fixed in Release:</b> 5.1-1.0.4.0

Internal Reference Number	Issue
2076546	<b>Description:</b> Fixed the issue where in RPM-based OSs with non-default kernels, using repositories after re-creating the installer (using --add-kernel-support) would result in improper installation of the drivers.
	<b>Keywords:</b> Installation, OS
	<b>Discovered in Release:</b> 4.7-1.0.0.1
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2114957	<b>Description:</b> Fixed the issue where MLNX_EN installation may have depended on python2 package even when attempting to install it on OSs whose default package is python3.
	<b>Keywords:</b> Installation, python
	<b>Discovered in Release:</b> 4.7-3.2.9.0
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2122684	<b>Description:</b> Fixed the issue where OFED uninstallation resulted in the removal of dependency packages, such as qemu-system-* (qemu-system-x86).
	<b>Keywords:</b> Uninstallation, dependency, qemu-system-x86
	<b>Discovered in Release:</b> 4.7-3.2.9.0
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2135476	<b>Description:</b> Added KMP ability to install MLNX_EN Kernel modules on SLES12 SP5 and SLES15 kernel maintenance updates.
	<b>Keywords:</b> KMP, SLES, kernel
	<b>Discovered in Release:</b> 4.7-3.2.9.0
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2143258	<b>Description:</b> Fixed a typo in perftest package where help messages wrongly displayed the conversion result between Gb/s and MB/s (20^2 instead of 2^20).
	<b>Keywords:</b> perftest
	<b>Discovered in Release:</b> 4.7-3.2.9.0

Internal Reference Number	Issue
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2149577	<b>Description:</b> Fixed the issue where openibd script load used to fail when esp6_offload module did not load successfully.
	<b>Keywords:</b> openibd, esp6_offload
	<b>Discovered in Release:</b> 4.7-3.2.9.0
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2163879	<b>Description:</b> Added dependency of package mpi-selectors on perl-Getopt-Long system package. On minimal installs of RPM-based OSs, installing mpi-selectors will also install the required system package perl-Getopt-Long.
	<b>Keywords:</b> Dependency, perl-Getopt-Long
	<b>Discovered in Release:</b> 4.7-3.2.9.0
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2119017	<b>Description:</b> Fixed the issue where injecting EEH may cause extra Kernel prints, such as: "EEH: Might be infinite loop in mlx5_core driver".
	<b>Keywords:</b> EEH, kernel
	<b>Discovered in Release:</b> 4.7-3.2.9.0
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2107532	<b>Description:</b> Fixed the issue where in certain rare scenarios, due to Rx page not being replenished, the same page fragment mistakenly became assigned to two different Rx descriptors.
	<b>Keywords:</b> Memory corruption, Rx page recycle
	<b>Discovered in Release:</b> 4.7-3.2.9.0
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2116234	<b>Description:</b> Fixed the issue where ibsim was missing after OFED installation.
	<b>Keywords:</b> ibsim, installation

Internal Reference Number	Issue
	<b>Discovered in Release:</b> 5.0-1.0.0.0
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2116233	<b>Description:</b> Fixed an issue where ucx-kmem was missing after OFED installation.
	<b>Keywords:</b> ucx-kmem, installation
	<b>Discovered in Release:</b> 5.0-1.0.0.0
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2109716	<b>Description:</b> Fixed a dependency issue between systemd and RDMA-Core.
	<b>Keywords:</b> Dependency, RDMA-Core
	<b>Discovered in Release:</b> 5.0-1.0.0.0
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2107776	<b>Description:</b> Fixed a driver load issue with Errata-kernel on SLES15 SP1.
	<b>Keywords:</b> Load, SLES, Errata
	<b>Discovered in Release:</b> 5.0-1.0.0.0
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2105536	<b>Description:</b> Fixed an issue in the Hairpin feature which prevented adding hairpin flows using TC tool.
	<b>Keywords:</b> Hairpin, TC
	<b>Discovered in Release:</b> 5.0-1.0.0.0
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2090321	<b>Description:</b> Fixed the issue where WQ queue flushing was not handled properly in the event of EEH.
	<b>Keywords:</b> WQ, EEH
	<b>Discovered in Release:</b> 4.7-1.0.0.1

Internal Reference Number	Issue
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2076311	<b>Description:</b> Fixed a rare kernel crash scenario when exiting an application that uses RMPP mads intensively.
	<b>Keywords:</b> MAD RMPP
	<b>Discovered in Release:</b> 4.0-1.0.1.0
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2094545	<b>Description:</b> Fixed the issue where perftest applications (ib_read_*, ib_write_* and others) supplied with MLNX_EN v5.0 and above did not work correctly if corresponding applications on another side of client-server communication were supplied with previous versions of MLNX_EN due to an interoperability issue.
	<b>Keywords:</b> perftest, interoperability
	<b>Discovered in Release:</b> 5.0-1.0.0.0
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2096998	<b>Description:</b> Fixed the issue where NEO-Host could not be installed from the MLNX_EN package when working on Ubuntu and Debian OSs.
	<b>Keywords:</b> NEO-Host, Ubuntu, Debian
	<b>Discovered in Release:</b> 5.0-1.0.0.0
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2094012	<b>Description:</b> Fixed the issue where MLNX_EN installation failed to upgrade firmware version on ConnectX-6 Dx NICs with secure-fw.
	<b>Keywords:</b> ConnectX-6 Dx, installation, firmware, NIC
	<b>Discovered in Release:</b> 5.0-1.0.0.0
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2057076	<b>Description:</b> Added support for installing MLNX_EN using --add-kernel-support option over RHEL 8 OSs.
	<b>Keywords:</b> --add-kernel-support, installation, RHEL

Internal Reference Number	Issue
	<b>Discovered in Release:</b> 5.0-1.0.0.0
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2090186	<b>Description:</b> Fixed a possible kernel crash scenario when AER/slot reset in done in parallel to user space commands execution.
	<b>Keywords:</b> mlx5_core, AER, slot reset
	<b>Discovered in Release:</b> 4.3-1.0.1.0
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2093410	<b>Description:</b> Added missing ECN configuration under sysfs for PFs in SwitchDev mode.
	<b>Keywords:</b> sysfs, ASAP, SwitchDev, ECN
	<b>Discovered in Release:</b> 4.7-3.2.9.0
	<b>Fixed in Release:</b> 5.1-1.0.4.0
2036394	<b>Description:</b> Added driver support for kernels with the old XDP_REDIRECT infrastructure that uses the following NetDev operations: .ndo_xdp_flush and .ndo_xdp_xmit.
	<b>Keywords:</b> XDP_REDIRECT, Soft lockup
	<b>Discovered in Release:</b> 4.7-3.2.9.0
	<b>Fixed in Release:</b> 5.0-1.0.0.0
2072871	<b>Description:</b> Fixed an issue where the usage of --excludedocs Open MPI RPM option resulted in the removal of non-documentation related files.
	<b>Keywords:</b> --excludedocs, Open MPI, RPM
	<b>Discovered in Release:</b> 4.5-1.0.1.0
	<b>Fixed in Release:</b> 5.0-1.0.0.0
2060216	<b>Description:</b> Legacy mlnx-libs are now installed by default on SLES11 SP3 OS, as building MLNX_EN on RDMA-Core based packages with this OS is not supported.

Internal Reference Number	Issue
	<p><b>Keywords:</b> mlnx-libs, SLES, RDMA-Core</p> <p><b>Discovered in Release:</b> 4.7-3.2.9.0</p> <p><b>Fixed in Release:</b> 5.0-1.0.0.0</p>
2072884	<p><b>Description:</b> Removed all cases of automated loading of MLNX_EN kernel modules outside of openibd to preserve the startup process of previous MLNX_EN versions. These loads conflict with openibd, which has its own logic to overcome issues. Such issues can be inbox driver load instead of MLNX_EN, or module load with wrong parameter value. They might also load modules while openibd is trying to unload the driver stack.</p> <p><b>Keywords:</b> Installation, openibd, RDMA-Core</p> <p><b>Discovered in Release:</b> 4.7-3.2.9.0</p> <p><b>Fixed in Release:</b> 5.0-1.0.0.0</p>
2052037	<p><b>Description:</b> Disabled automated loading of some modules through udev triggers to preserve the startup process of previous MLNX_EN versions.</p> <p><b>Keywords:</b> Installation, udev, RDMA-Core</p> <p><b>Discovered in Release:</b> 4.7-3.2.9.0</p> <p><b>Fixed in Release:</b> 5.0-1.0.0.0</p>
2022634	<p><b>Description:</b> Fixed a typo in the packages build command line which could cause the installation of MLNX_EN on SLES OSs to fail when using the option --without-depcheck.</p> <p><b>Keywords:</b> Installation, SLES</p> <p><b>Discovered in Release:</b> 4.7-3.2.9.0</p> <p><b>Fixed in Release:</b> 5.0-1.0.0.0</p>
2022619	<p><b>Description:</b> Fixed the issue where uninstallation of MLNX_EN would hang due to a bug in the package dependency check.</p> <p><b>Keywords:</b> Uninstallation, dependency</p>



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	<b>Discovered in Release:</b> 4.7-1.0.0.1
	<b>Fixed in Release:</b> 5.0-1.0.0.0
1995843	<b>Description:</b> ibdump is now provided with the default rdma-core-based build.
	<b>Keywords:</b> ibdump, RDMA-Core
	<b>Discovered in Release:</b> 4.7-3.2.9.0
	<b>Fixed in Release:</b> 5.0-1.0.0.0
1995631	<b>Description:</b> Proper package dependencies are now set on Debian and Ubuntu libibverbs-dev package that is generated from RDMA-Core.
	<b>Keywords:</b> Dependency, libibverbs, RDMA-Core
	<b>Discovered in Release:</b> 4.7-3.2.9.0
	<b>Fixed in Release:</b> 5.0-1.0.0.0
2047221	<b>Description:</b> Reference count (refcount) for RDMA connection ID (cm_id) was not incremented in rdma_resolve_addr() function, resulting in a cm_id use-after-free access. A fix was applied to increment the cm_id refcount.
	<b>Keywords:</b> rdma_resolve_addr(), cm_id
	<b>Discovered in Release:</b> 4.6-1.0.1.1
	<b>Fixed in Release:</b> 5.0-1.0.0.0
2045181	<b>Description:</b> Fixed a race condition which caused kernel panic when moving two ports to SwitchDev mode at the same time.
	<b>Keywords:</b> ASAP, SwitchDev, race
	<b>Discovered in Release:</b> 4.7-1.0.0.1
	<b>Fixed in Release:</b> 5.0-1.0.0.0
2004488	<b>Description:</b> Allowed accessing sysfs hardware counters in SwitchDev mode.
	<b>Keywords:</b> ASAP, hardware counters, sysfs, SwitchDev

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	<b>Discovered in Release:</b> 4.7-1.0.0.1
	<b>Fixed in Release:</b> 5.0-1.0.0.0
2030943	<b>Description:</b> Function smp_processor_id() is called in the RX page recycle flow to determine the core to run on. This is intended to run in NAPI context. However, due to a bug in backporting, the RX page recycle was mistakenly called also in the RQ close flow when not needed.
	<b>Keywords:</b> Rx page recycle, smp_processor_id
	<b>Discovered in Release:</b> 4.6-1.0.1.1
	<b>Fixed in Release:</b> 5.0-1.0.0.0
2074487	<b>Description:</b> Fixed an issue where port link state was automatically changed (without admin state involvement) to "UP" after reboot.
	<b>Keywords:</b> Link state, UP
	<b>Discovered in Release:</b> 4.7-1.0.0.1
	<b>Fixed in Release:</b> 5.0-1.0.0.0
2064711	<b>Description:</b> Fixed an issue where RDMA CM connection failed when port space was small.
	<b>Keywords:</b> RDMA CM
	<b>Discovered in Release:</b> 4.7-1.0.0.1
	<b>Fixed in Release:</b> 5.0-1.0.0.0
2076424	<b>Description:</b> Traffic mirroring with OVS offload and non-offload over VxLAN interface is now supported. <b>Note:</b> For kernel 4.9, make sure to use a dedicated OVS version.
	<b>Keywords:</b> VxLAN, OVS
	<b>Discovered in Release:</b> 4.7-3.2.9.0
	<b>Fixed in Release:</b> 5.0-1.0.0.0
1828321	<b>Description:</b> Fixed the issue of when working with VF LAG while the bond device is in active-active mode, running fwreset would result in

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	unequal traffic on both PFs, and PFs would not reach line rate. <b>Keywords:</b> VF LAG, bonding, PF <b>Discovered in Release:</b> 4.6-1.0.1.1 <b>Fixed in Release:</b> 5.0-1.0.0.0
1975293	<b>Description:</b> Installing OFED with --with-openvswitch flag no longer requires manual removal of the existing Open vSwitch. <b>Keywords:</b> OVS, Open vSwitch, openvswitch <b>Discovered in Release:</b> 4.7-3.2.9.0 <b>Fixed in Release:</b> 5.0-1.0.0.0
1939719	<b>Description:</b> Fixed an issue of when running openibd restart after the installation of MLNX_EN on SLES12 SP5 and SLES15 SP1 OSs with the latest Kernel (v4.12.14) resulted in an error that the modules did not belong to that Kernel. This was due to the fact that the module installed by MLNX_EN was incompatible with new Kernel's module. <b>Keywords:</b> SLES, operating system, OS, installation, Kernel, module <b>Discovered in Release:</b> 4.7-3.2.9.0 <b>Fixed in Release:</b> 5.0-1.0.0.0
2001966	<b>Description:</b> Fixed an issue of when bond was created over VF netdevices in SwitchDev mode, the VF netdevice would be treated as representor netdevice. This caused the mlx5_core driver to crash in case it received netdevice events related to bond device. <b>Keywords:</b> PF, VF, SwitchDev, netdevice, bonding <b>Discovered in Release:</b> 4.7-3.2.9.0 <b>Fixed in Release:</b> 5.0-1.0.0.0
1816629	<b>Description:</b> Fixed an issue where following a bad affinity occurrence in VF LAG mode, traffic was sent after the port went up/down in the switch. <b>Keywords:</b> Traffic, VF LAG

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	<b>Discovered in Release:</b> 4.6-1.0.1.1
	<b>Fixed in Release:</b> 5.0-1.0.0.0
1718531	<b>Description:</b> Added support for VLAN header rewrite on CentOS 7.2 OS.
	<b>Keywords:</b> VLAN, ASAP, switchdev, CentOS 7.2
	<b>Discovered in Release:</b> 4.6-1.0.1.1
	<b>Fixed in Release:</b> 5.0-1.0.0.0
1556337	<b>Description:</b> Fixed the issue where adding VxLAN decapsulation rule with enc_tos and enc_ttl failed.
	<b>Keywords:</b> VxLAN, decapsulation
	<b>Discovered in Release:</b> 4.7-1.0.0.1
	<b>Fixed in Release:</b> 5.0-1.0.0.0
1921799	<b>Description:</b> Fixed the issue where MLNX_EN installation over SLES15 SP1 ARM OSs failed unless --add-kernel-support flag was added to the installation command.
	<b>Keywords:</b> SLES, installation
	<b>Discovered in Release:</b> 4.7-1.0.0.1
	<b>Fixed in Release:</b> 4.7-3.2.9.0
1973828	<b>Description:</b> Fixed wrong EEPROM length for small form factor (SFF) 8472 from 256 to 512 bytes.
	<b>Keywords:</b> EEPROM, SFF
	<b>Discovered in Release:</b> 4.7-1.0.0.1
	<b>Fixed in Release:</b> 4.7-3.2.9.0
1915553	<b>Description:</b> Fixed the issue where errno field was not sent in all error flows of ibv_reg_mr API.
	<b>Keywords:</b> ibv_reg_mr
	<b>Discovered in Release:</b> 4.6-1.0.1.1

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	<b>Fixed in Release:</b> 4.7-3.2.9.0
1970901	<b>Description:</b> Fixed the issue where mlx5 IRQ name did not change to express the state of the interface.
	<b>Keywords:</b> Ethernet, PCIe, IRQ
	<b>Discovered in Release:</b> 4.7-1.0.0.1
	<b>Fixed in Release:</b> 4.7-3.2.9.0
1915587	<b>Description:</b> Udaddy application is now functional in Legacy mode.
	<b>Keywords:</b> Udaddy, MLNX_EN legacy, RDMA-CM
	<b>Discovered in Release:</b> 4.7-1.0.0.1
	<b>Fixed in Release:</b> 4.7-3.2.9.0
1931421	<b>Description:</b> Added support for E-Switch (SR-IOV Legacy) mode in RHEL 7.7 OSs.
	<b>Keywords:</b> E-Switch, SR-IOV, RHEL, RedHat
	<b>Discovered in Release:</b> 4.7-1.0.0.1
	<b>Fixed in Release:</b> 4.7-3.2.9.0
1945411/1839353	<b>Description:</b> Fixed the issue of when XDP_REDIRECT fails, pages got double-freed due to a bug in the refcnt_bias feature.
	<b>Keywords:</b> XDP, XDP_REDIRECT, refcnt_bias
	<b>Discovered in Release:</b> 4.6-1.0.1.1
	<b>Fixed in Release:</b> 4.7-3.2.9.0
1976482	<b>Description:</b> Added support for enabling SwitchDev mode in MLNX_EN.
	<b>Keywords:</b> SwitchDev
	<b>Discovered in Release:</b> 4.7-1.0.0.1
	<b>Fixed in Release:</b> 4.7-3.2.9.0

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1734102	<b>Description:</b> Fixed the issue where Ubuntu v16.04.05 and v16.04.05 OSs could not be used with their native kernels.
	<b>Keywords:</b> Ubuntu, Kernel, OS
	<b>Discovered in Release:</b> 4.6-1.0.1.1
	<b>Fixed in Release:</b> 4.7-1.0.0.1
1758983	<b>Description:</b> Installing MLNX_EN on RHEL 7.6 OSs platform x86_64 and RHEL 7.6 ALT OSs platform PPCLE using YUM is now supported.
	<b>Keywords:</b> RHEL, RedHat, YUM, OS, operating system
	<b>Discovered in Release:</b> 4.6-1.0.1.1
	<b>Fixed in Release:</b> 4.7-1.0.0.1
1800525	<b>Description:</b> When configuring the Time-stamping feature, CQE compression will be disabled. This fix entails the removal of a warning message that appeared upon attempting to disable CQE compression when it has already been disabled.
	<b>Keywords:</b> Time-stamping, CQE compression
	<b>Discovered in Release:</b> 4.6-1.0.1.1
	<b>Fixed in Release:</b> 4.7-1.0.0.1
1817636	<b>Description:</b> Fixed the issue of when disabling one port on the Server side, VF-LAG Tx Affinity would not work on the Client side.
	<b>Keywords:</b> VF-LAG, Tx Affinity
	<b>Discovered in Release:</b> 4.6-1.0.1.1
	<b>Fixed in Release:</b> 4.7-1.0.0.1
1843020	<b>Description:</b> Server reboot may result in a system crash.
	<b>Keywords:</b> reboot, crash
	<b>Discovered in Release:</b> 4.2-1.2.0.0
	<b>Fixed in Release:</b> 4.7-1.0.0.1
1811973	<b>Description:</b> VF mirroring offload is now supported.

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	<p><b>Keywords:</b> ASAP<sup>2</sup>, VF mirroring</p> <p><b>Discovered in Release:</b> 4.6-1.0.1.1</p> <p><b>Fixed in Release:</b> 4.7-1.0.0.1</p>
1841634	<p><b>Description:</b> The number of guaranteed counters per VF is now calculated based on the number of ports mapped to that VF. This allows more VFs to have counters allocated.</p> <p><b>Keywords:</b> Counters, VF</p> <p><b>Discovered in Release:</b> 4.4-1.0.0.0</p> <p><b>Fixed in Release:</b> 4.7-1.0.0.1</p>
1523548	<p><b>Description:</b> Fixed the issue where RDMA connection persisted even after dropping the network interface.</p> <p><b>Keywords:</b> Network interface, RDMA</p> <p><b>Discovered in Release:</b> 4.4-1.0.0.0</p> <p><b>Fixed in Release:</b> 4.6-1.0.1.1</p>
1712870	<p><b>Description:</b> Fixed the issue where small packets with non-zero padding were wrongly reported as "checksum complete" even though the padding was not covered by the csum calculation. These packets now report "checksum unnecessary". In addition, an ethtool private flag has been introduced to control the "checksum complete" feature: <code>ethtool --set-priv-flags eth1 rx_no_csum_complete on/off</code></p> <p><b>Keywords:</b> csum error, checksum, mlx5_core</p> <p><b>Discovered in Release:</b> 4.5-1.0.1.0</p> <p><b>Fixed in Release:</b> 4.6-1.0.1.1</p>
1648597	<p><b>Description:</b> Fixed the wrong wording in the FW tracer ownership startup message (from "FW Tracer Owner" to "FWTracer: Ownership granted and active").</p> <p><b>Keywords:</b> FW Tracer</p>

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	<b>Discovered in Release:</b> 4.5-1.0.1.0
	<b>Fixed in Release:</b> 4.6-1.0.1.1
1581631	<b>Description:</b> Fixed the issue where GID entries referenced to by a certain user application could not be deleted while that user application was running.
	<b>Keywords:</b> RoCE, GID
	<b>Discovered in Release:</b> 4.5-1.0.1.0
	<b>Fixed in Release:</b> 4.6-1.0.1.1
1403313	<b>Description:</b> Fixed the issue of when attempting to allocate an excessive number of VFs per PF in operating systems with kernel versions below v4.15, the allocation failed due to a known issue in the Kernel.
	<b>Keywords:</b> VF, PF, IOMMU, Kernel, OS
	<b>Discovered in Release:</b> 4.5-1.0.1.0
	<b>Fixed in Release:</b> 4.6-1.0.1.1
1368390	<b>Description:</b> Fixed the issue where MLNX_EN could not be installed on RHEL 7.x Alt OSs using YUM repository.
	<b>Keywords:</b> Installation, YUM, RHEL
	<b>Discovered in Release:</b> 4.3-3.0.2.1
	<b>Fixed in Release:</b> 4.6-1.0.1.1
1531817	<b>Description:</b> Fixed an issue of when the number of channels configured was less than the number of CPUs available, part of the CPUs would not be used by Tx queues.
	<b>Keywords:</b> Performance, Tx, CPU
	<b>Discovered in Release:</b> 4.4-1.0.1.0
	<b>Fixed in Release:</b> 4.5-1.0.1.0
1400381	<b>Description:</b> Fixed the issue where on SLES 11 SP3 PPC64 OSs, a memory allocation issue might prevent the interface from loading after



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	reboot, resulting in a call trace in the message log. <b>Keywords:</b> SLES11 SP3 <b>Discovered in Release:</b> 4.4-1.0.1.0 <b>Fixed in Release:</b> 4.5-1.0.1.0
1498931	<b>Description:</b> Fixed the issue where establishing TCP connection took too long due to failure of SA PathRecord query callback handler. <b>Keywords:</b> TCP, SA PathRecord <b>Discovered in Release:</b> 4.4-1.0.1.0 <b>Fixed in Release:</b> 4.5-1.0.1.0
1514096	<b>Description:</b> Fixed the issue where lack of high order allocations caused driver load failure. All high order allocations are now changed to order-0 allocations. <b>Keywords:</b> mlx5, high order allocation <b>Discovered in Release:</b> 4.4-2.0.0.1 <b>Fixed in Release:</b> 4.5-1.0.1.0
1524932	<b>Description:</b> Fixed a backport issue on some OSs, such as RHEL v7.x, where mlx5 driver would support <i>ip link set DEVICE vf NUM rate TXRATE</i> old command, instead of <i>ip link set DEVICE vf NUM max_tx_rate TXRATE min_tx_rate TXRATE</i> new command. <b>Keywords:</b> mlx5 driver <b>Discovered in Release:</b> 4.4-2.0.0.1 <b>Fixed in Release:</b> 4.5-1.0.1.0
1498585	<b>Description:</b> Fixed the issue of when performing configuration changes, mlx5e counters values were reset. <b>Keywords:</b> Ethernet counters <b>Discovered in Release:</b> 4.4-2.0.0.1 <b>Fixed in Release:</b> 4.5-1.0.1.0

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1484603	<p><b>Description:</b> Fixed the issue of when using <code>ibv_exp_cqe_ts_to_ns</code> verb to convert a packet's hardware timestamp to UTC time in nanoseconds, the result may appear backwards compared to the converted time of a previous packet.</p>
	<p><b>Keywords:</b> libibverbs</p>
	<p><b>Discovered in Release:</b> 4.4-1.0.1.0</p>
	<p><b>Fixed in Release:</b> 4.5-1.0.1.0</p>
1425027	<p><b>Description:</b> Fixed the issue where attempting to establish a RoCE connection on the default GID or on IPv6 link-local address might have failed when two or more netdevices that belong to HCA ports were slaves under a bonding master. This might also have resulted in the following error message in the kernel log: "<code>__ib_cache_gid_add: unable to add gid fe80:0000:0000:0000:f652:14ff:fe46:7391 error=-28</code>".</p>
	<p><b>Keywords:</b> RoCE, bonding</p>
	<p><b>Discovered in Release:</b> 4.4-1.0.1.0</p>
	<p><b>Fixed in Release:</b> 4.5-1.0.1.0</p>
1412468	<p><b>Description:</b> Added support for multi-host connection on mstflint's mstfwreset.</p>
	<p><b>Keywords:</b> mstfwreset, mstflint, MFT, multi-host</p>
	<p><b>Discovered in Release:</b> 4.3-1.0.1.0</p>
	<p><b>Fixed in Release:</b> 4.4-1.0.1.0</p>
1423319	<p><b>Description:</b> Removed the following prints on server shutdown: <code>mlx5_core 0005:81:00.1: mlx5_enter_error_state:96:(pid1): start</code> <code>mlx5_core 0005:81:00.1: mlx5_enter_error_state:109:(pid1): end</code></p>
	<p><b>Keywords:</b> mlx5, fast shutdown</p>
	<p><b>Discovered in Release:</b> 4.3-1.0.1.0</p>
	<p><b>Fixed in Release:</b> 4.4-1.0.1.0</p>

Internal Reference Number	Issue
1318251	<b>Description:</b> Fixed the issue of when bringing mlx5 devices up or down, a call trace in <i>nvme_rdma_remove_one</i> or <i>nvmet_rdma_remove_one</i> may occur.
	<b>Keywords:</b> NVMeoF, mlx5, call trace
	<b>Discovered in Release:</b> 4.3-1.0.1.0
	<b>Fixed in Release:</b> 4.4-1.0.1.0
1247458	<b>Description:</b> Added support for VLAN Tag (VST) creation on RedHat v7.4 with new iproute2 packages (iptool).
	<b>Keywords:</b> SR-IOV, VST, RedHat
	<b>Discovered in Release:</b> 4.2-1.2.0.0
	<b>Fixed in Release:</b> 4.3-1.0.1.0
1229554	<b>Description:</b> Enabled RDMA CM to honor incoming requests coming from ports of different devices.
	<b>Keywords:</b> RDMA CM
	<b>Discovered in Release:</b> 4.2-1.0.0.0
	<b>Fixed in Release:</b> 4.3-1.0.1.0
1262257	<b>Description:</b> Fixed an issue where sending Work Requests (WRs) with multiple entries where the first entry is less than 18 bytes used to fail.
	<b>Keywords:</b> ConnectX-5, libibverbs, Raw QP
	<b>Discovered in Release:</b> 4.2-1.2.0.0
	<b>Fixed in Release:</b> 4.3-1.0.1.0
1249358/1261023	<b>Description:</b> Fixed the issue of when the interface was down, ethtool counters ceased to increase. As a result, RoCE traffic counters were not always counted.
	<b>Keywords:</b> Ethtool counters, mlx5
	<b>Discovered in Release:</b> 4.2-1.2.0.0
	<b>Fixed in Release:</b> 4.3-1.0.1.0

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1244509	<b>Description:</b> Fixed compilation errors of MLNX_EN over kernel when CONFIG_PTP_1588_CLOCK parameter was not set.
	<b>Keywords:</b> PTP, mlx5e
	<b>Discovered in Release:</b> 4.2-1.2.0.0
	<b>Fixed in Release:</b> 4.3-1.0.1.0
1266802	<b>Description:</b> Fixed an issue where the system used to hang when trying to allocate multiple device memory buffers from different processes simultaneously.
	<b>Keywords:</b> Device memory programming
	<b>Discovered in Release:</b> 4.2-1.0.0.0
	<b>Fixed in Release:</b> 4.3-1.0.1.0
1078887	<b>Description:</b> Fixed an issue where post_list and CQ_mod features in perftest did not function when running the <i>--run_infinitely</i> flag.
	<b>Keywords:</b> perftest, --run_infinitely
	<b>Discovered in Release:</b> 4.2-1.0.1.0
	<b>Fixed in Release:</b> 4.2-1.2.0.0
1186260	<b>Description:</b> Fixed the issue where CNP counters exposed under /sys/class/infiniband/mlx5_bond_0/ports/1/hw_counters/ did not aggregate both physical functions when working in RoCE LAG mode.
	<b>Keywords:</b> RoCE, LAG, ECN, Congestion Counters
	<b>Discovered in Release:</b> 4.2-1.0.1.0
	<b>Fixed in Release:</b> 4.2-1.2.0.0
1192374	<b>Description:</b> Fixed wrong calculation of <i>max_device_ctx</i> capability in ConnectX-4, and ConnectX-5 HCAs.
	<b>Keywords:</b> ibv_exp_query_device, max_device_ctx mlx5
	<b>Discovered in Release:</b> 4.2-1.0.1.0
	<b>Fixed in Release:</b> 4.2-1.2.0.0

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1084791	<b>Description:</b> Fixed the issue where occasionally, after reboot, rpm commands used to fail and create a core file, with messages such as "Bus error (core dumped)", causing the openibd service to fail to start.
	<b>Keywords:</b> rpm, openibd
	<b>Discovered in Release:</b> 3.4-2.0.0.0
	<b>Fixed in Release:</b> 4.2-1.0.1.0
960642/960653	<b>Description:</b> Added support for <i>min_tx_rate</i> and <i>max_tx_rate</i> limit per virtual function ConnectX-5 and ConnectX-5 Ex adapter cards.
	<b>Keywords:</b> SR-IOV, mlx5
	<b>Discovered in Release:</b> 4.0-1.0.1.0
	<b>Fixed in Release:</b> 4.2-1.0.1.0
866072/869183	<b>Description:</b> Fixed the issue where RoCE v2 multicast traffic using RDMA-CM with IPv4 address was not received.
	<b>Keywords:</b> RoCE
	<b>Discovered in Release:</b> 3.4-1.0.0.0
	<b>Fixed in Release:</b> 4.2-1.0.1.0
1163835	<b>Description:</b> Fixed an issue where <i>ethtool -P</i> output was 00:00:00:00:00:00 when using old kernels.
	<b>Keywords:</b> ethtool, Permanent MAC address, mlx5
	<b>Discovered in Release:</b> 4.0-2.0.0.1
	<b>Fixed in Release:</b> 4.2-1.0.1.0
1067158	<b>Description:</b> Replaced a few "GPL only" legacy libibverbs functions with upstream implementation that conforms with libibverbs GPL/BSD dual license model.
	<b>Keywords:</b> libibverbs, license
	<b>Discovered in Release:</b> 4.1-1.0.2.0
	<b>Fixed in Release:</b> 4.2-1.0.1.0

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1119377	<p><b>Description:</b> Fixed an issue where ACCESS_REG command failure used to appear upon RoCE Multihost driver restart in dmesg. Such an error message looked as follows:  <i>mlx5_core 0000:01:00.0: mlx5_cmd_check:705:(pid 20037): ACCESS_REG(0x805) op_mod(0x0) failed, status bad parameter(0x3), syndrome (0x15c356)</i></p> <p><b>Keywords:</b> RoCE, multihost, mlx5</p> <p><b>Discovered in Release:</b> 4.1-1.0.2.0</p> <p><b>Fixed in Release:</b> 4.2-1.0.1.0</p>
1122937	<p><b>Description:</b> Fixed an issue where concurrent client requests got corrupted when working in persistent server mode due to a race condition on the server side.</p> <p><b>Keywords:</b> librdmacm, rping</p> <p><b>Discovered in Release:</b> 4.1-1.0.2.0</p> <p><b>Fixed in Release:</b> 4.2-1.0.1.0</p>
1102158	<p><b>Description:</b> Fixed an issue where client side did not exit gracefully in RTT mode when the server side was not reachable.</p> <p><b>Keywords:</b> librdmacm, rping</p> <p><b>Discovered in Release:</b> 4.1-1.0.2.0</p> <p><b>Fixed in Release:</b> 4.2-1.0.1.0</p>
1038933	<p><b>Description:</b> Fixed a backport issue where IPv6 procedures were called while they were not supported in the underlying kernel.</p> <p><b>Keywords:</b> iw_cm</p> <p><b>Discovered in Release:</b> 4.0-2.0.0.1</p> <p><b>Fixed in Release:</b> 4.1-1.0.2.0</p>
1064722	<p><b>Description:</b> Added log debug prints when changing HW configuration via DCB. To enable log debug prints, run: <i>ethtool -s &lt;devname&gt; msglvl hw on/off</i></p>

Internal Reference Number	Issue
	<b>Keywords:</b> DCB, msglvl
	<b>Discovered in Release:</b> 4.0-2.0.0.1
	<b>Fixed in Release:</b> 4.1-1.0.2.0
1047617	<b>Description:</b> Fixed the issue where a race condition in the RoCE GID cache used to cause for the loss of IP-based GIDs.
	<b>Keywords:</b> RoCE, GID
	<b>Discovered in Release:</b> 4.0-2.0.0.1
	<b>Fixed in Release:</b> 4.1-1.0.2.0
1006768	<b>Description:</b> Fixed the issue where an rdma_cm connection between a client and a server that were on the same host was not possible when working over VLAN interfaces.
	<b>Keywords:</b> RDMACM
	<b>Discovered in Release:</b> 4.0-2.0.0.1
	<b>Fixed in Release:</b> 4.1-1.0.2.0
801807	<b>Description:</b> Fixed an issue where RDMACM connection used to fail upon high connection rate accompanied with the error message: <i>RDMA_CM_EVENT_UNREACHABLE</i> .
	<b>Keywords:</b> RDMACM
	<b>Discovered in Release:</b> 3.0-2.0.1
	<b>Fixed in Release:</b> 4.1-1.0.2.0
869768	<b>Description:</b> Fixed the issue where SR-IOV was not supported in systems with a page size greater than 16KB.
	<b>Keywords:</b> SR-IOV, mlx5, PPC
	<b>Discovered in Release:</b> 4.0-2.0.0.1
	<b>Fixed in Release:</b> 4.1-1.0.2.0
919545	<b>Description:</b> Fixed the issue of when the Kernel becomes out of memory upon driver start, it could crash on SLES 12 SP2.

Internal Reference Number	Issue
	<b>Keywords:</b> mlx_5 Eth Driver
	<b>Discovered in Release:</b> 3.4-2.0.0.0
	<b>Fixed in Release:</b> 4.0-2.0.0.1
869209	<b>Description:</b> Fixed an issue that caused TCP packets to be received in an out of order manner when Large Receive Offload (LRO) is on.
	<b>Keywords:</b> mlx5_en
	<b>Discovered in Release:</b> 3.3-1.0.0.0
	<b>Fixed in Release:</b> 4.0-2.0.0.1
890285	<b>Description:</b> Fixed the issue where memory allocation for CQ buffers used to fail when increasing the RX ring size.
	<b>Keywords:</b> mlx5_core
	<b>Discovered in Release:</b> 3.4-1.0.0.0
	<b>Fixed in Release:</b> 4.0-1.0.1.0
867094	<b>Description:</b> Fixed the issue where MLNX_EN used to fail to load on 4K page Arm architecture.
	<b>Keywords:</b> Arm
	<b>Discovered in Release:</b> 3.4-1.0.0.0
	<b>Fixed in Release:</b> 4.0-1.0.1.0

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