



# ConnectX-3 Firmware Archived Bug Fixes

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Mellanox Technologies  
350 Oakmead Parkway Suite 100  
Sunnyvale, CA 94085  
U.S.A.  
www.mellanox.com  
Tel: (408) 970-3400  
Fax: (408) 970-3403

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# 1 Archived Bug Fixes

The following table describes archived bug fixes in ConnectX-3 firmware releases up to version 2.36.5150.

**Table 1 - Fixed Bugs List (Sheet 1 of 17)**

| Index | Issue                   | Description  | Discovered in Release | Fixed in Release |
|-------|-------------------------|--|-----------------------|------------------|
| 1.    | Comm Channel            | <b>RM#763946:</b> Fixed a wrong timeout calculation in get_irpc_response   | 2.36.5000             | 2.36.5150        |
| 2.    | SR-IOV                  | <b>RM#827921:</b> Fixed an issue which caused the firmware to unconditionally set the subnet prefix in the gid0 mgid_Table to the default prefix, and not according to the configured subnet prefix. | 2.36.5000             | 2.36.5150        |
| 3.    | ECN                     | <b>RM#465451:</b> Fixed a completion error issue when ECN was enabled. The ECN usage caused ordering errors in completion queues (CQ).   | 2.33.5000             | 2.36.5000        |
| 4.    |                         | <b>RM#648800:</b> Fixed the length calculation of UDP. The incorrect UDP length in the CNP packet caused miss-calculation of the ICRC.   | 2.35.5100             | 2.36.5000        |
| 5.    | Cable Info MAD          | <b>RM#636203:</b> Fixed a wrong returned status in cable info MAD when the cable was not connected.  | 2.35.5100             | 2.36.5000        |
| 6.    | FLR device reset        | <b>RM#669201:</b> Fixed failure instances when initiating FLR in the Physical Function.  | 2.35.5100             | 2.36.5000        |
| 7.    | High rate steering mode | <b>RM#637490:</b> Disabled High Rate Steering mode in the INI to enable its compatibility with NC-SI over VLAN.  | 2.32.5100             | 2.36.5000        |
| 8.    | RDP over IPv4           | <b>RM#563136:</b> Fixed a default hardware configuration issue which caused RDP over IPv4 traffic to be dropped.   | 2.30.8000             | 2.35.5100        |
| 9.    | SR-IOV security         | <b>RM#592507:</b> Prevented a Virtual Function from injecting pause frames into the network.   | 2.30.8000             | 2.35.5100        |
| 10.   | PRM:SET_PORT.mac_table  | <b>RM#535924:</b> Fixed a wrong hash index calculation during inbound traffic.   | 2.33.5100             | 2.35.5100        |
| 11.   | RDP over IPv4           | <b>RM#563136:</b> Fixed a default hardware configuration issue which caused RDP over IPv4 traffic to be dropped.   | 2.30.8000             | 2.35.5100        |
| 12.   | NC-SI                   | <b>RM#592428:</b> Fixed an issue causing MLNX_OEM command GET_TEMP to return a wrong value in the max_temp field   | 2.34.5000             | 2.35.5100        |

**Table 1 - Fixed Bugs List (Sheet 2 of 17)**

| Index | Issue                       | Description   | Discovered in Release | Fixed in Release |
|-------|-----------------------------|---|-----------------------|------------------|
| 13.   | MTU exceptions              | <b>RM#556872:</b> Fixed an issue which caused TX traffic to stop when the message MTU size was larger than QP.mtu.  | 2.32.5100             | 2.35.5100        |
| 14.   | NVCONFIG failure            | <b>RM#554066:</b> Fixed an issue which caused NVCONFIG to fail when the number of sector was set to 1 and the sector was zeroed.  | 2.34.5000             | 2.35.5100        |
| 15.   | IB/RoCE retransmission      | <b>RM#551732:</b> Fixed a race in handling a duplicated “read request from middle”.   | 2.34.5000             | 2.35.5100        |
| 16.   | IB traffic issues           | <b>RM#549153:</b> Fixed an issue which caused lack of IB traffic on SR-IOV VPI.   | 2.33.5000             | 2.35.5100        |
| 17.   | NVRAM issues                | <b>RM#548168:</b> Fixed an issue which caused NVRAM to get stuck when it filled non-valid information in TLV.   | 2.34.5000             | 2.35.5100        |
| 18.   | IB APM                      | <b>RM#541877:</b> Fixed an issue which caused an internal firmware error when APM changed the QPs port mapping.   | 2.33.5100             | 2.35.5100        |
| 19.   | QP alternate context error  | <b>RM#589609:</b> Fixed an issue which caused a firmware internal error when handling QP alternative context.   | 2.34.5000             | 2.35.5100        |
| 20.   | Flow Control security issue | <b>RM#431315:</b> Fixed an issue which caused packet transmission to get stuck when the software tried to send pause frames with dmac equal to one of the device's MAC addresses. | 2.32.5100             | 2.35.5100        |
| 21.   | Wrong temperature reporting | RM#577076 Wrong temperature reporting when server is in Auxiliary mode after Moonshot AC power cycle.   | 2.34.5000             | 2.35.5100        |
| 22.   | Link down on MCX-349A-XCCN  | RM#441539 Fixed a link down issue with 100MbaseT speed.   | 2.33.5100             | 2.34.5000        |
| 23.   | Packet Ethertype            | RM#434267 Fixed a mistakenly dropped ETH packet with ethertype 0x600 by the NIC.  | 2.30.8000             | 2.34.5000        |
| 24.   | Broadcast traffic lost      | RM#536791 Fixed a case preventing broadcast traffic from arriving to their destination after detaching high priority broadcast rule on a port where NC-SI was enabled.            | 2.33.5100             | 2.34.5000        |
| 25.   | Low link speed              | RM#516446 Fixed an issue where the port raised as SDR vs. InfiniScale IV QDR Switch   | 2.33.5100             | 2.34.5000        |

**Table 1 - Fixed Bugs List (Sheet 3 of 17)**

| Index | Issue                                | Description   | Discovered in Release | Fixed in Release |
|-------|--------------------------------------|---|-----------------------|------------------|
| 26.   | 40GbE Link down                      | RM#509713 Fixed a failure to read cable parameter which caused link failure on 40GbE dual port OCP devices.                       | 2.33.5100             | 2.34.5000        |
| 27.   | RDMA read retransmission             | RM#517941 Fixed a rare case of completion Error with Bad Opcode sequence status which occurred when retransmitting read requests. | 2.33.5100             | 2.34.5000        |
| 28.   | VM QoS                               | RM#523786 Fixed a case where the actual bandwidth did not match the user settings in VM QoS.                                      | 2.33.5100             | 2.34.5000        |
| 29.   | Sideband communication loss          | RM#517351 Fixed a case where on rare cases, communication to BMC was lost during driver initialization.                           | 2.33.5100             | 2.34.5000        |
| 30.   | LED behavior                         | RM#492430 Fixed a wrong LED behavior when the driver is disabled in the following adapter cards: MCX346A-BCQN, MCX-345A-BCQN.     | 2.33.5100             | 2.34.5000        |
| 31.   | Link down on cable plugging          | RM#510935 Fixed an issue with cable reading, which caused the link not to raise   | 2.33.5100             | 2.34.5000        |
| 32.   | PRM: EQN range                       | RM#501749 Set the maximum EQN number to 1024.   | 2.30.8000             | 2.34.5000        |
| 33.   | Vital Product Data read failure      | RM#514720 Fixed a rare issue with VPD init flow which caused read failures.   | 2.31.5050             | 2.34.5000        |
| 34.   | PRM: Statistic counters not reported | RM#519904 Fixed an issue with RX size counter not being reported.   | 2.30.8000             | 2.34.5000        |
| 35.   | RoCE/InfiniBand reliable connection  | RM#486082 The first Read response was not treated as implicit ACK.  | 2.30.8000             | 2.33.5100        |
| 36.   | 40GbE Link up time                   | RM#461970 Reduced a long 40GbE link up time with Cisco Nexus3064 and Arista-7050S   | 2.32.5100             | 2.33.5100        |
| 37.   | Promiscuous mode                     | Fixed promiscuous mode compatibility with A0-DMFS steering.   | 2.32.5100             | 2.33.5000        |
| 38.   |                                      | RM#433344 Fixed promiscuous mode compatibility when NC-SI is enabled and configured.  | 2.32.5100             | 2.33.5000        |
| 39.   | NC-SI OEM commands                   | RM#480037 Fixed sending/receiving OEM temp commands (set/get) with channel ID 0x1f failure.                                       | 2.32.5100             | 2.33.5000        |
| 40.   | Packet Drops                         | RM#463613 Fixed an issue which caused packets to drop on a port when changing the interface state of the other port.              | 2.32.5100             | 2.33.5000        |

**Table 1 - Fixed Bugs List (Sheet 4 of 17)**

| Index | Issue                                 | Description  | Discovered in Release | Fixed in Release |
|-------|---------------------------------------|--|-----------------------|------------------|
| 41.   | Side Band Functionality               | RM#462058 Fixed long management communication loss and SOL hang during reboot cycles.  | 2.32.5100             | 2.33.5000        |
| 42.   |                                       | RM#408615 Fixed wrong processing of inbound traffic towards BMC which caused communication loss.                                 | 2.32.5100             | 2.33.5000        |
| 43.   |                                       | RM#431178 Fixed management link loss upon closing port interface through the driver.   | 2.32.5100             | 2.33.5000        |
| 44.   | NC-SI on SFP+ Adapter Cards           | RM#466306/468870 Fixed a false indication in firmware of an expander presence causing delay in EEPROM reading.                   | 2.32.5100             | 2.33.5000        |
| 45.   | Port Links                            | RM#423472 Fixed an issue which caused a link down on a port when the cable was removed from the other port.                      | 2.32.5100             | 2.33.5000        |
| 46.   | Inbound Packet Processing             | RM#457685 Fixed a rare case where packet with length zero got stuck in hardware queues.  | 2.32.5100             | 2.33.5000        |
| 47.   |                                       | RM#431123 Fixed an issue which caused InfiniBand congestion control packet (CNP) to hang in hardware.                            | 2.32.5100             | 2.33.5000        |
| 48.   | Asynchronous Event Notification (AEN) | RM#418910 Fixed an issue which caused AEN to be sent after channel reset.  | 2.32.5100             | 2.33.5000        |
| 49.   | Bandwidth Degradation with QoS        | RM#409894 Fixed an issue which prevented the restoring of QoS setting to its default consequently causing bandwidth degradation. | 2.31.5050             | 2.33.5000        |
| 50.   | Port Link Up Time                     | RM#409894 Fixed an occasional long link up time with 10GbE based devices.  | 2.32.5100             | 2.33.5000        |
| 51.   | SFP Cable Reading                     | RM#438000 Fixed an issue preventing cable readings from i2c slave address 0x51   | 2.32.5100             | 2.33.5000        |
| 52.   | PCIe Gen3 Equalization                | RM#429495 Fixed a wrong parity bit calculation when transmitting PCIe TS1 packets.   | 2.32.5100             | 2.33.5000        |
| 53.   | PCIe Power Management                 | RM#400184 Fixed a possible deadlock in PM turnoff request transmission and ack acceptance flow.                                  | 2.32.5100             | 2.33.5000        |
| 54.   | PCIe width Degrade                    | RM#414914 Fixed a rare case with alignments state machines which caused occasional width degradation.                            | 2.32.5100             | 2.33.5000        |



**Table 1 - Fixed Bugs List (Sheet 5 of 17)**

| Index | Issue   | Description   | Discovered in Release | Fixed in Release |
|-------|---|---|-----------------------|------------------|
| 55.   | Rate Limiters Hang with ECN/QCN Enabled         | RM#397967 Fixed an issue where the transmit queues hanged while congestion control was enabled and operational (EQC/QCN)                            | 2.32.5100             | 2.33.5000        |
| 56.   | Unexpected Completion Syndrome with Status 0x77 | RM#425700 Fixed an unexpected work completion syndrome with vendor syndrome 0x77 received when running RDMA SEN/WRITE traffic with retransmissions. | 2.30.8000             | 2.33.5000        |
| 57.   | IB Spec MADs                                    | RM#432155 Fixed an issue which caused <code>SetPortInfo</code> to return a good status when receiving invalid <code>LinkSpeedEnabled</code> value.  | 2.32.5100             | 2.33.5000        |
| 58.   | GPIO Mapping                                    | RM#468870 Fixed an issue which caused dual port SFPP module cards to be automatically mapped with expander  | 2.32.5100             | 2.33.5000        |
| 59.   | Steering Mode                                   | Fixed an issue where firmware overrides the steering mode that was chosen by the driver.  | 2.32.5100             | 2.33.5000        |
| 60.   | Port sensing                                    | RM#463615 Fixed invalid return sensing results occurred when the link was up.   | 2.32.5100             | 2.33.5000        |
| 61.   |   | RM#429579 Fixed an issue causing the sensing result to be delayed when cable was unplugged.   | 2.32.5100             | 2.33.5000        |
| 62.   | Wrong link type display                         | RM#417741 Fixed an issue causing the link type to be displayed as ETH when set to AUTO.   | 2.32.5100             | 2.33.5000        |
| 63.   | IBDump performance                              | Fixed performance degradation when running IBDump   | 2.30.8000             | 2.32.5100        |
| 64.   | PCIe link Disable/Enable                        | RM#416928 Occasionally, a link training timeout occurred in EQ phase0 during disable/enable test.   | 2.31.5050             | 2.32.5100        |
| 65.   | 40GbE QoS                                       | Improved strict bandwidth mode functionality  | 2.30.8000             | 2.32.5100        |
| 66.   | Port Counters reporting                         | RM#417689/RM#417604 Fixed an issue with the <code>PortRcvPkts</code> counter always displaying zero value.  | 2.31.5050             | 2.32.5100        |
| 67.   | GMP MADs in SecureHost                          | RM#418175 Fixed an issue with processing GMP MADs with SET method in SecureHost mode.   | 2.31.5050             | 2.32.5100        |
| 68.   | NC-SI over IPv6                                 | RM#417195 Fixed an issue causing a wrong usage of MCG size when configuring Global Multicast filter   | 2.31.5050             | 2.32.5100        |

**Table 1 - Fixed Bugs List (Sheet 6 of 17)**

| Index | Issue                     | Description   | Discovered in Release | Fixed in Release |
|-------|---------------------------|---|-----------------------|------------------|
| 69.   | NC SI link failure        | RM#396165Disabling the first port occasionally causes second port TX failure.   | 2.31.5050             | 2.32.5100        |
| 70.   | 10GbE link failure        | RM#389541Fixed a mismatch in links status reported. The adapter reports links as down while the switch perceives them as up | 2.31.5050             | 2.32.5100        |
| 71.   | Link failure              | RM#392288Fixed an occasional 40GbE link failure with SCM5 Switch blade  | 2.31.5050             | 2.32.5100        |
| 72.   | ExtPortInfo MAD           | RM#392199Fixed a wrong FDR10 speed reporting in MAD   | 2.31.5050             | 2.32.5100        |
| 73.   | IB link failure           | RM#397903Fixed an issue preventing theports to to rise up when set to FDR10 vs QDR  | 2.31.5050             | 2.32.5100        |
| 74.   | 40GbE link failure        | RM#388327Fixed an occasional link failure vs Arista switch  | 2.31.5050             | 2.32.5100        |
| 75.   | RDMA Write retransmission | RM#412450Retransmission started from the first PSN of message instead of the last acknowledged PSN                          | 2.30.3200             | 2.32.5100        |
| 76.   | Firmware burning          | RM#401399Firmware hangs when receiving GeneralInfoMad during inline firmware burning  | 2.30.3200             | 2.32.5100        |
| 77.   | PCIe PML1                 | RM#399366,387863L1 flow adjustments and threshold tuning  | 2.31.5050             | 2.32.5100        |
| 78.   | PCIe reset                | RM#398004Fixed a rare hanging issue during PERST_ assertion   | 2.31.5050             | 2.32.5100        |
| 79.   | PCIe Gen3 EQ              | RM#392933Wrong coefficients were reported during phase3   | 2.31.5050             | 2.32.5100        |
| 80.   | Boot                      | Fixed an issue causing wrong behavior due to reset timing   | 2.31.5050             | 2.32.5100        |
| 81.   | SMBUS                     | RM#409011Fixed long timeout issues  | 2.31.5050             | 2.32.5100        |
| 82.   | NVRAM                     | RM#409998Fixed NVRAM write issues in driver-less mode   | 2.31.5050             | 2.32.5100        |
| 83.   | 40GbE Link support        | RM#408020Fixed 40GbE link support in aux mode   | 2.31.5050             | 2.32.5100        |
| 84.   | NC-SI                     | RM#408414Dropped commands with non-existing channel ID  | 2.31.5050             | 2.32.5100        |
| 85.   | PRM PortInfo command      | RM#394311/408483Fixed issues in extended speed reporting  | 2.31.5050             | 2.32.5100        |
| 86.   | Trap 257/8(IB)            | RM#403705Fixed bad QP reporting in trap 257/8   | 2.30.8000             | 2.32.5100        |

**Table 1 - Fixed Bugs List (Sheet 7 of 17)**

| Index | Issue                                   | Description  | Discovered in Release | Fixed in Release |
|-------|---|--|-----------------------|------------------|
| 87.   | Bad Q_KEY errors                        | RM#402793Fixed an issue causing false bad q_key error messages   | 2.30.8000             | 2.32.5100        |
| 88.   | PFC                                     | RM#404640Fixed Pause Frame opcode mismatch   | 2.30.8000             | 2.32.5100        |
| 89.   | Sideband Communication                  | RM#400883Fixed communication loss upon PCIe error detection  | 2.31.5050             | 2.32.5100        |
| 90.   | NC-SI                                   | RM#348276Fixed wrong channel value in the SELECT/DESELECT PACKAGE commands   | 2.30.8000             | 2.31.5050        |
| 91.   |   | RM#355833Fixed an issue caused response packet to include 4 extra bytes  | 2.30.8000             | 2.31.5050        |
| 92.   |   | RM#352300Fixed wrong reason code value returned when using Set Link command with unsupported speed.                      | 2.30.8000             | 2.31.5050        |
| 93.   |   | RM#372909Added protection from bad MAC address given by BMC  | 2.30.8000             | 2.31.5050        |
| 94.   | False Link Indication                   | Fixed an issue causing the device to report false link up when no cable is connected.                                    | 2.30.8000             | 2.31.5050        |
| 95.   | PCIe                                    | RM#333854Removed false TX pulse after PERST_de-assertion   | 2.30.8000             | 2.31.5050        |
| 96.   |   | RM#347082Fixed FLR capability bit inconsistency when SR-IOV is enabled.  | 2.30.3200             | 2.31.5050        |
| 97.   |   | RM#126811Fixed an issue with the device not reporting PCIe related errors.   | 2.30.8000             | 2.31.5050        |
| 98.   | SDR instead of DDR ConnectX-3 to SX6036 | RM#360360When a link is configured to DDR in a setup of ConnectX-3 to SX6036, SDR link is established instead.           | 2.30.8000             | 2.31.5050        |
| 99.   | VXLAN                                   | VXLAN used the wrong default UDP port. the UDP port number was changed to 4789.  | 2.30.8000             | 2.31.5050        |
| 100.  |   | RM#383099Fixed wrong setting of the UDP destination port for VXLAN.  | 2.30.8000             | 2.31.5050        |
| 101.  | Flow Steering                           | Fixed an internal error caused when moving to the DMS mode with IPMI/NC-SI enabled.                                      | 2.30.8000             | 2.31.5050        |
| 102.  | FDR speed degradation with 0.5m cables  | In a back-to-back setup of FDR cards connected with a 0.5m FDR cable, a link may be established as FDR10 instead of FDR. | 2.30.3200             | 2.31.5050        |
| 103.  | PCI interrupt                           | Fixed issues related to working with PCI legacy interrupts.  | 2.30.8000             | 2.31.5050        |

**Table 1 - Fixed Bugs List (Sheet 8 of 17)**

| Index | Issue                               | Description  | Discovered in Release | Fixed in Release |
|-------|-------------------------------------|--|-----------------------|------------------|
| 104.  | TCP/UDP Checksum                    | Fixed wrong checksum calculation for short packets which were padded by the software.  | 2.30.8000             | 2.31.5050        |
| 105.  | MFT tool deadlock                   | RM#371530Reading PCIe configuration space after using the MFT flint tool caused the device to crash.   | 2.10.0000             | 2.31.5050        |
| 106.  | Side band packet loss               | RM#378750Fixed occasional packet loss over IPMI  | 2.30.8000             | 2.31.5050        |
| 107.  | Eye opening MAD                     | RM#378178Fixed wrong values reported in the Eye opening MAD.   | 2.30.8000             | 2.31.5050        |
| 108.  | PCIe Link width                     | RM#372794/383729Fixed occasional link width degrades during link negotiation and link transitions from L1 state.   | 2.30.8000             | 2.31.5050        |
| 109.  | PCIe signal detect                  | RM#372794Fixed adjust signal detect thresholds   | 2.30.8000             | 2.31.5050        |
| 110.  | Error counters                      | RM#354360PortExtendedSpeedsCounters MAD counters were mistakenly increased while LLR was active  | 2.30.8000             | 2.31.5050        |
| 111.  | PCIe Gen3 Equalization              | RM#354125Lane reversal was not considered when configured TX parameters  | 2.30.8000             | 2.31.5050        |
| 112.  | Reset On LAN (ROL)                  | RM#359319Fixed ROL factory MAC usage when a FlexBoot address was given.  | 2.30.8000             | 2.31.5050        |
| 113.  | Flow Control                        | RM#359354Fixed Pause frames factory MAC usage when a FlexBoot address was given.   | 2.30.3200             | 2.31.5050        |
| 114.  | WOL/ROL                             | RM#336331The device did not differ between WOL/ROL packets.  | 2.30.8000             | 2.31.5050        |
| 115.  | PortInfo MAD                        | RM#13401Fixed a set of extended fields in PortInfo MAD which did not function.   | 2.10.0000             | 2.31.5050        |
| 116.  | LLR cell size                       | RM#342184Adjusted LLR cell size according to the MLPN negotiation of ib_128b_llr   | 2.30.8000             | 2.31.5050        |
| 117.  | Link max speed                      | RM#367756The max speed restriction was active in full power mode instead of standby mode only.   | 2.30.8000             | 2.31.5050        |
| 118.  | InfiniBand Automatic Path Migration | RM#362812The InfiniBand Path migration did not work with GRH.<br><a href="http://webdev01:8080/commit/ConnectX.git/a9c37ee4c31038f2c1179d4d9e79c9337e0ab5c7">http://webdev01:8080/commit/ConnectX.git/a9c37ee4c31038f2c1179d4d9e79c9337e0ab5c7</a> | 2.10.0000             | 2.31.5050        |
| 119.  | Packet steering                     | RM#362468Reading MGM after writing it returned wrong members count.  | 2.30.8000             | 2.31.5050        |

**Table 1 - Fixed Bugs List (Sheet 9 of 17)**

| Index | Issue  | Description  | Discovered in Release | Fixed in Release |
|-------|--|--|-----------------------|------------------|
| 120.  | RSS QP context   | RM#372480Fixed corruption of the RSS hash key given by the driver.   | 2.30.8000             | 2.31.5050        |
| 121.  | 10Gb/s QoS   | RM#193130Fixed QoS rate limit bandwidth offset.  | 2.30.3200             | 2.31.5050        |
| 122.  | ExtendedPortInfo MAD   | RM#365884Fixed FDR10 speed_en reporting.   | 2.30.8000             | 2.31.5050        |
| 123.  | Management link  | RM#354487Fixed long management link com loss.  | 2.30.8000             | 2.31.5050        |
| 124.  | PRM Query_Port Command   | RM#358772The command results reported both link types active at the same time.   | 2.30.3200             | 2.31.5050        |
| 125.  | Link not raising   | RM#376157Fixed collision between forcing phy type and port sensing.  | 2.30.8000             | 2.31.5050        |
| 126.  | Core clock reporting   | RM#372353Fixed a wrong core clock freq reporting in QUERY_HCA command.   | 2.30.3200             | 2.31.5050        |
| 127.  | 56GbE link issues  | RM#379940Fixeds occasional link failure when 56GbE is enabled  | 2.30.8000             | 2.31.5050        |
| 128.  | RX calibration   | RM#359331Fixed max eye margins to be per protocol.   | 2.30.8000             | 2.31.5050        |
| 129.  | VPI symbol errors  | RM#354443perfquery reported wrong error symbol on ConnectX <sup>®</sup> -3 VPI mode: IB, ETH.                            | 2.30.8000             | 2.31.5050        |
| 130.  | Symbol error on ConnectX-3 dual-port QDR with MC2207312-030 AOCs                 | RM#197609On ConnectX-3dual-port QDR and FDR/FDR10 switch setups, symbol errors may occur with MC2207312-030 AOCs.        | 2.30.8000             | 2.31.5050        |
| 131.  | Symbol error on Falcon QDR against FDR switches with MC2207126-004 copper cables | RM#197612Symbol errors occur on ConnectX-3dual-port QDR connected to FDR switches with MC2207126-004 copper cables.      | 2.30.8000             | 2.31.5050        |
| 132.  | PCIe correctable errors in speed change  | When PCIe Gen3 is enabled, temporary correctable errors might occur when changing speed between PCIe Gen1 and PCIe Gen2. | 2.10.0000             | 2.30.8000        |
| 133.  | Incompatibility between Device managed Flow steering and NC-SI                   | Device managed Flow steering and NC-SI cannot be enabled simultaneously.   | 2.11.0500             | 2.30.8000        |
| 134.  | 40GbE is not supported in Auto-Sensing   | Auto-Sensing is not supported with 40GbE connections in VPI cards  | 2.10.0000             | 2.30.8000        |

**Table 1 - Fixed Bugs List (Sheet 10 of 17)**

| Index | Issue                                     | Description  | Discovered in Release | Fixed in Release    |
|-------|---|--|-----------------------|---------------------|
| 135.  | InfiniBand port_rcv_pkts counter          | RM#219993InfiniBand port_rcv_pkts counter over counts when LLR is enabled on the port.<br>The port_rcv_pkts counter continues to count packets even when no traffic is received. | 2.10.0000             | 2.30.8000           |
| 136.  | PXE                                       | PXE is currently not supported in 40GbE in VPI cards   | 2.10.0000             | 2.30.8000           |
| 137.  |   | PXE is currently not supported in QSFP to SFP+ hybrid cable  | 2.10.0000             | 2.30.8000           |
| 138.  | sense_port failure                        | Ethernet cards failed to work with MLNX_OFED unless the do_sense was disabled in the INI   | RH6.4 driver          | MLNX_OFED 2.0-3.0.0 |
| 139.  | Link errors                               | RM#348501BER of 10 <sup>-11</sup> with 7M copper SFP+ 10GbE cable against Arista switch  | 2.30.3200             | 2.30.8000           |
| 140.  | Linkup Failure vs SwitchX®-2 based switch | RM#350852Port failed to link up in 10GbE if it was previously linked up in 40GbE vs. SwitchX®-2 based switch   | 2.30.3200             | 2.30.8000           |
| 141.  | NC-SI 40GbE reporting                     | RM#197996Added 40GbE reporting in get_link_status NC-SI command  | 2.30.3000             | 2.30.8000           |
| 142.  | Packets drop in receive when DMFS enabled | RM#292045Steering entries overlapping caused packets to drop in the receive due to wrong hash size calculation of QP hash folding.   | 2.30.3000             | 2.30.8000           |
| 143.  | PCIe speed degrade                        | RM#207866Occasionally, PCIe speed degraded during speed change test  | 2.30.3000             | 2.30.8000           |
| 144.  | Link failure vs Cisco                     | RM#301956Device failed to raise the link against Cisco b-22 Blade switch   | 2.30.3000             | 2.30.8000           |
| 145.  | False RX drops indication                 | RM#301956Fixed an issue causing RX drop counters to falsely increase when using MLNX_OFED 2.0.-3.0.0   | 2.30.3000             | 2.30.8000           |
| 146.  | NC-SI wrong command info                  | RM#307087Wrong port information provided in get link status command.   | 2.30.3000             | 2.30.8000           |
| 147.  | Port interfaces stay down                 | RM#303426After firmware upgrade, the device failed to raise port interface.  | 2.30.3000             | 2.30.8000           |
| 148.  | SR-IOV guest failure                      | RM#270160Guest VM failed to execute firmware commands operations and crashed.  | 2.30.3000             | 2.30.8000           |
| 149.  | ConnectX®-3 Pro: MCG write timeout        | RM#294397PRM WRITE_MCG command caused the device to hang.  | 2.30.3000             | 2.30.8000           |

**Table 1 - Fixed Bugs List (Sheet 11 of 17)**

| Index | Issue                                 | Description  | Discovered in Release | Fixed in Release |
|-------|---------------------------------------|--|-----------------------|------------------|
| 150.  | ConnectX®-3 Pro: Driver start failure | RM#322721 Driver could not start when NIC was configured for NC-SI SNP.  | 2.30.3000             | 2.30.8000        |
| 151.  | SR-IOV command timeouts               | RM#326715 Guest MSIX vectors were not assigned properly.   | 2.30.3000             | 2.30.8000        |
| 152.  | PCIe speed degrade/link down          | RM#299251 Occasionally, the PCIe link experienced speed degrading or link falling in driver restart/reboot     | 2.30.3000             | 2.30.8000        |
| 153.  | QP Sniffer issue                      | Fixed a hash fold issue for sniffer QPs  | 2.30.3000             | 2.30.8000        |
| 154.  | Long link up time                     | RM #216687 A long link up time is experienced in the HCA connected to a 10GbE cable against the MSX1012 switch | 2.30.3000             | 2.30.8000        |
| 155.  | PCIe TS parity bit                    | RM#213219/208709 In recovery.EQLZ state TSs used incorrect parity bit calculation                              | 2.30.3000             | 2.30.8000        |
| 156.  | PRM Init_port failure                 | RM#230457 Init port command may fail on a system with NC-SI  | 2.30.3000             | 2.30.8000        |
| 157.  | PortInfo MAD link width support       | RM#203632 Wrong link_width_support is reported occasionally in PORT_INFO MAD                                   | 2.30.3000             | 2.30.8000        |
| 158.  | Wrong Virtual Function completer ID   | RM#228422 In SR-IOV a wrong completer ID is added in some of the VF completion packets                         | 2.30.3000             | 2.30.8000        |
| 159.  | PCIe PML1 failures                    | RM#206369 Fixed occasional failures upon entering and exiting L1 state in PCIe Gen1 & 2 speeds                 | 2.30.3000             | 2.30.8000        |
| 160.  | IB: APM failures in ConnectX-3 Pro    | RM#229255 Occasional FSM transition timeouts are seen on APM requests  | 2.30.3000             | 2.30.8000        |
| 161.  | ipmitool OOB commands                 | On rare occasions, ipmitool OOB commands failed upon send payload.   | 2.30.3000             | 2.30.8000        |
| 162.  | Sideband communication                | On rare occasions, after stress of power cycles, side-band communication might disconnect.                     | 2.30.3000             | 2.30.8000        |
| 163.  | Expansion ROM partition               | Expansion ROM partition not found  | 2.30.3000             | 2.30.8000        |
| 164.  | AC power cycle issue                  | In certain servers, AC power cycle may cause BMC connectivity loss.  | 2.30.3000             | 2.30.8000        |
| 165.  | PXE issue                             | Occasionally, during DC cycle stress, failure occurred in PXE due to race condition                            | 2.30.3000             | 2.30.8000        |
| 166.  | SMBUS communication                   | SMBUS communication lost during AC/DC cycle  | 2.30.3000             | 2.30.8000        |

**Table 1 - Fixed Bugs List (Sheet 12 of 17)**

| Index | Issue   | Description  | Discovered in Release | Fixed in Release |
|-------|---|--|-----------------------|------------------|
| 167.  | MTU configuration                               | Temporal wrong MTU configuration during initialization may cause Serial over LAN disconnection   | 2.30.3000             | 2.30.8000        |
| 168.  | IPMI connectivity                               | IPMI OOB communication lost during stress  | 2.30.3000             | 2.30.8000        |
| 169.  | iperf stress test                               | Packet drops during iperf stress w/ different MSS  | 2.30.3000             | 2.30.8000        |
| 170.  | Loss of connection to BMC upon firmware upgrade | Upgrading from firmware v2.10.3898 may cause loss of connection to BMC.  | 2.30.3000             | 2.30.8000        |
| 171.  | Running rmmmod may cause unexpected behavior    | Removing the mlx4_en driver using the "rmmmod" command, may cause unexpected behavior  | 2.30.3000             | 2.30.8000        |
| 172.  | IPMI connectivity                               | On rare occasions, after stress of BMC cold reset, link failure might occur  | 2.30.3000             | 2.30.8000        |
| 173.  | Flexboot 3.4.100-UEFI-4.0.410 BIOS menu         | Enter the BIOS menu while using FlexBoot 3.4.100-UEFI-4.0.410 may cause the server to stop responding (hang)                                     | 2.30.3000             | 2.30.8000        |
| 174.  | ROL failure                                     | ROL failure after disassembling the driver on the SUT  | 2.30.3000             | 2.30.8000        |
| 175.  | IPMI link failure                               | IPMI link failure after disabling the WoL or disassembling the driver  | 2.30.3000             | 2.30.8000        |
| 176.  | WoL and RoL issues                              | WoL and RoL issues caused when the IPMI is disabled  | 2.30.3000             | 2.30.8000        |
| 177.  | A link flapping issue                           | Alignment marker arrival can no longer drop the link.  | 2.30.3000             | 2.30.8000        |
| 178.  | IPMI - SOL traffic performance improvement      | SOL with multiple data streams occasionally hang   | 2.30.3000             | 2.30.8000        |
| 179.  | RoCE  | RoCE does not function properly after running "ethtool ethX"   | 2.30.3000             | 2.30.8000        |
| 180.  | PCI link errors                                 | PCI link errors false indication. Cleared errors during PCIe link retraining   | 2.30.3000             | 2.30.8000        |
| 181.  | PCIe speed change                               | RM#209199Fixed a false indication for incoming PCIe speed change request   | 2.30.3000             | 2.30.8000        |
| 182.  | No NC-SI after PXE teardown                     | Management transport was not supported, after PXE driver teardown (unload). Fixed the flow to issue software reset, after the driver was stopped | 2.30.3000             | 2.30.8000        |
| 183.  | Ports PLL calibration issue                     | RM #199503PLL calibration were affected by operating point configuration   | 2.30.3000             | 2.30.8000        |



**Table 1 - Fixed Bugs List (Sheet 13 of 17)**

| Index | Issue                                  | Description  | Discovered in Release | Fixed in Release |
|-------|--|--|-----------------------|------------------|
| 184.  | Cable Info MAD issue                   | RM #208874 Wrong cable info was received when using the MC2210411-SR4 module   | 2.30.3000             | 2.30.8000        |
| 185.  | Revision ID                            | Updated the Revision ID of Node Info and General Info MADs to reflect HW Rev ID instead of 0   | 2.30.3000             | 2.30.8000        |
| 186.  | Port Error counters reset              | RM #190185 Port error counters were not cleared upon XAUI/SGMII link up  | 2.30.3000             | 2.30.8000        |
| 187.  | RDMA retransmission on ConnectX®-3 Pro | RM #211404 RDMA retransmission failed in specific scenario of receiving NAKs on ConnectX®-3 Pro due to bad static configuration  | 2.30.3000             | 2.30.8000        |
| 188.  | NMI on PCIe Gen2 server                | RM #107249 Fixed a PCIe Gen2 firmware flow to prevent NMI during hibernation on PCIe Gen2 server   | 2.30.3000             | 2.30.8000        |
| 189.  | Access to closed resources             | RM#203944 Fixed a possible access to unmapped resource memory  | 2.30.3000             | 2.30.8000        |
| 190.  | Slow link establishment in NC-SI       | Slow link establishment in NC-SI caused due to slow cable reading in boot  | 2.30.3000             | 2.30.8000        |
| 191.  | PCIe speed change                      | RM#193971 Occasionally, a failure occurred in speed when changing to Gen2  | 2.30.3000             | 2.30.8000        |
| 192.  | PXE teardown issue                     | PXE might halt during teardown   | 2.30.3000             | 2.30.8000        |
| 193.  | InfiniBand loopback                    | InfiniBand loopback was blocked during link negotiation on the same port   | 2.11.0500             | 2.30.8000        |
| 194.  | Voltage scaling                        | Fixed process voltage scaling issue  | 2.30.3000             | 2.30.8000        |
| 195.  | DMA address 0x0                        | Fixed a possible read access to DMA address 0x0  | 2.11.0500             | 2.30.8000        |
| 196.  | cqe issue                              | Fixed miss cqe issue due to interrupt moderation   | 2.11.0500             | 2.30.8000        |
| 197.  | Cable reading issue                    | Fixed a rare cable reading issue upon cable insertion  | 2.30.3000             | 2.30.8000        |
| 198.  | Linkup issue                           | Fixed a linkup issue against MSX60XX FDR switch  | 2.30.3000             | 2.30.8000        |
| 199.  | LLR Vendor Specific MAD                | LLR Dropped cell counter reported CSN error  | 2.11.0500             | 2.30.8000        |
| 200.  | PXE boot failure                       | On rare occasions, PXE boot fails due to a firmware issue interfering with the PXE load from the card's flash. Upon failure, the following message is received: "Payload inaccessible - cannot continue" | 2.30.3000             | 2.30.8000        |

**Table 1 - Fixed Bugs List (Sheet 14 of 17)**

| Index | Issue                                      | Description   | Discovered in Release | Fixed in Release |
|-------|--|---|-----------------------|------------------|
| 201.  | MLNX_OFED v2.0-2.0.3 reports ETH RX errors | MLNX_OFED v2.0-2.0.3 reported RX errors when the driver operated in the ETH only mode.  | MLNX_OFED v2.0.2.0.3  | 2.30.3200        |
| 202.  | SR-IOV guest communication channel error   | RM#270160Under certain conditions, SR-IOV guest experienced request timeouts and got stuck.   | 2.11.0500             | 2.30.3200        |
| 203.  | No NC-SI after PXE teardown                | Management transport was not supported, after PXE driver teardown (unload). Fixed the flow to issue software reset, after the driver was stopped. | 2.11.0500             | 2.30.3000        |
| 204.  | Revision ID                                | Updated the Revision ID of Node Info and General Info MADs to reflect hardware Rev ID instead of 0  | 2.11.0500             | 2.30.3000        |
| 205.  | Ports PLL calibration issue                | RM #199503PLL calibration were affected by operating point configuration  | 2.11.0500             | 2.30.3000        |
| 206.  | Port Error counters reset                  | RM #190185Port error counters were not cleared upon XAUI/SGMII link up  | 2.11.0500             | 2.30.3000        |
| 207.  | Receiver SerDes tuning                     | Enhanced the receiver SerDes tuning for 10GE, to support specific 10GbE QSFP to SFP+ splitter cables  | 2.11.0500             | 2.30.3000        |
| 208.  | Access to closed resources                 | RM#203944Fixed a possible access to unmapped resource memory  | 2.11.0500             | 2.30.3000        |
| 209.  | Slow link establishment in NC-SI           | Slow link establishment in NC-SI caused due to slow cable reading in boot   | 2.11.0500             | 2.30.3000        |
| 210.  | PCIe speed change                          | RM#193971Occasionally, a failure occurred in speed when changing to Gen2  | 2.11.0500             | 2.30.3000        |
| 211.  | PXE teardown issue                         | PXE might halt during teardown  | 2.11.0500             | 2.30.3000        |
| 212.  | InfiniBand loopback                        | InfiniBand loopback was blocked during link negotiation on the same port  | 2.11.0500             | 2.30.3000        |
| 213.  | Voltage scaling                            | Fixed process voltage scaling issue   | 2.11.0500             | 2.30.3000        |
| 214.  | DMA address 0x0                            | Fixed a possible read access to DMA address 0x0   | 2.11.0500             | 2.30.3000        |
| 215.  | cqe issue                                  | Fixed miss cqe issue due to interrupt moderation  | 2.11.0500             | 2.30.3000        |
| 216.  | Cable reading issue                        | Fixed a rare cable reading issue upon cable insertion   | 2.11.0500             | 2.30.3000        |

**Table 1 - Fixed Bugs List (Sheet 15 of 17)**

| Index | Issue   | Description  | Discovered in Release | Fixed in Release |
|-------|---|--|-----------------------|------------------|
| 217.  | PXE boot failure  | On rare occasions, PXE boot fails due to a firmware issue interfering with the PXE load from the card's flash. Upon failure, the following message is received: "Payload inaccessible - cannot continue" | 2.11.0500             | 2.30.3000        |
| 218.  | Momentarily packet drop on one port while the other port goes down      | When the same VLAN is configured for both ports and one port goes down, the second port may suffer a momentarily packet drop   | 2.11.0500             | 2.30.3000        |
| 219.  | Advanced Error Reporting  | Fixes to Advanced Error Reporting according to the PTC (PCIe compliancy) Test failures   | 2.11.0500             | 2.30.3000        |
| 220.  | 10GbE link remains down after changing to a 40GbE link                  | When changing link connection between 40GbE to 10GbE, the port might stay down until the next driver restart.  | 2.11.0500             | 2.30.3000        |
| 221.  | Race in PCIe L1 flow  | The device may enter an L1 power state before completing an incoming configuration request if it arrived before the power state change ack for Root Complex  | 2.11.0500             | 2.30.3000        |
| 222.  | Wrong link speed after several cable re-insertions                      | During repeated cable reinsertion, the link may raise in a lower speed than expected/  | 2.11.0500             | 2.30.3000        |
| 223.  | Changing port protocol from ETH to IB requires driver restart           | Bad configuration of <code>ib_protocol</code> when setting the port to InfiniBand after exchanging it from Ethernet/RoCE on the same port  | 2.11.0500             | 2.30.3000        |
| 224.  | Rare NMI error on HP servers when using PXE                             | On rare occasions, an NMI error is received when stopping PXE boot in the middle of an action on HP servers  | 2.11.0500             | 2.30.3000        |
| 225.  | Race in PCI configuration handling                                      | The system was unresponsive when a race between PCI configuration cycles handling in hardware and firmware occurred.   | 2.11.0500             | 2.30.3000        |
| 226.  | RoCE breaks IPv6 traffic  | IPv6 packets dropped while RoCE was enabled  | 2.11.0500             | 2.30.3000        |
| 227.  | Link reset, HCA to SwitchX®   | On rare link reset occasions, an HCA to SwitchX® link may remain in ARM state after SwitchX reboot, and not reach the Active state.  | 2.11.0500             | 2.30.3000        |
| 228.  | 40GbE switches link down upon repeated insertion and removing of cables | When repeatedly plugging out and plugging in cables to/from a 40GbE switch, the link remains down.   | 2.10.0800             | 2.11.0500        |

**Table 1 - Fixed Bugs List (Sheet 16 of 17)**

| Index | Issue                                    | Description   | Discovered in Release | Fixed in Release |
|-------|--|---|-----------------------|------------------|
| 229.  | FDR/QDR vs DDR switch                    | The link is raised as SDR rather than DDR   | 2.10.0800             | 2.11.0500        |
| 230.  | 0.5M, 1M Copper FDR cable support        | 0.5M, 1M Copper FDR cables (Paralink11, Paralink14) are not supported in back to back connection.   | 2.10.0800             | 2.11.0500        |
| 231.  | Changing FDR cables from Fiber to Copper | Changing FDR cables from Fiber to Copper and vice versa might cause link speed degradation from FDR to FDR10 or FDR10 to QDR.   | 2.10.0800             | 2.11.0500        |
| 232.  | Changing 40GbE connection                | Changing 40GbE connection from back to back to a switch port and vice versa might cause the link to stay down in the ConnectX®-3 side.  | 2.10.0800             | 2.11.0500        |
| 233.  | SDR vs QDR switch                        | InfiniBand link vs QDR switch rises as DDR or SDR   | 2.10.0800             | 2.11.0500        |
| 234.  | QDR link up time                         | On rare occasions, the QDR link up time between an FDR card and a QDR device was up to 4 minutes  | 2.10.0800             | 2.11.0500        |
| 235.  | QDR Link stability                       | QDR Link stability between ConnectX®-3 and InfiniScale® IV  | 2.10.0800             | 2.11.0500        |
| 236.  | Signal integrity issues                  | Signal integrity issues in all speeds   | 2.10.0800             | 2.11.0500        |
| 237.  | PCI correctable error                    | Fixed bad PCI reporting   | 2.10.0800             | 2.11.0500        |
| 238.  | RoCE re-transmission                     | Not re-transmitting from the beginning of the message but from PSN NAK.   | 2.10.0800             | 2.11.0500        |
| 239.  | RoCE                                     | R-RoCE ignored SMAC check   | 2.10.0800             | 2.11.0500        |
| 240.  | Function Level Reset (FLR)               | FLR to PPF in SRIOV   | 2.10.0800             | 2.11.0500        |
| 241.  |  | FLR in no-driver mode   | 2.10.0800             | 2.11.0500        |
| 242.  | SR-IOV                                   | Comchannel bug fix  | 2.10.0800             | 2.11.0500        |
| 243.  | 40GbE performance                        | 40GbE full wire speed was not reached with former cards configuration for MCX314 and MCX313 40GbE cards.<br><b>Fix:</b> Increased core frequency to support 40GbE full wire speed. This change requires 1V input.<br><b>Affected cards:</b> MCX313A-BCB, MCX-314A-BCB | 2.10.0700             | 2.10.0800        |
| 244.  |  | The ConnectX® card was not receiving frames with minimum IPG when configured to 40GbE.<br><b>Fix:</b> Updated firmware configuration.<br><b>Affected cards:</b> All cards capable of 40GbE speed  | 2.10.0700             | 2.10.0800        |

**Table 1 - Fixed Bugs List (Sheet 17 of 17)**

| Index | Issue   | Description  | Discovered in Release | Fixed in Release |
|-------|---|--|-----------------------|------------------|
| 245.  | GUIDs for RoCE  | Ethernet only cards did not have GUIDs flashed on the device. This caused RoCE to fail once two or more cards were active on the same machine.<br><b>Fix:</b> The firmware generates the GUIDs from the flashed MACs for ETH only cards.<br><b>Affected cards:</b> All ETH only cards. | 2.10.0700             | 2.10.0800        |
| 246.  | 40GbE signal integrity  | Signal integrity improved in 40GbE speed.  | 2.10.0000             | 2.10.0700        |
| 247.  |   |  |                       |                  |
| 248.  | PCIe Gen3 receiver sensitivity due to BIOS changes                    | Due to BIOS changes required by latest Intel guidelines for PCIe Gen3, a sensitivity in PCIe eye_centering algorithm caused link degradation on some platforms.  | 2.10.0600             | 2.10.0620        |
| 249.  | FDR, FDR10, 10GbE XFI/SFI signal integrity                            | Signal integrity improved for the following speeds:<br>FDR, FDR10, 10GbE XFI/SFI.  | 2.10.0000             | 2.10.0600        |
| 250.  |   |  |                       |                  |
| 251.  | VDD_MODE GPIO changed after reset                                     | In boards with VDD_MODE GPIO, the GPIO was dropped after reset hence, causing voltage to be reduced to 0.9v.<br><b>Fix:</b> The GPIO in boards with VDD_MODE GPIO is no longer dropped across resets.  | 2.10.0000             | 2.10.0600        |
| 252.  | PCIe configuration type1 requests were dropped after a PCIe hot reset | After a PCIe hot reset, PCIe configuration type1 requests were dropped instead of being replied as unsupported.<br><b>Fix:</b> A proper notification is sent every time PCIe configuration type1 requests are dropped.   | 2.10.0000             | 2.10.0600        |