



Changes and New Features History

This section includes history of changes and new feature of three major releases back. For older versions' history, please refer to their dedicated release notes.

Keyword	Description
	31.2012.2304
General	See Bug fixes .

Keyword	Description
	31.2012.2234
General	See Bug fixes .

Keyword	Description
	31.2012.2200
General	See Bug fixes .

Keyword	Description
	31.2012.2148
General	See Bug fixes .

Keyword	Description
	31.2012.2014
Device HW	Added Beta-level support for MMS4X50-NM module.
SHARP	Added support for gateway Dump. The new Dump file contains SHARP gateway content.
Counters	Added PPCNT new group 0x26 and a new page 241 for Diagnostic Data VS MAD.
Counters	Added support for two performance class MADs : 1. PortXmitConCtrl 2. PortVLXmitTimeCong
Resiliey	Added a mechanism to release the packet interface when a long command packet handling timeout is detected to reduce firmware freeze.

Keyword	Description
Telemetry	Added support for Fast Recovery notifications of the OS entity in the network.
General	See Bug fixes .

Keyword	Description
31.2012.1068	
Device HW	<p>Added limited support for MMS4X50-NM module.</p> <div style="background-color: #ffffcc; padding: 10px;"> <p>(i) Note When working with two 4xports, toggling one port following the other port might lead to link flap issue. To recover, toggle the port again.</p> </div>
General	See Bug fixes .

Keyword	Description
31.2012.1024	
Fast Recovery from Unhealthy Links	Added support of the fast recovery from unhealthy links including BER monitor and credit watchdog.
Fast Recovery Notifications Towards UFM	Added support for notifications of Fast Recovery towards UFM entity (collector) in the network.
General	See Bug fixes .

Keyword	Description
31.2010.6102	
General	See Bug fixes .

Keyword	Description
31.2010.6064	

Keyword	Description
Counters: Unhealthy Link	Added BER Monitor counters for unhealthy link.
SHARP-Based Reliable Multicast Packets	Added support for SHARP-based reliable multicast packets.
Additional Status in Each MAD	Added support of <i>AdditionalStatus</i> in MAD packets.
Mirroring Congested Packets Towards UFM	Added support for mirroring of congested packets towards UFM entity (collector) in the network.
General	See Bug fixes .

Keyword	Description
31.2010.5108	
IB Router	Added support for NDR InfiniBand Router which enables isolation and connectivity between up to eight different InfiniBand subnets. The IB Router enables features such as Adaptive Routing (AR), Hash Based Forwarding (HBF), and Self-Healing Interconnect Enhancement for IntelIgent Datacenters (SHIELD).
General	See Bug fixes .

Keyword	Description
31.2010.5002	
SHARP SAT Reliable Multicast	Added engineering-sample-level support for RMC request (SHARP SAT opcode 0xA) and RMC response (SHARP SAT opcode 0xB).
General	See Bug fixes .

Keyword	Description
31.2010.4102	
General	Stability improvements.
General	See Bug fixes .

Keyword	Description
31.2010.4010	
pFRN Collector	Added support for mirroring of PFRN packets towards UFM entity (collector) in the subnet.
PKEY Filter for Multicast	Added support for MulticastPKeyTrapSuppression (PKEY mismatch filtering).
Congestion Control Updates	Added support for 1kb granularity for the port congestion profiles.
SL-to-VL Mapping	Added switch support for port mask optimization of SL-to-VL Mapping Table configuration.
General	See Bug fixes .

Keyword	Description
31.2010.3118	
Hash-Based Routing	Enabled the reordering of sensitive traffic to load balance on multiple ports by using Hash-Based Routing.
General	See Bug fixes .

Keyword	Description
31.2010.3004	
Counters	Added support for PortXmitWaitVLExtended counters.
pFRN	Added support for pFRN (Proactive Fault Routing Notification) which allows for dynamic link failure detection and route correction for topologies based on Adaptive Routing
General	See Bug fixes .

Keyword	Description
31.2010.2300	
SHARPV3	Added GA-level support for aggregation jobs to run over parallel links.
General	Bug fixes .

Keyword	Description
31.2010.2246	
SHARPV3	Added beta-level support for aggregation jobs to run over parallel links.
General	Bug fixes.

Keyword	Description
31.2010.2110	
SHARPV3	Added GA-level support for SHARPV3 on Quantum-2 systems.
General	Bug fixes.

Keyword	Description
31.2010.2036	
Systems	Added power and system monitoring optimizations.
SHARP V3	Added beta-level support for SHARP V3 on Quantum-2 systems.
Hash Based Forwarding	Added alpha-level support for Hash Based Forwarding Routing Capability.
Security	Added security enhancements to QM9790 system.

Keyword	Description
31.2010.1310	
Systems	Added GA-level support for NVIDIA Quantum-2-based switch QM9790.
Congestion Control	Added ES-level support for congestion control class key.
Vendor Key	Added ES-level support for vendor class key.
Hierarchy Information	Added support for Hierarchy Information mad.
Remote Debug Token	Added support for Remote Debug Token.
NVIDIA® Scalable Hierarchical Aggregation and Reduction Protocol (SHARP)™	Added GA-level support for SHARPV2 for NVIDIA Quantum-2 systems.

Keyword	Description
Counters	Added support for PortVLXmitFlowCtlUpdateErrors counters.
Security	Added support for Secure Firmware and Secure Firmware Boot on NVIDIA Quantum-2 systems.

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